

01/04/2019



west virginia department of environmental protection

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

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

Friday, January 4, 2019
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

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

Re: Permit Modification Approval for WDTN5IHSM
47-061-01793-00-00

Extend Lateral from 3200' to 7855'. Proposed Vertical Depth change from 7830' to 7715'.

CNX GAS COMPANY LLC

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

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

James A. Martin
Chief

A handwritten signature in blue ink, appearing to read "James A. Martin", is positioned below the printed name and title.

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 Modification Issued: 01/04/2019

Promoting a healthy environment.

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 X Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow X Deep _____

Horizontal X

6) Existing Pad: Yes or No No

MDK 9/27/2018

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target formation is Marcellus Shale @ 7670'-7740' TVD, 70' thick, expected formation pressure ~4600 psi

8) Proposed Total Vertical Depth: 7715' TVD at TD (dependent upon formation dip)

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

10) Proposed Total Measured Depth: 16,018' MD at TD

11) Proposed Horizontal Leg Length: ~7855'

12) Approximate Fresh Water Strata Depths: Shallowest at ~125' and deepest at ~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: 2115', 2565'

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 X

(a) If Yes, provide Mine Info: Name: _____ RECEIVED
Depth: _____ Office of Oil and Gas
Seam: _____ OCT 03 2018
Owner: _____

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WW-6B
(04/15)

4706 * 01793
 API NO. 47- _____ 01/04/2019
 OPERATOR WELL NO. WDTNSIHSM
 Well Pad Name: WDTN5

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	20	New	L/S	<94.0	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	16047	16018	2970 / TOC @ 2855
Tubing	2.375	New	J-55	4.7	Above assumes RF=29'	TBD	N/A
Liners	N/A						

MDR 9/27/2018

TYPE	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	20	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:				

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 46.9

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

23) Describe centralizer placement for each casing string:

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

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

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

25) Proposed borehole conditioning procedures:

Air sections are typically vertical holes - will ensure the hole is clean at section TD prior to EGOH 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.

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*Note: Attach additional sheets as needed.

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WDTN5 Cement Additives

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

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DRILLING WELL PLAN
WDTN-5I-HSM (Marcellus HZ)
Marcellus Shale Horizontal
Monongalia County, WV

Ground Elevation		WDTN-5I-HSM SHL		WDTN-5I-HSM LP		WDTN-5I-HSM BHL		CENTRALIZERS		CONDITIONING		COMMENTS			
Azimuth		1390' GL Elevation		313.5°		313.5°									
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	MD	TVD	MUD	CEMENT								
	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										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	709											
			Sewickley Coal	970			AIR / FW Mist	15.6 ppg Class A + 1% to 3% CaCl2 + 1/4 pps Flake 20% OH Excess Yield = 1.19 TOC @ surface							
			Roof Coal	1058											
			Pittsburgh Coal	1063											
	12-1/4"	9-5/8" 36.0# J-55 LTC	FW/Coal Casing	1380										Ensure the hole is clean at section TD	
			Salt Sand	2115											
			Big Lime	2475											
			Big Injun	2565											
	8-3/4" Tangent	5-1/2" 20.0# P-110 VAR	Price	2805										Soap the hole as needed and ensure the hole is clean at section TD	
			Intermediate Casing	3055											
			50 Foot	3255											
Gordon			3390												
Fifth			3515												
8-3/4" Curve & Lateral	5-1/2" 20.0# P-110 VAR	Bayard	3565										Set through potential salt water zones Cemented to surface Casing to be set ~200'-250' below the Big Injun base		
		Elks	5165												
		Cashaqua	7360												
		Burkett	7505												
		Tully	7530												
		Hamilton	7565												
		Marcellus	7670												
		Production Casing	16018												
		7715													

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 LP @ +/- 7-15 TVD
 TD @ +/- 7715' TVD
 +/- 7855' Lateral

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

WDTN5 Pad Frac - SOG Review

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

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

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

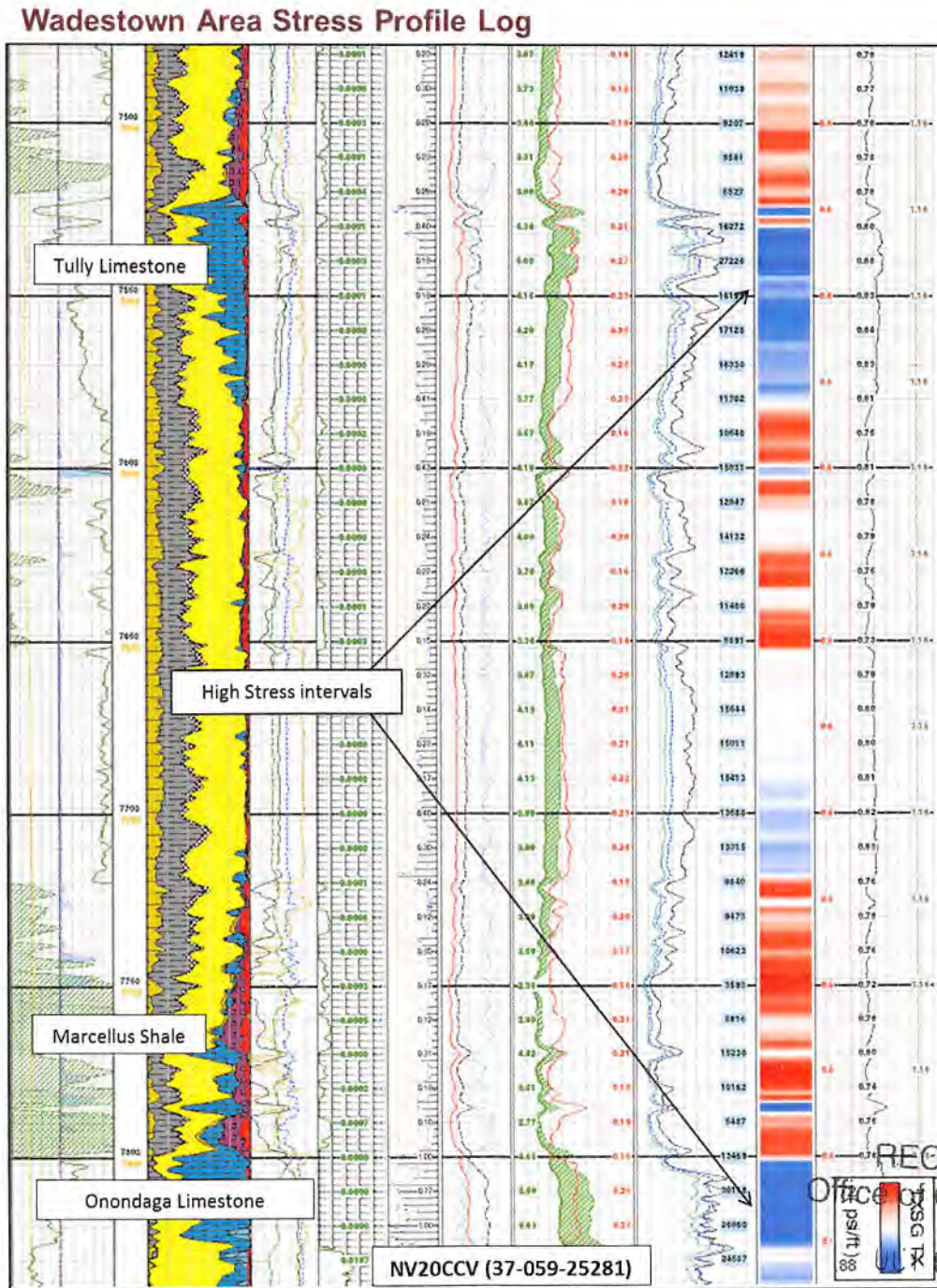
Figure 1. Only 19 wells lie within a 500' buffer around the WDTN5 Pad that penetrate the Big Injun Sand or deeper horizons. The deepest well is 3700' and produces from the 5th Sand. No known SOG Communication events have occurred in this area.



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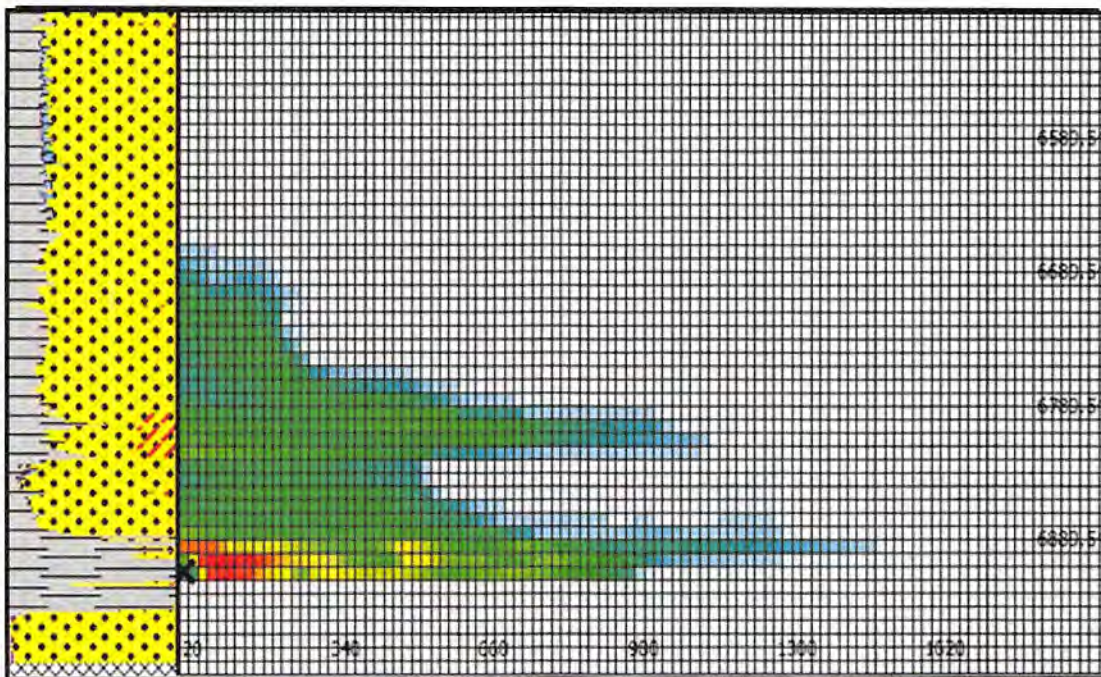
Figure 2. Stratigraphic intervals of high stress should serve as adequate confining layers, or frac barriers, for a Marcellus frac, seen below in the Wadestown Area Stress Profile log.



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

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



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

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

API	STATE	COUNTY	LATITUDE	LONGITUDE	OPERATOR	STATUS	WELL_NAI	WELL_NO	TD	FMTD	ELEVATION	FIELD_NAI	FMPROD	COMMENTS
4706101275	WV	Monongal	39.69746	-80.327	CNG Prodi Gas		Howard A	1		3700 Fifth	1261	Maple-W:		Ground Level
4706101289	WV	Monongal	39.70152	-80.3301	CNG Prodi Gas		Dewey Ru			3655 Bayard	1454	Maple-W:		Ground Level
4706101485	WV	Monongal	39.68238	-80.3074	Dominion Gas		Brent W L			3620 Bayard	1322	Maple-W:		Ground Level
4706101329	WV	Monongal	39.7005	-80.3151	CNG Prodi Gas		John Statl			3588 Fifth	1298	Maple-W:		Ground Level
4706130182	WV	Monongal	39.70659	-80.3397	Pittsburgf Gas		Zoa Wise			3558 Bayard	1250	Maple-W:		Ground Level
4706130265	WV	Monongal	39.69122	-80.3082	Hope Nati Gas		Leo Shrive	1		3492 Fifth	1283	Maple-W:		Ground Level
4706100381	WV	Monongal	39.69688	-80.3346	Hope Nati Gas		Sol Shrive			3452 Bayard	1190	Maple-W:		Topo Estimation
4706101290	WV	Monongal	39.69514	-80.3183	CNG Prodi Gas		Anna S Wl			3450 Bayard	1087	Maple-W:		Ground Level
4706130345	WV	Monongal	39.72071	-80.3467	Manufact Gas		E J & J L He	1		3448 Bayard	1260	Maple-W:		Ground Level
4706101479	WV	Monongal	39.69108	-80.3185	Dominion Gas		Howard A			3429 Bayard	997	Maple-W:		Ground Level
4706101478	WV	Monongal	39.6918	-80.3097	Dominion Gas		John R Sta			3334 Bayard	998	Maple-W:		Ground Level
4706130331	WV	Monongal	39.7165	-80.3538	Manufact Gas		Thomas V	3		3331 Bayard	1164	Maple-W:		Ground Level
4706130327	WV	Monongal	39.68388	-80.317	Hope Nati Gas w/ Oil		Michael B			3324 Fourth	1308	Maple-W:		Ground Level
4706100056	WV	Monongal	39.7194	-80.3564	Manufact Gas		Alex Whit	2		3305 Thirty-foo	1280	Maple-W:		Ground Level
4706130524	WV	Monongal	39.69543	-80.3123	Hope Nati Oil and Ga		J H Hagan			3300 Bayard	1043	Maple-W:		Ground Level
4706100147	WV	Monongal	39.68866	-80.3161	Hope Nati Gas		S H Shrive	4		3300 Fifth	1148	Maple-W:		Ground Level
4706100098	WV	Monongal	39.71926	-80.3532	Carnegie I Gas		J L Henner	1		3083 Fifth	1053	Maple-W:		Ground Level
4706100380	WV	Monongal	39.69586	-80.3178	Hope Nati Gas		Solomon :	2		3075 Fifty-foot	1020	Maple-W:		Barometer
4706130578	WV	Monongal	39.7107	-80.3504	Equitable Gas		Ernest Bel			2440 Big Injun (1414	Maple-W:		Ground Level
4706101206	WV	Monongal	39.69673	-80.324	CNG Prodi Methane		Mabel G V			1093 Pittsburgf	1366	Blacksville		Ground Level
4706101245	WV	Monongal	39.6905	-80.3082	CNG Prodi Methane		Helen & J			1028 Pittsburgf	1309	Blacksville		Ground Level
4706101256	WV	Monongal	39.69021	-80.3029	CNG Prodi Methane		Jesse D Hc			1015 Pittsburgf	1317	Blacksville		Ground Level
4706101184	WV	Monongal	39.69934	-80.3142	CNG Prodi Methane		Helen H &			1009 Pittsburgf	1303	Blacksville		Ground Level
4706101200	WV	Monongal	39.69717	-80.3281	CNG Prodi Methane		Howard Sl			970 Pittsburgf	1242	Blacksville		Ground Level
4706101181	WV	Monongal	39.70108	-80.3268	CNG Prodi Methane		Mabel G V			940 Conemaug	1223	Blacksville		Ground Level
4706101209	WV	Monongal	39.69441	-80.3044	CNG Prodi Methane		John & He			916 Pittsburgf	1208	Blacksville		Ground Level
4706101240	WV	Monongal	39.69253	-80.3183	CNG Prodi Methane		Anna S Wl			860 Pittsburgf	1160	Blacksville		Ground Level
4706101208	WV	Monongal	39.69586	-80.3191	CNG Prodi Methane		Anna S Ba			837 Pittsburgf	1114	Blacksville		Ground Level
4706101215	WV	Monongal	39.69557	-80.3123	CNG Prodi Methane		John & He			750 Pittsburgf	1051	Blacksville		Ground Level
4706101238	WV	Monongal	39.69238	-80.3219	CNG Prodi Methane		Howard Sl			715 Pittsburgf	1019	Blacksville		Ground Level

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WDTN5 PAD GEOLOGICAL PROGNOSIS

WELL NAME:	WDTN5 MARCELLUS PROGNOSIS	
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'

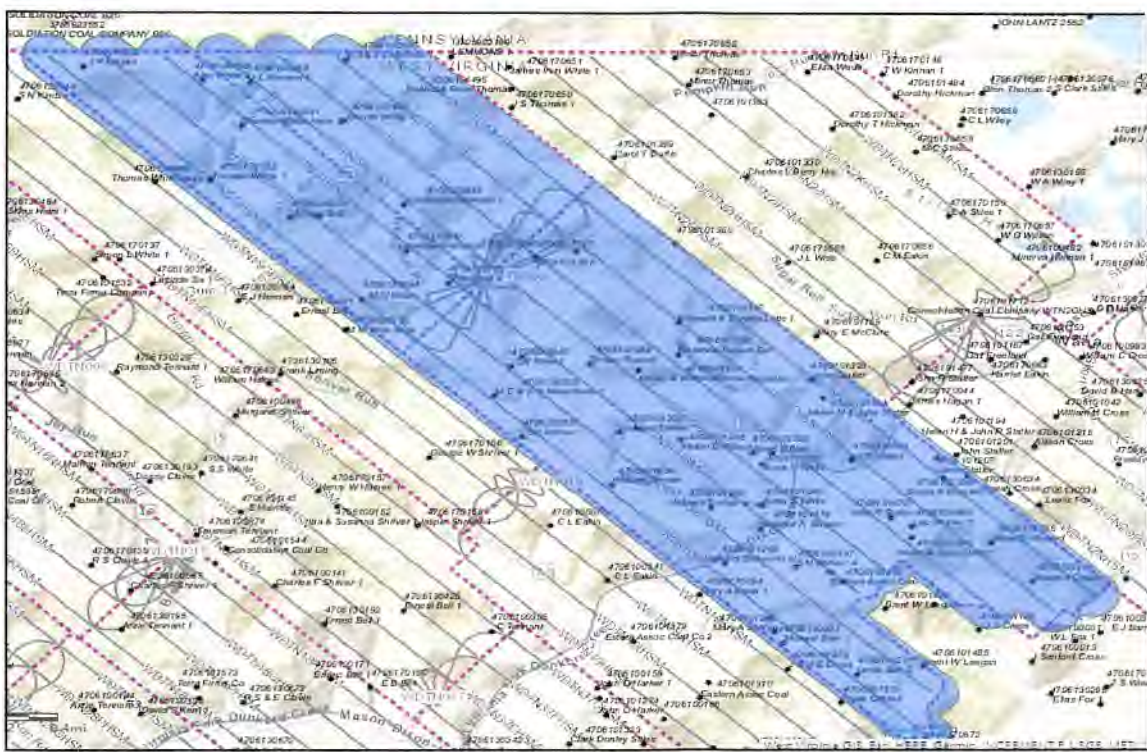
<u>ESTIMATED DEPTHS:</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>GAS CHECKS</u>
WAYNESBURG 1 COAL	709	712	
SEWICKLEY COAL	970	976	
ROOF COAL	1058	1062	
PITTSBURGH COAL	1063	1070	
SALT SAND	2115	2205	2250
BIG LIME	2475	2565	
BIG INJUN SAND	2565	2805	2850
PRICE FM	2805	3255	
50 FT SAND	3255	3335	3350
GORDON SAND	3390	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	7670	7600
MARCELLUS SHALE	7670	7740	
TD		7830	TD AND AFTER 4.5" CSG
FRESH WATER:	25'	SALT WATER:	2180, 2625

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WDTN5 PAD WITH 500' AREA OF REVIEW



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

API	STATE	COUNTY	LATITUDE	LONGITUDE	OPERATOR	STATUS	WELL_NAI	WELL_NO	TD	FMTD	ELEVATION	FIELD_NAI	FMPROD	COMMENTS
4706101275	WV	Monongal	39.69746	-80.327	CNG Prodi Gas		Howard A	1	3700	Fifth	1261	Maple-We		Ground Level
4706101289	WV	Monongal	39.70152	-80.3301	CNG Prodi Gas		Dewey Ru		3655	Bayard	1454	Maple-We		Ground Level
4706101485	WV	Monongal	39.68238	-80.3074	Dominion Gas		Brent W L		3620	Bayard	1322	Maple-We		Ground Level
4706101329	WV	Monongal	39.7005	-80.3151	CNG Prodi Gas		John Statl		3588	Fifth	1298	Maple-We		Ground Level
4706130182	WV	Monongal	39.70659	-80.3397	Pittsburg Gas		Zoa Wise	2	3558	Bayard	1250	Maple-We		Ground Level
4706130265	WV	Monongal	39.69122	-80.3082	Hope Nati Gas		Leo Shrive	1	3492	Fifth	1283	Maple-We		Ground Level
4706100381	WV	Monongal	39.69688	-80.3346	Hope Nati Gas		Sol Shrive		3452	Bayard	1190	Maple-We		Topo Estimation
4706101290	WV	Monongal	39.69514	-80.3183	CNG Prodi Gas		Anna S Wl		3450	Bayard	1087	Maple-We		Ground Level
4706130345	WV	Monongal	39.72071	-80.3467	Manufact Gas		E J & J L He	1	3448	Bayard	1260	Maple-We		Ground Level
4706101479	WV	Monongal	39.69108	-80.3185	Dominion Gas		Howard A		3429	Bayard	997	Maple-We		Ground Level
4706101478	WV	Monongal	39.6918	-80.3097	Dominion Gas		John R Sta		3334	Bayard	998	Maple-We		Ground Level
4706130331	WV	Monongal	39.7165	-80.3538	Manufact Gas		Thomas W	3	3331	Bayard	1164	Maple-We		Ground Level
4706130327	WV	Monongal	39.68388	-80.317	Hope Nati Gas w/ Oil		Michael B		3324	Fourth	1308	Maple-We		Ground Level
4706100056	WV	Monongal	39.7194	-80.3564	Manufact Gas		Alex Whit	2	3305	Thirty-foo	1280	Maple-We		Ground Level
4706130524	WV	Monongal	39.69543	-80.3123	Hope Nati Oil and Ge		J H Hagan		3300	Bayard	1043	Maple-We		Ground Level
4706100147	WV	Monongal	39.68866	-80.3161	Hope Nati Gas		S H Shrive	4	3300	Fifth	1148	Maple-We		Ground Level
4706100098	WV	Monongal	39.71926	-80.3532	Carnegie I Gas		J L Henner	1	3083	Fifth	1053	Maple-We		Ground Level
4706100380	WV	Monongal	39.69586	-80.3178	Hope Nati Gas		Solomon	2	3075	Fifty-foot	1020	Maple-We		Barometer
4706130578	WV	Monongal	39.7107	-80.3504	Equitable Gas		Ernest Bel		2440	Big Injun	1414	Maple-We		Ground Level
4706101206	WV	Monongal	39.69673	-80.324	CNG Prodi Methane		Mabel G V		1093	Pittsburg	1366	Blacksville		Ground Level
4706101245	WV	Monongal	39.6905	-80.3082	CNG Prodi Methane		Helen & J		1028	Pittsburg	1309	Blacksville		Ground Level
4706101256	WV	Monongal	39.69021	-80.3029	CNG Prodi Methane		Jesse D H		1015	Pittsburg	1317	Blacksville		Ground Level
4706101184	WV	Monongal	39.69934	-80.3142	CNG Prodi Methane		Helen H &		1009	Pittsburg	1303	Blacksville		Ground Level
4706101200	WV	Monongal	39.69717	-80.3281	CNG Prodi Methane		Howard S		970	Pittsburg	1242	Blacksville		Ground Level
4706101181	WV	Monongal	39.70108	-80.3268	CNG Prodi Methane		Mabel G V		940	Conemaug	1223	Blacksville		Ground Level
4706101209	WV	Monongal	39.69441	-80.3044	CNG Prodi Methane		John & He		916	Pittsburg	1208	Blacksville		Ground Level
4706101240	WV	Monongal	39.69253	-80.3183	CNG Prodi Methane		Anna S Wl		860	Pittsburg	1160	Blacksville		Ground Level
4706101208	WV	Monongal	39.69586	-80.3191	CNG Prodi Methane		Anna S Ba		837	Pittsburg	1114	Blacksville		Ground Level
4706101215	WV	Monongal	39.69557	-80.3123	CNG Prodi Methane		John & He		750	Pittsburg	1051	Blacksville		Ground Level
4706101238	WV	Monongal	39.69238	-80.3219	CNG Prodi Methane		Howard S		715	Pittsburg	1019	Blacksville		Ground Level

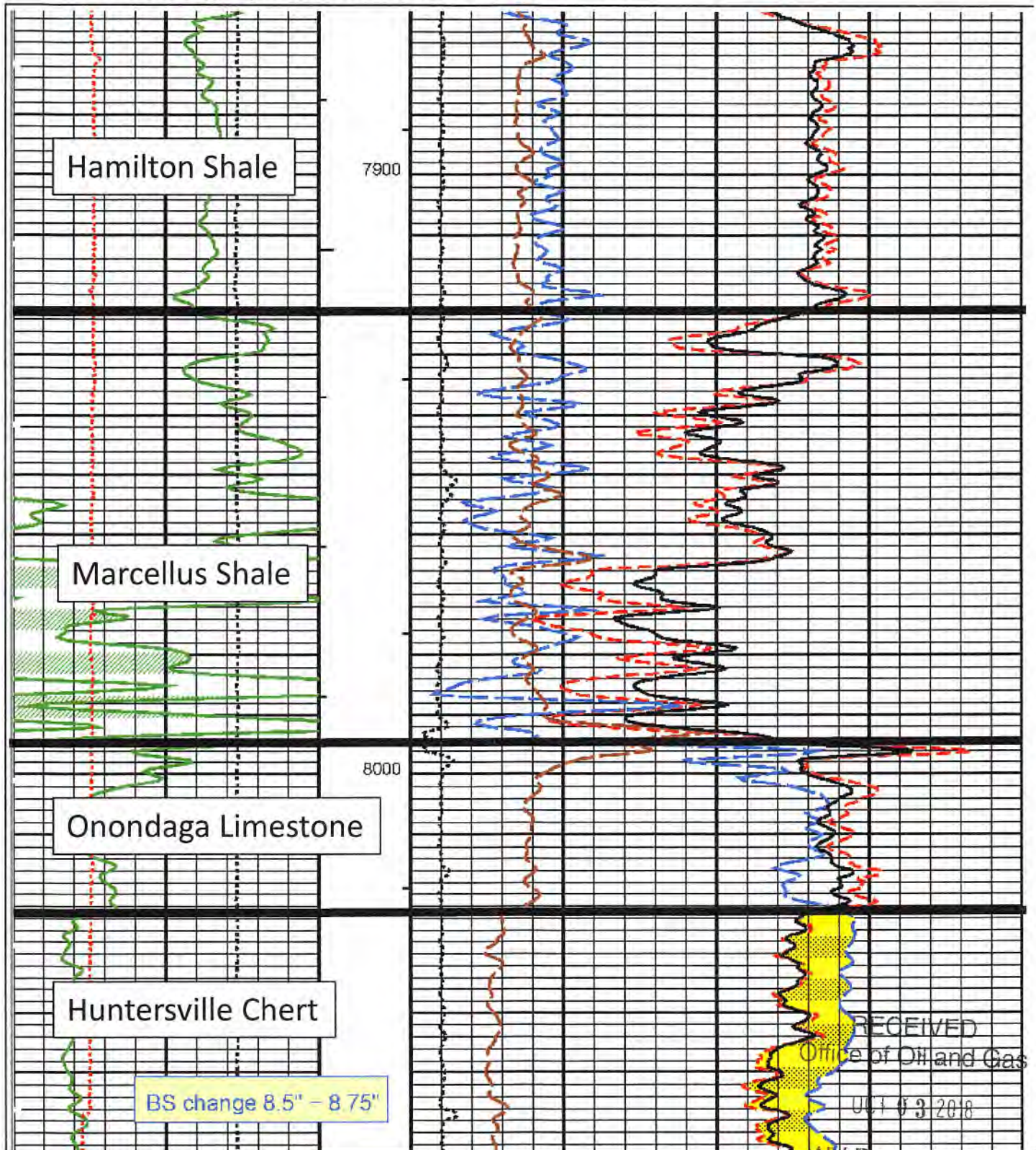
All SOG wells above the WDTN5 Marcellus pad have been plugged and were less than 3700' TD.

RECEIVED
Office of Oil and Gas
OCT 03 2018
WV Department of Environmental Protection



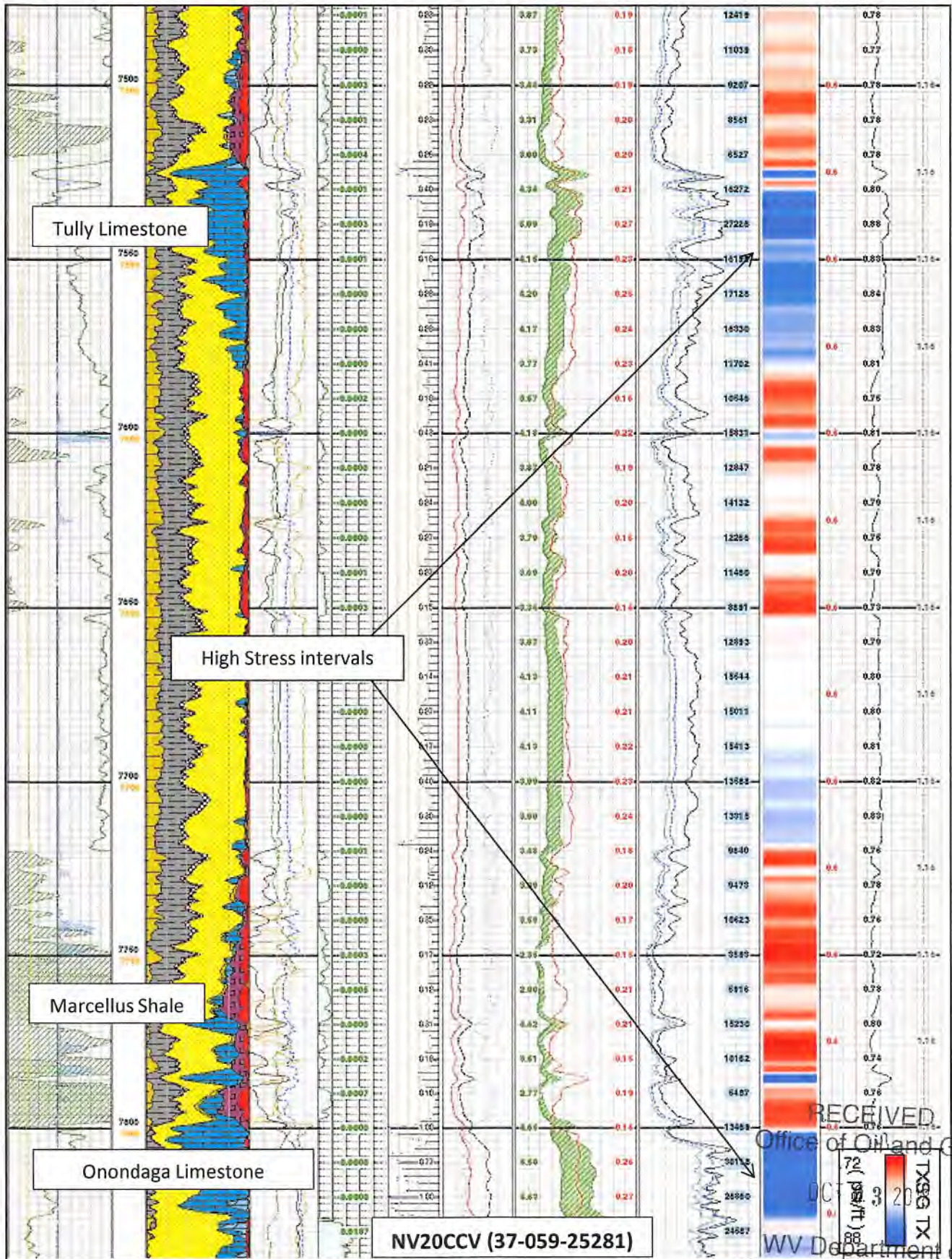
WADESTOWN Area Type Log Esther Clark 3H (47-061-01623)

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



RECEIVED
Office of Oil and Gas
OCT 03 2018
WV Department of
Environmental Protection

Wadestown Area Stress Profile Log



RECEIVED
 Office of Oil and Gas
 WV Department of Environmental Protection
 TX96 TX
 DC 73 (psi/ft) 88

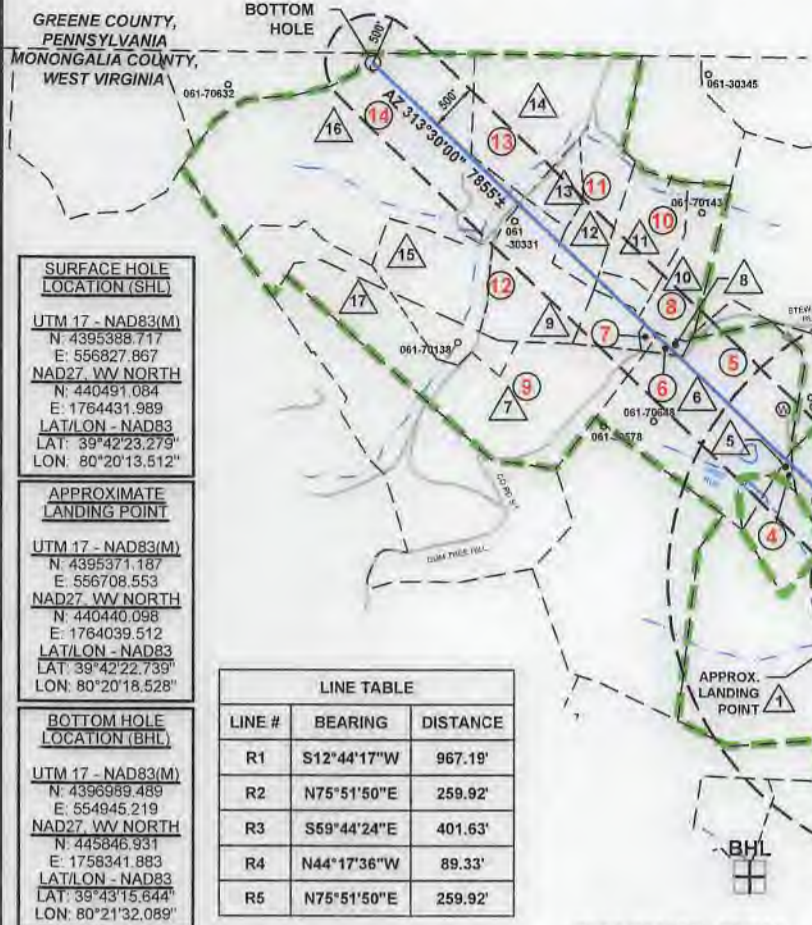
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SHL

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SURFACE TRACT OWNERS & TAX PARCEL

- | | |
|-------------------------------------|--------------|
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| 3. BARBARA J. WAGNER | TM# 1-8-3 |
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SURFACE HOLE LOCATION (SHL)
 UTM 17 - NAD83(M)
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 E: 556827.867
 NAD27 WV NORTH
 N: 440491.084
 E: 1764431.989
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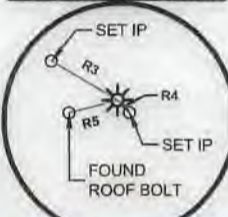
APPROXIMATE LANDING POINT
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 NAD27 WV NORTH
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 LAT/LON - NAD83
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REFERENCE DETAIL



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LEGEND

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	PROPOSED WELL		LEASE BOUNDARY
	WATER SOURCE		PROPOSED HORIZONTAL WELL
	SPRING		SURFACE OIL & GAS LINES
	SURFACE TRACT		SURFACE TRACT LINES ONLY
	LEASED NUMBER BASED ON ATTACHED WW6A1		GAS LEASE LINES ONLY
	RECORD GAS WELL		WELL REFERENCE
	UNKNOWN WELL		STREAM/WATERWAY
			ROAD

Sheffler & Company, Inc.
 ENGINEERING • SURVEYING
 1712 Mount Nebo Road Phone: 412-219-4509
 Sewickley, PA 15143 Email: info@shefflerCo.com

FILE #: WDTN5IHSM
 DRAWING #: 3601 - WDTN5I.DWG
 SCALE: 1"=2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: USGS MONUMENT JX1864: 1,496.32'

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SIGNED:

R.P.E.: 21452 L.L.S.: P.S. NO. _____



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 WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304

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

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 Address: 1000 CONSOL ENERGY DRIVE Address: 1 DOMINION DRIVE
 City CANONSBURG State PA Zip Code 15317 City JANE LEW State WV Zip Code 26378

DATE: September 21, 2018, Rev. October 3, 2018
 OPERATOR'S WELL #: WDTN5IHSM
 API WELL # 47 061 01793
 STATE COUNTY PERMIT

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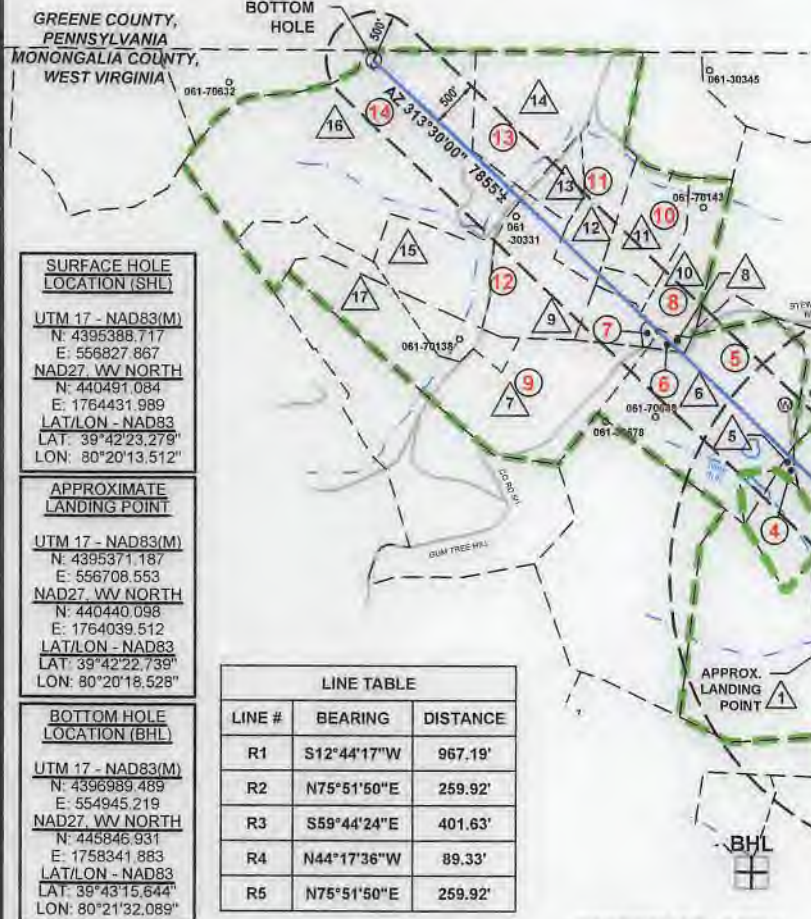
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01/04/2019



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 E: 556827.867
 NAD27 - WV NORTH
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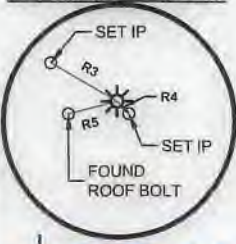
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REFERENCE DETAIL



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

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	RECORD GAS WELL		UNKNOWN WELL		ALL ARE POINTS UNLESS OTHERWISE NOTED		LEASE BOUNDARY		PROPOSED HORIZONTAL WELL		SURFACE, OIL & GAS LINES
	SURFACE TRACT LINES ONLY		GAS LEASE LINES ONLY		WELL REFERENCE		STREAM/WATERWAY		ROAD		

WELLS WITHIN 3000'
 RECORD GAS WELL
 UNKNOWN WELL

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 DRAWING #: 3601 - WDTN5I.DWG
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SIGNED:

R.P.E.: 21452 L.L.S.: P.S. NO. _____



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

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 City CANONSBURG State PA Zip Code 15317 City JANE LEW State WV Zip Code 26378

DATE: September 21, 2018, Rev. October 3, 2018
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 API WELL # 47 061 01793
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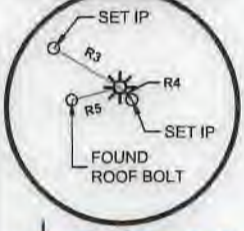
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FILE #: WDTN5IHSM
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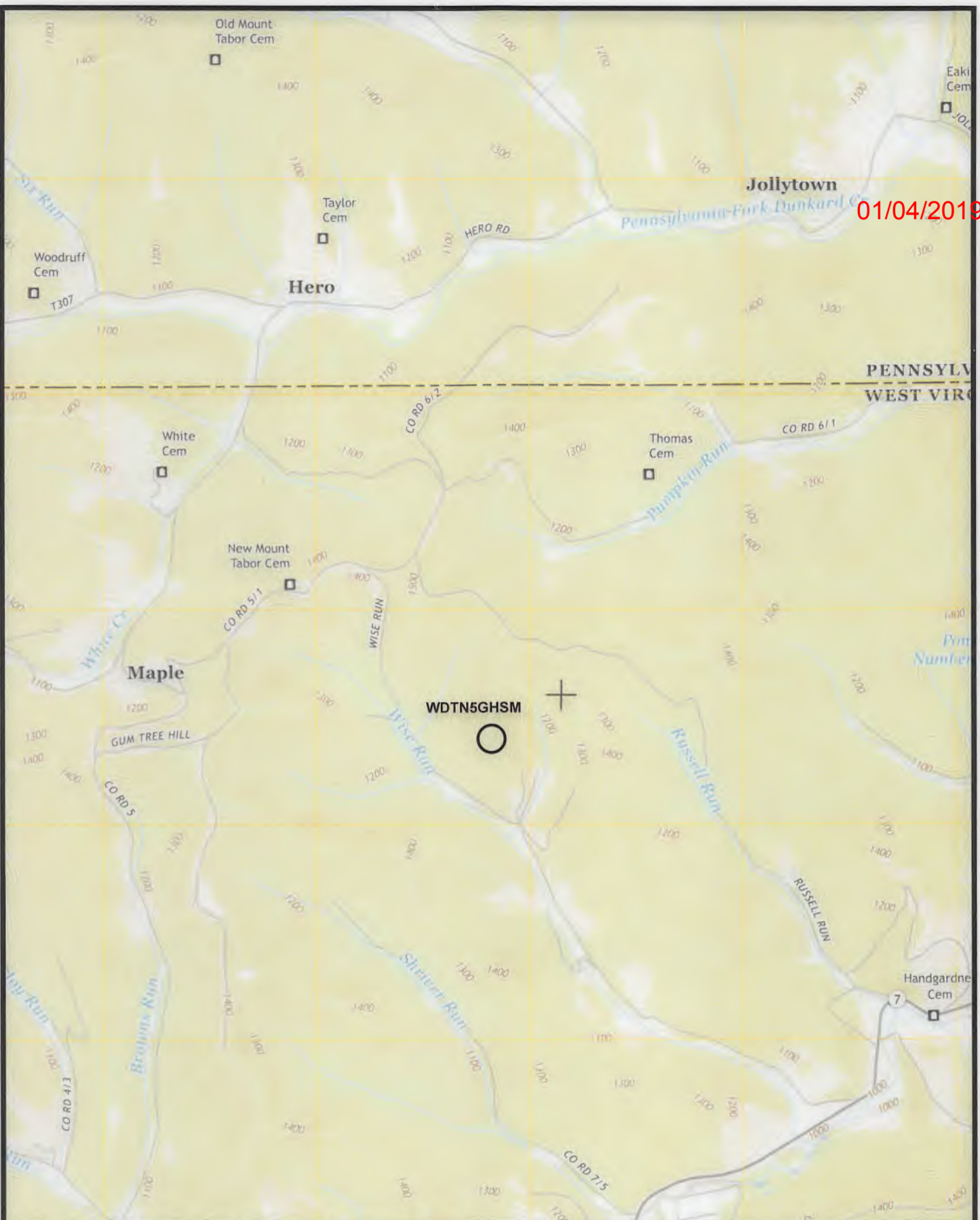
DATE: September 21, 2018, Rev. September 24, 2018
 OPERATOR'S WELL #: WDTN5IHSM
 API WELL # 47 061 01793
 STATE COUNTY PERMIT

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

WATERSHED: DUNKARD CREEK ELEVATION: 1412'
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DATE: September 21, 2018, Rev. September 24, 2018

OPERATOR'S WELL #: WDTN5IHSU

API WELL #	<u>47</u>	<u>061</u>	<u>01793</u>
	STATE	COUNTY	PERMIT

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Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
1	1-8-2	189010000	Richard L. McCauley	CNX Gas Company LLC
			Judy A. Eckman	CNX Gas Company LLC
			Thomas E. McCauley	CNX Gas Company LLC
			Regina Wise Myers, aka Violet Regina Myers	CNX Gas Company LLC
			Evalee A. Everly Shaheen	CNX Gas Company LLC
			Zelda Ruth Brummage	CNX Gas Company LLC
			Dexter Murle Stewart	CNX Gas Company LLC
			Walter C. Ord	CNX Gas Company LLC
			James Freeman Stewart	CNX Gas Company LLC
			Clifford J. Wise	CNX Gas Company LLC
			Victor E. Wise, a single man	CNX Gas Company LLC
			Jesse D. Jones, a married man	CNX Gas Company LLC
			Phyllis J. Petrosky, a widowed woman	CNX Gas Company LLC
			Annette E. Stewart, single	CNX Gas Company LLC
			Harold M. Jones, Jr., a single man	CNX Gas Company LLC
			Robert Stewart	CNX Gas Company LLC
			Richard W. Wise	CNX Gas Company LLC
			Walter R. Currence	CNX Gas Company LLC
			Donald D. Wise, aka Donald G. Wise	CNX Gas Company LLC
			Maureen S. Currence	CNX Gas Company LLC
			Opal Jane Wise, Life Estate Holder and John Matthew Wise and Dina M. Wise, Remaindermen	CNX Gas Company LLC
			Michelle L. Currence	CNX Gas Company LLC
			Justin P. Stewart, single	CNX Gas Company LLC
			Debra Goff	CNX Gas Company LLC
			Eleanor J. Wise, single	CNX Gas Company LLC
			Donald E. Nunley and Deborah L. Nunley	CNX Gas Company LLC
			Fred C. Wise and Alice F. Wise	CNX Gas Company LLC
			Patricia J. Mumaw and Richard L. Mumaw	CNX Gas Company LLC
			Richard A. Nunley and Diana K. Nunley	CNX Gas Company LLC
			Mary Nunley Stelton and Donald Stelton	CNX Gas Company LLC
			Linda Stapp	CNX Gas Company LLC
			Melissa A. Bookout	CNX Gas Company LLC
			Jane Irons, widow	CNX Gas Company LLC
Eileen Ann Lyle	CNX Gas Company LLC			
Robert Eugene Michael, Sr.	CNX Gas Company LLC			
Frank Dennis Michael, Jr.	CNX Gas Company LLC			
Evelyn June Michael	CNX Gas Company LLC			
Tonya Chersin	CNX Gas Company LLC			
Boyd Hawkins	CNX Gas Company LLC			
Becky L. Hawkins f/k/a Becky Bortnick	CNX Gas Company LLC			
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
2	1-8-3 1-8-3.1	204769000	Barbara J. Wagner, a widow	CNX Gas Company LLC
			Donald L. White, et al	CNX Gas Company LLC
			Arnold D. Anderson, individually, and as Trustee of the Arnold D. Anderson and Barbara J. Anderson Living Trust UTD May 14th, 2008	CNX Gas Company LLC
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
3	1-8-1.2	205005000	CBC Holdings, LLC	CNX Gas Company LLC
			David W. Deaton and Elizabeth K. Deaton, h/w	CNX Gas Company LLC
			Earl W. Kennedy	CNX Gas Company LLC
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
4	1-8-1.5	204774000	CBC Holdings, LLC	CNX Gas Company LLC
			Gary L. Neely and Arlene Ann Neely	CNX Gas Company LLC
			Earl W. Kennedy	CNX Gas Company LLC
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
5	1-8-1.1	188587000	CBC Holdings, LLC	CNX Gas Company LLC
			Gary L. Neely and Arlene Ann Neely	CNX Gas Company LLC
			Earl W. Kennedy	CNX Gas Company LLC
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
6	p/o 1-2-22	188584000	Mt. Tabor Methodist Episcopal Church	CNX Gas Company LLC
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
7	p/o 1-2-22	188584000	Mt. Tabor Methodist Episcopal Church	CNX Gas Company LLC
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
8	p/o 1-3-2	204777000	David C. White, et ux	CNX Gas Company LLC
			Bettyann Reed	CNX Gas Company LLC
			Nancy Emerick	CNX Gas Company LLC

01/04/2019

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



Sheffler & Company, Inc.
ENGINEERING • SURVEYING
1712 Mount Nebo Road Sewickley, PA 15143 Phone: 412-219-4509 Email: info@shefflerCo.com

DATE: September 21, 2018, Rev. September 24, 2018

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

OPERATOR'S WELL #: WDTN5IHSU
API WELL # 47 STATE 061 COUNTY 01793 PERMIT

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

DRILL 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: 7,715' ± TMD: 16,018' ±
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

Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
8 (CONT.)	p/o 1-3-2	204777000	Edith B. White	CNX Gas Company LLC
			Mary Ann Borkowski, et vir	CNX Gas Company LLC
			Jan W. Ellison, et vir	CNX Gas Company LLC
			Jane E. McIntyre, et vir	CNX Gas Company LLC
			Richard H. Benson II	CNX Gas Company LLC
			Carol Sue Davis	CNX Gas Company LLC
			Karen Imogene Meyers	CNX Gas Company LLC
			Edwin Ray White II	CNX Gas Company LLC
			Anita Susan Talbott	CNX Gas Company LLC
			Alvy Scott White	CNX Gas Company LLC
			Robert L. Tate Jr.	CNX Gas Company LLC
			Frederick C. Tate	CNX Gas Company LLC
			Robert S. Elliot	CNX Gas Company LLC
			Lucy Mae Stickleby	CNX Gas Company LLC
			Timothy J. Tate	CNX Gas Company LLC
			Alex Tate	CNX Gas Company LLC
			Jennifer Marie Carrington	CNX Gas Company LLC
			Marian Rebecca Stone Garrett	CNX Gas Company LLC
			Patricia Kathleen White Hoekstra	CNX Gas Company LLC
			Donald Edward Stone	CNX Gas Company LLC
			Doris Jean White	CNX Gas Company LLC
			David Ray Stone	CNX Gas Company LLC
			Sandra Pixler	CNX Gas Company LLC
			Victor White	CNX Gas Company LLC
			Melinda Reid Hatton	CNX Gas Company LLC
			Dennis Frederick Hatton Jr.	CNX Gas Company LLC
			Amanda Hatton	CNX Gas Company LLC
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
9	1-2-16 1-2-16.2 p/o 1-2-16.1 p/o 1-2-17 p/o 1-2-17.1	188578000	XTO Energy, Inc.	CNX Gas Company, LLC
			Three Rivers Royalty II, LLC	CNX Gas Company, LLC
			Elizabeth A. Martineau, a/k/a, Elizabeth Ada Snyder, a/k/a, Elizabeth Snyder Martineau	CNX Gas Company, LLC
			Rebecca Snyder Bromley, a/k/a Alice Rebecca Snyder Bromley	CNX Gas Company, LLC
			James Brant Snyder	CNX Gas Company, LLC
			Sharon White Bartholomew, a/k/a Sharon R. W. Bartholomew, a/k/a, Sharon Ruth White Bartholomew	CNX Gas Company, LLC
			David T. White and Sarah K. White, h/v, as JTROS	CNX Gas Company, LLC
			Glenn L. White, individually and as trustee of Glenn L. White Trust	CNX Gas Company, LLC
			Alice T. Boone	CNX Gas Company, LLC
			Eldon Bryant Tucker, et ux	CNX Gas Company, LLC
			Charles Tucker, et ux	CNX Gas Company, LLC
			Robert Earl, et ux	CNX Gas Company, LLC
			David Tucker	CNX Gas Company, LLC
			James Tucker, et ux	CNX Gas Company, LLC
			Cheryl Molesky	CNX Gas Company, LLC
			Laurence D. Hare	CNX Gas Company, LLC
			James F. Hare III, et ux	CNX Gas Company, LLC
			Lacy L. Adams, et vir	CNX Gas Company, LLC
			Donald Pelger	CNX Gas Company, LLC
			Carl L. Anderson, et ux	CNX Gas Company, LLC
			David Wayne Anderson	CNX Gas Company, LLC
			Deborah Horton, Trustee and Beneficiary of the Ronald L. Horton Revocable Living Trust	CNX Gas Company, LLC
			Chris Pelger	CNX Gas Company, LLC
			Shannon Harker	CNX Gas Company, LLC
			Chase Schwersenska	CNX Gas Company, LLC
			John Pelger	CNX Gas Company, LLC
			Holly Pelger	CNX Gas Company, LLC
			Brenda Murphy	EQT Production Company
			Vickie L. Simmons	EQT Production Company
			Sherry C. McCoy	EQT Production Company
			David C. Anderson	EQT Production Company
			Kelly Dilbeck	CNX Gas Company, LLC
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
10	1-2-21	204778000	Cheryl Lynn Bennett Frankenfield	CNX Gas Company, LLC
			Connie Lee Norwood	CNX Gas Company, LLC
			Beth Ellen YOUNCIAK, a/k/a Beth Ellen Bennett	CNX Gas Company, LLC
			Ewing Albert Bennett	CNX Gas Company, LLC
			Wilma Bennet Patterson	CNX Gas Company, LLC
			Emily B. Vallin	CNX Gas Company, LLC
			Jennifer Sue Carpenter	CNX Gas Company, LLC
			Shirley Dotterer Wadsworth	CNX Gas Company, LLC
			Kathryn Dotterer Vahl	CNX Gas Company, LLC
			Thelma R. Dotterer Chowning	CNX Gas Company, LLC

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Sewickley, PA 15143 Email: info@shefflerCo.com

DATE: September 21, 2018, Rev. September 24, 2018

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow
 OPERATOR'S WELL #: WDTN5IHSU
 API WELL # 47 STATE 061 COUNTY 01793 PERMIT

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

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 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 7,715' ± TMD: 16,018' ±
 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

Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
10 (CONT.)	1-2-21	204778000	Marc D. Prochazka	CNX Gas Company, LLC
			Richard Leslie Puchstein	CNX Gas Company, LLC
			Carl Eric Puchstein	CNX Gas Company, LLC
			Violet Jean Puchstein, a/k/a Jean Steen Puchstein, individually and as Trustee of the Jean Steen Puchstein Trust U/A dated October 8, 2014	CNX Gas Company, LLC
			John William Bennett	CNX Gas Company, LLC
			Jeffery Carpenter	CNX Gas Company, LLC
			Kent Prochazka	CNX Gas Company, LLC
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
11	1-2-18 1-2-18.1	188580000 204779000	Merrion Oil and Gas Corporation	EQT Production Company
			Hu's Land & Minerals, LLC	EQT Production Company
			Samuel William Stewart and Barbara C. Stewart	CNX Gas Company LLC
			John Samuel Stewart	CNX Gas Company LLC
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
12	1-2-17.2 p/o 1-2-17 p/o 1-2-17.1 p/o 1-2-16.1	239935000	XTO Energy, Inc.	CNX Gas Company, LLC
			Three Rivers Royalty II, LLC	CNX Gas Company, LLC
			Elizabeth A. Martineau, a/k/a, Elizabeth Ada Snyder, a/k/a/, Elizabeth Snyder Martineau	CNX Gas Company, LLC
			Rebecca Snyder Bromley, a/k/a Alice Rebecca Snyder Bromley	CNX Gas Company, LLC
			James Brant Snyder	CNX Gas Company, LLC
			Sharon White Bartholomew, a/k/a Sharon R. W. Bartholomew, a/k/a, Sharon Ruth White Bartholomew	CNX Gas Company, LLC
			David T. White and Sarah K. White, h/w, as JTROS	CNX Gas Company, LLC
			Glenn L. White, individually and as trustee of Glenn L. White Trust	CNX Gas Company, LLC
			Alice T. Boone	CNX Gas Company, LLC
			Eldon Bryant Tucker, et ux	CNX Gas Company, LLC
			Charles Tucker, et ux	CNX Gas Company, LLC
			Robert Earl, et ux	CNX Gas Company, LLC
			David Tucker	CNX Gas Company, LLC
			James Tucker, et ux	CNX Gas Company, LLC
			Cheryl Molesky	CNX Gas Company, LLC
			Laurence D. Hare	CNX Gas Company, LLC
			James F. Hare III, et ux	CNX Gas Company, LLC
			Lacy L. Adams, et vir	CNX Gas Company, LLC
			Donald Pelger	CNX Gas Company, LLC
			Carl L. Anderson, et ux	CNX Gas Company, LLC
			David Wayne Anderson	CNX Gas Company, LLC
			Deborah Horton, Trustee and Beneficiary of the Ronald L. Horton Revocable Living Trust	CNX Gas Company, LLC
			Chris Pelger	CNX Gas Company, LLC
			Shannon Harker	CNX Gas Company, LLC
			Chase Schwersenska	CNX Gas Company, LLC
			John Pelger	CNX Gas Company, LLC
			Holly Pelger	CNX Gas Company, LLC
			Brenda Murphy	EQT Production Company
			Vickie L. Simmons	EQT Production Company
			Sherry C. McCoy	EQT Production Company
			David C. Anderson	EQT Production Company
			Kelly Dilbeck	CNX Gas Company, LLC
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
13	1-2-19	204780000	Merrion Oil and Gas Corporation	EQT Production Company
			Hu's Land & Minerals, LLC	EQT Production Company
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
14	1-2-14	188577000	XTO Energy, Inc.	CNX Gas Company, LLC
			David Liming and Nancy Liming	CNX Gas Company, LLC
			Three Rivers Royalty II, LLC	CNX Gas Company, LLC
			Elizabeth A. Martineau, a/k/a, Elizabeth Ada Snyder, a/k/a/, Elizabeth Snyder Martineau	CNX Gas Company, LLC
			Rebecca Snyder Bromley, a/k/a Alice Rebecca Snyder Bromley	CNX Gas Company, LLC
			James Brant Snyder	CNX Gas Company, LLC
			Sharon White Bartholomew, a/k/a Sharon R. W. Bartholomew, a/k/a, Sharon Ruth White Bartholomew	CNX Gas Company, LLC
			David T. White and Sarah K. White, h/w, as JTROS	CNX Gas Company, LLC
			Glenn L. White, individually and as trustee of Glenn L. White Trust	CNX Gas Company, LLC
			Alice T. Boone	CNX Gas Company, LLC
			Eldon Bryant Tucker, et ux	CNX Gas Company, LLC
			Charles Tucker, et ux	CNX Gas Company, LLC
			Robert Earl, et ux	CNX Gas Company, LLC
			David Tucker	CNX Gas Company, LLC
			James Tucker, et ux	CNX Gas Company, LLC
			Cheryl Molesky	CNX Gas Company, LLC
			Laurence D. Hare	CNX Gas Company, LLC

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Sheffler & Company, Inc.
ENGINEERING • SURVEYING
1712 Mount Nebo Road Phone: 412-219-4509
Sewickley, PA 15143 Email: info@shefflerCo.com

DATE: September 21, 2018, Rev. September 24, 2018

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

OPERATOR'S WELL #: WDTN5IHSU
API WELL # 47 061 01793
STATE COUNTY PERMIT

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

DRILL 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: 7,715' ± TMD: 16,018' ±
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

Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
14 (CONT.)	1-2-14	188677000	James F. Hare III, et ux	CNX Gas Company, LLC
			Lacy L. Adams, et vir	CNX Gas Company, LLC
			Donald Pelger	CNX Gas Company, LLC
			Carl L. Anderson, et ux	EQT Production Company
			David Wayne Anderson	CNX Gas Company, LLC
			Deborah Horton, Trustee and Beneficiary of the Ronald L. Horton Revocable Living Trust	CNX Gas Company, LLC
			Chris Pelger	CNX Gas Company, LLC
			Shannon Harker	CNX Gas Company, LLC
			Chase Schwersenska	CNX Gas Company, LLC
			John Pelger	CNX Gas Company, LLC
			Holly Pelger	CNX Gas Company, LLC
			Brenda Murphy	EQT Production Company
			Vickie L. Simmons	EQT Production Company
			Sherry C. McCoy	EQT Production Company
			David C. Anderson	EQT Production Company
Kelly Dilbeck	CNX Gas Company, LLC			

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 OPERATOR'S WELL #: WDTN5IHSU
 API WELL # 47 061 01793
STATE COUNTY PERMIT
 WATERSHED: DUNKARD CREEK ELEVATION: 1412'
 COUNTY/DISTRICT: MONONGALIA / BATTELLE QUADRANGLE: WADESTOWN, WV
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TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 7,715' ± TMD: 16,018' ±
 WELL OPERATOR: CNX GAS COMPANY, LLC DESIGNATED AGENT: CHRIS TURNER
 Address: 1000 CONSOL ENERGY DRIVE Address: 1 DOMINION DRIVE
 City CANONSBURG State PA Zip Code 15317 City JANE LEW State WV Zip Code 26378

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

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

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

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

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

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


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

RECEIVED
Office of Oil and Gas

OCT 03 2018

WV Department of
Environmental Protection

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									
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page			
1	1-8-2	189010000	Richard L. McCauley	CNX Gas Company LLC	Not less than 1/8	1442/707			
			Judy A. Eckman	CNX Gas Company LLC	Not less than 1/8	1442/711			
			Thomas E. McCauley	CNX Gas Company LLC	Not less than 1/8	1442/715			
			Regina Wise Myers, aka Violet Regina Myers	CNX Gas Company LLC	Not less than 1/8	1450/740			
			Evalee A. Everly Shaheen	CNX Gas Company LLC	Not less than 1/8	1501/321			
			Zelda Ruth Brummage	CNX Gas Company LLC	Not less than 1/8	1500/762			
			Dexter Murie Stewart	CNX Gas Company LLC	Not less than 1/8	1500/277			
			Walter C. Ord	CNX Gas Company LLC	Not less than 1/8	1501/803			
			James Freeman Stewart	CNX Gas Company LLC	Not less than 1/8	1501/806			
			Clifford J. Wise	CNX Gas Company LLC	Not less than 1/8	1525/130			
			Victor E. Wise, a single man	CNX Gas Company LLC	Not less than 1/8	1501/813			
			Jesse D. Jones, a married man	CNX Gas Company LLC	Not less than 1/8	1509/468			
			Phyllis J. Petrosky, a widowed woman	CNX Gas Company LLC	Not less than 1/8	1510/203			
			Annette E. Stewart, single	CNX Gas Company LLC	Not less than 1/8	1501/806			
			Harold M. Jones, Jr., a single man	CNX Gas Company LLC	Not less than 1/8	1511/101			
								1520/433	
						Robert Stewart	CNX Gas Company LLC	Not less than 1/8	1520/785
						Richard W. Wise	CNX Gas Company LLC	Not less than 1/8	1516/36
						Walter R. Currence	CNX Gas Company LLC	Not less than 1/8	1524/530
						Donald D. Wise, aka Donald G. Wise	CNX Gas Company LLC	Not less than 1/8	1516/486
						Maureen S. Currence	CNX Gas Company LLC	Not less than 1/8	1520/781
						Opal Jane Wise, Life Estate Holder and John Matthew Wise and Dina M. Wise, Remaindermen	CNX Gas Company LLC	Not less than 1/8	1520/481
						Michelle L. Currence	CNX Gas Company LLC	Not less than 1/8	1528/431
						Justin P. Stewart, single	CNX Gas Company LLC	Not less than 1/8	1520/625
						Debra Goff	CNX Gas Company LLC	Not less than 1/8	1529/256
						Eleanor J. Wise, single	CNX Gas Company LLC	Not less than 1/8	1501/809
						Donald E. Nunley and Deborah L. Nunley	CNX Gas Company LLC	Not less than 1/8	1596/260
						Fred C. Wise and Alice F. Wise	CNX Gas Company LLC	Not less than 1/8	1597/89
						Patricia J. Mumaw and Richard L. Mumaw	CNX Gas Company LLC	Not less than 1/8	1598/230
						Richard A. Nunley and Diana K. Nunley	CNX Gas Company LLC	Not less than 1/8	1597/99
						Mary Nunley Steplton and Donald Steplton	CNX Gas Company LLC	Not less than 1/8	1597/85
						Linda Stapp	CNX Gas Company LLC	Not less than 1/8	1601/621
			Melissa A. Bookout	CNX Gas Company LLC	Not less than 1/8	1602/113			
			Jane Irons, widow	CNX Gas Company LLC	Not less than 1/8	1602/108			
			Eileen Ann Lyle	CNX Gas Company LLC	Fee	1600/462			
			Robert Eugene Michael, Sr.	CNX Gas Company LLC	Fee	1599/282			
			Frank Dennis Michael, Jr.	CNX Gas Company LLC	Fee	1599/267			
			Evelyn June Michael	CNX Gas Company LLC	Fee	1600/800			
			Tonya Chersin	CNX Gas Company LLC	Fee	1601/148			
			Boyd Hawkins	CNX Gas Company LLC	Fee	1601/152			
			Becky L. Hawkins f/k/a Becky Bortnick	CNX Gas Company LLC	Fee	1605/324			
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page			
2	1-8-3 1-8-3.1	204769000	Barbara J. Wagner, a widow	CNX Gas Company LLC	Not less than 1/8	1506/533			
			Donald L. White, et al	CNX Gas Company LLC	Not less than 1/8	1507/427			
			Arnold D. Anderson, Individually, and as Trustee of the Arnold D. Anderson and Barbara J. Anderson Living Trust UTD May 14th, 2008	CNX Gas Company LLC	Not less than 1/8	1515/794			
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page			
3	1-8-1.2	205005000	CBC Holdings, LLC	CNX Gas Company LLC	Not less than 1/8	1375/675			
			David W. Deaton and Elizabeth K. Deaton, h/w	CNX Gas Company LLC	Not less than 1/8	1459/36			
			Earl W. Kennedy	CNX Gas Company LLC	Not less than 1/8	1375/654			
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page			
4	1-8-1.5	204774000	CBC Holdings, LLC	CNX Gas Company LLC	Not less than 1/8	1375/675			
			Gary L. Neely and Arlene Ann Neely	CNX Gas Company LLC	Not less than 1/8	1602/835			
			Earl W. Kennedy	CNX Gas Company LLC	Not less than 1/8	1375/654			
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page			
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			Gary L. Neely and Arlene Ann Neely	CNX Gas Company LLC	Not less than 1/8	1602/835			
			Earl W. Kennedy	CNX Gas Company LLC	Not less than 1/8	1375/654			
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page			
6	p/o 1-2-22	188584000	Mt. Tabor Methodist Episcopal Church	CNX Gas Company LLC	Not less than 1/8	1614/718			
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page			
7	p/o 1-2-22	188584000	Mt. Tabor Methodist Episcopal Church	CNX Gas Company LLC	Not less than 1/8	1614/718			
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page			
8	p/o 1-3-2	204777000	David C. White, et ux	CNX Gas Company LLC	Not less than 1/8	1614/136			
			Bettyann Reed	CNX Gas Company LLC	Not less than 1/8	1612/556			
			Nancy Emerick	CNX Gas Company LLC	Not less than 1/8	1614/145			

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Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
			Edith B. White	CNX Gas Company LLC	Not less than 1/8	1614/649
			Mary Ann Borkowski, et vir	CNX Gas Company LLC	Not less than 1/8	1614/645
			Jan W. Ellison, et vir	CNX Gas Company LLC	Not less than 1/8	1614/704
			Jane E. McIntyre, et vir	CNX Gas Company LLC	Not less than 1/8	1614/708
			Richard H. Benson II	CNX Gas Company LLC	Not less than 1/8	1520/494
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Carol Sue Davis	CNX Gas Company LLC	Not less than 1/8	1517/242
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Karen Imogene Meyers	CNX Gas Company LLC	Not less than 1/8	1520/498
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Edwin Ray White II	CNX Gas Company LLC	Not less than 1/8	1520/502
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Anita Susan Talbott	CNX Gas Company LLC	Not less than 1/8	1521/773
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Alvy Scott White	CNX Gas Company LLC	Not less than 1/8	1521/777
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Robert L. Tate Jr.	CNX Gas Company LLC	Not less than 1/8	1526/591
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Frederick C. Tate	CNX Gas Company LLC	Not less than 1/8	1527/558
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Robert S. Elliot	CNX Gas Company LLC	Not less than 1/8	1529/679
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Lucy Mae Stickley	CNX Gas Company LLC	Not less than 1/8	1529/675
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Timothy J. Tate	CNX Gas Company LLC	Not less than 1/8	1527/663
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Alex Tate	CNX Gas Company LLC	Not less than 1/8	1528/243
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Jennifer Marie Carrington	CNX Gas Company LLC	Not less than 1/8	1529/272
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Marian Rebecca Stone Garrett	CNX Gas Company LLC	Not less than 1/8	1527/235
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Patricia Kathleen White Hoekstra	CNX Gas Company LLC	Not less than 1/8	1527/239
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Donald Edward Stone	CNX Gas Company LLC	Not less than 1/8	1605/624
			Doris Jean White	CNX Gas Company LLC	Not less than 1/8	1605/329
			David Ray Stone	CNX Gas Company LLC	Not less than 1/8	1606/619
			Sandra Pixler	CNX Gas Company LLC	Not less than 1/8	1605/808
			Victor White	CNX Gas Company LLC	Not less than 1/8	131/33
			Melinda Reid Hatton	CNX Gas Company LLC	Not less than 1/8	131/33
			Dennis Frederick Hatton Jr.	CNX Gas Company LLC	Not less than 1/8	131/33
			Amanda Hatton	CNX Gas Company LLC	Not less than 1/8	131/33
9	1-2-16 1-2-16.2 p/o 1-2-16.1 p/o 1-2-17 p/o 1-2-17.1	188578000	XTO Energy, Inc. Three Rivers Royalty II, LLC	CNX Gas Company, LLC CNX Gas Company, LLC	Fee Not less than 1/8	1629/449 1616/673
			Elizabeth A. Martineau, a/k/a, Elizabeth Ada Snyder, a/k/a/, Elizabeth Snyder Martineau	CNX Gas Company, LLC	Not less than 1/8	1521/781
			Rebecca Snyder Bromley, a/k/a Alice Rebecca Snyder Bromley	CNX Gas Company, LLC	Not less than 1/8	1522/563
			James Brant Snyder	CNX Gas Company, LLC	Not less than 1/8	1523/111
			Sharon White Bartholomew, a/k/a Sharon R. W. Bartholomew, a/k/a, Sharon Ruth White Bartholomew	CNX Gas Company, LLC	Not less than 1/8	1529/268
			David T. White and Sarah K. White, h/w, as JTROS	CNX Gas Company, LLC	Not less than 1/8	1543/430
			Glenn L. White, individually and as trustee of Glenn L. White Trust	CNX Gas Company, LLC	Not less than 1/8	1516/48
			Alice T. Boone	CNX Gas Company, LLC	Not less than 1/8	1602/805
			Eldon Bryant Tucker, et ux	CNX Gas Company, LLC	Not less than 1/8	1602/828
			Charles Tucker, et ux	CNX Gas Company, LLC	Not less than 1/8	1602/811
			Robert Earl, et ux	CNX Gas Company, LLC	Not less than 1/8	1602/822
			David Tucker	CNX Gas Company, LLC	Not less than 1/8	1602/840
			James Tucker, et ux	CNX Gas Company, LLC	Not less than 1/8	1602/798
			Cheryl Molesky	CNX Gas Company, LLC	Not less than 1/8	1605/334
			Laurence D. Hare	CNX Gas Company, LLC	Not less than 1/8	1605/618
			James F. Hare III, et ux	CNX Gas Company, LLC	Not less than 1/8	1604/615
			Lacy L. Adams, et vir	CNX Gas Company, LLC	Not less than 1/8	1622/566
			Donald Pelger	CNX Gas Company, LLC	Not less than 1/8	1612/550
			Carl L. Anderson, et ux	CNX Gas Company, LLC	Not less than 1/8	1614/309
			David Wayne Anderson	CNX Gas Company, LLC	Not less than 1/8	1614/153

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Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
			Deborah Horton, Trustee and Beneficiary of the Ronald L. Horton Revocable Living Trust	CNX Gas Company, LLC	Not less than 1/8	1612/572
			Chris Pelger	CNX Gas Company, LLC	Not less than 1/8	1614/639
			Shannon Harker	CNX Gas Company, LLC	Not less than 1/8	1615/704
			Chase Schwersenska	CNX Gas Company, LLC	Not less than 1/8	1614/712
			John Pelger	CNX Gas Company, LLC	Not less than 1/8	1621/329
			Holly Pelger	CNX Gas Company, LLC	Not less than 1/8	1635/236
			Brenda Murphy	EQT Production Company	Not less than 1/8	1615/281
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			Vickie L. Simmons	EQT Production Company	Not less than 1/8	1615/276
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			Sherry C. McCoy	EQT Production Company	Not less than 1/8	1615/278
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			David C. Anderson	EQT Production Company	Not less than 1/8	1615/285
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			Kelly Dilbeck	CNX Gas Company, LLC	Not less than 1/8	131/31
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
10	1-2-21	204778000	Cheryl Lynn Bennett Frankenfield	CNX Gas Company, LLC	Not less than 1/8	1516/482
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Connie Lee Norwood	CNX Gas Company, LLC	Not less than 1/8	1523/309
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Beth Ellen Younclak, a/k/a Beth Ellen Bennett	CNX Gas Company, LLC	Not less than 1/8	1524/73
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Ewing Albert Bennett	CNX Gas Company, LLC	Not less than 1/8	1523/313
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Wilma Bennet Patterson	CNX Gas Company, LLC	Not less than 1/8	1524/538
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Emily B. Vaillin	CNX Gas Company, LLC	Not less than 1/8	1527/243
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Jennifer Sue Carpenter	CNX Gas Company, LLC	Not less than 1/8	1527/563
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Shirley Dotterer Wadsworth	CNX Gas Company, LLC	Not less than 1/8	1520/445
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Kathryn Dotterer Vahl	CNX Gas Company, LLC	Not less than 1/8	1522/69
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Theima R. Dotterer Chowning	CNX Gas Company, LLC	Not less than 1/8	1517/249
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Marc D. Prochazka	CNX Gas Company, LLC	Not less than 1/8	1526/342
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Richard Leslie Puchsteln	CNX Gas Company, LLC	Not less than 1/8	1516/478
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Carl Eric Puchsteln	CNX Gas Company, LLC	Not less than 1/8	1516/482
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Violet Jean Puchsteln, a/k/a Jean Steen Puchsteln, individually and as Trustee of the Jean Steen Puchsteln Trust U/A dated October 8, 2014	CNX Gas Company, LLC	Not less than 1/8	1516/474
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			John William Bennett	CNX Gas Company, LLC	Not less than 1/8	1614/315
			Jeffery Carpenter	CNX Gas Company, LLC	Not less than 1/8	1614/727
			Kent Prochazka	CNX Gas Company, LLC	Not less than 1/8	131/27
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
11	1-2-18 1-2-18.1	188580000 204779000	Merrion Oil and Gas Corporation	EQT Production Company	Not less than 1/8	1516/268
			EQT Production Company	CNX Gas Company LLC	Assignment	135/765
			Hu's Land & Minerals, LLC	EQT Production Company	Not less than 1/8	1516/270
			EQT Production Company	CNX Gas Company LLC	Assignment	135/765
			Samuel William Stewart and Barbara C. Stewart	CNX Gas Company LLC	Not less than 1/8	1528/251
			John Samuel Stewart	CNX Gas Company LLC	Not less than 1/8	1528/460
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
12	1-2-17.2 p/o 1-2-17 p/o 1-2-17.1 p/o 1-2-16.1	239935000	XTO Energy, Inc.	CNX Gas Company, LLC	Fee	1629/449
			Three Rivers Royalty II, LLC	CNX Gas Company, LLC	Not less than 1/8	1616/673
			Elizabeth A. Martineau, a/k/a, Elizabeth Ada Snyder, a/k/a/a, Elizabeth Snyder Martineau	CNX Gas Company, LLC	Not less than 1/8	1521/781
			Rebecca Snyder Bromley, a/k/a Alice Rebecca Snyder Bromley	CNX Gas Company, LLC	Not less than 1/8	1527/563
			James Brant Snyder	CNX Gas Company, LLC	Not less than 1/8	1527/11

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Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
			Sharon White Bartholomew, a/k/a Sharon R. W. Bartholomew, a/k/a, Sharon Ruth White Bartholomew	CNX Gas Company, LLC	Not less than 1/8	1529/268
			David T. White and Sarah K. White, h/w, as JTROS	CNX Gas Company, LLC	Not less than 1/8	1543/430
			Glenn L. White, individually and as trustee of Glenn L. White Trust	CNX Gas Company, LLC	Not less than 1/8	1516/48
			Alice T. Boone	CNX Gas Company, LLC	Not less than 1/8	1602/805
			Eldon Bryant Tucker, et ux	CNX Gas Company, LLC	Not less than 1/8	1602/828
			Charles Tucker, et ux	CNX Gas Company, LLC	Not less than 1/8	1602/811
			Robert Earl, et ux	CNX Gas Company, LLC	Not less than 1/8	1602/822
			David Tucker	CNX Gas Company, LLC	Not less than 1/8	1602/840
			James Tucker, et ux	CNX Gas Company, LLC	Not less than 1/8	1602/798
			Cheryl Molesky	CNX Gas Company, LLC	Not less than 1/8	1605/334
			Laurence D. Hare	CNX Gas Company, LLC	Not less than 1/8	1605/618
			James F. Hare III, et ux	CNX Gas Company, LLC	Not less than 1/8	1604/615
			Lacy L. Adams, et vir	CNX Gas Company, LLC	Not less than 1/8	1612/566
			Donald Pelger	CNX Gas Company, LLC	Not less than 1/8	1612/550
			Carl L. Anderson, et ux	CNX Gas Company, LLC	Not less than 1/8	1614/309
			David Wayne Anderson	CNX Gas Company, LLC	Not less than 1/8	1614/153
			Deborah Horton, Trustee and Beneficiary of the Ronald L. Horton Revocable Living Trust	CNX Gas Company, LLC	Not less than 1/8	1612/572
			Chris Pelger	CNX Gas Company, LLC	Not less than 1/8	1614/639
			Shannon Harker	CNX Gas Company, LLC	Not less than 1/8	1615/704
			Chase Schwersenska	CNX Gas Company, LLC	Not less than 1/8	1614/712
			John Pelger	CNX Gas Company, LLC	Not less than 1/8	1621/329
			Holly Pelger	CNX Gas Company, LLC	Not less than 1/8	1635/236
			Brenda Murphy	EQT Production Company	Not less than 1/8	1615/281
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			Vickie L. Simmons	EQT Production Company	Not less than 1/8	1615/276
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			Sherry C. McCoy	EQT Production Company	Not less than 1/8	1615/278
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			David C. Anderson	EQT Production Company	Not less than 1/8	1615/285
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			Kelly Dilbeck	CNX Gas Company, LLC	Not less than 1/8	131/29
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
13	1-2-19	204780000	Merrion Oil and Gas Corporation	EQT Production Company	Not less than 1/8	1516/268
			EQT Production Company	CNX Gas Company LLC	Assignment	135/765
			Hu's Land & Minerals, LLC	EQT Production Company	Not less than 1/8	1516/270
			EQT Production Company	CNX Gas Company LLC	Assignment	135/765
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
14	1-2-14	188577000	XTO Energy, Inc.	CNX Gas Company, LLC	Fee	1629/449
			David Liming and Nancy Liming	CNX Gas Company, LLC	Not less than 1/8	1520/797
			Three Rivers Royalty II, LLC	CNX Gas Company, LLC	Not less than 1/8	1616/673
			Elizabeth A. Martineau, a/k/a, Elizabeth Ada Snyder, a/k/a/, Elizabeth Snyder Martineau	CNX Gas Company, LLC	Not less than 1/8	1521/781
			Rebecca Snyder Bromley, a/k/a Alice Rebecca Snyder Bromley	CNX Gas Company, LLC	Not less than 1/8	1522/563
			James Brant Snyder	CNX Gas Company, LLC	Not less than 1/8	1523/111
			Sharon White Bartholomew, a/k/a Sharon R. W. Bartholomew, a/k/a, Sharon Ruth White Bartholomew	CNX Gas Company, LLC	Not less than 1/8	1529/268
			David T. White and Sarah K. White, h/w, as JTROS	CNX Gas Company, LLC	Not less than 1/8	1543/430
			Glenn L. White, individually and as trustee of Glenn L. White Trust	CNX Gas Company, LLC	Not less than 1/8	1516/48
			Alice T. Boone	CNX Gas Company, LLC	Not less than 1/8	1602/805
			Eldon Bryant Tucker, et ux	CNX Gas Company, LLC	Not less than 1/8	1602/828
			Charles Tucker, et ux	CNX Gas Company, LLC	Not less than 1/8	1602/811
			Robert Earl, et ux	CNX Gas Company, LLC	Not less than 1/8	1602/822
			David Tucker	CNX Gas Company, LLC	Not less than 1/8	1602/840
			James Tucker, et ux	CNX Gas Company, LLC	Not less than 1/8	1602/798
			Cheryl Molesky	CNX Gas Company, LLC	Not less than 1/8	1605/334
			Laurence D. Hare	CNX Gas Company, LLC	Not less than 1/8	1605/618
			James F. Hare III, et ux	CNX Gas Company, LLC	Not less than 1/8	1604/615
			Lacy L. Adams, et vir	CNX Gas Company, LLC	Not less than 1/8	1612/566
			Donald Pelger	CNX Gas Company, LLC	Not less than 1/8	1612/550
			Carl L. Anderson, et ux	EQT Production Company	Not less than 1/8	1616/275
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			David Wayne Anderson	CNX Gas Company, LLC	Not less than 1/8	1614/153
			Deborah Horton, Trustee and Beneficiary of the Ronald L. Horton Revocable Living Trust	CNX Gas Company, LLC	Not less than 1/8	1612/572
			Chris Pelger	CNX Gas Company, LLC	Not less than 1/8	1614/639
			Shannon Harker	CNX Gas Company, LLC	Not less than 1/8	1615/704
			Chase Schwersenska	CNX Gas Company, LLC	Not less than 1/8	1614/712
			John Pelger	CNX Gas Company, LLC	Not less than 1/8	1621/329
			Holly Pelger	CNX Gas Company, LLC	Not less than 1/8	1635/236
			Brenda Murphy	EQT Production Company	Not less than 1/8	1614/845
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			Vickie L. Simmons	EQT Production Company	Not less than 1/8	1614/843
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			Sherry C. McCoy	EQT Production Company	Not less than 1/8	1614/847
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			David C. Anderson	EQT Production Company	Not less than 1/8	1615/1
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			Kelly Dilbeck	CNX Gas Company, LLC	Not less than 1/8	131/35

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5 of 5

SHL is located on topo map 680 feet south of Latitude: 39° 42' 30"
 BHL is located on topo map 10,453 feet south of Latitude: 39° 45' 00"

SHL

SHL is located on topo map 1,056 feet west of Longitude: 80° 20' 00"
 BHL is located on topo map 7,106 feet west of Longitude: 80° 20' 00"

SURFACE TRACT OWNERS & TAX PARCEL

- | | |
|-------------------------------------|--------------|
| 1. DINA M WISE ET AL | TM# 1-8-2 |
| 2. BARBARA J. WAGNER | TM# 1-8-3.1 |
| 3. BARBARA J. WAGNER | TM# 1-8-3 |
| 4. DAVID W. & ELIZABETH K. DEATON | TM# 1-8-1.2 |
| 5. GARY L. & ARLENE ANN NEELY | TM# 1-8-1.5 |
| 6. GARY L. & ARLENE ANN NEELY | TM# 1-8-1.1 |
| 7. DELORES J. HARRISON | TM# 1-2-16.2 |
| 8. MT. TABOR CEMETERY | TM# 1-2-22 |
| 9. THOMAS M. BARNHOUSE | TM# 1-2-17 |
| 10. CONSOL MINING COMPANY LLC | TM# 1-3-2 |
| 11. ROY LEE JR. & ERICA E. HALL | TM# 1-2-21 |
| 12. LENONARD EDWARD HALL JR. | TM# 1-2-18 |
| 13. JASON BRIAN & LINDSEY R. HALL | TM# 1-2-18 |
| 14. ROY L. HALL | TM# 1-2-19 |
| 15. FREDRICK JR. & PATRICIA MORGAN | TM# 1-2-17.1 |
| 16. DAVID & NANCY LIMING | TM# 1-2-14 |
| 17. FREDERICK JR. & PATRICIA MORGAN | TM# 1-2-16.1 |

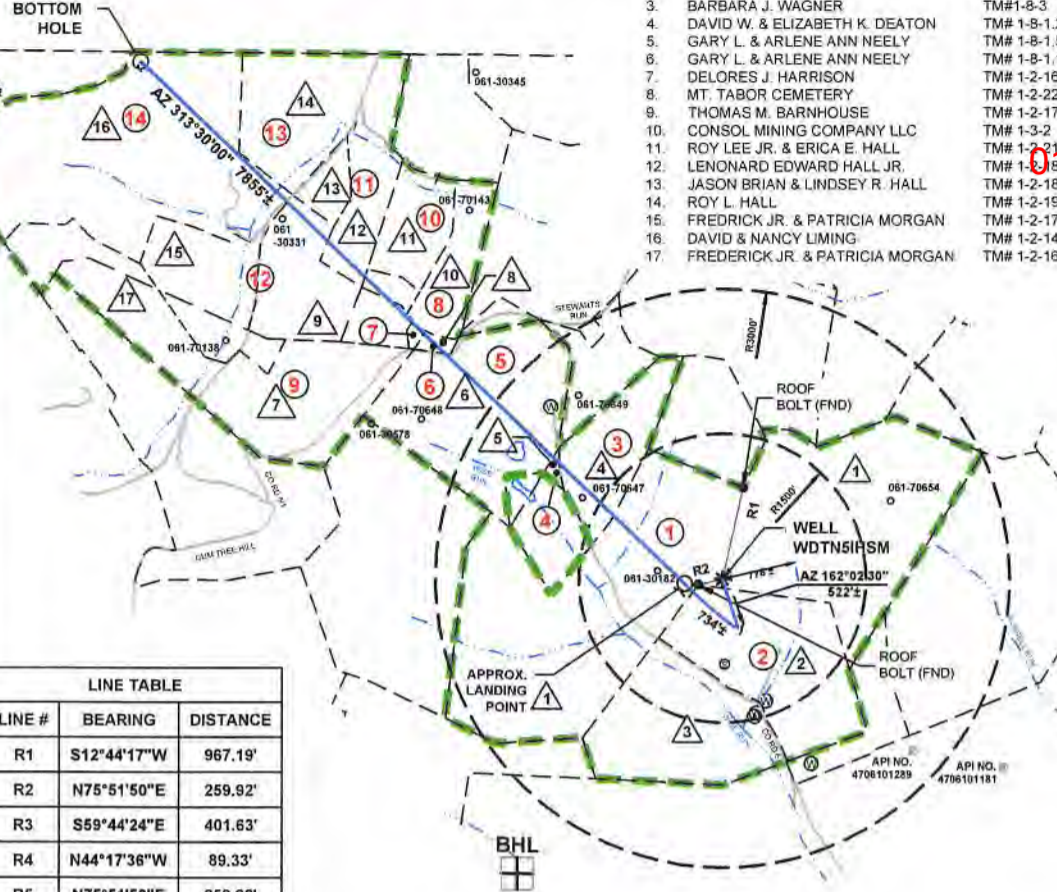
GREENE COUNTY,
PENNSYLVANIA
MONONGALIA COUNTY,
WEST VIRGINIA

SURFACE HOLE LOCATION (SHL)
 UTM 17 - NAD83(M)
 N: 4395388.717
 E: 556827.867
 NAD27, VV NORTH
 N: 440491.084
 E: 1764431.989
 LAT/LON - NAD83
 LAT: 39°42'23.279"
 LON: 80°20'13.512"

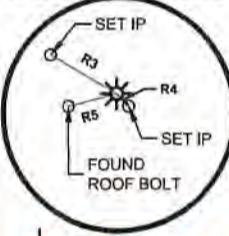
APPROXIMATE LANDING POINT
 UTM 17 - NAD83(M)
 N: 4395371.187
 E: 556708.553
 NAD27, VV NORTH
 N: 440440.098
 E: 1764039.512
 LAT/LON - NAD83
 LAT: 39°42'22.739"
 LON: 80°20'18.528"

BOTTOM HOLE LOCATION (BHL)
 UTM 17 - NAD83(M)
 N: 4396999.489
 E: 554945.219
 NAD27, VV NORTH
 N: 445846.931
 E: 1758341.883
 LAT/LON - NAD83
 LAT: 39°43'15.644"
 LON: 80°21'32.069"

LINE #	BEARING	DISTANCE
R1	S12°44'17"W	967.19'
R2	N75°51'50"E	259.92'
R3	S59°44'24"E	401.63'
R4	N44°17'36"W	89.33'
R5	N75°51'50"E	259.92'



REFERENCE DETAIL



Sheffler & Company, Inc.
ENGINEERING • SURVEYING

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

NOTES:

- There are no water wells or developed springs within 250' of proposed well
- There are no existing buildings within 625' of proposed well.
- Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
- There are no native trout streams within 300' of proposed well.
- Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
- It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. 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.

LEGEND

	TOPO MAP POINT		PROPOSED WELL		WATER SOURCE		SPRING		SURFACE TRACT		LEASED NUMBER BASED ON ATTACHED WW6A1		RECORD GAS WELL		UNKNOWN WELL		ALL ARE POINTS UNLESS OTHERWISE NOTED		LEASE BOUNDARY		PROPOSED HORIZONTAL WELL		SURFACE, OIL & GAS LINES		SURFACE TRACT LINES ONLY		GAS LEASE LINES ONLY		WELL REFERENCE		STREAM/WATERWAY		ROAD
--	----------------	--	---------------	--	--------------	--	--------	--	---------------	--	---------------------------------------	--	-----------------	--	--------------	--	---------------------------------------	--	----------------	--	--------------------------	--	--------------------------	--	--------------------------	--	----------------------	--	----------------	--	-----------------	--	------

FILE #: WDTN5IHSM
 DRAWING #: 3601 - WDTN5I.DWG
 SCALE: 1"=2000'
 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.: 21452 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

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

DATE: September 21, 2018, Rev. September 24, 2018

OPERATOR'S WELL #: WDTN5IHSM

API WELL # 4706101289 061 01793
 STATE COUNTY PERMIT

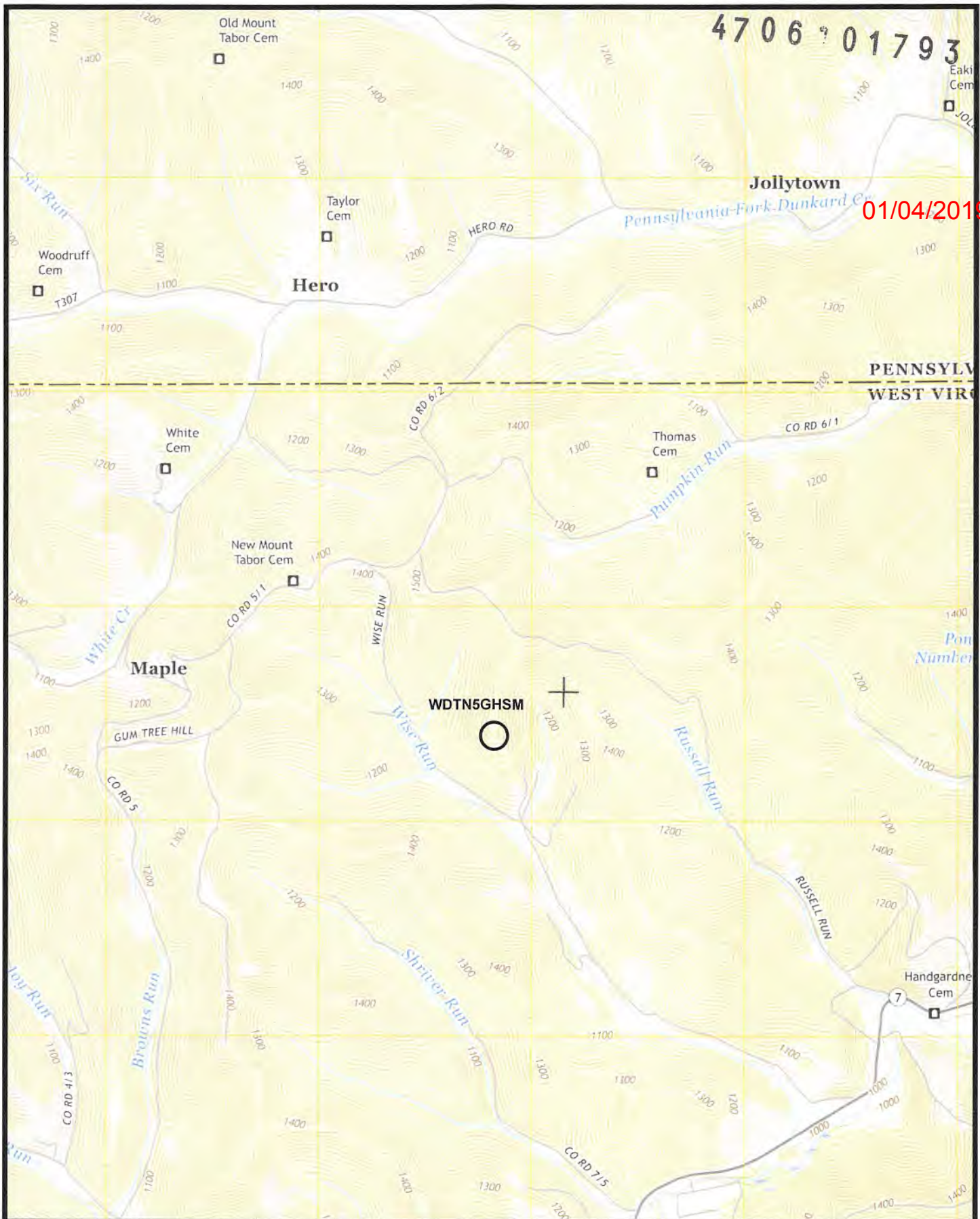
OCT 03 2018

WV Department of Environmental Protection

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: 7,715' ± TMD: 16,018' ±
 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





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DATE: September 21, 2018, Rev. September 24, 2018

OPERATOR'S WELL #: WDTN5GHSM
 API WELL # 47 061 01793
 STATE PA COUNTY 061 PERMIT 01793
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 Office of Oil and Gas
 OCT 03 2018

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 Gas Liquid Injection Storage Shallow

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4706401793

Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
1	1-8-2	189010000	Richard L. McCauley	CNX Gas Company LLC
			Judy A. Eckman	CNX Gas Company LLC
			Thomas E. McCauley	CNX Gas Company LLC
			Regina Wise Myers, aka Violet Regina Myers	CNX Gas Company LLC
			Evaluee A. Everly Shaheen	CNX Gas Company LLC
			Zelda Ruth Brummage	CNX Gas Company LLC
			Dexter Murle Stewart	CNX Gas Company LLC
			Walter C. Ord	CNX Gas Company LLC
			James Freeman Stewart	CNX Gas Company LLC
			Clifford J. Wise	CNX Gas Company LLC
			Victor E. Wise, a single man	CNX Gas Company LLC
			Jesse D. Jones, a married man	CNX Gas Company LLC
			Phyllis J. Petrosky, a widowed woman	CNX Gas Company LLC
			Annette E. Stewart, single	CNX Gas Company LLC
			Harold M. Jones, Jr., a single man	CNX Gas Company LLC
			Robert Stewart	CNX Gas Company LLC
			Richard W. Wise	CNX Gas Company LLC
			Walter R. Currence	CNX Gas Company LLC
			Donald D. Wise, aka Donald G. Wise	CNX Gas Company LLC
			Maureen S. Currence	CNX Gas Company LLC
			Opal Jane Wise, Life Estate Holder and John Matthew Wise and Dina M. Wise, Remaindermen	CNX Gas Company LLC
			Michelle L. Currence	CNX Gas Company LLC
			Justin P. Stewart, single	CNX Gas Company LLC
			Debra Goff	CNX Gas Company LLC
			Eleanor J. Wise, single	CNX Gas Company LLC
			Donald E. Nunley and Deborah L. Nunley	CNX Gas Company LLC
			Fred C. Wise and Alice F. Wise	CNX Gas Company LLC
			Patricia J. Mumaw and Richard L. Mumaw	CNX Gas Company LLC
			Richard A. Nunley and Diana K. Nunley	CNX Gas Company LLC
			Mary Nunley Stepelton and Donald Stepelton	CNX Gas Company LLC
			Linda Stapp	CNX Gas Company LLC
			Melissa A. Bookout	CNX Gas Company LLC
			Jane Irons, widow	CNX Gas Company LLC
Eileen Ann Lyle	CNX Gas Company LLC			
Robert Eugene Michael, Sr.	CNX Gas Company LLC			
Frank Dennis Michael, Jr.	CNX Gas Company LLC			
Evelyn June Michael	CNX Gas Company LLC			
Tonya Chersin	CNX Gas Company LLC			
Boyd Hawkins	CNX Gas Company LLC			
Becky L. Hawkins f/k/a Becky Bortnick	CNX Gas Company LLC			
2	1-8-3 1-8-3.1	204769000	Barbara J. Wagner, a widow Donald L. White, et al Arnold D. Anderson, individually, and as Trustee of the Arnold D. Anderson and Barbara J. Anderson Living Trust UTD May 14th, 2008	CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC
3	1-8-1.2	206005000	CBC Holdings, LLC David W. Deaton and Elizabeth K. Deaton, h/w Earl W. Kennedy	CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC
4	1-8-1.5	204774000	CBC Holdings, LLC Gary L. Neely and Arlene Ann Neely Earl W. Kennedy	CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC
5	1-8-1.1	188587000	CBC Holdings, LLC Gary L. Neely and Arlene Ann Neely Earl W. Kennedy	CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC
6	p/o 1-2-22	188584000	Mt. Tabor Methodist Episcopal Church	CNX Gas Company LLC
7	p/o 1-2-22	188584000	Mt. Tabor Methodist Episcopal Church	CNX Gas Company LLC
8	p/o 1-3-2	204777000	David C. White, et ux Bettyann Reed Nancy Emerick	CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC

01/04/2019

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

DATE: September 21, 2018, Rev. September 24, 2018

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STATE COUNTY PERMIT

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City CANONSBURG State PA Zip Code 15317 City JANE LEW State WV Zip Code 26378

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Office of Oil and Gas
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WV Department of Environmental Protection

Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
8 (CONT.)	p/o 1-3-2	204777000	Edith B. White	CNX Gas Company LLC
			Mary Ann Borkowski, et vir	CNX Gas Company LLC
			Jan W. Ellison, et vir	CNX Gas Company LLC
			Jane E. McIntyre, et vir	CNX Gas Company LLC
			Richard H. Benson II	CNX Gas Company LLC
			Carol Sue Davis	CNX Gas Company LLC
			Karen Imogene Meyers	CNX Gas Company LLC
			Edwin Ray White II	CNX Gas Company LLC
			Anita Susan Talbott	CNX Gas Company LLC
			Alvy Scott White	CNX Gas Company LLC
			Robert L. Tate Jr.	CNX Gas Company LLC
			Frederick C. Tate	CNX Gas Company LLC
			Robert S. Elliot	CNX Gas Company LLC
			Lucy Mae Stickley	CNX Gas Company LLC
			Timothy J. Tate	CNX Gas Company LLC
			Alex Tate	CNX Gas Company LLC
			Jennifer Marie Carrington	CNX Gas Company LLC
			Marian Rebecca Stone Garrett	CNX Gas Company LLC
			Patricia Kathleen White Hoekstra	CNX Gas Company LLC
			Donald Edward Stone	CNX Gas Company LLC
			Doris Jean White	CNX Gas Company LLC
			David Ray Stone	CNX Gas Company LLC
			Sandra Pixler	CNX Gas Company LLC
			Victor White	CNX Gas Company LLC
			Melinda Reid Hatton	CNX Gas Company LLC
			Dennis Frederick Hatton Jr.	CNX Gas Company LLC
			Amanda Hatton	CNX Gas Company LLC
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
9	1-2-16 1-2-16.2 p/o 1-2-16.1 p/o 1-2-17 p/o 1-2-17.1	188578000	XTO Energy, Inc.	CNX Gas Company, LLC
			Three Rivers Royalty II, LLC	CNX Gas Company, LLC
			Elizabeth A. Martineau, a/k/a, Elizabeth Ada Snyder, a/k/a, Elizabeth Snyder Martineau	CNX Gas Company, LLC
			Rebecca Snyder Bromley, a/k/a Alice Rebecca Snyder Bromley	CNX Gas Company, LLC
			James Brant Snyder	CNX Gas Company, LLC
			Sharon White Bartholomew, a/k/a Sharon R. W. Bartholomew, a/k/a, Sharon Ruth White Bartholomew	CNX Gas Company, LLC
			David T. White and Sarah K. White, h/w, as JTROS	CNX Gas Company, LLC
			Glenn L. White, individually and as trustee of Glenn L. White Trust	CNX Gas Company, LLC
			Alice T. Boone	CNX Gas Company, LLC
			Eldon Bryant Tucker, et ux	CNX Gas Company, LLC
			Charles Tucker, et ux	CNX Gas Company, LLC
			Robert Earl, et ux	CNX Gas Company, LLC
			David Tucker	CNX Gas Company, LLC
			James Tucker, et ux	CNX Gas Company, LLC
			Cheryl Molesky	CNX Gas Company, LLC
			Laurence D. Hare	CNX Gas Company, LLC
			James F. Hare III, et ux	CNX Gas Company, LLC
			Lacy L. Adams, et vir	CNX Gas Company, LLC
			Donald Pelger	CNX Gas Company, LLC
			Carl L. Anderson, et ux	CNX Gas Company, LLC
			David Wayne Anderson	CNX Gas Company, LLC
			Deborah Horton, Trustee and Beneficiary of the Ronald L. Horton Revocable Living Trust	CNX Gas Company, LLC
			Chris Pelger	CNX Gas Company, LLC
			Shannon Harker	CNX Gas Company, LLC
			Chase Schwersenska	CNX Gas Company, LLC
			John Pelger	CNX Gas Company, LLC
			Holly Pelger	CNX Gas Company, LLC
			Brenda Murphy	EQT Production Company
			Vickie L. Simmons	EQT Production Company
			Sherry C. McCoy	EQT Production Company
			David C. Anderson	EQT Production Company
			Kelly Dilbeck	CNX Gas Company, LLC
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
10	1-2-21	204778000	Cheryl Lynn Bennett Frankenfield	CNX Gas Company, LLC
			Connie Lae Norwood	CNX Gas Company, LLC
			Beth Ellen Younciak, a/k/a Beth Ellen Bennett	CNX Gas Company, LLC
			Ewing Albert Bennett	CNX Gas Company, LLC
			Wilma Bennet Patterson	CNX Gas Company, LLC
			Emily B. Vallin	CNX Gas Company, LLC
			Jennifer Sue Carpenter	CNX Gas Company, LLC
			Shirley Dotterer Wadsworth	CNX Gas Company, LLC
			Kathryn Dotterer Vahl	CNX Gas Company, LLC
			Thelma R. Dotterer Chowning	CNX Gas Company, LLC

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

DATE: September 21, 2018, Rev. September 24, 2018

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

OPERATOR'S WELL #: WDTN5IHSU
API WELL # 47 061 01793
STATE COUNTY PERMIT

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

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
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TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 7,715' ± TMD: 16,018' ±
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

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Office of Oil and Gas
OCT 03 2018
WV Department of Environmental Protection

4706-01793

Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
10 (CONT.)	1-2-21	204778000	Marc D. Prochazka	CNX Gas Company, LLC
			Richard Leslie Puchstein	CNX Gas Company, LLC
			Carl Eric Puchstein	CNX Gas Company, LLC
			Violet Jean Puchstein, a/k/a Jean Steen Puchstein, individually and as Trustee of the Jean Steen Puchstein Trust U/A dated October 8, 2014	CNX Gas Company, LLC
			John William Bennett	CNX Gas Company, LLC
			Jeffery Carpenter	CNX Gas Company, LLC
			Kent Prochazka	CNX Gas Company, LLC
11	1-2-18 1-2-18.1	188580000 204779000	Merrion Oil and Gas Corporation	EQT Production Company
			Hu's Land & Minerals, LLC	EQT Production Company
			Samuel William Stewart and Barbara C. Stewart	CNX Gas Company LLC
			John Samuel Stewart	CNX Gas Company LLC
12	1-2-17.2 p/o 1-2-17 p/o 1-2-17.1 p/o 1-2-18.1	239935000	XTO Energy, Inc.	CNX Gas Company, LLC
			Three Rivers Royalty II, LLC	CNX Gas Company, LLC
			Elizabeth A. Martineau, a/k/a, Elizabeth Ada Snyder, a/k/a/, Elizabeth Snyder Martineau	CNX Gas Company, LLC
			Rebecca Snyder Bromley, a/k/a Alice Rebecca Snyder Bromley	CNX Gas Company, LLC
			James Brant Snyder	CNX Gas Company, LLC
			Sharon White Bartholomew, a/k/a Sharon R. W. Bartholomew, a/k/a, Sharon Ruth White Bartholomew	CNX Gas Company, LLC
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			Eldon Bryant Tucker, et ux	CNX Gas Company, LLC
			Charles Tucker, et ux	CNX Gas Company, LLC
			Robert Earl, et ux	CNX Gas Company, LLC
			David Tucker	CNX Gas Company, LLC
			James Tucker, et ux	CNX Gas Company, LLC
			Cheryl Molesky	CNX Gas Company, LLC
			Laurence D. Hare	CNX Gas Company, LLC
			James F. Hare III, et ux	CNX Gas Company, LLC
			Lacy L. Adams, et vir	CNX Gas Company, LLC
			Donald Pelger	CNX Gas Company, LLC
			Carl L. Anderson, et ux	CNX Gas Company, LLC
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			Deborah Horton, Trustee and Beneficiary of the Ronald L. Horton Revocable Living Trust	CNX Gas Company, LLC
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			David C. Anderson	EQT Production Company
			Kelly Dilbeck	CNX Gas Company, LLC
			13	1-2-19
			Hu's Land & Minerals, LLC	EQT Production Company
14	1-2-14	188577000	XTO Energy, Inc.	CNX Gas Company, LLC
			David Liming and Nancy Liming	CNX Gas Company, LLC
			Three Rivers Royalty II, LLC	CNX Gas Company, LLC
			Elizabeth A. Martineau, a/k/a, Elizabeth Ada Snyder, a/k/a/, Elizabeth Snyder Martineau	CNX Gas Company, LLC
			Rebecca Snyder Bromley, a/k/a Alice Rebecca Snyder Bromley	CNX Gas Company, LLC
			James Brant Snyder	CNX Gas Company, LLC
			Sharon White Bartholomew, a/k/a Sharon R. W. Bartholomew, a/k/a, Sharon Ruth White Bartholomew	CNX Gas Company, LLC
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			Robert Earl, et ux	CNX Gas Company, LLC
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			Cheryl Molesky	CNX Gas Company, LLC
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			Lacy L. Adams, et vir	CNX Gas Company, LLC
			Donald Pelger	CNX Gas Company, LLC
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			David Wayne Anderson	CNX Gas Company, LLC
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Site Safety Plan for Well WDTN5IHSM

CNX Gas Company, LLC.



Google Earth ED
Office of Oil and Gas

OCT 03 2018

WV Department of
Environmental Protection

Approval Sheet

The Office of Oil and Gas and the Oil and Gas Conservation Commission have set forth minimum requirements for necessary equipment and procedures that must be addressed in a Safety Plan ("Plan") and shall be submitted and approved prior to drilling a deep well. A deep well shall be any well which meets the definition as provided for in Chapter 22C, Article 9 of the West Virginia Code.

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

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

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

West Virginia Division of Environmental Protection, Office of Oil and Gas

And

West Virginia Oil and Gas Conservation Commission.

Approved this day 27 of month September, 2018 by



Date: 9/27/2018

Date: _____

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Office of Oil and Gas
OCT 03 2018
WV Department of
Environmental Protection

Plan Modification*

Revision No.	Description of Revision	CNX Preparer	CNX Reviewer/Approver	Agency Approval	Date

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

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Office of Oil and Gas
OCT 03 2018
WV Department of
Environmental Protection

Safety Plan for Well #WDTN5IHSM CNX Gas Company, LLC.

Table of Contents

1. Contacts, Scheduling, and Meetings

- 1.1 Emergency points of contact for CNX Gas Company, LLC covering all phases of activity (24hr Contact Info)
- 1.2 List of contact information for Material Suppliers and Contractors
- 1.3 WV DEP Office of Oil and Gas Inspector and County LEPC Contact
- 1.4 Local Emergency Response Units and ER Personnel
- 1.5 Schools & Public Facilities
- 1.6 Pre-Spud Meeting
- 1.7 Safety Meetings

2. Maps and Diagrams

- 2.1 Site Design with flare lines, nearby dwellings (if any), and prevailing wind direction.
- 2.2 Topographic Map of well location with 1 mile radius, NAD 83 coordinates of site entrance and where access road intersects the public route.
- 2.3 Evacuation Plan

3. Well Work

- 3.1 Drilling, Completion, and Production Activities
- 3.2 Casing and Cementing Program
- 3.3 General Schematic for Drilling, Completion, and Production

4. Chemical Inventory and MSDS

- 4.1 MSDS
- 4.2 Mud Inventory and Mixing Units

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5. BOP and Well Control

- 5.1 BOP Equipment
- 5.2 Procedure and Schedule for Testing BOP Equipment
- 5.3 Drilling Records/Significant Events and Notification
- 5.4 Wellhead Assembly
- 5.5 Well Kill

6. Hydrogen Sulfide (H₂S)

- 6.1 Detection, Monitoring, Warning Equipment, and Training
- 6.2 Notifying the OOG and Public/ Protection Zone and Access Control
- 6.3 Personal Protective Equipment (PPE)

7. Flaring

- 7.1 Size, Construction, and Length of Flare Line
- 7.2 Flare Lighting
- 7.3 Flare Operation and Minimum Distance
- 7.4 Flare Duration

8. Collision Avoidance

- 8.1 Scope of Work and Survey Techniques
- 8.2 Surface Design Precautions
- 8.3 Vertical and Lateral Drilling Precautions
- 8.4 Additional Supportive Resources

9. Notification and Protection Zones

- 9.1 Notification
- 9.2 Protection Zones

Appendix

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1.0 Contacts, Scheduling, and Meetings

1.1 Emergency points of contact for CNX Gas Company, LLC covering all phases of activity (24hr Contact Info)

STEP 2. NOTIFY: PRIORITIZED BUSINESS UNIT MANAGEMENT – Immediate Notification					
NOTIFICATION	Title	Contact	Office	Cell	Home
Priority 1	Director Production Operations	Matt Imrich	724-485-3403	724-809-0024	N/A
Priority 2	District Operations Manager	Pete Nickel	(724) 627-1210	(724) 599-9465	N/A
Priority 3	Drilling Superintendent	John Hardcastle	724-627-1340	724-579-6583	N/A
Priority 3	Completions Superintendent	Sam McLaughlin	724-627-1236	724-833-1571	N/A
Priority 4	Sr. Production Foreman	Scott Walker	724-464-2915	724-549-8963	N/A
Priority 5	Safety Specialist	Kyle Borden	(570) 244-8055	(570) 244-8055	N/A

1.2 List of contact information for Material Suppliers and Contractors

Contract Services - Notification as Required				
<i>SERVICES</i>	<i>COMPANY</i>	<i>OFFICE</i>	<i>CELL/HOME</i>	<i>Contact</i>
Well Control	Wild Well Control	(281) 784-4700	(432) 550-6202	
Well Control	Boots Coots	1-800-BLOWOUT	(281) 931-8884	
Well Control	APS 24 Hr Marcellus	724-354-2607	724-422-8966	Will Warfel
			724-388-3286	Mark Backus
Well Control	Cudd Pressure Control	1-832-295-5555	918-344-6993	Clinton Swango
Environmental	Weavertown	(800) 746-4850	412-779-4097	Daryl Heiser
Environmental	McCutcheon Enterprises	724-568-3623	(304) 415-8062	(800) 925-8192
Labor/Equipment	Penn Mechanical	724-397-9066	724-840-4927	Chad Getty
Labor/Equipment	West Penn Energy Services	724-354-4118	412-559-1081	Andy Iezzi
Labor/Equipment	PA Production	724-463-0729	724-840-6113	Khristy Nichol
Labor/Equipment	G&R Gas Service	724-549-6246		Todd Peric
Labor/Equipment	Force Inc.	724-465-9399	412-289-0069	Brian Force
Labor/Equipment	APS 24 Hr Marcellus	724-354-2607	724-422-8966	Will Warfel
			724-388-3286	Mark Backus
Water Hauling	Nuverra Environmental	814-445-3067	814-599-2107	Ben Green
Water Hauling	Force Inc.	724-465-9399	(412) 289-1888	Office of Oil and Gas
Water Hauling	Stutzman Vacuum Service Inc.	814-445-8440	814-483-6487	Andy Shaffer
Water Hauling	West Penn	724-354-4118	412-559-1081	Andy Iezzi

Water Hauling	WTC Gas Field Services	724-349-4045	724-422-4262- Mobile	Neal Watkins (Slick)
			724-840-8766	Rusty Davis
Traffic Control	Penn Mechanical	724-840-4927	724-840-4927	Chad Getty
Traffic Control	Force Inc.	724-465-9399	412-289-0069	Brian Force
Traffic Control	West Penn	724-354-4118	412-559-1081/ 724-816-0585	Andy Iezzi/Dave Champion
Security	G4S	412-269-0750	724-422-4241	Chris Gongloff
One Call	One Call Center	West Virginia	800-245-4848 or 811	

1.3 WV DEP Office of Oil and Gas Inspector

WV DEP Office of Oil and Gas Inspector

Gayne J Knitowski
P.O. Box 108
Gormanian WV 26720
Gayne.J.Knitowski@wv.gov
304-546-8171

Monongalia Co. Homeland Security Emergency Management Agency / MECCA 911

Jim Smith, Director
Phone: (304) 599-6332
jsmith@mecca911.org

1.4 Local Emergency Response Units and ER Personnel

Local first responders will be familiarized with the potential incidents that are related to the oil and gas development so that those agencies have the capability to provide the support necessary for the implementation of this SSP. This may include (within 7 days from land disturbance or well work activities): providing first responder agencies with a copy of this SSP and arranging tours of sites in the area.

Requesting public emergency response assistance for this location would be accomplished via telephone to Marshall County Dispatch which can be reached by dialing 911. From there, they will dispatch the appropriate and available emergency response agencies depending on the nature and extent of the emergency. This location is within the Dallas Volunteer Fire Department's Area.

Monongalia County Dispatch	911 emergency
West Virginia State Police	304-843-4100
Monongalia County Sheriff	304-291-7291
Wadestown Volunteer Fire Dept.	911 / 304-662-6331
Ruby Memorial Hospital	304-598-4000

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1.5 Schools and Public Facilities

Mount Tabor Church & Cemetery phone unknown

Thomas Cemetery phone unknown

CNX utilized the white pages, Persopo, and BeenVerified in attempt to locate these facility's contacts.

1.6 Pre-spud Safety Meeting

A Pre-spud Safety meeting will be held prior to beginning drilling operations and include personnel to be employed and involved in the drilling operations. The pre-spud safety meeting should also include the district oil and gas inspector or other designated Office of Oil and Gas representatives. All personnel in attendance at the pre-spud meeting will be listed in the form below.

Name	Organization	Job Title
1. _____		
2. _____		
3. _____		
4. _____		
5. _____		
6. _____		
7. _____		
8. _____		
9. _____		
10. _____		
11. _____		
12. _____		
13. _____		
14. _____		

1.7 Safety Meetings

Safety meetings will be conducted during drilling, completion, and workover phases as follows:

- Pre-Spud,
- Pre-Tour,
- Post-Accident/Near Miss, and
- As Needed.

A record of each meeting will be made and maintained on site for the duration of the Drilling period. Typically, the drilling company will conduct these safety meetings with CNX personnel participating as needed. These records may be maintained separate from this plan.

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2.0 Maps and Diagrams

- 2.1 Site Design (Found in Appendix)
- 2.2 Topographic Map of well location (Found in Appendix)
- 2.3 Evacuation Plan

The Drilling Supervisor will establish one muster point at which all persons on site will assemble for personnel safety and verification of headcount.

In the event of an emergency, the Drilling Supervisor will notify any local residents in the surrounding area who have the potential to be affected. Residents will be notified by phone, or if they're not reachable by phone, they will be notified in person at their place of residence.

Included in the Appendix are site specific maps and drawings that may assist in the emergency response and evacuation process.

The Drilling Supervisor and/or the Toolpusher will secure the Personnel and Visitor log before evacuating the site in order to perform a headcount at the muster point.

3.0 Well Work

CNX Gas Company, LLC strives to meet all regulatory requirements and follow industry best practices in all of its operations. This Site safety Plan (SSP) has been developed to meet the requirements set forth by the WV Department of Environmental Protection, Office of Oil and Gas Well Site Safety Plan Standards for sites with three (3) acres or more of surface disturbance involved in drilling and production of oil and gas in the State of West Virginia.

In the case of a horizontal well, the SSP will be submitted with each well application. The approved SSP will be maintained and available on location at all times. The SSP will also be provided to the local emergency planning committee (LEPC) for emergency planning district in which the well work will occur or the county office of emergency services at least seven (7) days prior to commencement of well work or site preparation work that involves any disturbance of land. In all cases, the SSP once approved, may only be modified upon the approval of the Office of Oil and Gas.

3.1 Drilling, Completion, and Production Activities

Drilling

A pre-spud notification of at least 24 hours will be given to the local area DEP inspector. A Pre-spud safety meeting will be conducted with all company and contract personnel prior to "rig up" or any associated activity. Red zones (protection zones) will be placed and monitored around all moving equipment. Once "rig up" operations have commenced, there will be drilling engineers on site for 24 hour operations. Their primary job responsibilities are hazard and risk analysis, as well as maintaining a safe and environmentally compliant site. They will also be monitoring and recording daily drilling activities to ensure all parameters remain in compliance.

Completion

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Once drilling operations are complete, a pre-completions safety meeting will be conducted with all company and contract personnel prior to beginning activities. Red zones (protection zones) will be placed and monitored around all moving equipment. Once completions activities has commenced, there will be completions engineers on site for 24 hour operations. Their primary job responsibilities are hazard and risk analysis, as well as maintaining a safe and environmentally compliant site. They will also be monitoring and recording daily completions activities to ensure all parameters remain in compliance.

Production

Once the wells have been turned in line, there will be well operators on site for 24 hours, 7 days a week. Their primary job responsibilities are hazard and risk analysis, as well as maintaining a safe and environmentally compliant site. Red zones (protection zones) will be placed and monitored around all moving equipment. They also will be monitoring casing and tubing pressures, gas volumes, and water production. It will also be vital that the production tanks and pits be monitored as well to remain in compliance. Once 24 hour monitoring is no longer needed, there will be a well operator on site for 12 hours a day, 7 days a week. Their duties will include hazard and risk analysis of any work being done, maintaining a safe and environmentally compliant site, and general housekeeping duties to ensure a clean and efficient work space. The casing and tubing pressure, gas volumes, as well as water production for each well will be monitored on a daily basis. Operators will also monitor the pits and water tanks on location to make sure that they are in compliance.

3.2 Casing and Cementing Program (Found in Appendix)

3.3 General Schematics for Drilling, Completions, and Production (Found in Appendix)

4.0 Chemical Inventory and MSDS

4.1 MSDS

Material Safety Data Sheets (MSDS) for all materials and chemicals will be readily available and maintained in the operations trailer on the well site. It is the responsibility of onsite personnel to ensure that the MSDS for each material that is delivered to site is on file at the location. Should a material for which there is not an MSDS on file be brought onto the site a copy of the MSDS that accompanies the shipment will be filed with the rest of the sites MSDS. A copy of these MSDS will be provided to the WV DEP Office of Oil and Gas.

Site Personnel Responsible for maintaining MSDS:

Construction – Michael Vitello – (740) 632-2483

Drilling – Ryan Coffman – (724) 984-2193

Completions – Sam McLaughlin – (724) 833-1571

Production – Chris Turner – (304) 641-3647

MSDS may also be sourced through the 3E Company at 1 (800) 360-3220

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4.2 Mud Inventory and Mixing Units

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A contracted drilling mud service will maintain all required components for the mixing of mud for well kill operations in compliance with API RP 53. Materials on site for mixing mud will include, but not be limited to, 200bbl Base Oil, 60tons of Barite, and 250bbls Fresh Water. The contractor will keep the appropriate inventory of those components, and a copy of the inventory will be kept in an onsite office.

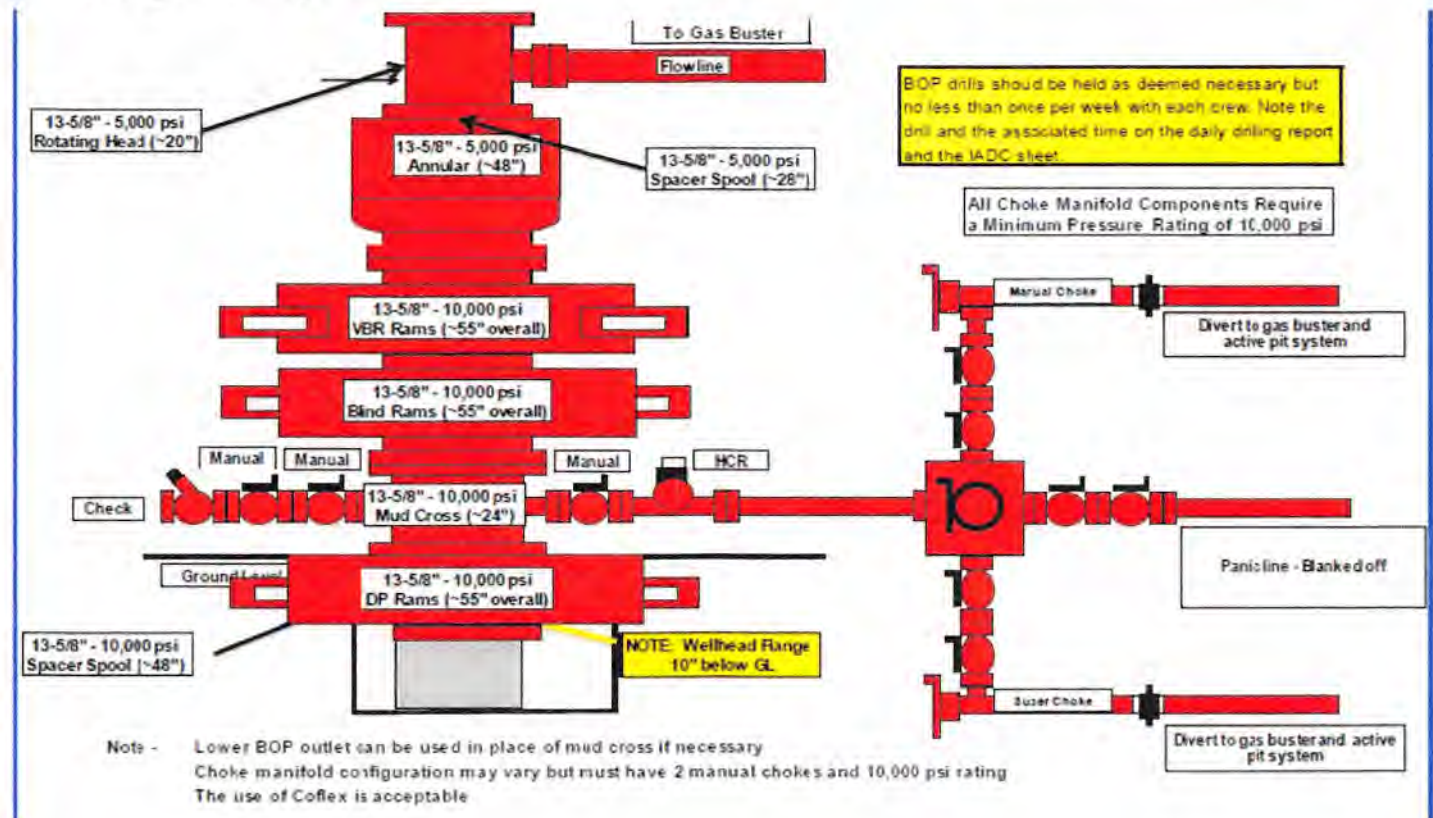
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Mixed Mud amount will be 1200bbl mixed at 12.0ppg. This contractor will also maintain the appropriate number and type of mixing units for the mixing of drilling mud in sufficient quantities for well kill operations as the site. Mixing units will be 2 mud tanks with jet mixing lines.

5.0 BOP and Well Control

5.1 BOP Equipment

The following is a list of all BOP equipment with types, sizes and ratings to be utilized and available during the drilling of the deep well.



Remote Controls

Remote controls shall be readily accessible to the driller. Remote controls for all systems shall be capable of closing the preventer. Remote controls systems shall be capable of both opening and closing the preventer.

5.2 Procedure and Schedule for Testing BOP Equipment

Well Control Equipment Testing will be conducted in accordance with the American Petroleum Institute's (API) Recommended Practice 53 (RP 53), Recommended Practice for Blowout Prevention Equipment Systems for Drilling Wells. This is the industry standard for the installation and testing for BOP systems on land and marine drilling rigs.

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All testing described below will be performed using clear water or an appropriate clear liquid for subfreezing temperatures with a viscosity similar to water.

The BOP equipment will be function tested upon initial installation, weekly, and after each bit trip. It will be pressure tested upon initial installation and every twenty-one (21) days thereafter. All pressure tests will be performed for thirty (30) minutes. Annular preventers will be tested to seventy percent (70%) of the rated capacity and ram preventers will be tested to eighty percent (80%) of the rated capacity. Valves shall be tested from working pressure side during BOPE tests with all downstream valves open. All of the above described tests and/or drills shall be recorded in the drilling log.

The BOP will be installed after running the surface casing. BOP equipment shall be installed on the innermost string of casing after the surface casing.

The following personnel will have approved well control training and current certification recognized by the International Association of Drilling Contractors (IADC):

Rig Engineer (Operator)

Rig Supervisors (Operator)

Assistant Rig Managers (Operator)

Completions Manager (operator)

Drilling Engineers/Well Site Supervisors (Operator)

Tool Pusher (Contractor)

Driller (Contractor)

5.3 Drilling Records/Significant Events and Notification

Detailed records of significant drilling events such as lost circulation, fluid entry, kicks, abnormal pressures, etc. are maintained through a daily log in the onsite office. The daily log allows the drilling superintendent to enter daily reports containing the specified information. The records are then retained electronically in CNX's office in Canonsburg, PA.

The Emergency Response Plan for this operating area requires the district oil and gas inspector or the designated Office of Oil and Gas representative be notified as soon as possible of any unusual drilling events such as large kicks that occur during drilling operations. Any encounter of hydrogen sulfide gas requires immediate notification of the DEP Office of Oil and Gas.

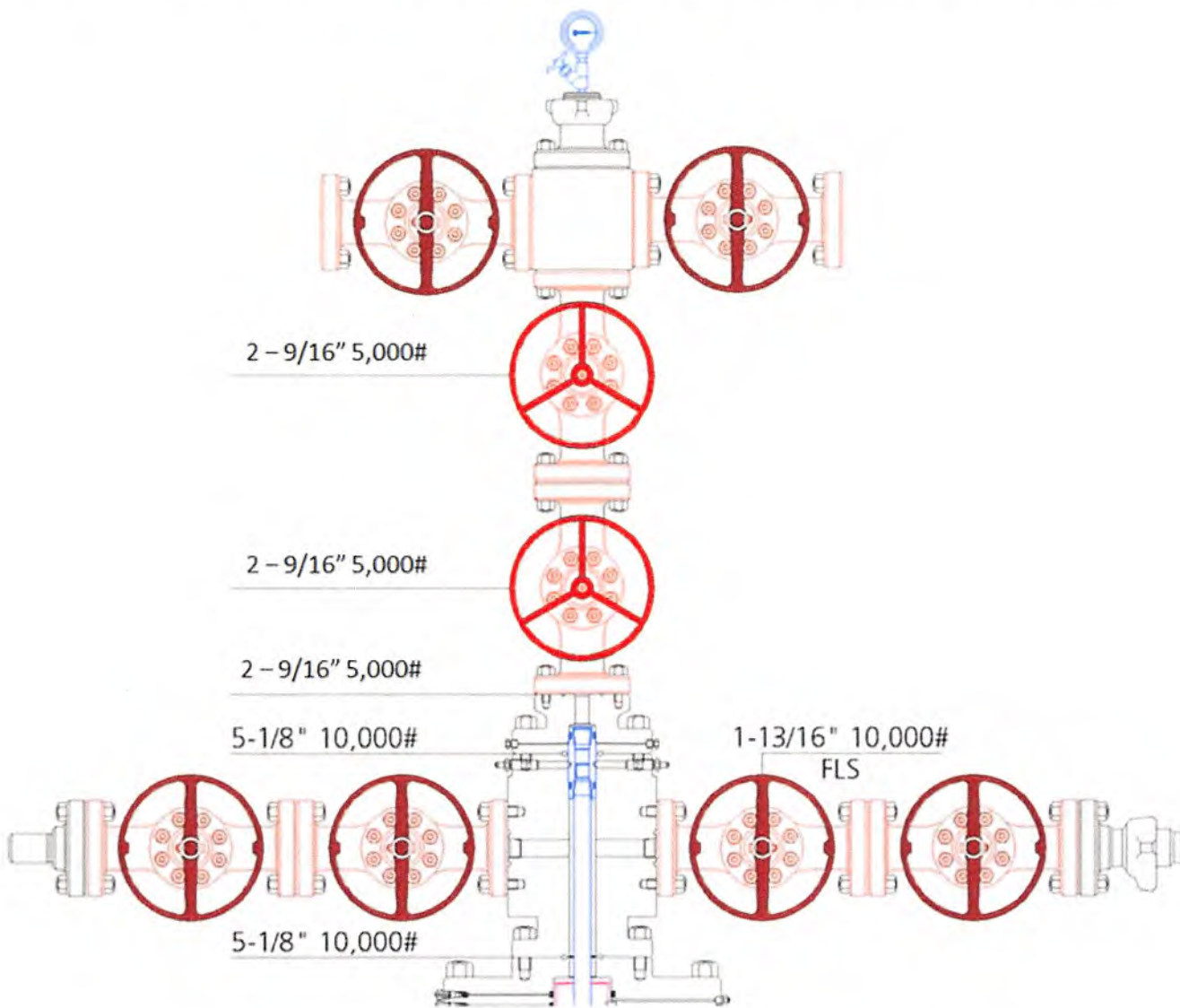
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5.4 Wellhead Assembly

Below is a diagram of the wellhead to be installed upon completion of stimulation operations.



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5.5 Well Kill

Mud Inventory

A contracted drilling mud service will maintain all required components for the mixing of mud for well kill operations in compliance with API RP 53. Materials on site for mixing mud will include, but not be limited to, 200bbl Base Oil, 60tons of Barite, and 250bbls Fresh Water. The contractor will keep the appropriate inventory of those components, and a copy of the inventory will be kept in an onsite office. Mixed Mud amount will be 1200bbl mixed at 12.0ppg.

Mixing Units

The contracted drilling mud service that maintains the components names in section 6.1, Mud Inventory, will maintain the appropriate number and type of mixing units for the mixing of drilling mud in sufficient quantities for well kill operations at the site. Mixing units will be 2 fluid tanks with jet mixing lines.

Kill Procedures

In the event that the BOP must be activated, a hard shut-in method will be utilized. Should this not be sufficient, an IADC preferred method will be utilized. These include the following:

Wait and Weight Method

Driller's Method

Volumetric Control Method

Lubricate and Bleed Method

KILL SHEET

DAILY RECORDED OPERATIONAL FIELD DATA									
Location:		Rig #:		Completed By:		Surface pg 1 of 5			
CASING		Casing		BOP		Well Logs			
OD (in)		BOP							
ID (in)		Test Raising	(psi)						
Internal Yield @ 100% (psi)		Draw/Redraw Graphic							
Safety Factor (psi)									
Internal yield (psi)									
Csg shoe MD (ft)									
LINERS		Liner1		Liner2		Liner3			
OD (in)									
ID (in)									
Internal Yield @ 100% (psi)									
Safety Factor (psi)									
Internal yield (psi)									
TOL MD (ft)									
Liner shoe MD (ft)									
Drill String Length and Hole Size		Hole TD MD (ft)		Bit Size (in)					
Drill String MD (ft)		Size (in)		Size (in)					
Note - Build Component String Bottom-Up									
Drill String Component									
Component	1	2	3						
OD (in)									
ID (in)									
Cap (bbls/hr)									
Length MD (ft)									
Drill String Component									
Component	4	5	6						
OD (in)									
ID (in)									
Cap (bbls/hr)									
Length MD (ft)									
Drill String Component									
Component	7	8	9						
OD (in)									
ID (in)									
Cap (bbls/hr)									
Length MD (ft)									
SURFACE VOLUMES		Surface Line Volume (bbls)		Active Pit Volume (bbls)					
FORMATION TESTS		Leak-Off Test Pressure w/ Test Mud Wt. (MAASP) (psi)		Leak-Off Test Mud Wt. (ppg)					
		Test Depth Csg or Liner shoe TVD (ft)		Maximum Mud Wt. (ppg)					
PUMPS		Pump #1		Pump #2 or Auxiliary					
Output (bbls/hr)		Output (bbls/hr)		Output (bbls/hr)					
Maximum Pump Pressure (psi)		Maximum Pump Pressure (psi)		Maximum Pump Pressure (psi)					
KILL RATE SPEED (Slow Pump Rate)		Kill Rate Speed (stk/min)		Pump Pressure (psi)		Circulating Rate (bbls/min)			
Pump #1									
Pump #2 or Auxiliary									
ANNULAR CAPACITY BETWEEN		Mud Weight (ppg)		Leak Off Pressure (psi)					
Mud Weight (ppg)		Leak Off Pressure (psi)		Present Mud Wt. (MAASP) (psi)					
WELL CONTROL OPERATIONS									
Determining Stable Shut In Drill Pipe & Casing Pressures to Complete Kill/over and Assist Operations									
Initial Time the Well was Shut In (hr:min)	Time SICPP (hr:min)	SICPP (psi)	SICPP (psi)						
Well Control Information Required to Complete Kill/over and Assist Operations									
Kick Depth TVD (ft)	Shut In Drill Pipe Pressure (psi)	Shut In Casing Pressure (psi)	Kick Size (bbls)	Select Rate of Circulation (ppg)	Pump No.	Kill Rate (stk/min)	Pressure (psi)		
			Present Mud Wt. (ppg)						

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6.0 Hydrogen Sulfide (H₂S)

6.1 Detection, Monitoring, Warning Equipment, and Training

Electronic H₂S detection, monitoring, and warning equipment will be utilized on site. The devices will be placed in or on the rig floor, cellar area, and flow line/closed-loop area at a minimum. Additional devices will be worn by personnel while on site. Also, additional devices may be placed throughout the site.

All personnel on location will be trained on the sites alarms, evacuation procedures, and awareness of the basic hazards associated with H₂S.

In the event that operations are being conducted in an area known to have/pose a threat of H₂S or if there is reason to believe that a threat is present, all onsite personnel will obtain additional training on Personal Protective Equipment (PPE), respiratory Protection, and be properly fit tested.

6.2 Notifying the OOG and Public/Protection Zone and Access Control

Upon detection of H₂S, the OOG will be immediately notified along with necessary emergency personnel. All personnel will evacuate site in the upwind direction and the entrance of the site will be blocked to prevent any unnecessary personnel from entering. The emergency response plan will then become in affect, this plan specifies the roles and responsibilities of onsite personnel in case of an emergency. It also addresses emergency notification of potential affected residents and public response personnel.

6.3 Personal Protective Equipment (PPE)

The following personal protection equipment will be available and in use as needed on location:

- Hardhats
- Safety Shoes
- Safety Glasses and/or Safety Goggles/Face Shields
- Hearing Protection Earplugs
- Work Gloves
- Personal H₂S Monitors
and SCBA Escape Packs.

Ample supply of all PPE items will be utilized and available for all personnel and any visitors.

In the event that other hazards are identified or presented during the drilling operation, we will attempt to eliminate the hazard, and if not practical, additional PPE will be provided to mitigate the risk to the worker.

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7.0 Flaring

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7.1 Size, Construction, and Length of Flare Line

The flare line will be a 2" diameter, steel line that extends a minimum of 100' from the well. A small diameter steel line will parallel the flow line and serve as the pilot to ignite the flare. The end of the kill

line will also be at the terminus of the flow line. The flare stack will be situated at least 100' from any wellhead and/or equipment at all times. The flare line may be anchored in a variety of ways depending on the site conditions. This could include, but is not limited to, metal stakes with safety caps, cross pinning, concrete weight blocks, etc.

7.2 Flare Lighting

The system for lighting the flare will be ¼" pilot line fueled by propane. A flare gun will be used as a backup. Notification to the local fire department prior to lighting the flare will be given immediately if practicable and as soon as possible thereafter.

7.3 Flare Operation and Minimum Distances

All gas diverted through the flare line will be burned. The local fire department will be notified of the intent to flare. All flammable material beyond the end of the flare line will be cleared to a minimum distance of 100ft.

7.4 Flare Duration

The flare operations, upon ignition, will last approximately 14 continuous days per well drilled and completed.

8.0 Collision Avoidance

8.1 Scope of Work and Survey Techniques

Depending on the application, as outlined below, gyroscopic, mud pulse telemetry or electromagnetic telemetry tools will be utilized to maintain quality control and assurance of our well paths. Gyroscopic surveys will be run inside casing or drill pipe in 100' increments prior to picking up any directional bottom hole assembly. When drilling in an area with high magnetic interference or in critical areas, a gyroscopic muleshoe will be utilized to help steer. The Gyro company's muleshoe tool will be used to ensure it seats properly and it's surveys are accurate. In addition, when using this muleshoe, the on-site company representative, directional driller, and gyro company representative will scribe and confirm the alignment and orientation of the tool. This ensures the tools are orientated consistent with the directional motor's high side and the azimuthal direction is accurate according to the survey results. During any nudge, curve or lateral drilling MWD or LWD tools will be utilized to steer and confirm placement in the well path. The directional company will provide real-time anti-collision monitoring based on surveys of existing offset wells prepared by the drilling engineer/geology department.

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8.2 Surface Design Precautions

Well surface locations will be spaced 20' from one another on new multi-well pads. When a rig returns to a pad with an existing producing well(s), the new well(s) surface locations will be spaced at least 100' from the existing producing well(s). A full review of offset wells within the project lease boundary will be prepared for the drilling engineer by the geology department. Any offset well that has a Separation Factor (SF) less than 2.0, or is within 500' of the planned wellpath, or intersects the planned

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well's target formation, will require a gyro or certified survey data. If the data is not available, then the production department will perform a wireline gyro on the existing offset well prior to drilling. The desired well path will be designed with SF greater than 2.0 at all times, if possible, and the surveying tools utilized will be calibrated prior to each use following the API & manufacturers' specifications.

8.3 Vertical and Lateral Drilling Precautions

The directional drilling service contractor & the operating company representative onsite will monitor real time separation distances and disclosure trends while drilling. If the SF approaches 1.5, a remote anti-collision team, provided by the service contractor, will monitor real time disclosure distances to prevent human error by any one person. A phone call will be made to the operator's field superintendent and the drilling engineer. An email from the service contractor will confirm that the remote anti-collision is now involved and monitoring surveys in real time.

At any time while drilling, if the SF is less than 1.0, control drilling will be implemented until SF is greater than 1.0. The Oil and Gas Inspector will be notified via email or phone call to be made aware. While control drilling, survey stations shall be no more than but not limited to 30' apart by measured depth (MD) and when magnetic interference is a risk, a gyro tool will be utilized as a safety precaution to help steer the well path. Any change in tool or direction will be approved by the directional driller, operator's field superintendent, drilling engineer, and service company's directional supervisor.

If an imminent risk for a collision should occur, the Oil and Gas inspector will be notified and given a proposal for remediation. In most applications, a cement kick plug will be set to a point safe enough to kickoff and resume drilling with a decreased threat of anticollision.

8.4 Additional Supportive Resources

All surveys and well plans will be corrected to true grid north utilizing the North American Datum of 1927 (NAD27). The directional company well planner and operator's drilling engineer will plot and approve all well plans prior to being drilled. All onsite directional and operator representatives will verify correctness of well plan prior to drilling, as well.

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Gyro Steering Muleshoe Scribe Verification

This document is intended to show multiple levels of visual confirmation during the BHA make-up, that the muleshoe high side and scribe are aligned. This alignment will confirm the azimuthal direction is accurate in the survey stations while gyro steer drilling.

Well Name: _____

API#: _____

Rig: _____

• Operator Representative: _____ Date: _____

• Gyro or MWD Representative: _____ Date: _____
Company: _____

• Directional Driller: _____ Date: _____
Company: _____

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9.0 Notification and Protection Zones

9.1 Notification

In an emergency which requires the notification of residents and emergency personnel that may be affected during drilling activity, the emergency response plan will be immediately implemented. This plan specifies the roles and responsibilities of onsite personnel in case of emergency and addresses emergency notification of potentially affected residents and public emergency response personnel.

In the event that response personnel and/or residents need to be notified, the preferred method is by telephone. If no telephone number is available or if anyone is not able to be reached by phone, they will be contacted and notified in person.

All CNX Gas HAZWOPER trained at the first responder operations level.

A list of Potentially Affected Parties, if applicable, is in the Appendix. This is a tabulation of all businesses, residence, schools within a one mile radius. This represents the current owners of record as recorded in the courthouse.

9.2 Protection Zones

Should the need for designated protection zones arise as a result of certain events, they will be established as appropriate. These protection zones will be established by evaluating the hazard, conditions, circumstances, potential impacts, and available guidance (such as the DOT Emergency Response Plan, available MSDS, etc.) to determine the best course of action.

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

1) Well Operator: CNX Gas Company, LLC

<u>494458046</u>	<u>Monongalia</u>	<u>Battelle</u>	<u>Wadestown</u>
------------------	-------------------	-----------------	------------------

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 No *MOK 9/27/2018*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target formation is Marcellus Shale @ 7670'-7740' TVD, 70' thick, expected formation pressure ~4600 psi

8) Proposed Total Vertical Depth: 7715' TVD at TD (dependent upon formation dip)

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

10) Proposed Total Measured Depth: 16,018' MD at TD

11) Proposed Horizontal Leg Length: ~7855'

12) Approximate Fresh Water Strata Depths: Shallowest at ~125' and deepest at ~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: 2115', 2565'

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: _____ RECEIVED
Seam: _____ Office of Oil and Gas
Owner: _____ OCT 03 2018

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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	16047	16018	2970 / TOC @ 2855
Tubing	2.375	New	J-55	4.7	Above assumes RF=29'	TBD	N/A
Liners	N/A						

MDR 9/27/2018

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:				

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Page 2 of 3

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 46.9

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

23) Describe centralizer placement for each casing string:

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

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

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

25) Proposed borehole conditioning procedures:

Air sections are typically vertical holes - will ensure the hole is clean at section TD prior to TOOH to run casing (may require mist and/or soap to clean the hole). For the production hole - once at TD, circulate at max flowrate with max rotation until the shakers clean-up (typically requires multiple BOP clean-ups). For the production casing - once on bottom with casing, circulate a minimum of 0.5 hole volume prior to pumping cement.

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*Note: Attach additional sheets as needed.

WDTN5 Cement Additives

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

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SHL is located on topo map 680 feet south of Latitude: 39° 42' 30"
 BHL is located on topo map 10,453 feet south of Latitude: 39° 45' 00"



SHL is located on topo map 1,056 feet west of Longitude: 80° 20' 00"
 BHL is located on topo map 7,106 feet west of Longitude: 80° 20' 00"

GREENE COUNTY, PENNSYLVANIA
 MONONGALIA COUNTY, WEST VIRGINIA

SURFACE HOLE LOCATION (SHL)
 UTM 17 - NAD83(M)
 N: 4396388.717
 E: 556827.867
 NAD27 WV NORTH
 N: 440451.084
 E: 1764431.989
 LAT/LON - NAD83
 LAT: 39°42'23.279"
 LON: 80°20'13.512"

APPROXIMATE LANDING POINT
 UTM 17 - NAD83(M)
 N: 4396371.787
 E: 556708.553
 NAD27 WV NORTH
 N: 440440.095
 E: 1764039.512
 LAT/LON - NAD83
 LAT: 39°42'22.739"
 LON: 80°20'18.528"

BOTTOM HOLE LOCATION (BHL)
 UTM 17 - NAD83(M)
 N: 4396389.489
 E: 554945.218
 NAD27 WV NORTH
 N: 445846.931
 E: 1758341.883
 LAT/LON - NAD83
 LAT: 39°43'15.844"
 LON: 80°21'32.089"

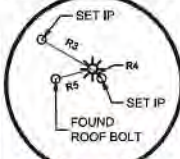
LINE #	BEARING	DISTANCE
R1	S12°44'17"W	967.19'
R2	N75°51'50"E	259.92'
R3	S59°44'24"E	401.63'
R4	N44°17'36"W	89.33'
R5	N75°51'50"E	259.92'

- SURFACE TRACT OWNERS & TAX PARCEL**
- | | | |
|----|--------------------------------|--------------|
| 1 | DINA M WISE ET AL. | TMM 1-8-2 |
| 2 | BARBARA J. WAGNER | TMM 1-8-3.1 |
| 3 | BARBARA J. WAGNER | TMM 1-8-3 |
| 4 | DAVID W. & ELIZABETH K. DEATON | TMM 1-8-1.2 |
| 5 | GARY L. & ARLENE ANN NEELY | TMM 1-8-1.5 |
| 6 | GARY L. & ARLENE ANN NEELY | TMM 1-8-1.1 |
| 7 | DELORES J. HARRISON | TMM 1-2-18.2 |
| 8 | MT. TABOR CEMETERY | TMM 1-2-22 |
| 9 | THOMAS M. BARNHOUSE | TMM 1-2-17 |
| 10 | CONSOL MINING COMPANY LLC | TMM 1-2-1 |
| 11 | ROY LEE JR. & ERICA E. HALL | TMM 1-2-21 |
| 12 | LEONARD EDWARD HALL JR. | TMM 1-2-18.1 |
| 13 | JASON BRIAN & LINDSEY R. HALL | TMM 1-2-18 |
| 14 | ROY L. HALL | TMM 1-2-19 |
| 15 | FREDRICK JR. & PATRICIA MORGAN | TMM 1-2-17.1 |
| 16 | DAVID & NANCY LIMING | TMM 1-2-14 |
| 17 | FREDRICK JR. & PATRICIA MORGAN | TMM 1-2-16.1 |

LEGEND

	TOPO MAP POINT		PROPOSED WELL		WATER SOURCE		SPRING		SURFACE TRACT		LEASED NUMBER BASED ON ATTACHED WWS&T
	WELLS WITHIN 3000'		RECORD GAS WELL		UNKNOWN WELL		ALL ARE POINTS UNLESS OTHERWISE NOTED		LEASE BOUNDARY		PROPOSED HORIZONTAL WELL
	SURFACE, OIL & GAS LINES		SURFACE TRACT LINES ONLY		GAS LEASE LINES ONLY		WELL REFERENCE		STREAM/WATERWAY		ROAD

REFERENCE DETAIL



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

- NOTES:**
- There are no water wells or developed springs within 250' of proposed well.
 - There are no existing buildings within 625' of proposed well.
 - Proposed well is greater than 100' from personal stream, wetland, pond, reservoir or lake.
 - There are no native trout streams within 300' of proposed well.
 - Proposed well is greater than 4000' from surface/groundwater intake or public water supply.
 - It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. 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 #: WDTN5IHSM
 DRAWING #: 3601 - WDTN5I.DWG
 SCALE: 1"=2000'
 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.: 21452 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: September 21, 2018, Rev. September 24, 2018
 OPERATOR'S WELL #: WDTN5IHSM
 API WELL # 47 061 01793
 STATE COUNTY PERMIT

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

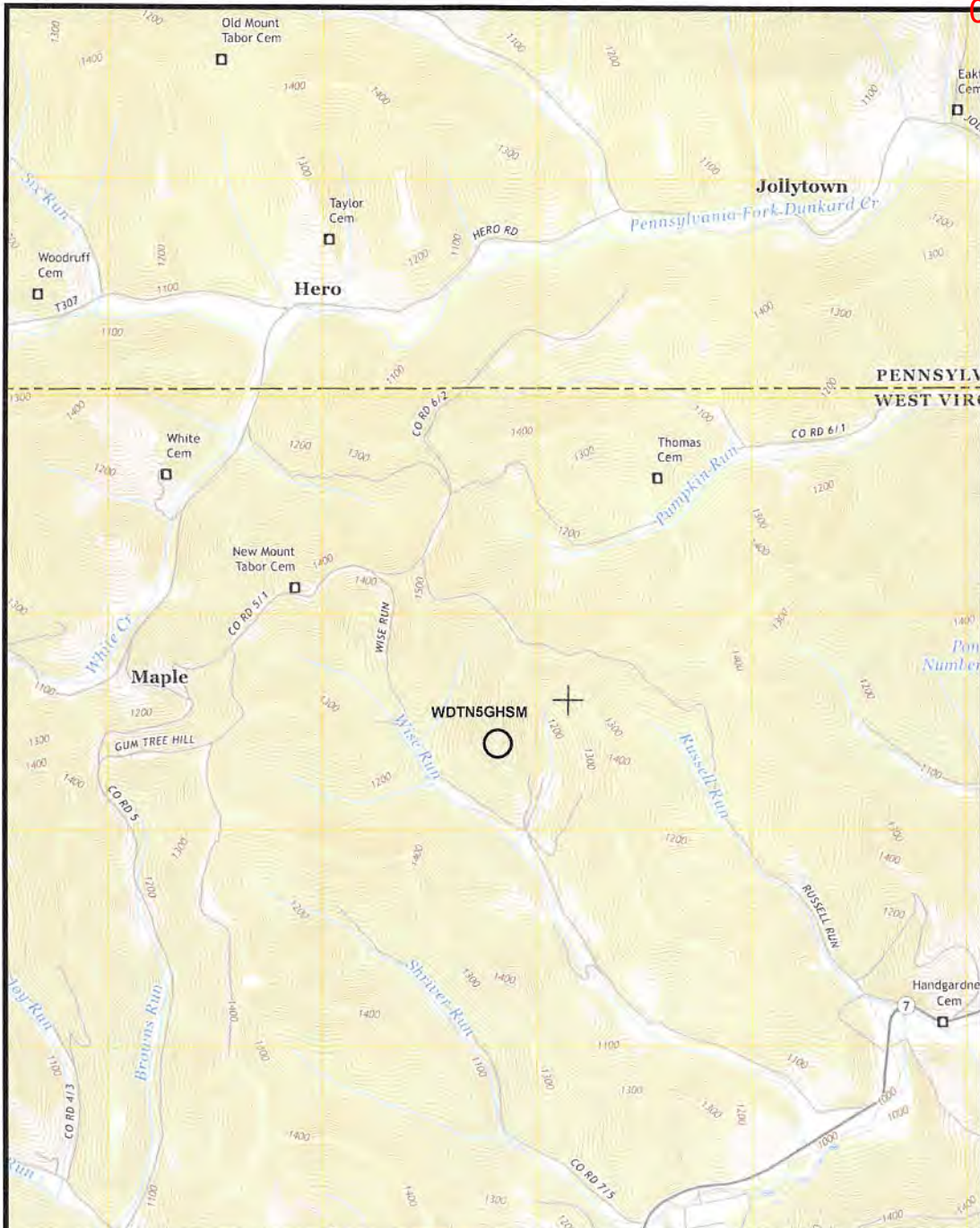
WATERSHED: DUNKARD CREEK ELEVATION: 1412'
 COUNTY/DISTRICT: MONONGALIA / BATTELLE QUADRANGLE: WADESTOWN, WV
 SURFACE OWNER: JOHN M. WISE, ET UX., ET AL. ACREAGE: 207.36
 OIL & GAS ROYALTY OWNER: RICHARD W. WISE, ET AL. ACREAGE: 207.36

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
 WELL OPERATOR: CNX GAS COMPANY, LLC
 Address: 1000 CONSOL ENERGY DRIVE
 City CANONSBURG State PA Zip Code 15317

ESTIMATED DEPTH: TVD: 7,715' ± TMD: 16,018' ±
 DESIGNATED AGENT: CHRIS TURNER
 Address: 1 DOMINION DRIVE
 City JANE LEW State WV Zip Code 26378

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 09 03 2018
 WV Department of Environmental Protection



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



DATE: September 21, 2018, Rev. September 24, 2018

OPERATOR'S WELL #: WDTN5HSU

API WELL #	<u>47</u>	<u>061</u>	<u>01793</u>
	STATE	COUNTY	PERMIT

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

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ESTIMATED DEPTH: TVD: 7,715' ± TMD: 16,018' ±
 DESIGNATED AGENT: CHRIS TURNER
 Address: 1 DOMINION DRIVE
 City JANE LEW State WV Zip Code 26378

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WV Department of
 Environmental Protection

Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc		
8 (CONT.)	p/o 1-3-2	20477700	Edith B. White	CNX Gas Company LLC		
			Mary Ann Borkowski, et vir	CNX Gas Company LLC		
			Jan W. Ellison, et vir	CNX Gas Company LLC		
			Jane E. McIntyre, et vir	CNX Gas Company LLC		
			Richard H. Benson II	CNX Gas Company LLC		
			Carol Sue Davis	CNX Gas Company LLC		
			Karen Imogene Meyers	CNX Gas Company LLC		
			Edwin Ray White II	CNX Gas Company LLC		
			Anita Susan Talbot	CNX Gas Company LLC		
			Alvy Scott White	CNX Gas Company LLC		
			Robert L. Tate Jr.	CNX Gas Company LLC		
			Frederick C. Tate	CNX Gas Company LLC		
			Robert S. Elliot	CNX Gas Company LLC		
			Lucy Mae Stickley	CNX Gas Company LLC		
			Timothy J. Tate	CNX Gas Company LLC		
			Alex Tate	CNX Gas Company LLC		
			Jennifer Marie Carrington	CNX Gas Company LLC		
			Marian Rebecca Stone Garrett	CNX Gas Company LLC		
			Patricia Kathleen White Hoekstra	CNX Gas Company LLC		
			Donald Edward Stone	CNX Gas Company LLC		
			Deis Jean White	CNX Gas Company LLC		
			David Ray Stone	CNX Gas Company LLC		
			Sandra Pixler	CNX Gas Company LLC		
			Victor White	CNX Gas Company LLC		
			Melinda Reid Hatton	CNX Gas Company LLC		
			Dennis Frederick Hatton Jr.	CNX Gas Company LLC		
			Amanda Hatton	CNX Gas Company LLC		
9	1-2-16.2 p/o 1-2-16.1 p/o 1-2-17 p/o 1-2-17.1	18857800	XTO Energy, Inc.	CNX Gas Company, LLC		
			Three Rivers Royalty II, LLC	CNX Gas Company, LLC		
			Elizabeth A. Marlineau, a/k/a, Elizabeth Ada Snyder, a/k/a, Elizabeth Snyder Marlineau	CNX Gas Company, LLC		
			Rebecca Snyder Bromley, a/k/a Alice Rebecca Snyder Bromley	CNX Gas Company, LLC		
			James Brant Snyder	CNX Gas Company, LLC		
			Sharon White Bartholomew, a/k/a Sharon K. W. Bartholomew, a/k/a Sharon Ruth White Bartholomew	CNX Gas Company, LLC		
			David T. White and Sarah K. White, h/w, as JTROS	CNX Gas Company, LLC		
			Glenn L. White, individually and as trustee of Glenn L. White Trust	CNX Gas Company, LLC		
			Alice T. Boone	CNX Gas Company, LLC		
			Eldon Bryant Tucker, et ux	CNX Gas Company, LLC		
			Charles Tucker, et ux	CNX Gas Company, LLC		
			Robert Earl, et ux	CNX Gas Company, LLC		
			David Tucker	CNX Gas Company, LLC		
			James Tucker, et ux	CNX Gas Company, LLC		
			Cheryl Molesky	CNX Gas Company, LLC		
			Laurence D. Hare	CNX Gas Company, LLC		
			James F. Hare III, et ux	CNX Gas Company, LLC		
			Lacy L. Adams, et vir	CNX Gas Company, LLC		
			Donald Pelger	CNX Gas Company, LLC		
			Carl L. Anderson, et ux	CNX Gas Company, LLC		
			David Wayne Anderson	CNX Gas Company, LLC		
			Deborah Horton, Trustee and Beneficiary of the Ronald L. Horton Revocable Living Trust	CNX Gas Company, LLC		
			Chris Pelger	CNX Gas Company, LLC		
			Shannon Harker	CNX Gas Company, LLC		
			Chase Schwarsenska	CNX Gas Company, LLC		
			John Pelger	CNX Gas Company, LLC		
			Holly Pelger	CNX Gas Company, LLC		
			Brenda Murphy	EQT Production Company		
			Vickie L. Simmons	EQT Production Company		
			Sherry C. McCoy	EQT Production Company		
			David C. Anderson	EQT Production Company		
			Kelly Dilbeck	CNX Gas Company, LLC		
10	1-2-21	20477800	Cheryl Lynn Bennett Frankenfield	CNX Gas Company, LLC		
			Connie Lee Norwood	CNX Gas Company, LLC		
			Beth Ellen Younclak, a/k/a Beth Ellen Bennett	CNX Gas Company, LLC		
			Ewing Albert Bennett	CNX Gas Company, LLC		
			Wilma Bennet Patterson	CNX Gas Company, LLC		
			Emily B. Vallin	CNX Gas Company, LLC		
			Jennifer Sue Carpenter	CNX Gas Company, LLC		
			Shirley Dotterer Wadsworth	CNX Gas Company, LLC		
			Kathryn Dotterer Vahl	CNX Gas Company, LLC		
			Thelma R. Dotterer Chowing	CNX Gas Company, LLC		

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
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DATE: September 21, 2018, Rev. September 24, 2018

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

OPERATOR'S WELL #: WDTN5IHSU

API WELL # 47 STATE 061 COUNTY PERMID 04793

WATERSHED: DUNKARD CREEK

ELEVATION: 1412'

COUNTY/DISTRICT: MONONGALIA / BATTELLE

QUADRANGLE: WADESTOWN, WV

SURFACE OWNER: JOHN M. WISE, ET UX., ET AL.

ACREAGE: 207.36

OIL & GAS ROYALTY OWNER: RICHARD W. WISE, ET AL.

ACREAGE: 207.36

DRILL 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: 7,715' ±

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

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ULF 03 2018

WV Department of Environmental Protection

Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
10 (CONT.)	1-2-21	204779000	Marc D. Prochazka Richard Leslie Puchstein Carl Eric Puchstein Violet Jean Puchstein, a/k/a Jean Steen Puchstein, individually and as Trustee of the Jean Steen Puchstein Trust U/A dated October 8, 2014 John William Bennett Jeffery Carpenter Kent Prochazka	CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC
11	1-2-18 1-2-18.1	188890000 204779000	Merrion Oil and Gas Corporation Hu's Land & Minerals, LLC Samuel William Stewart and Barbara C. Stewart John Samuel Stewart	EQT Production Company EQT Production Company CNX Gas Company LLC CNX Gas Company LLC
12	1-2-17.2 p/o 1-2-17 p/o 1-2-17.1 p/o 1-2-16.1	239935000	XTO Energy, Inc. Three Rivers Royalty II, LLC Elizabeth A. Martineau, a/k/a, Elizabeth Ada Snyder, a/k/a, Elizabeth Snyder Martineau Rebecca Snyder Bromley, a/k/a Alice Rebecca Snyder Bromley James Brant Snyder Sharon White Bartholomew, a/k/a Sharon K. W. Bartholomew, a/k/a, Sharon Ruth White Bartholomew David T. White and Sarah K. White, h/w, as JTROS Glenn L. White, individually and as trustee of Glenn L. White Trust Alice T. Boone Eldon Bryant Tucker, et ux Charles Tucker, et ux Robert Earl, et ux David Tucker James Tucker, et ux Cheryl Mofesky Laurence D. Hare James F. Hare III, et ux Lacy L. Adams, et vir Donald Pelger Carl L. Anderson, et ux David Wayne Anderson Deborah Horton, Trustee and Beneficiary of the Ronald L. Horton Revocable Living Trust Chris Pelger Shannon Harter Chase Schwersensaka John Pelger Holly Pelger Brenda Murphy Vickie L. Simmons Sherry C. McCoy David C. Anderson Kelly Dilbeck	CNX Gas Company, LLC EQT Production Company EQT Production Company EQT Production Company EQT Production Company CNX Gas Company, LLC
13	1-2-19	204780000	Merrion Oil and Gas Corporation Hu's Land & Minerals, LLC	EQT Production Company EQT Production Company
14	1-2-14	188577000	XTO Energy, Inc. David Liming and Nancy Liming Three Rivers Royalty II, LLC Elizabeth A. Martineau, a/k/a, Elizabeth Ada Snyder, a/k/a, Elizabeth Snyder Martineau Rebecca Snyder Bromley, a/k/a Alice Rebecca Snyder Bromley James Brant Snyder Sharon White Bartholomew, a/k/a Sharon K. W. Bartholomew, a/k/a, Sharon Ruth White Bartholomew David T. White and Sarah K. White, h/w, as JTROS Glenn L. White, individually and as trustee of Glenn L. White Trust Alice T. Boone Eldon Bryant Tucker, et ux Charles Tucker, et ux Robert Earl, et ux David Tucker James Tucker, et ux Cheryl Mofesky Laurence D. Hare	CNX Gas Company, LLC EQT Production Company EQT Production Company EQT Production Company EQT Production Company CNX Gas Company, LLC

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OIL & GAS ROYALTY OWNER: RICHARD W. WISE, ET AL. ACREAGE: 207.36

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WV Department of Environmental Protection

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City CANONSBURG State PA Zip Code 15317 City JANE LEW State WV Zip Code 26378

Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
14 (CONT.)	1-2-14	18957000	James F. Hare III, et ux	CNX Gas Company, LLC
			Lacy L. Adams, et vir	CNX Gas Company, LLC
			Donald Pelger	CNX Gas Company, LLC
			Carl L. Anderson, et ux	EQT Production Company
			David Wayne Anderson	CNX Gas Company, LLC
			Deborah Horton, Trustee and Beneficiary of the Ronald L. Horton Revocable Living Trust	CNX Gas Company, LLC
			Chris Pelger	CNX Gas Company, LLC
			Shannon Harker	CNX Gas Company, LLC
			Chase Schwesenska	CNX Gas Company, LLC
			John Pelger	CNX Gas Company, LLC
			Holly Pelger	CNX Gas Company, LLC
			Brenda Murphy	EQT Production Company
			Vickie L. Simmons	EQT Production Company
			Sherry C. McCoy	EQT Production Company
			David C. Anderson	EQT Production Company
			Kelly Dilbeck	CNX Gas Company, LLC

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



Sheffler & Company, Inc.
ENGINEERING • SURVEYING

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

DATE: September 21, 2018, Rev. September 24, 2018

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

OPERATOR'S WELL #: WDTN5IHSU

API WELL # 47 STATE 061 COUNTY 01793 PERMIT #

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

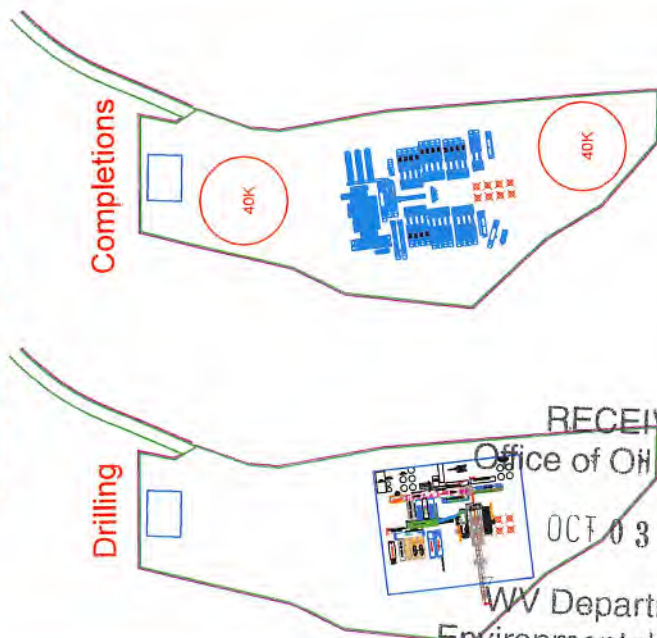
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 7,715' ± TMD: 18,018'
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

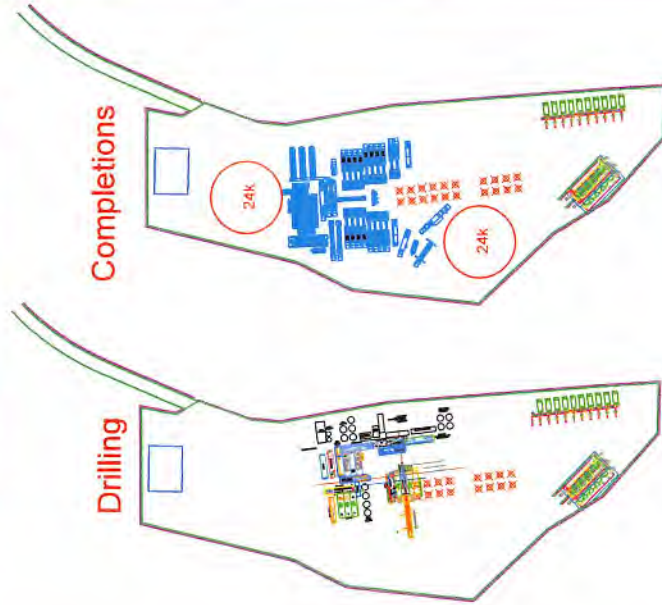
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New Layout 8/20/2018

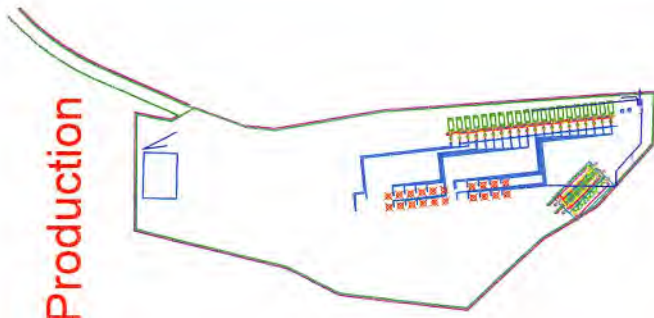
Round 1
1 Utica, 7 Marcellus



Round 2
5 Utica, 7 Marcellus



Production



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01/04/2019

OTMEDIER

ABC ONE-TO-ONE

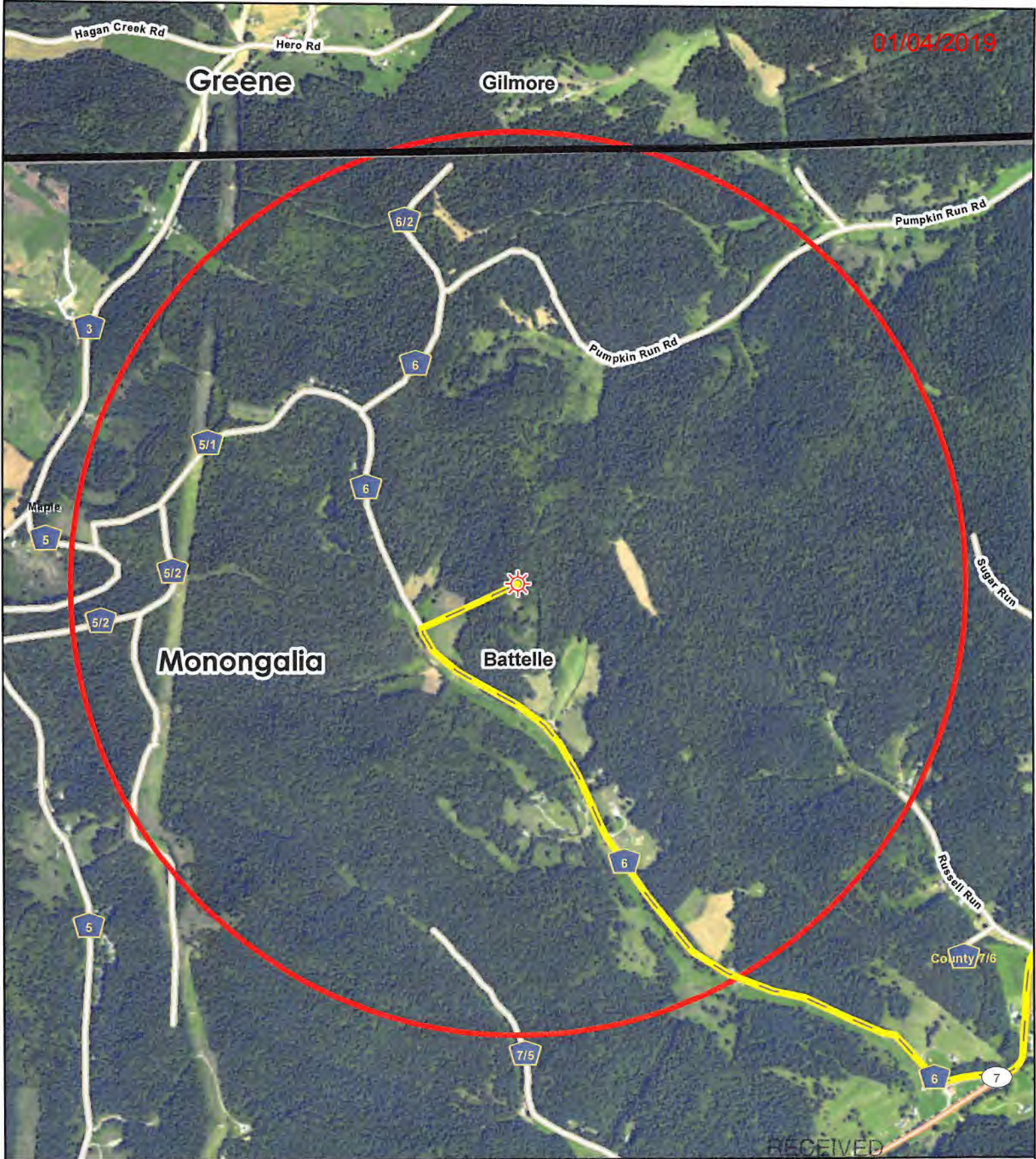
ABC ONE-TO-ONE
JAN 4 2019

to merchandise

ABC ONE-TO-ONE

ABC ONE-TO-ONE

01/04/2019



Legend

Wellbore

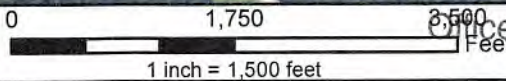
1 Mile Evacuation Buffer

Evacuation Route

Directions:

Head west from pad and turn left onto County Highway 6, follow Highway 6 to Route 7 and turn left onto Route 7.

Path: V:\cnx\gis\business_unit_support\gas_permitting\gp31\wdrn5\evacuation_map\wdrn5_evacuation_plan_map.mxd - b\jlo



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CNX Center, Canonsburg, PA

Original Date: 7/20/2017

Prepared By: GIS

Revision Date: 7/20/2017

Approved By: GIS

OCT 03 2018

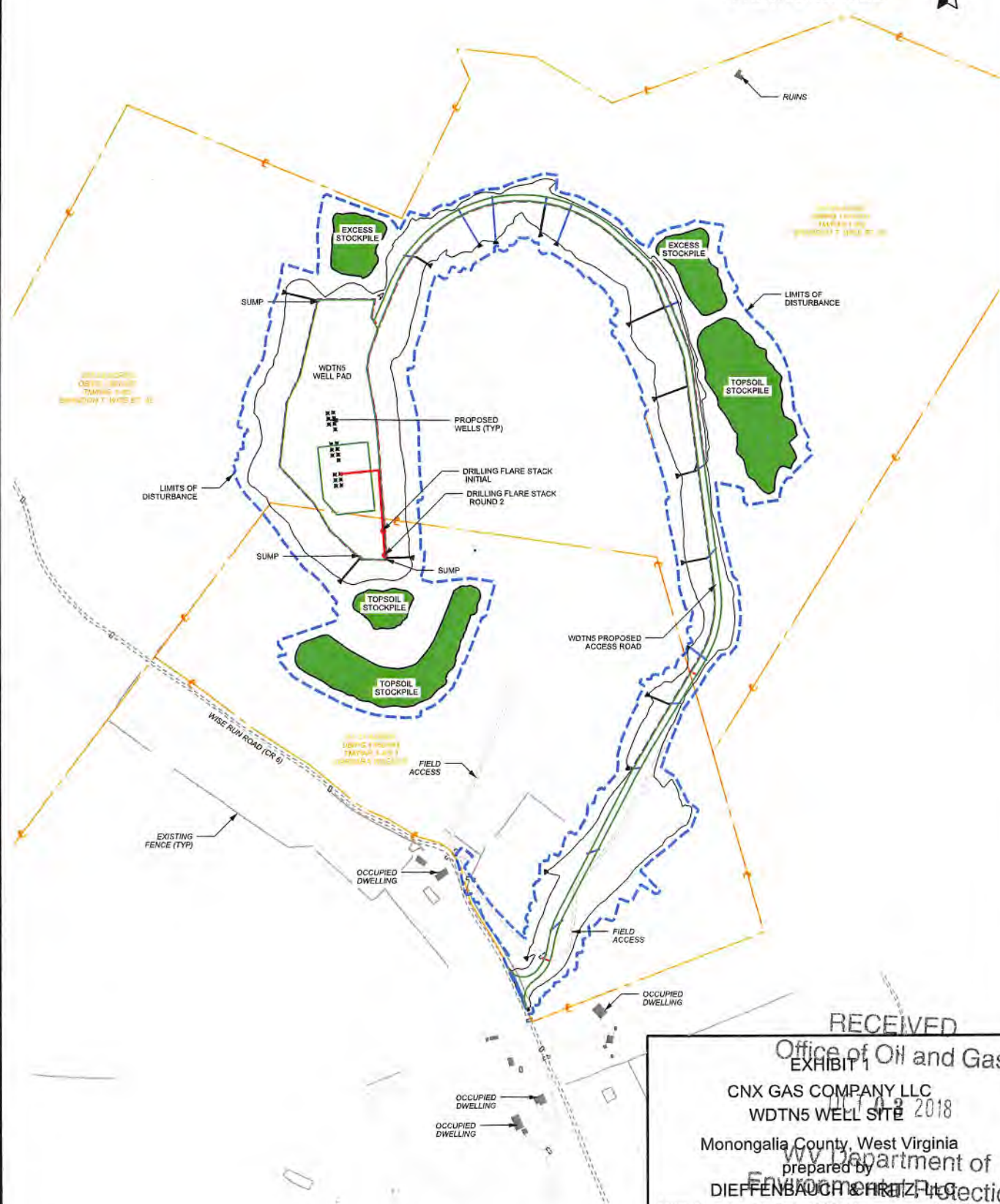
Site Evacuation Map
WV Department of Environmental Protection
WDTN5

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PREVAILING WIND



K:\CNX Waynesburg\1216067 - WTNS\Common\WDTN5 MAP.dgn 3:25:50 PM 5/2/2018 1:500

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Office of Oil and Gas EXHIBIT 1

CNX GAS COMPANY LLC WDTN5 WELL SITE

Monongalia County, West Virginia prepared by

DIEFFENBAUGH & BRITZ, Inc. Environmental Protection

1095 Chaplin Rd Suite 200, Morgantown, WV 26501 Phone: 304-985-5555 Fax: 304-985-5557



**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: slr from spud/surface to curve kick-off point (KOP).
Horizontal: synthetic oil-based mud (SOBM) from curve KOP 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 _____

Company Official (Typed Name) Raymond Hoon

Company Official Title Supervisor - Gas Permitting

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Subscribed and sworn before me this _____ day of _____, 20_____

OCT 03 2018

Notary Public

My commission expires _____

**WV Department of
Environmental Protection**

CNX Gas Company LLC

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, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Magne J Knutson

Comments: _____

Title: Inspector

Date: 9/27/2018

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Field Reviewed? Yes No

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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)		Other Accepted Waste Streams										Contact Information				
Landfill	Location	Gas Specific Waste Streams					Other Accepted Waste Streams					Municipal Solid Waste				
		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			
McLean County	Bloomington	X	X		X	X	X	X	X	X	X	X	X	X		
ERC/Coles County	Charleston	X	X		X	X	X	X	X	X	X	X	X	X	X	
Bridgford Disposal	Danville	X	X		X	X	X	X	X	X	X	X	X	X	X	
Southern Illinois Regional	De Soto	X	X		X	X	X	X	X	X	X	X	X	X	X	
Lee County	Dixon	X	X		X	X	X	X	X	X	X	X	X	X	X	
Upper Rock Island	East Moline	X	X		X	X	X	X	X	X	X	X	X	X	X	
Bond County	Greenville	X	X		X	X	X	X	X	X	X	X	X	X	X	
Illinois	Hoopston	X	X		X	X	X	X	X	X	X	X	X	X	X	
LandComp	LaSalle	X	X		X	X	X	X	X	X	X	X	X	X	X	
Litchfield-Hillsboro	Litchfield	X	X		X	X	X	X	X	X	X	X	X	X	X	
Envirentech	Morris	X	X		X	X	X	X	X	X	X	X	X	X	X	
Livingston	Pontiac	X	X		X	X	X	X	X	X	X	X	X	X	X	
Roxana	Roxana	X	X		X	X	X	X	X	X	X	X	X	X	X	
Sansammon Valley	Springfield	X	X		X	X	X	X	X	X	X	X	X	X	X	
Benson Valley	Frankfort	X	X		X	X	X	X	X	X	X	X	X	X	X	
Blue Ridge	Irvine	X	X		X	X	X	X	X	X	X	X	X	X	X	
Morehead	Morehead	X	X		X	X	X	X	X	X	X	X	X	X	X	
Green Valley	Rush	X	X		X	X	X	X	X	X	X	X	X	X	X	
Cherokee Run	Bellevue	X	X		X	X	X	X	X	X	X	X	X	X	X	
Williams County	Bryan	X	X		X	X	X	X	X	X	X	X	X	X	X	
County Environmental	Gay	X	X		X	X	X	X	X	X	X	X	X	X	X	
Celina	Celina	X	X		X	X	X	X	X	X	X	X	X	X	X	
Carbon-Limestone**	Lowellville	X	X		X	X	X	X	X	X	X	X	X	X	X	
Countywide Landfill**	East Sparta	X	X		X	X	X	X	X	X	X	X	X	X	X	
Lorain County	Oberlin	X	X		X	X	X	X	X	X	X	X	X	X	X	
Oakland Marsh	Shiloh	X	X		X	X	X	X	X	X	X	X	X	X	X	
Imperial	Imperial	X	X		X	X	X	X	X	X	X	X	X	X	X	
Conestoga	Morgantown	X	X		X	X	X	X	X	X	X	X	X	X	X	
Brunswick	Lawrenceville	X	X		X	X	X	X	X	X	X	X	X	X	X	
King and Queen	Little Plymouth	X	X		X	X	X	X	X	X	X	X	X	X	X	
Old Dominion	Richmond	X	X		X	X	X	X	X	X	X	X	X	X	X	
Sycamore	Hurricane	X	X		X	X	X	X	X	X	X	X	X	X	X	
Short Creek	Wheeling (Short Creek)	X	X		X	X	X	X	X	X	X	X	X	X	X	
Carter Valley	Church Hill	X	X		X	X	X	X	X	X	X	X	X	X	X	

317-921-1667 or 480-627-2700
1-800-634-0215

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

Barbara Harsanyic:
work: 330-536-8013 x 120
cell: 330-424-7267

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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											Contact Information
Arden Landfill	Washington	X	X		X	X	X	X			X	X	X											Scott Allen: 412-604-2256
South Hills (Arnoon)	South Park	X	X		X	X	X	X			X	X	X											
Kelly Run	Elizabeth	X	X		X	X	X	X			X	X	X											
Valley Landfill	Invin	X	X		X	X	X	X			X	X	X											
Evergreen Landfill	Blairsville	X	X		X	X	X	X			X	X	X											
Charleston Landfill (Kanawha County)	Charleston	X	X		X	X	X	X			X	X	X											
Meadowfill Landfill	Bridgeton	X	X		X	X	X	X			X	X	X											
Northwestern Landfill	Parkersburg	X	X		X	X	X	X			X	X	X											
S&S Grading Landfill	Clarksburg	X	X		X	X	X	X			X	X	X											
American Landfill	Waynesburg	X	X		X	X	X	X			X	X	X											
Suburban RDF	Glenford	X	X		X	X	X	X			X	X	X											
Coshocton Landfill***	Coshocton	X	X		X	X	X	X			X	X	X											Patty Landolt: 262-532-8001 John Miller: 1-800-963-4776
Mahoning Landfill	New Springfield	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											Contact Information
Westmoreland Waste (WVLC Group)	111 Conner Lane, Belle Vernon, PA 15012	X	X		X	X	X	X	X	X		X	X											Mike Home: 412-552-4427 Mark Thomas: 724-929-7694
MAX Environmental (Bulger Facility)	200 Max Drive, Bulger, PA 15019	X	X		X	X	X	X				X	X											Carl Spadaro: 412-343-4900 cell: 412-445-9789
MAX Environmental	233 MAX Lane, Yukon, PA 15698	X	X		X	X	X	X				X	X											Joe Teterick: 740-275-2887 joet@elis-company.com
Apex Sanitary landfill (Apex Environmental)	11 County Road 78, Amersdam, Ohio 43903	X	X		X	X	X	X				X	X											Carl Walter: 513-623-2471
Rumpke, Mt. Sterling (Rumpke Consolidated)	30 Larson Rd., Jeffersonville, KY 40337	X	X		X	X	X	X	X	X			X											Bruce Crouch: Work: 606-864-7996 Cell: 606-219-0261
Laurel Ridge Landfill (Waste Connections of KY)	3612 E State Highway 552, Lfiv, KY 40740	X	X		X	X	X	X	X	X	X		X											
	Chestnut Valley 1184 McClellandtown Rd, McClellandtown, PA 15458	X	X		X	X	X	X					X											Tony Labenne 6184 Route 219, Brockway, PA 15824 814-590-9906
Advanced Disposal	Greentree Landfill: 635 Toby Rd., Kensey, PA	X	X		X	X	X	X					X											
	Messaler Landfill: 7035 Glades Pike Rd., Somerset, 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. Waste stream accepted by facility. Contact facility directly to verify waste streams accepted. New PADEP rules regarding "TENORM" testing requirement are pending. * Drill Cuttings include fine sand for the purpose of this table (Contact facility directly to verify waste streams accepted).

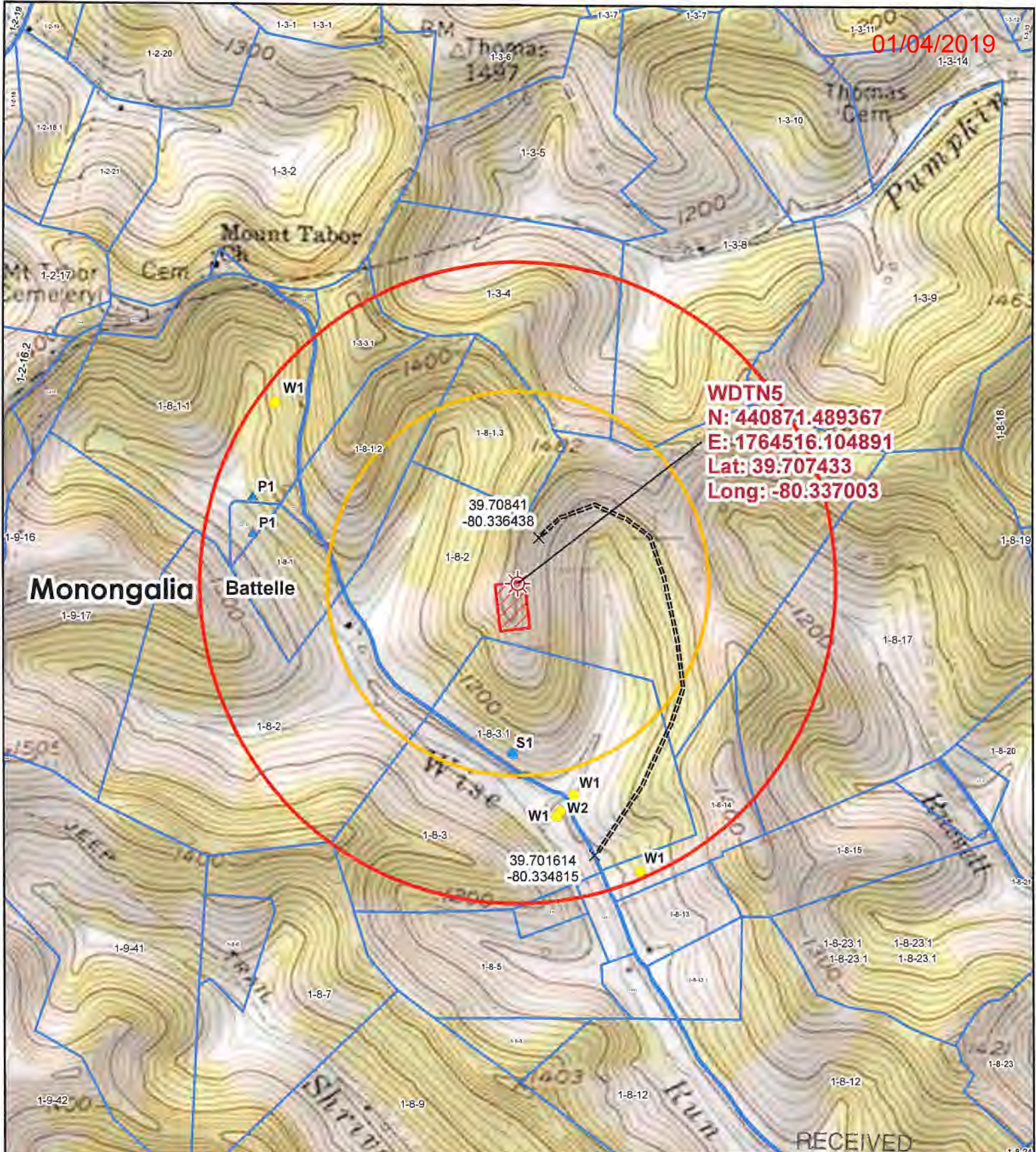
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15 JAN 2019
10:50 AM

to mention of VW
notion of the situation
1/4/19

01/04/2019



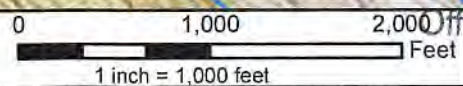
WDTN5
N: 440871.489367
E: 1764516.104891
Lat: 39.707433
Long: -80.337003

39.70841
-80.336438

39.701614
-80.334815

Legend

- Wellbore
- Wells
- Spring
- Ponds
- Access Points
- Access Road
- 2,500 Foot Buffer
- 1,500 Foot Buffer
- Well Pad
- Surface Parcel



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 CNX Center, Canonsburg, PA

Original Date: 11/13/2017 Prepared By: GIS

Revision Date: 11/13/2017 Approved By: GIS

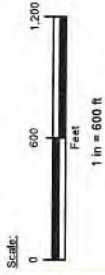
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 WV Department of Environmental Protection
WDTN5

01/04/2019

LEGEND

- WDTNS 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
- 7 1/2 minute quadrangle, Westtown, WV
- Base aerial imagery retrieved from ESRI online database.
- Well Imagery with World Transportation Overlay.

Notes:

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- All information shown on this map is for informational purposes only.
- In nature, it may not be copied or otherwise reproduced in whole or in part without prior written consent.

PRE-DRILL WATER SURVEY

WDTNS Gas Well
Water Source Map

Battelle District
Monongalia County, WV

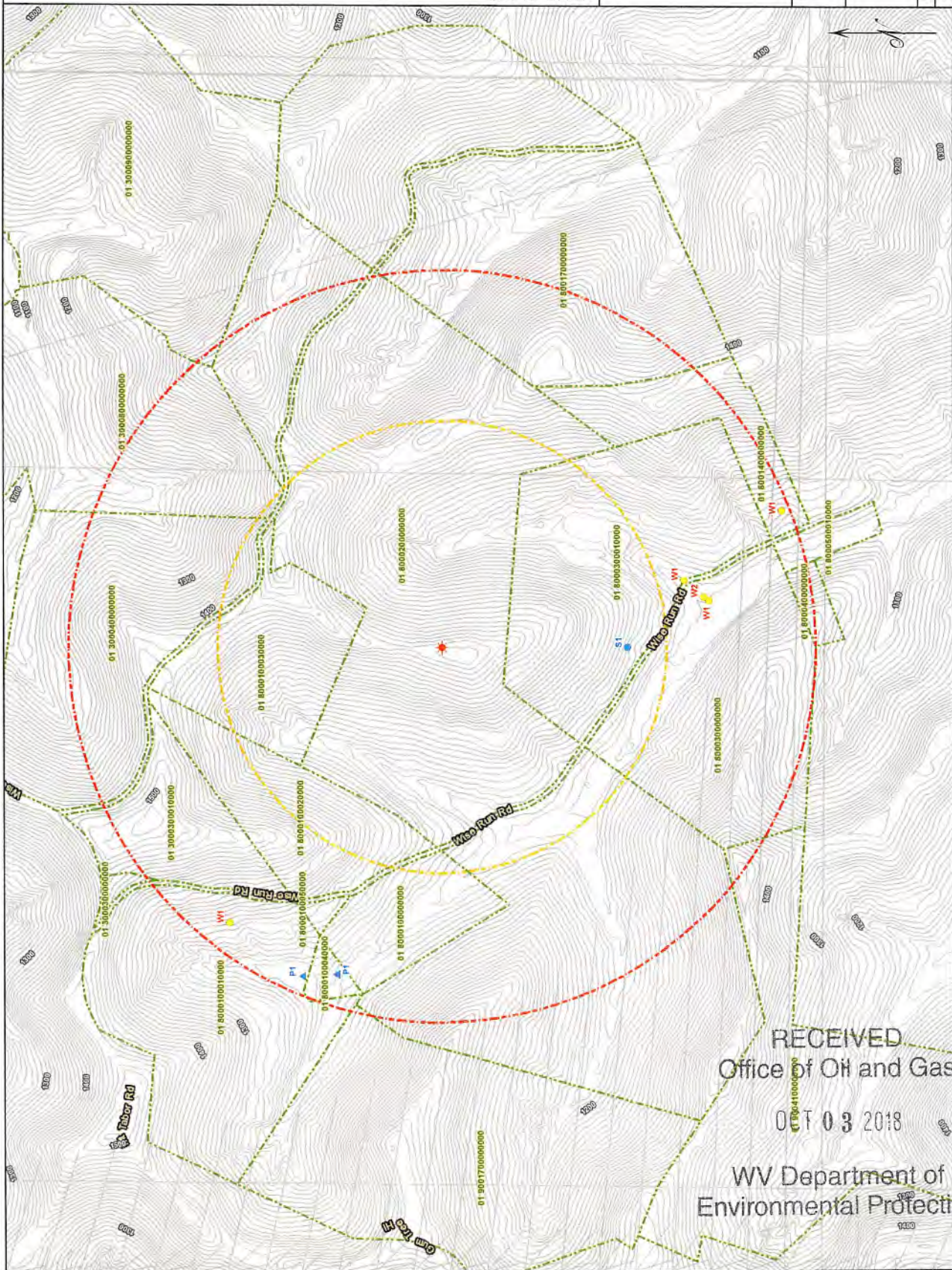
Project #: 17-227-01

Prepared for:



199 Johnson Road
Building 1000
Harrisburg, PA 17142
Office: (724) 746-5200
Fax: (724) 746-5603
www.moody-s.com

Drawn by: MFS Date: 10/20/18
Checked by: MC Revision:



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DRIVING DIRECTIONS FOR CNX WDTN5IHSM WELL SITE

From interstate 79 North in WV, take exit 1 toward Mt Morris.

Turn left onto Bald Hill Road/Locust Ave/T865, 0.6mi.

Slight right onto T329/Wades Run Road, 300 feet.

Turn left onto Buckeye Road (entering WV), 3.7 mi.

Turn right onto WV-7 W, 13.9 mi.

Turn right onto Stewarts Run/Wise Run, 1.5 mi.

Entrance to well site on Right

NEAREST FIRE STATION:

Wadestown Fire Department

Mason Dixon Highway

Wana, WV 26590

(304) 662-6331

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Landowners within 1 mile

Tax ID	Owner	Address	City	Phone
01-2-16	LAUER ROBERT ANTHONY III	WHITE CRK	WANA	330-469-9214
01-2-16.2	HARRISON DELORES J	DUNKARD CRK	BURTON	304-292-3502
01-2-17	BARNHOUSE THOMAS M		BURTON	304-292-4806
01-2-17.1	MORGAN FREDERICK JR & PATRICIA	DUNKARD CRK	BURTON	304-497-0527
01-2-18.1	HALL LEONARD EDWARD JR	WHITE CRK	BURTON	304-449-1894
01-2-20	HALL ROY L	WHITE CRK	BURTON	304-775-2764
01-2-21	HALL ROY LEE JR & ERICA E	WHITE CRK	BURTON	304-775-2764
01-2-22	MT TABOR CEMETERY	ROUTE 5/1	BURTON	304-775-2764 (Trustee)
01-2-24	MT TABOR M E CHURCH	1 DUNKARD CREEK RD	WANA	304-775-2764 (Trustee)
01-3-1	STILES CLARK DONLEY		BURTON	304-485-2622
01-3-1.1	SOLOMON CYNTHIA	ROUTE 1 WANA	BURTON	304-296-0400
01-3-10	TAYLOR JAMES EDWARD & EARL LYNN	1023 PUMPKIN RUN RD	WANA	724-451-8457
01-3-11	CONSOL MINING COMPANY LLC	PUMPKIN RUN	WANA	724-485-3133
01-3-14	TAYLOR JAMES EDWARD & EARL LYNN	1023 PUMPKIN RUN RD	WANA	724-451-8457
01-3-2	CONSOL MINING COMPANY LLC	DUNKARD CRK	BURTON	724-485-3133
01-3-3	MACYDA STEVEN M	ROUTE 1 WANA	WANA	724-451-8549
01-3-3.1	MACYDA STEVEN M	ROUTE 1 WANA	WANA	724-451-8549
01-3-4	TAYLOR JAMES EDWARD & EARL LYNN	1023 PUMPKIN RUN RD	WANA	724-451-8457
01-3-5	THOMAS DENNIS & ROSE	ROUTE 1 WANA	WANA	304-662-6105
01-3-6	THOMAS DENNIS & ROSE	ROUTE 1 WANA	WANA	304-662-6105
01-3-7	SHOUGH JAMES LEON	ROUTE 1 WANA	WANA	304-451-8464
01-3-8	TAYLOR JAMES EDWARD & EARL LYNN	1023 PUMPKIN RUN RD	WANA	724-451-8264
01-3-9	TAYLOR JAMES EDWARD & EARL LYNN	1023 PUMPKIN RUN RD	WANA	724-451-8457
01-8-1	AREHEART HENRY W & LYNDA M		WANA	412-561-7795
01-8-1.1	NEELY GARY L & ARLENE ANN	ROUTE 1 WADESTOWN	WANA	304-292-0825
01-8-1.2	DEATON DAVID W & ELIZABETH K	DUNKARD CRK	WANA	412-269-3972
01-8-1.3	THOMAS DAVID WAYNE & DOROTHY L STEWART	DUNKARD CRK	WANA	412-269-5598
01-8-1.4	AREHEART HENRY W & LYNDA M		WANA	412-561-7795

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Environmental Protection

01-8-1.5	NEELY GARY L & ARLENE ANN	WISE RUN RD	WANA	304-292-0825 Troy: 605-290-2307 MaryJane: 304-662-6517
01-8-10	BECKNER TROY DAVID & JANET LEE SMITH (LIFE-TROY LEE &	11 MONA LN	WADESTOWN	304-534-4432
01-8-11	DEBERRY CHESTER E & BARBARA J	ROUTE 1	WANA	304-662-6358
01-8-12	SHRIVER BARBARA S	70 WISE RUN RD	WANA	304-662-6358
01-8-12.1	SHRIVER BARBARA S & GREGORY L	271 WISE RUN RD	WANA	304-662-6106
01-8-13	AMMONS DAVID M & JESSICA L	ROUTE 1	WANA	304-662-6106
01-8-13.1	AMMONS DAVID M & JESSICA L	ROUTE 1	WANA	304-662-6778
01-8-14	EFAW DONALD A & AMY BETH	497 WISE RUN RD	WANA	304-775-2944
01-8-15	RUSSELL DEWEY & BEATRICE EST	DUNKARD CRK	WANA	304-662-6856
01-8-16	STEWART BETTY	201 RUSSELL ST	WANA	304-879-5105
01-8-16.1	HOLMES LENA DENICE & DONRA JEAN WILLARD	DUNKARD CRK	WANA	304-296-8801
01-8-17	MYERS ALTON	ROUTE 1	WANA	724-485-3133
01-8-18	CONSOL MINING COMPANY LLC	WANA	WANA	724-485-3133
01-8-19	CONSOL MINING COMPANY LLC	ROUTE 1	WANA	435-637-9124
01-8-2	WISE DINA M ET AL (LIFE ARTHUR D & OPAL JANE	ROUTE 1 WANA	WANA	412-974-2943
01-8-20	LYTLE KENNETH W	ROUTE 1	WANA	304-662-6299
01-8-21	KIRBY TROY EDWARD & BARBARA ANNE	149 RUSSELL RUN	WADESTOWN	304-775-2944
01-8-23	WILSON JACKIE L, LARRY A & SHARON E WILSON LEMLEY	DUNKARD CRK	WANA	304-775-2944
01-8-23.1	HOSTUTLER BONNIE R	DUNKARD CRK	WANA	304-662-6358
01-8-24	SHRIVER BARBARA S	70 WISE RUN RD	WANA	304-662-6299
01-8-27	KIRBY TROY EDWARD & BARBARA ANNE	149 RUSSELL RUN	WADESTOWN	304-662-9719
01-8-3	WAGNER BARBARA	573 WISE RUN RD	WANA	304-662-9719
01-8-3.1	WAGNER BARBARA J	DUNKARD CRK	WANA	304-662-6451
01-8-4	EFAW KENNETH W & DONNA P	509 WISE RUN RD	WANA	304-662-6451
01-8-5	EFAW KENNETH W & DONNA P	509 WISE RUN RD	WANA	304-662-6451
01-8-5.1	BARR NELSON E & VIRGINIA L	503 WISE RUN RD	WANA	252-753-2400
01-8-5.2	CARMAN MARGUERITTE K	459 WISE RUN RD	WANA	717-294-6060
01-8-6	BARNHART MICHAEL L LIVING TRUST	ROUTE 1	WANA	717-294-6060
01-8-7	BARNHART MICHAEL L LIVING TRUST	ROUTE 1	WANA	717-294-6060

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01-8-8	EFAW KENNETH W & DONNA P BARNHART MICHAEL L LIVING TRUST	509 WISE RUN RD	WANA	304-662- 6451 717-294- 6060
01-8-9	WHITE GLEN LOWELL & SHARRON RUTH WHITE BARTHOLOMEW	ROUTE 1	WANA	828-456- 9177 724-485- 3133
01-9-16	CONSOL MINING COMPANY LLC	BROWN RUN	WANA	609-294- 1326 304-662- 6780
01-9-17	CASSONE RICHARD J & LINDA ANN	BROWN RUN	BURTON	304-662- 6298 304-662- 6105
01-9- 39.2	HENDERSON DAVID & GAIL AGNES	BROWNS RUN	BURTON	304-662- 6105 724-437- 4371
01-9- 39.3	PATTERSON WILLIAM A & CATHY A	BROWNS RUN	BURTON	304-662- 6105 724-437- 4371
01-9-40	THOMAS DENNIS L & ROSE L	BROWN RUN RD	BURTON	304-662- 6105 724-437- 4371
01-9- 40.2	THOMAS DENNIS L & ROSE L	BROWN RUN RD	BURTON	304-662- 6105 Troy: 605- 290-2307 MaryJane: 304-662- 6517 724-437- 4371
01-9-41	PROVANCE REGIS B & BONNIE M	217 BLUE GOOSE RD	WANA	
01-9-42	THOMAS DENNIS L & ROSE L	BROWNS RUN	BURTON	
01-9-43	BECKNER TROY DAVID & JANET LEE SMITH(LIFE-TROY LEE&	BROWN RUN RD	BURTON	
01-9-44	PROVANCE REGIS V & BONNIE M	DUNKARD CRK	BURTON	

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