



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

Tuesday, July 17, 2018
WELL WORK PERMIT
Horizontal 6A / New Drill

CNX GAS COMPANY LLC
POST OFFICE BOX 1248

JANE LEW, WV 263786506

Re: Permit approval for WDTN2IHSM
47-061-01810-00-00

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

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

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

James A. Martin
Chief

Operator's Well Number: WDTN2IHSM
Farm Name: CONSOL MINING COMPANY
U.S. WELL NUMBER: 47-061-01810-00-00
Horizontal 6A New Drill
Date Issued: 7/17/2018

PERMIT CONDITIONS

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

CONDITIONS

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

PERMIT CONDITIONS

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

4706 01810

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: WDTN2IHSM Well Pad Name: WDTN2

3) Farm Name/Surface Owner: Consol Public Road Access: CR7/23 Sugar Run Road

4) Elevation, current ground: 1085' Elevation, proposed post-construction: 1081'

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 *MJK 5/10/2018*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target formation is Marcellus Shale @ 7365'-7435' TVD, 70' thick, expected formation pressure ~5000 psi

8) Proposed Total Vertical Depth: 7410' (dependent upon formation dip)

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

10) Proposed Total Measured Depth: 15,057'

11) Proposed Horizontal Leg Length: 6914'

12) Approximate Fresh Water Strata Depths: 404', 665', 758' ✓

13) Method to Determine Fresh Water Depths: Offset well information

14) Approximate Saltwater Depths: 2410', 2650' ✓

15) Approximate Coal Seam Depths: 404', 665', 753', 758' ✓

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: _____
Depth: _____
Seam: _____
Owner: _____

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4706 * 01810

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	1099	1070 ✓	743 / CTS
Coal	13.375	New	J-55	54.5	1099	1070 ✓	743 / CTS
Intermediate	9.625	New	J-55	36.0	2929	2900 ✓	961 / CTS
Production	5.5	New	P-110	20.0	15086	15057 ✓	2785 / TOC @ 2700'
Tubing	2.375	New	J-55	4.7	Above assumes RF=29'	TBD	N/A
Liners	N/A						

MJK 5/10/2018

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:				

WW-6B
(10/14)

API NO. 47- _____ - _____
OPERATOR WELL NO. WDTN2IHSM
Well Name: WDTN 4706-01810

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): 11.2

22) Area to be disturbed for well pad only, less access road (acres): 8.41

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 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.



DRILLING WELL PLAN
WDTN-2I-HSM (Marcellus HZ)
Marcellus Shale Horizontal
Monongalia County, WV

Ground Elevation			WDTN-2I-HSM SHL				N 439736.64, E 1773733.43 (NAD27)							
1080 GL Elevation			WDTN-2I-HSM LP				N 439199.67, E 1773297.8 (NAD27)							
Azimuth			WDTN-2I-HSM BHL				N 444002.27, E 1768324.54 (NAD27)							
WELLBORE DIAGRAM			HOLE	CASING	GEOLOGY	MD	TVD	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS		
			24"	20" L/S				AIR	To Surface	N/A	N/A	Stabilize surface fill/soil		
						Conductor	100	100						
						Shallowest Fresh Water		123						
						Waynesburg 1 Coal		404						
						Sewickley Coal		665						
						Roof Coal		753						
						Pittsburgh Coal		758						
						FW/Coal Casing	1070	1070						
						17-1/2"	13-3/8" 54.5# J-55 BTC			AIR / FW Mist	15.6 ppg Class A + 1% to 3% CaCl2 + 1/4 pps Flake 20% OH Excess Yield = 1.19 TOC @ surface	Centralize every 3rd joint from shoe to surface Bow spring centralizers	Ensure the hole is clean at section TD	Set through fresh water zones Set through coal zones Cemented to surface 13-3/8" shoe NOT to be set deeper than ground level
						12-1/4"	9-5/8" 36.0# J-55 LTC			AIR / Soap	15.6 ppg Class A + 0% to 2% CaCl2 + 1/4 pps Flake 20% OH Excess Yield = 1.19 TOC @ surface	Centralize every 3rd joint from shoe to surface Bow spring centralizers	Soap the hole as needed and ensure the hole is clean at section TD	Set through potential salt water zones Cemented to surface Casing to be set ~200'-250' below the Big Injun base
			8-3/4" Tangent	5-1/2" 20.0# P-110 VAR			AIR	15.2 ppg Class H 50:50 Class H:Poz with additives (retarder, suspension agent, gas block, defoamer, fluid loss, extender, etc.) 10% OH Excess Yield = 1.07 TOC @ >= 200' above 9-5/8" shoe	Centralize every joint from shoe to KOP - then every 3rd joint from KOP to TOC Single-piece/rigid bow centralizers	Once at TD, circulate at max flowrate with max rotation until shakers clean-up (typically requires multiple bottoms-up) Once on bottom with casing, circulate a minimum of one hole volume prior to pumping cement	Note: For all strings, actual centralizer placements may be changed due to hole conditions Note: For all strings, actual cement blends may vary slightly depending upon service company utilized			
			8-1/2" Curve & Lateral		50 Foot	3100								
					Gordon	3235								
					Fifth	3410								
					Elks	4860								
					Rhinestreet	6840								
					Cashaqua	7055								
					Burkett	7200								
					Tully	7225								
					Hamilton	7260								
				Marcellus	7365									
				Production Casing	15057	7410								

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LP +/- 7410' TVD

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

+/- 6914' Lateral

TD @ +/- 7410' TVD

470001810

4706101810

WDTN2 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.

07/20/2018

WW-9
(4/16)

API Number 47 - 470601810
Operator's Well No. WDTN218SM

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

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.? NA

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 WDTN5 wells API TBD)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain No Pits)

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

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Vertical: air from spud/surface to curve kick-off point (KOP)

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Horizontal: synthetic oil-based mud (SOBM) from curve KOP to lateral TD

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 soil conductor cuttings only, rock cuttings will be taken to an approved Landfill

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

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

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 Raymond Hoon

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Company Official (Typed Name) Raymond Hoon

MAY 16 2018

Company Official Title Supervisor - Permitting

Commonwealth of Pennsylvania County of Washington WV Department of Environmental Protection

Subscribed and sworn before me this 14th day of May, 2018

Lori L Walker

Notary Public

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Lori L. Walker, Notary Public
Richhill Twp., Greene County
My Commission Expires Feb. 23, 2019
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

My commission expires February 23, 2019

CNX Gas Company, LLC

Proposed Revegetation Treatment: Acres Disturbed 11.2 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: Maureen J. Kintaus

Comments: - House is within the 625' setback and waiver is required
- ADD setback distance from center of pad to house

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Title: Inspector

Date: 5/10/2018

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Field Reviewed? Yes No

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

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

Republic Services (Allied Waste) 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	
McLean County	Bloomington	IL	X	X		X	X	X	X	X	X	X	X	
BRC/Colos County	Charleston	IL	X	X		X	X	X	X	X	X	X	X	
Brickyard Disposal	Danville	IL	X	X		X	X	X	X	X	X	X	X	
Southern Illinois Regional	De Soto	IL											X	
Lee County	Dixon	IL	X	X		X	X	X	X	X	X	X	X	
Upper Rock Island	East Moline	IL	X	X		X	X	X	X	X	X	X	X	
Boad County	Greensville	IL	X	X		X	X	X	X	X	X	X	X	
Illinois LandComp	Hoopeston	IL	X	X		X	X	X	X	X	X	X	X	
LandComp	LaSalle	IL	X	X		X	X	X	X	X	X	X	X	
Litchfield-Hillsboro	Litchfield	IL	X	X		X	X	X	X	X	X	X	X	
Envirotech	Morris	IL	X	X		X	X	X	X	X	X	X	X	
Livingston	Pontiac	IL	X	X		X	X	X		X	X	X	X	
Roxana	Roxana	IL	X	X		X	X	X	X	X	X	X	X	
Sanjamon Valley	Springfield	IL	X	X		X	X	X	X	X	X	X	X	
Benson Valley	Frankfort	KY	X	X		X	X	X	X	X	X	X	X	
Blue Ridge	Irvine	KY	X	X		X	X	X	X	X	X	X	X	
Morehead	Morehead	KY	X	X		X	X	X	X	X	X	X	X	
Green Valley	Rush	KY	X	X		X	X	X	X	X	X	X	X	
Cherokee Run	Beliefontaine	OH				X	X	X	X	X	X	X	X	
Williams County	Bryan	OH				X	X	X	X	X	X	X	X	
County Environmental	Carey	OH				X	X	X		X	X	X	X	
Celina	Celina	OH				X	X	X		X	X	X	X	
Carbon-Limestone**	Lowellville	OH	X	X		X	X	X			X	X	X	
Countywide Landfill**	East Sparta	OH	X	X		X	X	X				X	X	
Lorain County	Oberlin	OH				X	X	X			X	X	X	
Oakland Marsh	Shiloh	OH					X	X	X	X		X	X	
Imperial	Imperial	PA				X	X	X	X	X		X	X	
Cenestown	Morganstown	PA				X	X	X	X	X	X	X	X	
Brunswick	Lawrenceville	VA				X	X	X	X	X	X	X	X	
King and Queen	Little Plymouth	VA				X	X	X	X	X	X	X	X	
Old Dominion	Richmond	VA				X	X	X	X	X	X	X	X	
Sycamore	Hurricane	WV				X	X	X		X	X	X	X	
Short Creek	Wheeling (Short Creek)	WV	X	X		X	X	X			X	X	X	
Carter Valley	Church Hill	TN											X	

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

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

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

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Waste Management		Gas Specific Waste Streams			Other Accepted Waste Streams									Contact Information
Industrial Landfills	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	
	Alden Landfill	Washington	PA	X	X	X	X	X	X			X	X	X
	South Hills (Armoni)	PA	X	X		X	X	X	X			X	X	X
	Kelly Run	Elizabeth	PA	X	X	X	X	X	X			X	X	X
	Valley Landfill	Irwin	PA	X	X	X	X	X	X		X	X	X	X
	Evergreen Landfill	Blairsville	PA	X	X	X	X	X	X		X	X	X	X
	Charleston Landfill (Kanawha County)	Charleston	WV	X	X	X	X	X	X			X		X
	Meadowhill Landfill	Bridgetown	WV	X	X	X	X	X	X		X	X	X	X
	Northwestern Landfill	Parkersburg	WV	X	X	X	X	X	X			X	X	X
	S&S Grading Landfill	Clarksburg	WV	X	X	X	X	X	X			X	X	X
	American Landfill	Washington	OH	X	X	X	X	X	X		X	X	X	X
	Suburban RDF	Glenford	OH	X	X	X	X	X	X		X	X	X	X
	Coshocton Landfill***	Coshocton	OH	X	X	X	X	X	X			X		X
	Mahoning Landfill	New Springfield	OH	X	X	X	X	X	X		X	X		X

Scott Allen: 412-604-2256

Patty Landolt: 262-532-8001
John Miller: 1-800-963-4776

Additional Landfills		Gas Specific Waste Streams			Other Accepted Waste Streams									Contact Information
Landfill	Location	Drill* Cuttings	Waste Liners	Waste Brine	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Sludge	Friable Asbestos	Non-Friable Asbestos	Process Waste	Solidification Services	Municipal Solid Waste	
Westmoreland Waste (WWLC Group)	111 Conner Lane, Belle Vernon, PA 15012	PA	X	X	X	X	X	X	X		X	X	X	
MAX Environmental (Palmer Facility)	200 Max Drive, Palmer, PA 15019	PA	X	X	X	X	X	X				X	X	
MAX Environmental (Yukon Facility)	233 MAX Lane, Yukon, PA 14698	PA	X	X	X	X	X	X				X	X	
Apex Sanitary Landfill (Apex Environmental)	11 County Road 78, Amsterdam, Ohio 43903	OH	X	X	X	X	X	X				X	X	
Rumpke, Mt. Sterling (Rumpke Consolidated)	30 Larison Rd, Jeffersonville, KY 40337	KY	X	X	X	X	X		X	X			X	
Laurel Ridge Landfill (Waste Connections of KY)	3612 B State Highway, 552 Ithv, KY 40740	KY	X	X	X	X	X		X	X	X		X	
Advanced Disposal	Chestnut Valley, 1184 McClellandtown Rd, McClellandtown, PA 15458	PA	X	X	X	X	X	X					X	
	Greentree Landfill; 635 Toby Rd.; Kesse, PA	PA	X	X	X	X	X	X					X	
	Mostoller Landfill; 7035 Glades Pike Rd.; Somerset, PA	PA	X	X	X	X	X	X					X	

Mike Home: 412-552-4427
Mark Thomas: 724-929-7694

Carl Spadaro: 412-343-4900
cell: 412-445-9789

Joe Totterick: 740-275-2887
joet@els-company.com

Carl Walter: 513-623-2471

Bruce Crouch: Work: 606-864-7996
Cell: 606-219-0261

Tony Labenne
6184 Route 219, Brockway, PA 15824
814-590-9906

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

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4706 : 01810



4706 · 01810

Site Safety Plan for Well Site: WDTN2IHSM CNX Gas Company, LLC.



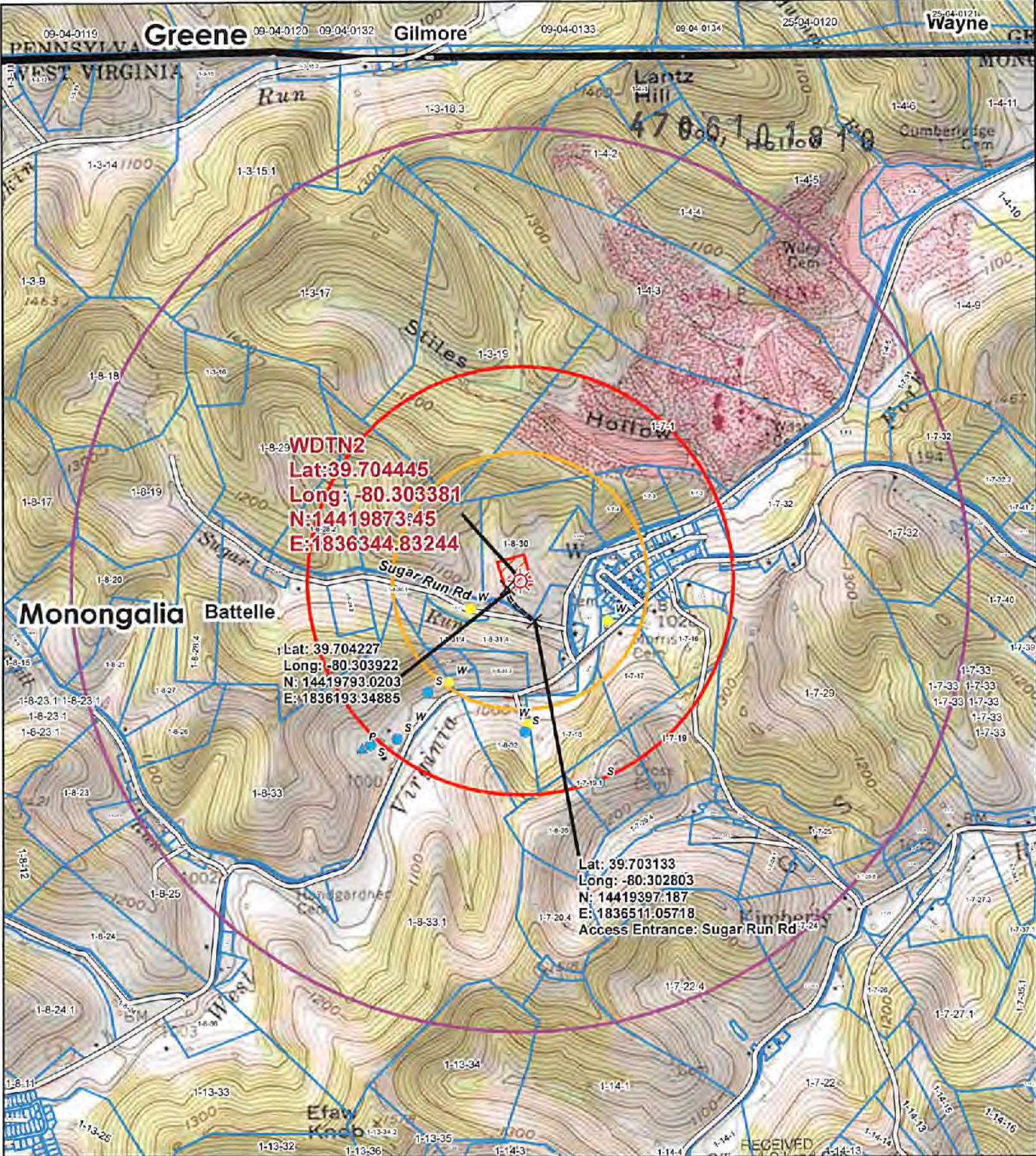
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WV Department of
Environmental Protection

Raymond J. Kruttschnitt 5/10/2018

07/20/2018



WDTN2
 Lat: 39.704445
 Long: -80.303381
 N: 1441987345
 E: 1836344.83244

Lat: 39.704227
 Long: -80.303922
 N: 14419793.0203
 E: 1836193.34885

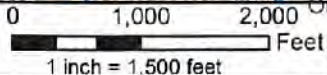
Lat: 39.703133
 Long: -80.302803
 N: 14419397.187
 E: 1836511.05718
 Access Entrance: Sugar Run Rd

Monongalia

Battelle

Legend

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



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 MAY 16 2018

Original Date: 5/8/2018
 Revision Date: 5/8/2018

Prepared By: GIS
 Approved By: GIS

WV Department of Environmental Protection
 Topographic Well Map

This map is property of CNX Land Resources Inc. and contains information that is proprietary and confidential in nature and may not be copied or reproduced without prior written consent.
 © Copyright CNX Land Resources Inc. 2011

WDTN2
07/20/2018

BHL is located on topo map 12,310 feet south of Latitude: 39° 45' 00"
 SHL is located on topo map 1,350 feet south of Latitude: 39° 42' 30"



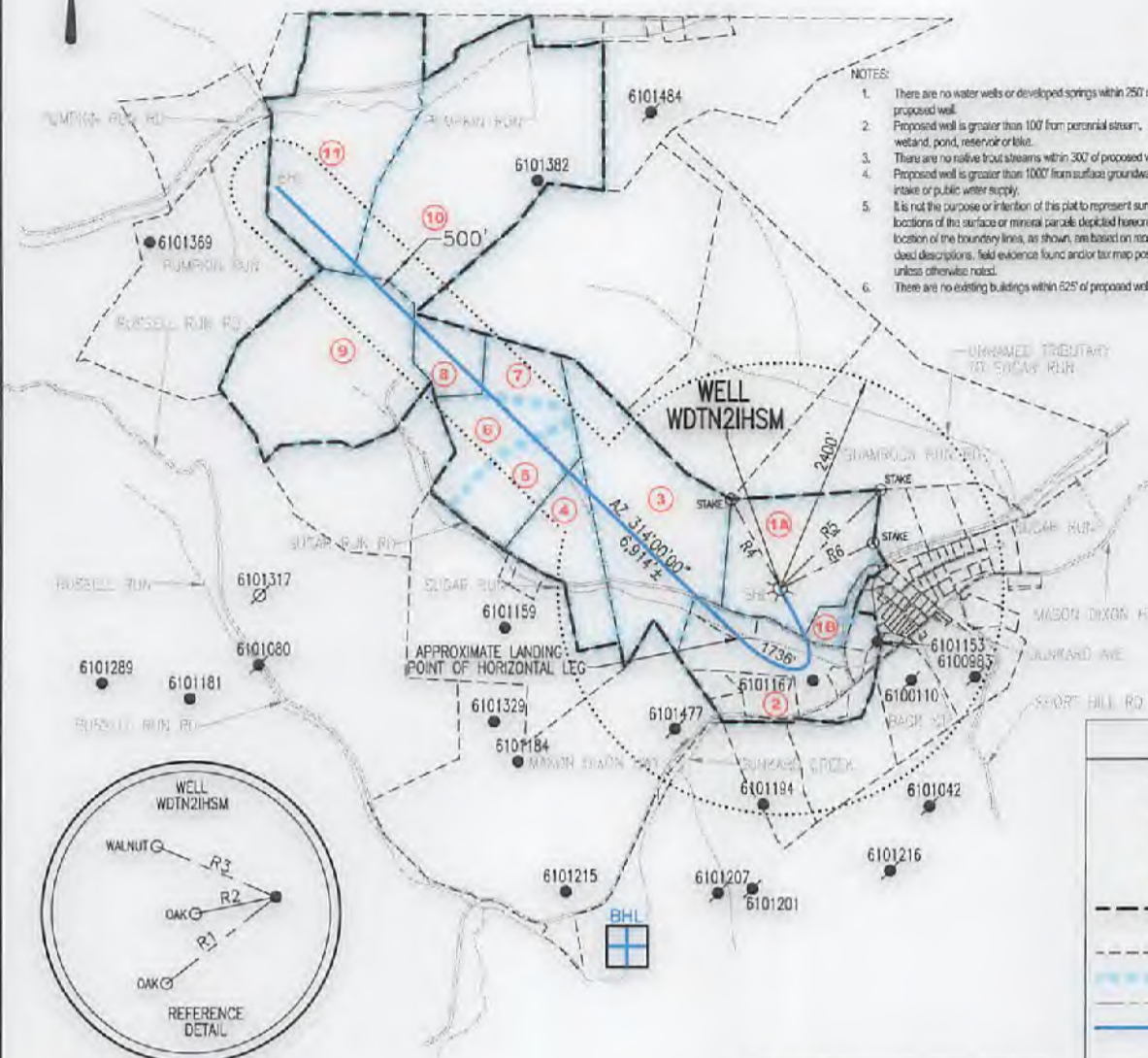
SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
 N:4395206.16
 E:5598665.53
 NAD83, WV NORTH
 N:439773.7330
 E:1742296.7060
 LAT/LON-NAD83
 LAT:39°42'16.6608"
 LON:80°18'14.4117"

APPROX. LANDING POINT
UTM 17-NAD83(M)
 N:4395040.35
 E:559535.54
 NAD83, WV NORTH
 N:439236.7740
 E:1741861.0530
 LAT/LON-NAD83
 LAT:39°42'11.3154"
 LON:80°18'19.9243"

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
 N:4396478.25
 E:557995.96
 NAD83, WV NORTH
 N:444039.4680
 E:1736887.9880
 LAT/LON-NAD83
 LAT:39°42'58.3349"
 LON:80°19'24.1160"

- NOTES:
1. There are no water wells or developed springs within 250' of proposed well.
 2. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 3. There are no native trout streams within 300' of proposed well.
 4. Proposed well is greater than 1000' from surface groundwater intake or public water supply.
 5. 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, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.
 6. There are no existing buildings within 625' of proposed well.

BHL is located on topo map 8,917 feet west of Longitude: 80° 17' 30"
 SHL is located on topo map 3,471 feet west of Longitude: 80° 17' 30"



LEGEND

- ⊕ - TOPO MAP POINT
- ☼ - WELL
- - ALL ARE POINTS UNLESS OTHERWISE NOTED.
- ① - LESSORS
- - - - - MINERAL TRACT BOUNDARY
- - - - - PARCEL LINES
- - - - - LEASE BOUNDARY
- - - - - WELL REFERENCE
- - - - - PROPOSED HORIZONTAL WELL
- - - - - ROAD
- - - - - STREAM CENTER LINE

EXISTING GAS WELLS

- - EXISTING WELLS
- - PLUGGED WELLS

LINE	BEARING	DISTANCE
R1	S 51°58'35" W	135.91'
R2	S 78°15'30" W	80.56'
R3	N 67°08'02" W	126.46'
R4	N 29°26'24" W	1078.35'
R5	N 45°52'12" E	1501.44'
R6	N 64°19'28" E	1110.94'

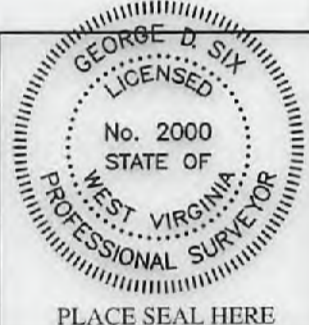
Blue Mountain Inc.
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

FILE #: WDTN2IHSM
 DRAWING #: WDTN2IHSM
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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: George D. Six
 R.P.E.: _____ L.L.S.: P.S. No. 2000



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

DATE: MAY 02, 2018
 OPERATOR'S WELL #: WDTN2IHSM
 API WELL #: 47 61 01810 H6A
 STATE COUNTY PERMIT

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

WATERSHED: DUNKARD CREEK ELEVATION: 1081.72'

COUNTY/DISTRICT: MONONGALIA/BATTELLE QUADRANGLE: WADESTOWN, WV 7.5'

SURFACE OWNER: CONSOL MINING COMPANY LLC ACREAGE: 48.073±

OIL & GAS ROYALTY OWNER: CNX GAS COMPANY, LLC ET AL ACREAGE: 510.304±

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION

PERFORATE NEW FORMATION PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE

(SPECIFY): TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 7,410'± TMD: 15,057'±

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

07/20/2018

4706101010

WDTN2IHSM

PAGE 2 OF 2

	SURFACE OWNER	LESSOR	DIST-TM/PAR
1A	CONSOL MINING COMPANY LLC	SANDRA K. NEWBERRY	1-8/30
	EAKIN-WANA MEMORIAL CEMETERY ASSOCIATION	ROBERT G. PLATT JR.	1-7/7.1
1B	EAKIN-WANA MEMORIAL CEMETERY ASSOCIATION	LINDA K. WALKER, FKA, LINDA K. PLATT	1-7/7.1
		RICHARD VARKONYI AND SHARON VARKONYI, FKA, SHARON R. PLATT	
		MM-MARCELLUS II, LP	
		KIM COEN	
		SETH LEMLEY AND CHRISTINA LEMLEY	
		PEGGY L. MARTIN	
		CONSOLIDATION COAL COMPANY, CONSOL PENNSYLVANIA COAL COMPANY	
		RESERVE COAL PROPERTIES COMPANY AND	
		SOUTHERN OHIO COAL COMPANY	
		SANDRA K. NEWBERRY	
		ROBERT G. PLATT JR.	
LINDA K. WALKER, FKA, LINDA K. PLATT			
RICHARD VARKONYI AND SHARON VARKONYI, FKA, SHARON R. PLATT			
MM-MARCELLUS II, LP			
KIM COEN			
SETH LEMLEY AND CHRISTINA LEMLEY			
PEGGY L. MARTIN			
CONSOLIDATION COAL COMPANY, CONSOL PENNSYLVANIA COAL COMPANY			
RESERVE COAL PROPERTIES COMPANY AND			
SOUTHERN OHIO COAL COMPANY			
2	WARREN H. VARNER, JR.	EDNA M. BEAN AND JASPER W. BEAN,	1-8/31.1
	ALEXANDER CLARK JOHNSON	FERN T. WHITE AND PHILLIP O. WHITE, W/H	1-8/31.2
	BERNARD A. & MELISSA A. RABER	AND BURNETTE THOMAS	1-8/31.3
	GAIL FREELAND	CARL S. THOMAS AND ANITA THOMAS, H/W	1-8/31.4
	CLARK & BRENDA JOHNSON	AND LOIS T. DALLISON	1-8/31.5
	GRACE FELLOWSHIP S.B.C.		1-7/6.1
	GRACE FELLOWSHIP S.B.C.		1-7/7
	EDWARD E. & DENISE L. CASINO		1-7/7.2
	JOSEPH A. & ALISON M. PATTERSON		1-7/8.1
	C/O RYAN & RACHEL LEMLEY		
	BRYAN MARTIN & TRACY L. HOSE		1-7/8.2
3	CONSOL MINING COMPANY LLC	EDNA M. BEAN AND JASPER W. BEAN,	1-8/30.1
		FERN T. WHITE AND PHILLIP O. WHITE, W/H AND BURNETTE THOMAS CARL S. THOMAS AND ANITA THOMAS, H/W AND LOIS T. DALLISON	
4	HAROLD N. MCCLURE	THOMAS STILES AND LINDA STILES, H/W,	1-8/28.2
		DOUGLAS STILES AND LOIS STILES, H/W CHARLES STILES AND LINDA STILES, H/W, DONALD STILES AND PAT STILES, H/W HAROLD MCCLURE	
5	CONSOL MINING COMPANY LLC	CONSOLIDATION COAL COMPANY, CONSOL PENNSYLVANIA COAL COMPANY	P/O 1-8/29
6		RESERVE COAL PROPERTIES COMPANY AND	
7		SOUTHERN OHIO COAL COMPANY	
8	CONSOL MINING COMPANY LLC	CONSOLIDATION COAL COMPANY, CONSOL PENNSYLVANIA COAL COMPANY	1-3/16
9	CONSOL MINING COMPANY LLC	EDNA DOROTHY SIMPSON AND THOMAS SIMPSON	1-8/18
		ROBERT D. WEAKLEY BY EDNA DOROTHY SIMPSON, HIS POWER OF ATTORNEY AND ROBERT PLATT	
10	JAMES EDWARD & EARL LYNN TAYLOR	DOROTHY HICKMAN, AKA DOROTHY THOMAS HICKMAN	1-3/15.1
11	JAMES EDWARD & EARL LYNN TAYLOR	JAMES EDWARD TAYLOR & SUSAN L. TAYLOR, H/W EARL LYNN TAYLOR	1-3/14

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
N:4395208.16
E:559665.53

NAD83, WV NORTH
N:439773.7330
E:1742296.7060

LAT/LON-NAD83
LAT:39°42'16.6608"
LON:80°18'14.4117"

APPROX. LANDING POINT

UTM 17-NAD83(M)
N:4395040.35
E:559535.54

NAD83, WV NORTH
N:439236.7740
E:1741861.0530

LAT/LON-NAD83
LAT:39°42'11.3154"
LON:80°18'19.9243"

BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M)
N:4396478.25
E:557995.96

NAD83, WV NORTH
N:444039.4680
E:1736887.9880

LAT/LON-NAD83
LAT:39°42'58.3349"
LON:80°19'24.1160"

07/20/2018

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

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

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

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

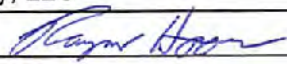
**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

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

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

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

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

<u>Tract ID</u>	<u>Tax Map & Parcel</u>	<u>Title Opinion QLS #</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
1A, 1B	1-8-30, 1-7-7.1	205632000	Sandra K. Newberry Robert G. Platt, Jr Linda K. Walker, fka, Linda K. Platt Richard Varkonyi and Sharon Varkonyi, fka, Sharon R Platt, Individually and h/w MM-Marcellus II, LP Kim Coen Seth Lemley and Christina Lemley Peggy L. Martin, widow Consolidation Coal Company, Consol Pennsylvania Coal Company, Reserve Coal Properties Company and Southern Ohio Coal Company	CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8	DB 1468/626 DB 1468/630 DB 1469/138 DB 1474/506 1608/262 1614/140 1612/560 1610/68
					Fee	1300/1

<u>Tract ID</u>	<u>Tax Map & Parcel</u>	<u>Title Opinion QLS #</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
2, 3	1-8-30.1 1-8-31.1 1-8-31.2 1-8-31.3 1-8-31.4 1-8-31.5 1-7-6.1 1-7-7 1-7-7.2 1-7-8.1 1-7-8.2	238382000	Edna M. Bean and Jasper W. Bean, her husband, Fern T. White and Phillip O. White, w/h, and Burnette Thomas, a widow Carl S. Thomas and Anita Thomas, h/w and Lois T. Dallison, a widow CNG Producing Company Dominion Exploration & Production, Inc. CONSOL Gas Company CNX Gas Company, LLC Noble Energy, Inc	CNG Producing Company CNG Producing Company Dominion Exploration & Production, Inc. CONSOL Gas Company CNX Gas Company, LLC Noble Energy, Inc	Not less than 1/8 Not less than 1/8 Merger Merger Merger Assignment Assignment	DB 1068/694 DB 1068/689 AB 118/108 CB 2/424 MB 120/418 AB 113/458 AB 131/339

<u>Tract ID</u>	<u>Tax Map & Parcel</u>	<u>Title Opinion QLS #</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
4	TMP 1-8-28.2	243615000	Thomas Stiles and Linda Stiles, h/w, Douglas Stiles and Lois Stiles, h/w, Charles Stiles and Linda Stiles, h/w, Donald Stiles and Pat Stiles, h/w CNG Producing Company Dominion Exploration & Production, Inc. CONSOL Gas Company CNX Gas Company, LLC Noble Energy, Inc Harold McClure	CNG Producing Company Dominion Exploration & Production, Inc. CONSOL Gas Company CNX Gas Company, LLC Noble Energy, Inc CNX Gas Company, LLC	Not less than 1/8 Merger Merger Merger Assignment Assignment Not less than 1/8	DB 1081/157 AB 118/108 CB 2/424 MB 120/418 AB 113/458 AB 131/339 DB 1501/639

<u>Tax Map & Parcel</u>	<u>Title Opinion QLS #</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>	
5, 6, 7	TMP 1-8-29	204759000	Consolidation Coal Company, Consol Pennsylvania Coal Company, Reserve Coal Properties Company and Southern Ohio Coal Company	CNX Gas Company, LLC	Not less than 1/8	1300/1

<u>Tax Map & Parcel</u>	<u>Title Opinion QLS #</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>	
8	TMP 1-3-16	204757000	Consolidation Coal Company, Consol Pennsylvania Coal Company, Reserve Coal Properties Company and Southern Ohio Coal Company	CNX Gas Company, LLC	Not less than 1/8	1300/1

<u>Tax Map & Parcel</u>	<u>Title Opinion QLS #</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>	
9	TMP 1-8-18	204504000	Edna Dorothy Simpson and Thomas Simpson, her husband, Robert D. Weakley by Edna Dorothy Simpson, his Power of Attorney and Robert Platt, widower CNG Producing Company Dominion Exploration & Production, Inc. CONSOL Gas Company CNX Gas Company, LLC Noble Energy, Inc	CNG Producing Company Dominion Exploration & Production, Inc. CONSOL Gas Company CNX Gas Company, LLC Noble Energy, Inc CNX Gas Company, LLC	Not less than 1/8 Merger Merger Merger Assignment Assignment	DB 1175/242 AB 118/108 CB 2/424 MB 120/418 AB 113/458 AB 131/339

<u>Tax Map & Parcel</u>	<u>Title Opinion QLS #</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>

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4706 101810

10	TMP 1-3-15.1	204497000	Dorothy Hickman, aka Dorothy Thomas Hickman CNG Producing Company Dominion Exploration & Production, Inc. CONSOL Gas Company CNX Gas Company, LLC Noble Energy, Inc	CNG Producing Company Dominion Exploration & Production, Inc. CONSOL Gas Company CNX Gas Company, LLC Noble Energy, Inc CNX Gas Company, LLC	Not less than 1/8 Merger Merger Merger Assignment Assignment	DB 1173/638 AB 118/108 CB 2/424 MB 120/418 AB 113/458 AB 131/339
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Tax Map & Parcel Title Opinion QLS # Grantor, Lessor, etc

11	TMP 1-3-14	204500000	James Edward Taylor & Susan L. Taylor, h/w Earl Lynn Taylor	CNX Gas Company, LLC CNX Gas Company, LLC	<u>Royalty</u> Not less than 1/8 Not less than 1/8	<u>Book/Page</u> DB 1498/690 DB 1498/684
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07/20/2018



Erika Whetstone
Permitting Manager
Work: 724-485-4035
Mobile: 724-317-2224
Email: erikawhetstone@cnx.com

CNX Center
1000 CONSOL Energy Drive
Canonsburg, PA 15317-6506
724-485-4000

4706101810

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

RE: Road Letter WDTN2 Well Pad

To Whom it May Concern:

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

If any further information or correspondence is required, please contact me at (724)485-4035 or ErikaWhetstone@cnx.com.

Sincerely,

A handwritten signature in blue ink that reads 'Erika Whetstone'.

Erika Whetstone
Permitting Manager

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WV Department of
Environmental Protection

07/20/2018

4706 01810

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

Date of Notice Certification: 5-14-18

API No. 47- _____
Operator's Well No. WDTN2IHSM
Well Pad Name: WDTN2

Notice has been given:

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

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>559665.5320</u>
County: <u>Monongalia</u>		Northing: <u>4395206.1650</u>
District: <u>Battelle</u>	Public Road Access: <u>CR 7/23 Sugar Run Road</u>	
Quadrangle: <u>Wadestown</u>	Generally used farm name: <u>Consol</u>	
Watershed: <u>Dunkard Creek</u>		

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

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

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Office of Oil and Gas
MAY 16 2018
WV Department of
Environmental Protection

Required Attachments:

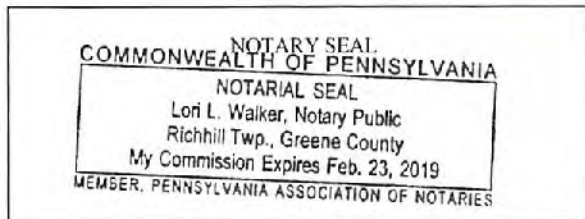
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

07/20/2018

Certification of Notice is hereby given:

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

Well Operator:	<u>CNX Gas Company, LLC</u>	Address:	<u>1000 Consol Energy Drive</u>
By:	<u>Raymond Hoon</u>		<u>Canonsburg, PA 15317</u>
Its:	<u>Permitting Supervisor</u>	Facsimile:	<u></u>
Telephone:	<u>724-485-3540</u>	Email:	<u>RaymondHoon@CNX.com</u>



Commonwealth of Pennsylvania
County of Washington
Subscribed and sworn before me this 14th day of May 2018.
Lori L Walker Notary Public
My Commission Expires February 23, 2019

Oil and Gas Privacy Notice:

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

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Office of Oil and Gas
MAY 16 2018
WV Department of
Environmental Protection

4706 01810

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

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

Date of Notice: 5-14-18 Date Permit Application Filed: 5-15-18

Notice of:

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

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

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

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

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to: RECEIVED
Office of Oil and Gas

SURFACE OWNER(s)
Name: Consol Mining Company LLC
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Name: Consolidation Coal Company
Address: 46226 National Road
St. Clairsville, OH 43950

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: Eakin-Wana Memorial Cemetary Association
Address: PO Box 1200
Hundred, WV 26575

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: See attached
Address: _____

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: See attached
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

MAY 16 2018
WV Department of
Environmental Protection

4706901000

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

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Environmental Protection

Well Location Restrictions

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

07/20/2018

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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Environmental Protection

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

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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WV Department of
Environmental Protection

WW-6A
(8-13)

API NO. 47- -
OPERATOR WELL NO. WDTN2IHSM
Well Pad Name: WDTN2
4706 01810

Notice is hereby given by:

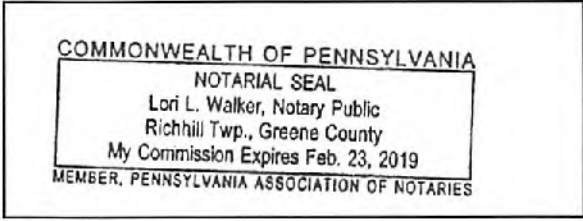
Well Operator: CNX Gas Company, LLC
Telephone: 724-485-3540
Email: RaymondHoon@CNX.com *Raymond Hoon*

Address: 1000 Consol Energy Drive
Canonsburg, PA 15317
Facsimile: _____

Oil and Gas Privacy Notice:

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

*Commonwealth of Pennsylvania
County of Washington*



Subscribed and sworn before me this 14th day of May, 2018.
Lori L. Walker Notary Public
My Commission Expires February 23, 2019

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MAY 16 2018
WV Department of
Environmental Protection

07/20/2018

Coal Owners:

Consolidation Coal Company
46226 National Road
St. Clairsville, Ohio 43950

4706 : 01810

Eastern Royalty Corporation
P. O. Box 1233
Charleston WV, 25324-1233

Reserve Coal Properties Company
1000 Consol Energy, Dr
Canonsburg PA 15317-6506

Suncrest Resources LLC
7 Sheridan Square, Ste. 400
Kingsport, TN 37660-7451

Eastern Associated Coal, LLC
P. O. Box 1233
Charleston WV, 25324-1233

Surface Owner of Water Well and/or Water Purveyor(s):

Brooks Ford LLC
659 Kenwood Pl
Morgantown, WV 26505

Clovis, Wendy & Jeremy
PO Box 95
Wana, WV 26590

Hennen, Riff Allen & Theresa A
8595 Mason Dixon Highway
Wadestown, WV 26590

Johnson, Alexander Clark
8650 Mason Dixon Highway
Wadestown, WV 26590

Wolfpen Knob Development & Co
8248 Mason Dixon Highway
Wadestown, WV 26590

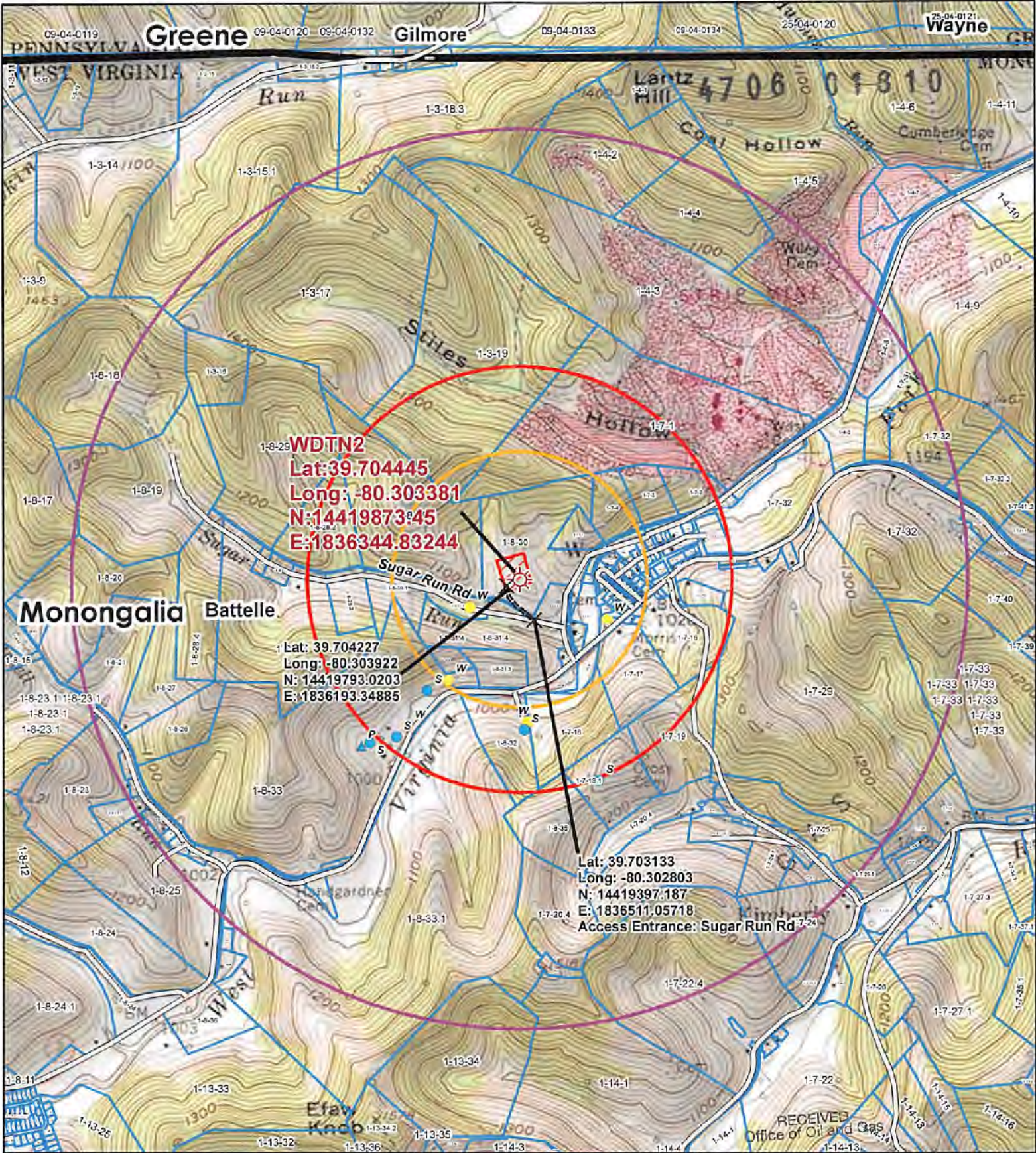
Varner, Warren Jr.
PO Box 14
Wana, WV 26590

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MAY 16 2018

WV Department of
Environmental Protection

07/20/2018



WDTN2
 Lat: 39.704445
 Long: -80.303381
 N: 14419873.45
 E: 1836344.83244

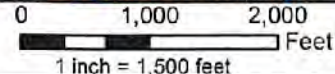
Lat: 39.704227
 Long: -80.303922
 N: 14419793.0203
 E: 1836193.34885

Lat: 39.703133
 Long: -80.302803
 N: 14419397.187
 E: 1836511.05718
 Access Entrance: Sugar Run Rd

Monongalia **Battelle**

Legend

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



MAY 16 2018 **CNX**

Original Date: 5/8/2018

Prepared By: GIS

Revision Date: 5/8/2018

Approved By: GIS

WV Department of Environmental Protection

Topographic Well Map

WDTN2
07/20/2018

This map is property of CNX Land Resources Inc. and contains information that is proprietary and confidential in nature and may not be copied or reproduced without prior written consent.
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4706-01810

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

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

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

Date of Notice: 5-14-18 **Date Permit Application Filed:** 5-15-18

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

- HAND DELIVERY
- CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

Name: Consol Mining Company LLC
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Name: Consolidation Coal Company
Address: 46226 National Road
St. Clairsville, OH 43950

Notice is hereby given:

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

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>559665.5320</u>
County: <u>Monongalia</u>	Northing: <u>4395206.1650</u>
District: <u>Battelle</u>	Public Road Access: <u>CR 7/23 Sugar Run Road</u>
Quadrangle: <u>Wadestown</u>	Generally used farm name: <u>Consol</u>
Watershed: <u>Dunkard Creek</u>	

This Notice Shall Include:

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

Notice is hereby given by:

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

Authorized Representative: <u>Raymond Hoon</u>	<u>RECEIVED</u>
Address: <u>1000 Consol Energy Drive</u>	<u>Office of Oil and Gas</u>
Canonsburg, PA 15317	<u>MAY 16 2018</u>
Telephone: <u>724-485-3540</u>	<u>WV Department of</u>
Email: <u>RaymondHoon@CNX.com</u>	<u>Environmental Protection</u>
Facsimile: _____	

Oil and Gas Privacy Notice:

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

07/20/2018

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

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

Date of Notice: 5-14-18 **Date Permit Application Filed:** 5-15-18

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

- | | |
|--|-------------------------------|
| <input checked="" type="checkbox"/> CERTIFIED MAIL | <input type="checkbox"/> HAND |
| RETURN RECEIPT REQUESTED | DELIVERY |

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

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

Name: Consol Mining Company LLC
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Name: Consolidation Coal Company
Address: 46226 National Road
St. Clairsville, OH 43950

Notice is hereby given:

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

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>559665.5320</u>
County: <u>Monongalia</u>		Northing: <u>4395206.1650</u>
District: <u>Battelle</u>	Public Road Access: <u>CR 7/23 Sugar Run Road</u>	
Quadrangle: <u>Wadestown</u>	Generally used farm name: <u>Consol</u>	
Watershed: <u>Dunkard Creek</u>		

This Notice Shall Include:

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

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

Address: 1000 Consol Energy Drive
Canonsburg, PA 15317
Facsimile: _____

RECEIVED
Office of Oil and Gas

MAY 16 2018

WV Department of
Environmental Protection

Oil and Gas Privacy Notice:

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

STATE OF WEST VIRGINIA **4706-01010**
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL LOCATION RESTRICTION WAIVER

The well operator, CNX Gas Company, LLC is applying for a permit from the State of West Virginia to conduct oil or gas well work. Please be advised that well work permits are valid for twenty-four (24) months.

Well Location Restrictions

Pursuant to West Virginia Code § 22-6A-12(a), Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements.

WAIVER

I, Gail F. Freeland, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 4395211.30
County: Morgan UTM NAD 83 Northing: 5597212.86
District: Battle Public Road Access: Sugar Run Road
Quadrangle: Wadestown Generally used farm name: Consolidation Coal Company
Watershed: Dunkard Creek

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials and I therefore waive all well site restrictions listed under West Virginia Code § 22-6A-12(a).

WELL SITE RESTRICTIONS BEING WAIVED

*Please check all that apply

- EXISTING WATER WELLS
- DEVELOPED SPRINGS
- DWELLINGS
- AGRICULTURAL BUILDINGS

FOR EXECUTION BY A NATURAL PERSON

Signature: Gail F. Freeland
Print Name: GAIL F. FREELAND
Date: JAN. 19-13

FOR EXECUTION BY A CORPORATION, ETC.

Company: _____
By: _____
Its: _____
Signature: _____
Date: _____

Well Operator: CNX Gas Company, LLC
By: Frika Whitstone
Its: Permitting Supervisor

Signature: Gail F. Freeland
Telephone: 724-627-1492



Subscribed and sworn before me this 19th day of January, 2015
Joshua W. Skidmore Notary Public
My Commission Expires Nov. 11, 2019

Oil and Gas Privacy Notice:

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

4706 01810

STATE OF WEST VIRGINIA
COUNTY OF MONONGALIA

On this, the 19th day of January, 2015, before me, a notary public, personally appeared GAIL F. FREELAND, known to me or satisfactorily proven) to be the person whose name is subscribed to the foregoing instrument, and acknowledged that she executed the foregoing instrument for the purpose therein contained.

In witness whereof, I hereunto set my hand and official seal.

(NOTARIAL SEAL)



Joshua W. Skidmore
Joshua W. Skidmore - Notary Public
My Commission expires: November 22, 2019

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Office of Oil and Gas

MAY 16 2018

WV Department of
Environmental Protection



4706 01810

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

May 3, 2018

Jill M. Newman
Deputy Commissioner

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

Subject: DOH Permit for the WDTN2 Pad, Monongalia County
WDTN2IHSU Well Site

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #04-2015-0290 for the subject site to CNX Gas Company LLC, for access to the State Road for the well site located off of Monongalia County Route 7/23 SLS.

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

Very Truly Yours,

RECEIVED
Office of Oil and Gas

MAY 16 2018

WV Department of
Environmental Protection

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

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

07/20/2018

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

Type: Water CAS: 7732-18-5

Type: Silica CAS: 14808-60-7

Type: Hydrochloric Acid CAS: 7647-01-0

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

Type: Petroleum distillate CAS: 64742-47-8

Type: Glutaraldehyde CAS: 111-30-8

Type: Ethylene glycol CAS: 107-21-1

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

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

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

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

Type: Ammonium chloride CAS: 12125-02-9

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

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

Type: Metanol CAS: 67-56-1

Type: Formaldehyde CAS: 50-00-0

Type: Thiourea CAS: 62-56-6

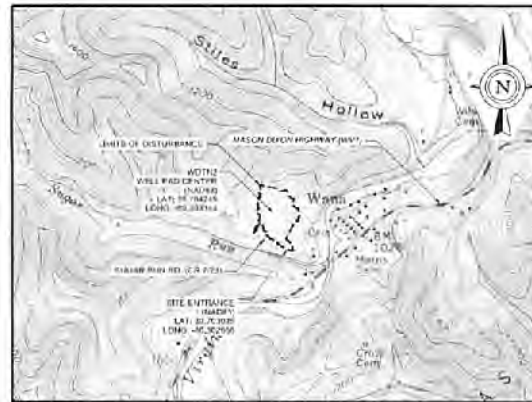
Type: Acetophenone CAS: 98-86-2

EROSION & SEDIMENT CONTROL PLAN & SITE RESTORATION PLAN

WDTN2 WELL SITE

MONONGALIA COUNTY, WEST VIRGINIA

FOR



REFERENCE TO UNITED STATES GEOLOGICAL SURVEY - WATKINS TOWN QUADRANGLE, WEST VIRGINIA, 7.5 MINUTE SERIES



PROJECT NO. 17016-008
MAY 2018



DIEFFENBAUCH & HRITZ

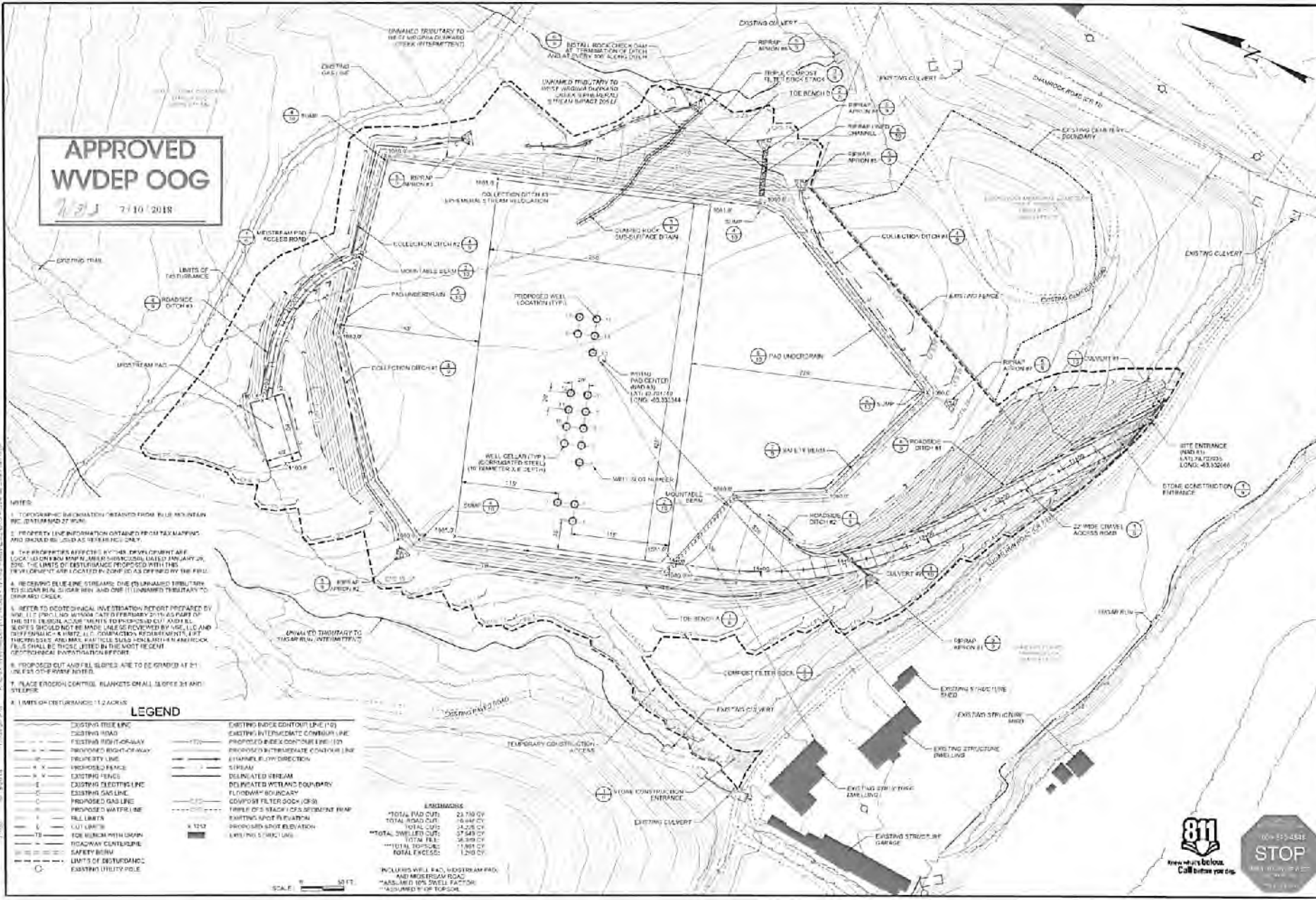


DISTURBANCE BREAKDOWN		
LANDOWNER	DISTURBANCE FROM ACCESS ROAD & STOCKPILES (ACRES)	DISTURBANCE FROM WELL PAD & STOCKPILES (ACRES)
CONSOLIDATED COAL COMPANY TRADERS ROAD DBTC 676742	2.75	8.81
FAKONWANA MEMORIAL CEMETERY ASSOC TRUSTEES TINSPAL 777.1 DBTC 688175	0.04	0.09

INDEX	
DRAWING NO.	TITLE
1	TITLE SHEET
2	GENERAL NOTES
3	EXISTING SITE PLAN
4	SOILS PLAN
5	PROPOSED SITE PLAN
6	ACCESS ROAD PROFILE & CROSS SECTIONS
7	WELL PAD CROSS SECTIONS
8	TOC BENCH DETAILS
9-10	E&S DETAILS
11	SITE RESTORATION PLAN
12	VEGETATION PLAN
13	QUANTITY SUMMARY



APPROVED WVDEP OOG
 7/10/2018



- NOTES:**
1. TOPOGRAPHIC INFORMATION OBTAINED FROM BULL MOUNTAIN REC. DETERMINED 27.50%.
 2. PROPERTY LINE INFORMATION OBTAINED FROM TAX MAPS AND SHOULD BE USED AS GENERAL ONLY.
 3. THE PROPERTIES AFFECTED BY THIS DEVELOPMENT ARE LOCATED ON BULL MOUNTAIN REC. DISTRICT 27.50% AND THE LIMITS OF DISTURBANCE PROPOSED WITH THIS DEVELOPMENT ARE LOCATED BY CONCEPTS SHOWN BY THE FIELD SURVEYORS AND LOCATED BY CONCEPTS SHOWN BY THE FIELD SURVEYORS AND LOCATED BY CONCEPTS SHOWN BY THE FIELD SURVEYORS.
 4. RECORDING BLUE LINE CONTAINS THE UNNAMED TRIBUTARY TO SLOAN BEUL CREEK AND ONE UNNAMED TRIBUTARY TO SHIPWING CREEK.
 5. REFER TO GEOLOGICAL INVESTIGATION REPORT PREPARED BY WVI LTD. FROM LAND SURVEYING COMPANY, INC. AND ALL REPORTS SHOULD NOT BE MADE UNLESS PROVIDED BY WVI LTD. AND DIFFERENTIALS & HRTZ, LLC. CONSTRUCTION REQUIREMENTS LEFT UNCOMPLETED AND NOT BE MADE UNLESS PROVIDED BY WVI LTD. AND DIFFERENTIALS & HRTZ, LLC. CONSTRUCTION REQUIREMENTS LEFT UNCOMPLETED AND NOT BE MADE UNLESS PROVIDED BY WVI LTD. AND DIFFERENTIALS & HRTZ, LLC.
 6. PROPOSED CUT AND FILL SLOPES ARE TO BE GRADDED AT 2:1 UNLESS OTHERWISE NOTED.
 7. PLACE EROSION CONTROL BLANKETS ON ALL SLOPES 2:1 AND STEEPER.
 8. LIMITS OF DISTURBANCE: 11.2 ACRES.

LEGEND

- EXISTING TREE LINE
- EXISTING ROAD
- EXISTING HIGHWAY
- PROPOSED HIGHWAY
- PROPERTY LINE
- PROPOSED FENCE
- EXISTING FENCE
- EXISTING ELECTRIC LINE
- EXISTING GAS LINE
- PROPOSED GAS LINE
- PROPOSED WATER LINE
- WELL LIMITS
- CUT LIMITS
- FILL LIMITS
- FILL WITH USDN
- ROADWAY CENTERLINE
- SAFETY BOUNDARY
- LIMITS OF DISTURBANCE
- EXISTING UTILITY POLE
- EXISTING EDGE/OUTLINE LINE (TYP.)
- EXISTING INTERMEDIATE CONTOUR LINE
- PROPOSED INDEX CONTOUR LINE (TYP.)
- PROPOSED INTERMEDIATE CONTOUR LINE (EXAMPLE, LOW DIRECTION)
- DELIMITED STREAM
- DELIMITED WETLAND BOUNDARY
- FLOODWAY BOUNDARY
- COMPOST FILTER SOCK (CFS)
- TRIPLE TOPS TRAP (TTP) SETPOINT TRAP
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- EXISTING 5' (TYP.) LANE

EXEMPTIONS

TOTAL PAD CUT:	23,780 CY
TOTAL ROAD CUT:	16,844 CY
TOTAL CUT:	40,624 CY
TOTAL SWELLED CUT:	37,543 CY
TOTAL FILL:	36,499 CY
TOTAL TOPSOIL:	11,881 CY
TOTAL EXCESS:	1,290 CY

INCLUDES WELL PAD, WESTSTREAM PAD, AND MOUNTAIN BEAM.
 ASSUMED 10% SWELL FACTOR.
 ASSUMED 1" OF TOPSOIL.

SCALE: 1" = 50 FT

811
 Call before you dig
 800-451-4541
 STOP
 CALL BEFORE YOU DIG
 www.811.org

CNX
 WDN2 WELL SITE
 PROPOSED SITE PLAN
 5

DIEFFENBAUGH & HRTZ, LLC
 1701 S. 2000
 PRODUCE, WV
 P. 304.263.2222
 F. 304.263.2222