

west virginia department of environmental protection

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

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

Friday, October 18, 2019 WELL WORK PERMIT Horizontal 6A / New Drill

CNX GAS COMPANY LLC 1000 CONSOL ENERGY DR CANONSBURG, PA 15370

Re: Permit approval for SHR38PHSM 47-095-02651-00-00

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: Farm Name: U.S. WELL NUMBER: Horizontal 6A Date Issued: 10/18/2019

Promoting a healthy environment.

# **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.



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

CNX Gas Company, LLC 1000 Consol Energy Drive Canonsburg, PA 15370

Pursuant to West Virginia Code §22-6A-8(g)(2), the Office of Oil and Gas hereby grants approval of the September 10, 2019 request by CNX Gas Company, LLC to land apply certain drill cuttings on its SHR38 well pad in Tyler County. This approval is limited to the land application of drill cuttings associated with the drilling of the conductor section of the wellbores for wells with the following API numbers: 47-095-02514, 47-095-02569, 47-095-02570, 47-095-02571, 47-095-02572, 47-095-02648, 47-095-02649, 47-095-02650, 47-095-02651, 47-095-02652, and 47-095-02653.

Drill cuttings covered under this approval must be free of any additives, lubricants, etc. and be composed of only the earthen material removed from the wellbore down to the point at which the conductor casing is installed. No material removed from the wellbore below the base of the conductor casing may be land applied.

This approval is being provided in conjunction with the assertion by CNX Gas Company, LLC, that consent from all owners of the surface of the tract where the SHR38 well pad is located has been obtained and is only valid upon the condition that consent has been obtained.

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ober 1,2019 Date

James A. Martin, Chief Office of Oil and Gas West Virginia Department of Environmental Protection

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Archived: Tucsday, October 1, 2019 2:00:41 PM From: Whetstone, Erika Sent: Tue, 1 Oct 2019 12:40:15 +0000ARC To: Brewer, Charles T; Stansberry, Wade A Subject: [External] SHR38 Revised WW9 forms Importance: Normal Attachments: 4709502514.pdf 709502569.pdf 709502570.pdf 709502571.pdf 709502572.pdf 709502648.pdf 709502649.pdf 709502650.pdf

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#### Good morning,

CNX Gas Company LLC would like to request a modification for wells with APIs 47-095-02514, 47-095-02569, 47-095-02570, 47-095-02571, and 47-095-02572. The purpose for this request is to allow CNX to land apply the soil conductor cuttings on site per DEP approval. Updated WW9 forms are attached to this email.

Similarly, CNX would also like to request a revision to current applications under review for APIs 47-095-02648, 47-095-02649, 47-095-02650, 47-095-02651, 47-095-02652, and 47-095-02653. Updated WW9 forms are attached with a revision to the drill cuttings disposal method.

Please let me know if you have any questions or need anything further.

Thank you, Erìka

Erika Whetstone CNX | Permitting Manager - Infrastructure CNX Center | 1000 CONSOL Energy Drive | Canonsburg, PA 15317 (724) 485-4035 – w | (724) 317-2224 –m

"This communication, including any attachments, may contain confidential and privileged information that is subject to the CNX Resources Corporation Business Information Protection Policy. The information is intended solely for the use of the intended recipient(s). If you are not an intended recipient, you are prohibited from any use, distribution, or copying of this communication. If you have received this communication in error, please immediately notify the sender and then delete this communication in its entirety from your system."

API NO. 47-095 0 9 5 0 2 6 5 1

WW-6B (04/15)

OPERATOR WELL NO. SHR38PHSM

Well Pad Name: SHR38

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

1) Well Opera	tor: <u>CNX G</u>	as Compan	y, LLC	494458046	Tyler	Centervi	West Union
				Operator ID	County	District	Quadrangle
2) Operator's '	Well Number	: SHR38PH	ISM	Weil P	ad Name: SH	1R38	
3) Farm Name	Surface Ow	ner: Ash		Public Ro	oad Access:	Duckworth Ri	dge Road 58/2
4) Elevation, c	urrent groun	d: <u>1026'</u>	El	evation, propose	d post-constru	uction: <u>1012</u>	
5) Well Type	(a) Gas	X	_ Oil	Un	derground Ste	orage	
	Other						
	(b)If Gas	Shallow	X	Deep			
		Horizontal	X				JCB
6) Existing Pa	d: Yes or No	<u>.</u>	Yes				8/23/2019
-	-			ipated Thickness	-		
Target form	ation is Marce	llus Shale @	6447'-649	92' TVD, 45' thick,	expected form	nation pressure	e ~4000 psi
8) Proposed Te	otal Vertical	Depth: 648	0'			<u></u>	
9) Formation a	at Total Verti	cal Depth: 1	Marcellus	s Shale (will not	penetrate O	nondaga)	
10) Proposed 7	Fotal Measur	ed Depth:	13,448'				· · · · · · · · · · · · · · · · · · ·
11) Proposed I	Horizontal Lo	eg Length:	6514'				
12) Approxim	ate Fresh Wa	ter Strata De	pths:	85', 180', 225'			
13) Method to	Determine F	resh Water D	Depths:	Offset water wel	l information	collected dur	ing predrill sampling
14) Approxim						N = 1	
		-		mineable coal	seams; 430'-	432', 480'-48	2'
				ine, karst, other):			
17) Does Prop directly overly	osed well loo	ation contair	n coal sea			No	X
(a) If Yes, pr	ovide Mine I	nfo: Name	:				
(,, <b></b> , <b>.</b> , <b>.</b> .		Depth					
		Seam:					
		Owne					RECEIVED Office of Oil and G
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# 4709502651

API NO. 47-\_095

OPERATOR WELL NO. SHR38PHSM Well Pad Name: SHR38

WW-6B (04/15)

### 18)

## CASING AND TUBING PROGRAM

ТҮРЕ	<u>Size</u> (in)	<u>New</u> or <u>Used</u>	<u>Grade</u>	<u>Weight per ft.</u> (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	CEMENT: <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	20	New	L/S	94.0	80	80	77 / CTS
Fresh Water	13.375	New	J-55	54.5	600	600	417 / CTS
Coal	13.375	New	J-55	54.5	600	600	417 / CTS
Intermediate	9.625	New	J-55	36.0	2600	2600	844 / CTS
Production	5.5	New	P-110	20.0	13448	13448	2485 / TOC @ 2100'
Tubing	2.375	New	J-55	4.7		TBD	N/A
Liners	N/A						
						000	



ТҮРЕ	Size (in)	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (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	13590	~10000 during frac	Class A or H	1.10
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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4709502651

API NO. 47-095

OPERATOR WELL NO. SHR38PHSM Well Pad Name: SHR38

WW-6B (10/14)

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

Utilize conductor rig to set 20" conductor into solid rock and cement back to surface. MIRU drilling rig. Air drill 17-1/2" hole. Run and cement 13-3/8" fresh water/coal casing. Note that the fresh water/coal casing will be set through the named but un-mineable coals in order to isolate sloughing formations and red beds/red shale between the Washington and Waynesburg coals. Air drill 12-1/4" hole. Run and cement 9-5/8" intermediate casing. Air drill 8-3/4" production hole to curve KOP (this section is typically directionally drilled with a slant/tangent profile for anti-collision and for lateral spacing). Displace hole with 12.0-12.8 ppg SOBM. Drill 8-1/2" curve from KOP to landing point. Continue drilling 8-1/2" lateral to TD (geosteer this section to remain in Marcellus target window). Perform clean-up cycle to condition well. Run and cement 5-1/2" production casing. Suspend well and skid to next well or RDMO drilling rig.

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 15.57

22) Area to be disturbed for well pad only, less access road (acres): 6.97

23) Describe centralizer placement for each casing string:

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

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

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

25) Proposed borehole conditioning procedures:

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

AUG 27 2019

\*Note: Attach additional sheets as needed.

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# 47 09 5 0 2 6 5 1

### **<u>Cement Additives</u>**

- Conductor 2% CaCl2
- Freshwater/Coal 2% CaCl2
- Intermediate 2% CaCl2
- Production
  - o 2.6% Cement Extender
  - o 0.7% Fluid Loss Additive
  - o 0.5% High Temperature Retarder
  - o 0.2% Friction Reducer

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HOLE 24*	1012 GL E 341 CASING 20° L/S	and service as	MD	SI	HR-38P-	ISM SHL HSM LP ISM BHL	N 32	0277.27, E 1622455 0493.03, E 1622478	.71 (NAD27)		
HOLE	341 CASING	0	MD								
	CASING		MD	SH	R-38P-H	ISM BHL	NI 220	0000 40 E 4000007			
		GEOLOGY	MD	11.11			N 326652.12, E 1620357.96 (NAD27)				
24*	20" L/S			TVD	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS		
		Conductor	80	80	AIR	To Surface	N/A	N/A	Stabilize surface fill/soil		
		Shallowest Fresh Water		85							
		Deepest Fresh Water		225	1	15.6 ppg Class A	Centralize every other		Set through fresh water zones		
	13-3/8" 54.5#	Washington Coal	1000	430	AIR /	+ 1% to 3% CaCl2 + 1/4 pps Fleke	joint from shoe to	Ensure the hole is clean at	Set through coal zones		
17-1/2*	J-55 BTC	Red Beds		432	FW Mist	20% OH Excess Yield = 1.19	surface	section TD	Cemented to surface		
		Waynesburg Coal		580		TOC @ surface	Bow spring centralizers		No known mineable coal sear		
		FW / Coal Casing	600	600	1						
-		Big Lime		1867	100		0		Set through potential salt water		
		Big Injun		1932			Centralize every 3rd		zones		
12-1/4"	9-5/8* 35.0#	Price		2072 AIR /		+ 1/4 pps Flake			Cemented to surface		
18.27	J-55 LTC	Weir		2232	Soap			at section TD	Casing to be set below the Bi Injun and Berea and into Devor Shale		
		Berea	_			TOC @ surface	Bow spring centralizers				
			2600			and the second second	-		and c		
			-		÷				ĸ		
1.00			-			abrica marka a					
			-		AIR			Once at TD, circulate at max			
	1.00		-		1.000	suspension agent, gas	and an and a second		Note: Actual centralizer placem		
	F 4/28 20 04					lock, detoamer, fluid loss, extender, etc.)	from shoe to TOC	(typically requires multiple	may be changed due to hole conditions		
	P-110CY BPN		-			10% Old Evenes	Cipple picestinid have	bottoms-up)	Mater Astrony and a second state of the		
			-			Yield = 1.10	centralizers	Once on bottom with casing,	Note: Actual cement blends m. vary slightly depending upon		
8-1/2" Curve			-	6407	120-128	TOC @ >= 500' above		hole volume prior to	service company utilized		
& Lateral		Hamilton		6428	ppg SOBM	9-5/8" shoe		pumping cement			
1.1.1.1.1		Marcellus		6447		100000					
- I ii	1	Production Casing	13448	6480			· · · · · · · · · · · · · · · · · · ·				
	8-3/4" Tangent 8-1/2" Curve & Lateral	12-1/4" J-55 LTC 8-3/4" Tangent 5-1/2" 20.0# P-110CY BPN 8-1/2" Curve & Lateral	8-3/4* 5-1/2* 20.0# Middlesex   8-1/2* Curve 5-1/2* 20.0# Middlesex   8-1/2* Curve Funce Bersen	FW/ Coal Casing     600       Big Lime     Big Lime       12-1/4"     9-5/8" 36.0# J-55 LTC     Price       Big Injun     Big Injun       Big Injun     Big Injun       J-55 LTC     Weir       Berea     Intermediate Casing       8-3/4"     Gordon       Tangent     S-1/2" 20.0#       P-10CY BPN     West River       Burkett     District       Burkett     Tully       Atexander     Tully       Burkett     District       Burkett     District       Burkett     District       Burkett     District       Burkett     District	FW / Coal Casing     600     600       Big Lime     1867       Big Lime     1867       Big Injun     1932       9-5/8* 35.0#     Price     2072       Big Injun     1932       J-55 LTC     Weir     2232       Berea     2422       Intermediate Casing     2600       8-3/4*     Gordon     2642       Varren     3337       Benson     4917       Alexander     5162       Cashaqua     6162       P-10CY BPN     West River     6307       Burkett     6377       Burkett     6377       Tully     6407       Atareal     6428       Marcellus     6447       Production Casing     13448	FW/ Coal Casing     600     600       Big Lime     1867       Big Injun     1932       Berea     2422       Intermediate Casing     2600       Soop     2600       Berea     2422       Warren     3337       Benson     4917       AlR     AlR       S-1/2" 20.0#     Middlesex     6267       P-110CY BPN     West River     6307       Burkett     6377     12.0-12.8       Barlot     Marcellus     6447	FW / Coal Casing     600     600       FW / Coal Casing     600     600       Big Lime     1867       Big Injun     1932       P-5/8* 36.0#     Price     2072       AlR /     Soap       J-55 LTC     Weir     2232       Berea     2422       Intermediate Casing     2600       Intermediate Casing     2600       Soap     Gordon       2642     Warren       Warren     3337       Benson     4917       AlR /     Soap       Soap     Yeide 1.19       ToC @ surface     Varren       8-3/4*     Benson       Soap     AlR       Benson     4917       AlR     Middlesex       6162     Cashaqua       5-1/2* 20.0#     Middlesex       Burkett     6307       Burkett     6377       Burkett     6377       Burkett     6377       Burkett     6437       Marcelus     6440	Image: subscript cost     Image: subscript cost	Image: Solution of the second secon		





## SHR38 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 SHR38 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 Producing Formation at Total Depth. See following pages, including (Figures 3 and 4).

The Marcellus Shale of the Shirley area is found at an approximate True Vertical Depth (TVD) of 6500'. In the Shirley area, there are very few producing formations between the Big Injun and the Benson Sand. Most wells are either approximately 2000' or 5000' deep. Although there are a significant number of SOG Communication events in the Shirley area, it is highly unlikely that communication will occur with any wells producing form formations shallower than the Benson Sand, found at an approximate TVD of 5000'. This is based on previous experience and study of SOG Communication with Marcellus fracs throughout Ritchie and Doddridge counties.

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. Both of these reservoirs are primarily depleted, allowing an easier pressure migration throughout these formations. Geomechanical data is collected from dipole sonic logs. CNX's nearest sonic data is from the SHR1C well (Figure 1), immediately north of the SHR38 pad. Frac modeling (Figure 2) of the Marcellus in the area does not show significant upward frac growth. In fact, typical frac height would need to be more than double to reach the Alexander, approximately 1000' above the Marcellus Shale.



Figure 1. Stratigraphic intervals of high stress should serve as adequate confining layers, or frac barriers, for a Marcellus frac, seen below in the SHR1C Stress Profile log.





Figure 2. 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 Marcellus and adjacent shallower shales are lithologically similar to Pennsboro. Frac modeling only yields frac height of approximately 300' and falls far short of the 1000' required to communicate with the Alexander or Benson formations. Therefore, faulting is the primary suspect for upward frac migration.







Figure 3. All wells within 500' buffer around the SHR38 pad have been reviewed and listed below.



# Figure 4. All wells within 500' buffer around the SHR38 pad have been reviewed and listed below.

API			LATITUDE		OPERATOR	STATUS	WELL_NAME	WELL NO	TD	PMTD	ELEVATION
4701702351	WW	Doddridge	39.33791934	-80.82944913	Ritchie Petroleum Corp	Oil and Gas	L G Hammer 2		2396	Weir	990
4701702462	and some of		39.34440133	-80.82341529	Unkrown	not available	Paul Strickling	+	Dodd 2936	Dodd 2936	830
4701702936		Doddridge			Greylock Conventional LLC	Gas	P Strickling 1			Benson	845
4701703058		Doddridge	39.34116734		Greylock Conventional LLC	Gas	Middle Island		5117	Alexander	1039
4701703252		Doddridge	39.33671524		Greylock Conventional LLC	Gas	W & V MtCutcheon		5500	Alexander	1092
4701703585		Doddridge	39.37483806	-80.83367761	Consol Gas	Not Drilled	Never Drilled (Canceled)		not drilled	not drilled	960
4701771437	1	Dodoridge	39.33436122			not available	McCutchan-Haines	1			1135
4701771535		Døddridge	39.33871526			not available	N A Joseph	-	-		977
4709500097		Tyler	39.37191314			Gas	John Ash	1		Big injun (undiff)	941
4709500103		Tyler	39.38803655	and the second se	Lemon, Robert and Betty	Oli and Gas	D D Davis	1		Big Injun (undiff)	945
4709500113		Tyler	39.38780257			Oli and Gas	D D Davis	2		Big Injun (undiff)	830
4709500120		Tyler	39.38944545			Dry w/ Gas Show	W C Pierson / Josephs Mills	1		Squaw	873
4709500123	-	Tyler	39.38858257		JA&MOII and Gas	Oil w/ Gas Show	D D Davis	3		Big Injun (undiff)	B03
4709500208		Tyler	39.39188259			Dry w/ O&G Show	Frank H Ash	1		Price Fm & equivs	927
4709500300		Tyler	39.35951588			Gas	Alexander Doak Heirs	1		Big Injun (undiff)	785
4/03500508		Tyler	the second s	-80.84398493	and an experimental second	Gas	W N Moore			Big injun (undiff)	867
47 0757		Tyler		-80.83071912		Oll and Gas	Delmer Mulvay	1		Berea Ss	760
471 057 0870		Tyler	39.35004941	-80.82286032	Greylock Conventional LLC	Gas	Izetta B Gamer	6		Benson	790
47(	WW	Tyler	39.36557401			Gas	Jacob L Dillon	4		Berea Ss	975
470 .00924		Tyler	39.38475329		Greylock Conventional LLC	Gas	W Paul McCutchen			Alexander	735
4709500955		Tyler	39.3483235		Greylock Conventional LLC	Gas	Jay & Mary Collins			Alexander	883
4709500956		Tyler	39.35286655		Greylock Conventional LLC	Gas	Jay & Mary Collins			Alexander	1028
4709501035		Tyler	39.35339266	Contraction of the second s	Greylock Conventional LLC	Gas	Edwin D Mulvay et ux			Benson	763
4709501101	WV	Tyler	39.37483806	-80.83367761	EQT	Not Urilled	Never Drilled (Canceled)	1		not drilled	960
4709501107	WW	Tyler	39.3568727	-80.83182713	Alliance Petroleum	Gas	Karen Jane Osborne	3		Alexander	763
4709501108	WV	Tyler	39.35687256	-80.82472829	Alliance Petroleum	Gas	Karen Jane Osborne	1	5240	Alesander	978
4709501109	WV	Tyle	39.35759781	-80.837443	Alliance Petroleum	Gas	Karen Jean Osborne	2	5325	Alexander	943
4709501178	WV	Tyler	39.37483806	-80.83367761	Unknown	Not Drilled	Never Drilled (Canceled)	1		not drilled	960
4709501206	WV	Tyler	39.37483806	-80.83367761	Anvil	Not Drilled	Never Drilled (Canceled)	1	not drilled	not drilled	960
4709501226	WV	Tyler	39.3728251	-80.839312	Alliance Petroleum	Dry	Verna O Ash	1	5140	Benson	1013
4709501227	WV	Tyler	39.37455504	-80.83425712	Alliance Petroleum	Gas w/ Oil Show	Verna O Ash	2	5142	Benson	986
4709501234	WV	Tyler	39.37054915	-80,8435089	Alliance Petrofeum	Gas	James E Ash	1	5095	Senson	909
4709501235	WV	Tyler	39.38838857	-80.85052578	Anja Resources	Gas	Geneva Fouts Bullman	1	4890	Benson	812
4709501237	WV -	Tyler	39.37006898	-80.83520209	Alliance Petroleum	Gas	Verna O Ash	E	5157	Benson	1029
4709501238	WV	Tyler	39.37722216	+80.83837803	Alliance Petroleum	Gas	Edna Dillon	1	5129	Benson	957
4709501254	WV	Tyler	39.36731382	-80.82921722	Alliance Petroleum	Gas	Charles Lee Cumberledge	1	5150	Benson	1018
4709501266	wv	Tyler	39.37780228	-80.8441709	Alliance Petroleum	Dry.	David A Preston	1	4858	Benson	747
4709501269	ww	Tyler	39.3808472	-80.83763106	Alliance Petroleum	Gas	Lawrence Mercer	1	5007	Benson	850
4709501283	WV	Tyler	39.38592343	-80.8452929	Alliance Petroleum	Gas	Bruce & Veronica Smith	1	5009	Benson	863
4709501285	WV	Tyler	39.38954841	-80.84062202	Alliance Petroleum	Gas	James C Ferrell	1	5100	Benson	1032
4709501286	WV	Tyler	39.39534969	-80.8505278	Schultz Run Gas Company	Gas w/ Oil Show	Robert II Tennant	1	5005	Велзоп	826
4709501300	WW	Tyler	39.36122369	-80.82790623	Alliance Petroleum	Gas	John 8 Fratt	2	5150	Benson	949
4709501304	WW	Tyler	39.37384024	-80.84585185	Schultz Run Gas Company	Gas	Duane Clark et al		4923	Benson	758
4709501312	WY.	Tyler	39.37483805	-80.83367761	Energy Corporation of America	Not Drilled	Never Drilled (Canceled)	1 m	not drilled	balling ton	960
4709501314	WV	Tyler	39.36107879	-80.83295012	Greylock Conventional LLC	Gas	Charles Daughtery et al	3	5090	Benson	926
4709501318	WV	Tylei	39.36658893	-80.83576207	Greylock Conventional LLC	Gas	Charles Daughtery stal	1	5157	Benson	1012
4709501332	2 WV	Tyler	39.37483806		Energy Corporation of America	Not Drilled	Never Drilled (Canceled)		not drilled	not arilled	960
4709501336	WW	Tyler	39.38535824	·80.83482814	Alliance Petroleum	Gas	Elmer Cecil	1	5069	Benson	956
4709501338		Tyler			Alliance Petroleum	Gas	Timothy N Ingoglia	1	5045	Benson	\$49
4709501350	-	Tyler	39.3857785		Alliance Petroleum	Gas	Ryan J Lind et ux	1	4907	Benson	785
4709501351	WW	Tyler	39.39172362	-80.8499658	Alliance Petroleum	Gas	Robert H Tennant	- 2	5034	Benson	924
4709501382	2 WV	Tyler	39.38563332	-80.83968703	Alliance Petroleum	Gas	Matthew Ash	- 3	5136	Benson	1049
4709501383	-	Tyler	39.38331337		Alliance Petroleum	Gas	Matthew Ash	4	5117	Benson	1027
4709501403	-	Tyler	39.37282494	the second s	Alliance Petroleum	Gas	Conrad Costilow	1-A	2136	Big Injun (oneiff)	975
4709501428		Tyler	39.38070228		Alliance Petroleum	Gas	Lawrence Mercer Hrs	5	5002	Benson	893
4709501486	1	Tyler	39.37152	1	Drilling Appaachian Corp	Dry	Verpa 🛛 Ash	4	2155	Big Injun (undiff)	1035
4709501951		Tyler	39.39563978	the second se	Diversified Resources	Gas w/ Oil Show	Donna Marie Vandine	2	5280	Marcellus Sh	728
4709502245		Tyler	39.37127601				I E Ash et al	SHROBL	not drilled	not drilled	1019
4709530346	1	Tyler	39.38142731			Gas	Lucretta Mercer	2	2101	Squaw	954
4709530650		Tyler		-80.83688306		Gəs	P P Doak		1992	Big Injun (undiff)	972
4709530651		Tyler	the second se	-80.8247173		Gas	A U Davis		1972	Big Injun (undiff)	885
4709530824	-	Tyler		80.83856504		Gas	Lawrence Mercer	1	1904	Squaw	738
4709530855	_	Tyler		-80.83255109		Gas	Wm Smith		1836	Big Injun (undiff)	763
4709530883		Tyler	the second s	-80.84080697		Gas	Martin M Grove	1	2010	Big Injun (undiff)	003
4709570182	_	Tyler	39.37864113			not available	John Mercer	3	1841	Big Injun (undiff)	770
		the second se	and the second second	the second s					1	1	374

(4/16)API Number 47 - 095 - 020 Operator's Well No. SHR38PHSM 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) Headwaters Middle Island Creek Ouadrangle West Union Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes 1 No Will a pit be used? Yes No V 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 88 Underground Injection (UIC Permit Number 47-001-00561, 47-097-01514, 47-097-01613, 34-013-2-0609) **B** Reuse (at API Number SHR37 wells API TBD Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain No Pits 8 Will closed loop system be used? If so, describe: Yes Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Venue at ten tousant the tourn taket portions) Horizontal: synthetic pil-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 Per DEPaparoul, land application of soil Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Longuetter until ces only All other -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. RECEIVED

day of Seis

Office of Oil and Gas

OCT 01 2019

WV Department of Environmental Protection

Company Official Title Manager - Permitting

Company Official (Typed Name) Erika Whetstone

Company Official Signature

Subscribed and sworn before me this

My commission expires 0.3/11/2013

20 19 Commonwealth of Pennsylvania - Notary Seal lotary Pilla M. Micoli, Notary Public Washington County My commission expires March 11, 2023 Commission number 1288863 Member, Pennsylvania Association of Notaries

## CNX Gas Company, LLC

Proposed Revegetation Treatment: Acres Disturbed 15.57	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

Ten	porary	Permanent						
Seed Type Orchard Grass	lbs/acre 25	Seed Type Orchard Grass	lbs/acre 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.

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Plan Approved by:					
					RECEIVED Office of Oil and Gas
					OCT <b>01</b> 2019
					WV Department of Environmental Protection
Title:				Date:	
Field Reviewed?	(	) Yes	(	) No	

Republic Services (Allied S	Const of	-				OVED NON-ILA	and the second second			Contrast to the	LIGHNIGH INS	-23-2010	<i>n</i>		
Industrial Landfills	( DATE )			difie Waste I	Streams				Ither Accepte	d Waste Stream	ns				
Landfill	Location		Dettings	Waste	Waste	Contaminated Soil (Including Petroleum)	Construction &	Industrial Waste	Sludge	Frisbie	Non-Frinble	Process	Solidification	Municipal	
McLean County	Bloomingun	IL	x	x		x	X	X	Y	3300000	Albernos	Waste	Services	Selld Waste	
RC/Coles County	Charleston	IL	x	X	1	X	X	x	X	X	x	X		X	_
Brickyard Dispeaal	Danville	IL	X	x	1000	X	X	X	x	x	Ŷ	x		X	4
outhern Illinois Regional	De Soto	IL.		1	1				-				1	X	1
ee County	Dixon	IL	x	x		X	X	x	x	Y	x	W		X	1
Ipper Rock Island	East Moline	IL.	x	x		X	x	X	X	-	A	X		x	1
Bond County	Greensville	IL	X	X		X	X	X	x	÷	x	X		x	-
llinois	Heepeston	IL.	x	x		X	X	X	x	-		X		x	
andComp	LaSalle	п.	X	x		X	x	Y	Ŷ	- 0	-	X		x	and the second second second
.itchfield-Hillsboro	Litchfield	IL	X	x		x	X	x	X	A .	A	X		X	317-921-1667 or 480-627-2700
invirontech	Morris	IL	X	X	Contraction of the local division of the loc	X	x	x	X	A	X	X		x	1-800-634-0215
ivingtion	Pontiac	IL.	X	X		X	x	x	x	×	x	X		X	
loxaat	Roxana	IL	X	x	100 m	X	X	- A		-	x	X		X	
Sanzamon Valle	Sminefield	IL	x	X	1	X	x		X	X	x	X	X	X	
Jenson Valley	Frankfort	KY		X	1	x		x	X	X	x	X		X	
She Ridge	Irvinc	KY		X	1.0	x	Ŷ	X	X	X	X	x		X	
forchead	Morchead	KY	x	X		x			X	X	X	x		x	1
ireen Valley	Rush	KY	X	X		x	<u>^</u>	X	X	X	X	x		x	1
berokee Run	Bellefontaine	OH		-	-	x	X	<u>X</u>	x	X	X	X	X	X	1
Villiams County	Bryan	OH			-	X	X	X	X	-	X	X		x	
County Environmental	Carcy	OH				x	X	X	x	X	X	x		x	1
Celina	Celina	OH				X	X	X			X	x	1	x	1
arbon-Limestone**	Lowellville	OH	x	X	-		X	X	X	1	X	X		x	
Countervide Landfill**	East Scorts	OH	x	x		X	X	x	X	1		x	x		Jack Palenno:
crain County	Oberlin	OH	^	^		X	x	X	1				1	X	
Jakland Marsh	Shiloh	OH				X	x	X	X			X	1	X	work: 330-536-8013
Operial	Imperial	PA		-			x	X	x	X	X			X	cell: 330-806-9660
Conestoria	Morgantown	PA			- and	×	X	X	X	X	X	-		X	A
Irunswick	Lawrenceville	VA				X	X		x	X	X	X		X	
ung and Queen	Little Plymouth	VA				X	X	X	x	X	X	X			
Id Deminion	Richmond				1000	X	X	X	x	X	X	x		Y	
vcamore	Hurricane	VA			-	X	X	X	X	x	x	X		Ŷ	
hort Creek						X	X	X	X	100.000		X			
after Valley	Wheeling (Short Creek) Church Hill	WV	X	X	1	X	X	X	x			x			

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

WV Department of Environmental Protection

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Waste Management Industrial Landfills			Gas Spe	cific Waste	Streams				Other Accepta	d Waste Stree	mi				
Landfill	Location		Drill * Cuttings	Waste	Waste	Contaminated Soll	Construction &	Indestrial	Sludge	Friable	Non-Frishle	Protess	Solidification	Municipal	Contact Information
Arden Landfill	Washin ton	IPA		Liners	Brine	(Including Petroleum)	Demolition Waste	Weste	Sinage	Asbestos	Asbestos	Waste	Services		Store Colore ac
South Hills (Arnoni	South Park	PA		x		X	X	X	X		THEOLETON		Services	Solid Weste	
Celly Run	Elizabeth	PA	X	X			X	X	x	1.0		X	X	X	
alley Landfill	lovin	PA	x			x	X	X	X				X	X	
wergroen Landfill	Blairsville	PA		X	1	x	X	X	X	X	X	X	X	X	
harleston Landfill		FA	x	X	-	x	X	X	~		A	X	X	X	
Karawha County	Charleston	WV	x	X		x			-	-				X	-Soott Allen: 412-604-2256
Meadowfill Lendfill	Brideepert	1100				~	x	X	x			x		x	
orthwestern Landfill	Parkersbury	WV		X	-	x	X	Y	x	v	-			A	
S&S Gradin : Landfill	Clarksburg	WV	X	X		X	X	2	~	X	X	x	X	X	
merican Landfill		WV		X	-	X	X	-	A			x	X	X	
seburban RDF	Wasnesburg	011		X	1.1	x	Y		A	-		x		X	
oshocton Landfill***	Glenford	OH:	X	x	and the second second	X	Ŷ		X	X	X	x	X	X	
	Coshoctan	OH	X	x		Y		A.	X	X	X	X	X		Patty Landol: 262-532-8001
Haboning Landfill	New Springfield	OH.	X	X	-	2	A	X						x	John Miller: 1-800-963-4776
								X			X	.X	-	X	
dditional Landfills		1	Gas Spec	fic Weste S	treams										
1.1.1.1		-			2			(	other Accepted	Waste Stream	nz				
Landfill Vestmoreland Waste	Location	_	Cuttings	Waste	Brine	Contaminated Soll (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Studge	Friable	Non-Friable	Process	Solidification		Contact Information
WILC Group)	Belle Vemon, PA 15012	PA	x	x		x	x	X		Asbestos	Asbestos	Waste	Services	Solid Waste	1 mm - m
AX Environmental	200 Max Drive,	+	-					~	x	x	X		X		Mike Home: 412-552-1427
where Facility	Bulger, PA 15019	PA	x	x	1	x					-		1		Mark Thomas: 724-929-7694
AX Environmental	233 MAX Lane	+ +				~	x	x	x				v		
Ikon Facility	Yuken PA 1:698	PA	x	x		x	x	*			-		X	x	Carl Spadare: 412-343-4900
Contra 1 1911					and the second se		•		x						cell- d12_d45_0780

WWI.C Group)	The conner many	PA	X	x					Statistics of Cashington		44.8226	SELAICER	Solid Waste	the second se
AX Environmental	Belle Vemon, PA 15012 200 Max Drive,	PA	x	-	x	x	x	x	x	x		x	x	Mike Horne: 412-552-4427 Mark Thomas: 724-929-7694
AX Environmental	233 MAX Lane	PA	×	x	x	x	x	x				x	x	
skon Facility	Yukan PA 15698	PA	x	x	x	x	x					^		Carl Spadare: 412-343-4900
ex Sanitary landfill	11 County Road 78 Amsterdam, Ohio 43903	OII	x	x	x	x	-	x			-	x	x	cell: 412-445-9789
mpke, Mt. Sterling	30 Larison Rd, Jeffersonville, KY 40337	KY	x	x	x	x	x	x		1	1	x	x	Joe Teterick: 740-275-2887 Joet a cls-company.com
rel Ridge Landfill	3612 E State Highway	KY				~	x		x	x			x	Carl Waher: 513-623-2471
aste Connections of KY	557 1 By, KY 40745	A.F	x	x	x	x	x		x	x	x		x	Brace Crouch: Work: 605-864-7995
	Chestnet Valley 1184 McClellandtown Rd, McClellandtown, PA 15458	PA	x	x	x	x	x	x		1		1	x	Cell: 606-219-0261
Advanced Disposal	Greentree Landfill; 635 Toby Rd.; Kessey, PA	PA	x	x	x	x	x	x				-	6184 Route 219, Brod	Tony Labenne 6184 Route 219, Brockway, PA 15824
1	Mostoller Landfill; 7035 Glades Pike Rd.; Somerset, PA	PA	x	x	x	x	x	x					x	\$14-590-9906 -
**	Ohio TENORAC - manine	Dedia	- 10000											
***	Accepts drilling wastes but	profile	for dispos	anaryns by load bef	are leaving the well pad. Solid upfeced.	waste landfills in O	hio can only acce	TENORM W	aste with combin	nel concentratio	n less than 1 of	manufact mart and	-	
X	Waste stream accepted by f	icility.			durent.				and the state of		a come more o be	cucantas per gra	in above the nat	ural background level.
Notes:					ectility directly to verify was pending, start facility directly to verify									

\* Drill Cuttings include fran send for the purpose of this table (Contact facility directly to verify waste streams accepted).

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WV Department of Environmental Protection

# FLOW CHART MUD AND SLURRY DEWATERING RECOMMENDED RIG UP



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# SHR 38 PHSM PAGE 2 OF 2

-	SURFACE OWNER	LESSOR	DIST-TM/PAR	
1	JAMES E. ASH ET AL	VERNA O. ASH, JAMES E. ASH AND THELMA B. ASH, BESSIE HAUGHT AND HAROLD WARNER ERNEST G. SECKMAN AND O. JOANNE SECKMAN	P/0 1-16/19	
	DIANA L. BOGER	RALPH E. PHILLIPS AND VELINDA PHILLIPS H/W EDNA DILLON SAMUEL DAVID DILLON AND DONNA L. DILLON, H/W	P/0 1-16/18	
		HOWARD D. SPURLOCK AND MARIAN E. SPURLOCK, H/W EDITH M. DOAK PEARL G. MCINTYRE		
		PAUL NCINTYRE KERMIT MCINTYRE AND RUTH MCINTYRE, H/W SHEILA L. GUY EDITH W. MCINTYRE		
	WILLIAM D. & MARY C. DANIELS	GARY W. AND DEBRA J. DAVIS RUBY N. SPENCER AND FRED A. NICHOLS AND LAURA L. NICHOLS, H/W IRO NICHOLS	1-16/2.1	
		Mona WRIGht Ralph Sherwood Wanda Schauer		
		CONRAD COSTILOW WILLIAM N. DANIELS AND MARY C. DANIELS, H/W	P/0 1-16/2	
2	WILLIAM D. & MARY C. DANIELS KENNETH G. WRIGHT TRUST KENNETH G. WRIGHT, TRUSTEE	FRANKLIN L. WERCER AND WART C. DANIELS, H/W FRANKLIN L. WERCER AND RUTH L. MERCER, H/W AND FRANKLIN L. MERCER, ATTORNEY-IN-FACT FOR ROGER N. MERCER AND GLORIA MERCER, H/W DELORES ROSSI	1-16/1	
		LUTHER ROGERS AND ANITA ROGERS, H/W MARIE MERCER		
		HARLEY EDWIN SPENCER AND ALICE RUTH SPENCER, H/W THE KENNETH G. WRIGHT TRUST, DATED 12/21/2010, BY KENNETH G. WRIGHT, TRUSTEE		
	KENNETH G. WRIGHT TRUST KENNETH G. WRIGHT, TRUSTEE	FRANKLIN L. MERCER AND RUTH L. MERCER, H/W AND FRANKLIN L. MERCER, ATTORNEY-IN-FACT FOR ROGER N. MERCER AND GLORIA MERCER, H/W DELORES ROSSI	1-13/13.4	
		LUTHER ROGERS AND ANITA ROGERS, H/W MARE MERCER HARLEY EDWIN SPENCER AND ALICE RUTH SPENCER, H/W		
		FORREST JENKINS AND EVA JENKINS, H/W, FOREST JENKINS, ATTORNEY-IN-FACT FOR THE FOLLOWING: CARL JENKINS, BETTY JENKINS, STELLA DEAN JENKINS, ZETTA ASH, ALICE HAUGHT AND THOMAS HAUGHT ZETTA F. ASH		
		CARL JENKINS AND BETTY JENKINS, H/W STELLA DEAN JENKINS ALICE HAUGHT		
		ALFRED COTTRILL, INDIMIDUALLY AND AS ATTORNEY-IN- FACT FOR RENNA FOX BARBARA BALLOU BAKER		
		KAYVONNE PASULKA CHARLES H. BALLOU AND LOIS M. BALLOU, H/W STEVEN E. BALLOU AND LINDA M. BALLOU, H/W		
	KENNETH G. WRIGHT TRUST C/O KENNETH G. WRIGHT, TRUSTEE	FRANKLIN L. MERCER AND RUTH L. MERCER, H/W AND FRANKLIN L. MERCER, ATTORNEY-IN-FACT FOR ROGER N. MERCER AND GLORIA MERCER, H/W DELORES ROSSI	1-13/13.3	
		LUTHER ROGERS AND ANITA ROGERS, H/W MARIE MERCER HARLEY EDWIN SPENCER AND ALICE RUTH SPENCER, H/W FORREST JENKINS AND EVA JENKINS, H/W, FOREST JENKINS, ATTORNEY-IN-FACT FOR THE FOLLOWING:		
		CARL JENKINS, BETTY JENKINS, STELLA DEAN JENKINS, ZETTA ASH, ALICE HAUGHT AND THOMAS HAUGHT ZETTA F. ASH CARL JENKINS AND BETTY JENKINS, H/W STELLA DEAN JENKINS		SURFACE HOLE LOCATION UTM 17-NAD83 N:4358041.74 E:514183.63 NAD83, WV NORTH
		ALICE HAUGHT ALFRED COTTRILL, INDIVIDUALLY AND AS ATTORNEY-IN- FACT FOR REINA FOX BETTY E. MORENSON LAREN L. MORENSON		N:320312.251 E:1591014.769 LAT/LON DATUM-NAT LAT:39'22'18.21
		LARRY J. MCCAW AND JOETTE B. MCCAW, H/W KITTY MIESIAK, FKA, KITTY BOND ROY DEAN ASH JANICE J. WAGENER, FKA, JANICE L. MAY		LON:80'50'07.21
		JANICE J. WAGERICH, FRA, JANICE L. MAT MARY FRANCES CARPENTER JAMES E. BRAMHALL CHARLES H. BALLOU AND LOIS M. BALLOU, H/W JUDY S. WETZEL, FRA, JUDY THACKER		APPROX. LANDING POIL UTM 17-NAD83 N:4358107.59 E:514189.48
		BARBARA BALLOU BAKER KAYVONNE PASULKA STEVEN E. BALLOU AND LINDA M. BALLOU, H/W		NAD83, WV NORTH N:320528.015 E:1591037.558 LAT/LON_DATUM-NA
	LAWRENCE DEAN MOORE & JULIE ANN MARKLE		1-13/11	LAT:39'22'20.35

APPROX\_LANDING\_POINT UTM\_17-NADB3 N:4358107.59 E:514189.48 NADB3\_W\_NORTH N:320528.015 E:1591037.558 LAT/LON\_DATUM-NADB3 LAT:39'22'20.352" LON:80'50'06.961" BOTTOM HOLE LOCATION (BHL) BUILDIN HILLE LUXAILON (B) UTM 17-NAD83 N:4359973.17 E:513512.07 NAD83, WV NORTH N:326687.061 E:1588916.817 LAT/LON DATUM-NAD83 LAT:39'23'20.908" LON:80'50'35.137"

THRASHER CIVIL- ENVIRONMENTAL- CONSULTING- FIELD SERVICES 800 WHITE OAKS BOULEVARD, BRIDGEPORT, WV-20330 PHONE (204) 624-3108-FAX (204) 524-7631

JULY 3, 2019



# SHR 38 PHSM PAGE 2 OF 2

	SURFACE OWNER	LESSOR	DIST-TM/PAR	
1 5	JAMES E. ASH ET AL	VERNA O. ASH, JAMES E. ASH AND THELMA B. ASH, BESSIE HAUGHT AND HAROLD WARNER ERNEST G. SECKMAN AND O. JOANNE SECKMAN	P/0 1-16/19	
		RALPH E. PHILLIPS AND VELINDA PHILLIPS H/W	Long of the state	
6	JAMES E. ASH ET AL DIANA L. BOGER WILLIAM D. & MARY C. DANIELS WILLIAM D. & MARY C. DANIELS KENNETH G. WRICHT TRUST KENNETH G. WRICHT, TRUSTEE KENNETH G. WRICHT TRUST KENNETH G. WRICHT, TRUSTEE	EDNA DILLON SAMUEL DAMD DILLON AND DONNA L. DILLON, H/W HOWARD D. SPURLOCK AND MARIAN E. SPURLOCK, H/W EDITH M. DOAK PEARL G. MCINTYRE PAUL MCINTYRE PAUL MCINTYRE KERMIT MCINTYRE AND RUTH MCINTYRE, H/W SHEILA L. GUY	P/0 1-16/18	
-		EDITH W. MCINTYRE		
7	WILLIAM D. & MARY C. DANIELS	GARY W. AND DERRA J. DAVIS RUBY N. SPENCER AND FRED A. NICHOLS AND LAURA L. NICHOLS, H/W IRO NICHOLS MONA WRIGHT RALPH SHERWOOD WANDA SCHAUER CONUDA COSTUCION	1-16/2.1	
11	WILLIAM D & MARY C DANIELS	CONRAD COSTILOW WILLIAM N. DANIELS AND MARY C. DANIELS, H/W	P/0 1-16/2	
12		FRANKLIN L. MERCER AND RUTH L. MERCER, H/W AND FRANKLIN L. MERCER, ATTORNEY-IN-FACT FOR ROCER N. MERCER AND GLORIA MERCER, H/W DELORES ROSSI LUTHER ROGERS AND ANITA ROGERS, H/W MARIE MERCER HARLEY EDWIN SPENCER AND ALICE RUTH SPENCER, H/W THE KENNETH G. WRIGHT TRUST, DATED 12/21/2010,	1-16/1	
15	KENNETH & WRIGHT TRUST KENNETH & WRIGHT	BY KENNETH G. WRIGHT, TRUSTEE FRANKLIN L. MERCER AND RUTH L. MERCER, H/W	1-13/13.4	
17	KENNETH G. WRIGHT TRUST C/O KENNETH G.	AND FRANKLIN L. MERCER, ATTORNEY-IN-FACT FOR ROGER N. MERCER AND GLORIA MERCER, H/W DELORES ROSSI LUTHER ROGERS AND ANITA ROGERS, H/W MARIE MERCER HARLEY EDMIN SPENCER AND ALICE RUTH SPENCER, H/W FORREST JENKINS AND EVA JENKINS, H/W, FOREST JENKINS, ATTORNEY-IN-FACT FOR THE FOLLOWING: CARL JENKINS, BETTY JENKINS, STELLA DEAN JENKINS, ZETTA ASH, ALICE HAUGHT AND THOMAS HAUGHT ZETTA F. ASH CARL JENKINS AND BETTY JENKINS, H/W STELLA DEAN JENKINS ALICE HAUGHT ALFRED COTTRILL, INDMOUALLY AND AS ATTORNEY-IN- FACT FOR RENNA FOX BARBARA BALLOU BAKER KAYYONNE PASULKA CHARLES H. BALLOU AND LOIS M. BALLOU, H/W STEVEN E. BALLOU AND UNDA M. BALLOU, H/W	1-13/13.3	
	WRIGHT, TRUSTEE	AND FRANKLIN L. MERCER, ATTORNEY-IN-FACT FOR ROGER N. MERCER AND GLORIA MERCER, H/W DELORES ROSSI LUTHER ROGERS AND ANITA ROGERS, H/W MARIE MERCER HARLEY EDWIN SPENCER AND ALCE RUTH SPENCER, H/W FORREST JENKINS AND EVA JENKINS, H/W, FOREST JENKINS, ATTORNEY-IN-FACT FOR THE FOLLOWING: CARL JENKINS, BETLY JENKINS, STELLA DEN JENKINS, ZETTA ASH, ALCE HAUGHT AND THOMAS HAUGHT ZETTA F. ASH CARL JENKINS AND BETTY JENKINS, H/W STELLA DEAN JENKINS ALICE HAUGHT ALFRED COTTRILL, INDVIDUALLY AND AS ATTORNEY-IN- FACT FOR RENNA FOX BETTY E. MORRISON LARRY J. MCCAW AND JOETTE B. MCCAW, H/W KITTY MIESIAK, FKA, KITTY BOND ROY DEAN ASH JANCE J. WAGENER, FKA, JANICE L. MAY MARY FRANCES CARPENTER JAMES E. BRAMHALL CHARLES H. BALLOU AND LOIS M. BALLOU, H/W JUDY S. WETZEL, FKA, JUDY THACKER BARDARA BALLOU BAKER KAYVONNE PASULKA		
		STEVEN E. BALLOU AND LINDA M. BALLOU, H/W		
27	LAWRENCE DEAN MOORE & JULIE ANN MARKLE	MARY J. MOORE	1-13/11 1-13/13	
	LAWRENCE DEAN MOODE & ILLE ANN MADUE	MARY J. MOORE		

APPROX LANDING POINT UTM 17-NAD83 N:4358107.59 E:514189.48 NAD83. WY NORTH N:320528.015 E:1591037.558 LAT/LON DATUM-NAD83 LAT:39'22'20.352" LON:80'50'06.961" BOTTOM HOLE LOCATION (BHL) UTM 17-NAD83 N:4359973.17 E:513512.07 NAD83. WV NORTH N:326687.061 E:1588916.817 LAT/LON DATUM-NAD83 LAT:39'23'20.908" LON:80'50'35.137"

SURFACE HOLE LOCATION (SHL) UTM 17-NAD83 N:4358041.74 E:514183.63

E:514183.63 NAD83, WV NORTH N:320312.251 E:1591014.769 LAT/LON DATUM-NAD83 LAT:39'22'18.216" LON:80'50'07.210"

APPROX. LANDING POINT

09 502651

7

1RAS 5HER ľ CIVIL- ENVIRONMENTAL-CONSULTING- RELO SERVICES 500 WHITE CAXS BOULEVARD, BRIDDEPORT, WV 20330 PHONE (304) 524-4103-FAX (304) 524-7031

JULY 3, 2019

WW-6A1 (5/13) Operator's Well No. SHR38PHSM

### 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 ATTACHEE

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

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

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

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

Well Operator:	CNX GAS COMPANY LLC
By:	ERIKA WHETSTONE Crula Stunden
Its:	PERMITTING MANAGER

Page 1 of

# 47 0 9 5 0 2 6 5 1

#### Attachment - Form WW-6A-1 for SHR 38 PHSM

Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
			Verna O. Ash, James E. Ash and Theima B. Ash, Bessle Haught and Harold			
1	1-16-19	258998000	Warner, Ernest G. Seckman and O. Joanne Seckman	Drilling Appelachian Corporation	Not less than 1/8	269/571
			Ralph E. Phillips and Velinda Phillips, h/w	Drilling Appalachian Corporation	Not less than 1/8	271/103
				Dominion Appalachian Development Properties,		
			Drilling Appalachian Corporation	шс	Assignment	322/190
			trining Appelection Corporation	CONSOL Gas Appalachian Development	Assignment	322/230
			Developing Appendix Development Descention 11C		Maaraa	384/191
			Dominion Appalachian Development Properties, LLC	Properties LLC	Merger	•
			CONSOL Gas Appalachian Development Properties LLC	CONSOL Gas Reserves Inc.	Merger	384/191
			CONSOL Gas Reserves Inc.	CONSOL Gas Company	Merger	384/191
			CONSOL Gas Company	CNX Gas Company LLC	Merger	384/191
			CNX Gas Company LLC	Noble Energy Inc.	50% Assignment	388/286
			Noble Energy Inc.	CNX Gas Company LLC	50% Assignment	542/134
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
Total ID	Tax Map &	Title Opinion	•	Constant Lancas and	Dever in a	Book/Pege
Tract ID	Parcel	<u>QL5 #</u>	Grentor, Lessor, etc	Granteo, Lessee, etc	Royalty	poor/rele
			Verna O. Ash, James E. Ash and Theima B. Ash, Bessle Haught and Harold			
5	1-16-19	258998000	Warner, Ernest G. Seckman and O. Joanne Seckman	Drilling Appelachian Corporation	Not less than 1/8	269/571
			Raiph E. Phillips and Velinda Phillips, h/w	Drilling Appalachian Corporation	Not less than 1/8	271/103
				Dominion Appalachian Development Properties,		
			Drilling Appalachian Corporation	uc	Assignment	322/190
				CONSOL Gas Appalachian Development		
			Dominion Appalachian Development Properties, LLC	Properties LLC	Merger	384/191
			CONSOL Gas Appalachian Development Properties LLC	CONSOL Gas Reserves Inc.	Merger	384/191
			CONSOL Gas Reserves Inc.	CONSOL Gas Company	Merger	384/191
			CONSOL Gas Keserves Inc.	CNX Gas Company LLC	Merger	384/191
			CNX Gas Company LLC	Noble Energy Inc.	50% Assignment	388/286
			Noble Energy Inc.	CNX Gas Company LLC	50% Assignment	542/134
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
Tract ID		Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
6	<u>Parcel</u> 1-16-18		Edna Dillon	Drilling Appalachian Corporation	Not less than 1/8	271/604
	1-10-10	100009000		Drilling Appelechien Corporation	Not less than 1/8	273/276
			Samuel David Dillon and Donna L. Dillon, h/w	• • •	-	
			Howard D. Spurtock and Marian E. Spurtock, h/w	Drilling Appelechian Corporation	Not less than 1/8	273/97
			Edith M. Doak	Drilling Appalachian Corporation	Not less than 1/8	273/93
			Pearl G. Mdntyre	Drilling Appalachian Corporation	Not less than 1/8	273/95
			Paul Mcintyre	Drilling Appalachian Corporation	Not less than 1/8	273/112
			Kermit Mcintyre and Ruth Mcintyre, h/w	Drilling Appalachian Corporation	Not less than 1/8	273/110
			Sheila L. Guy	Drilling Appalachian Corporation	Not less than 1/8	273/274
			Edith W. Mcintyre	Drilling Appalachian Corporation	Not less than 1/8	271/608
				Dominion Appalachian Development Properties,		
			Drilling Appalachian Corporation	uc	Assignment	322/190
				CONSOL Gas Appalachian Development	•	
			Dominion Appalachian Development Properties, LLC	Properties LLC	Merger	384/191
			CONSOL Gas Appalachian Development Properties LLC	CONSOL Gas Reserves Inc.	Merger	384/191
			CONSOL Gas Reserves Inc.	CONSOL Gas Company	Merger	384/191
						384/191
			CONSOL Gas Company	CNX Gas Company LLC	Merger	
			CNX Gas Company LLC	Noble Energy Inc.	50% Assignment	388/285
			Noble Energy Inc.	CNX Gas Company LLC	50% Assignment	542/134
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
			Drilling Appalachian Corporation	Antero Resources Corporation	Assignment	421/138
				CNX Gas Company LLC		425/701
			Antero Resources Corporation	Noble Energy, Inc.	Assignment	427/564
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
			······			
Tears ID	Tex Map &	Title Opinion	Contas Incon etc.	Grantes lauras ats	Royalty	Book/Pege
Tract (D	Parcel	<u>QIS #</u>	<u>Grantor, Lessor, etc</u>	Grantee, Lessee, etc		
7	1-16-2.1	258992000	Gary W. and Debra J. Davis	Drilling Appalachian Corporation	Not less than 1/8	272/218
-			Ruby N. Spencer and Fred A. Nichols and Laura L. Nichols, h/w	Drilling Appalachian Corporation	Not less than 1/8	272/210
			Iro Nichols	Drilling Appalachian Corporation	Not less than 1/8	272/208
			Mona Wright	Drilling Appelachian Corporation	Not less than 1/8	272/238
			Ralph Sherwood	Drilling Appalachian Corporation	Not less than 1/8	272/235
			• • • • • • • • • • • • • • • • • • • •	Drilling Appalachian Corporation		272/295
			Wanda Schauer		Not less than 1/8	
			Drilling Appalachian Corporation	Antero Resources Corporation	Assignment	421/130
				CNX Gas Company LLC		425/701
			Antero Resources Corporation	Noble Energy, Inc.	Assignment	427/564
			Noble Energy Inc.	CNX Gas Company LLC	50% Assignment	513/299
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
			Conrad Costilow	Noble Energy, Inc.	Not less than 1/8	485/168
			Noble Energy Inc.	CNX Gas Company LLC	50% Assignment	513/299
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
Tract ID		Title Opinion	Grantor, Lessor, etc	Grantee, Lassee, etc	Royalty	Book/Page
	Parcel	<u>Q15 #</u>				
11	1-16-2	258987000	William N. Daniels and Mary C. Daniels, h/w	Noble Energy, Inc.	Not less than 1/8	449/537
			Noble Energy Inc.	CNX Gas Company LLC	50% Assignment	473/216
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273

# 47 09 5 0 2 6 5 1

Tract (D	<u>Tax Map &amp;</u> <u>Parcel</u>	<u>Title Opinion</u> QLS #	Granior, Lessor, erc	<u>Grantee, Lessee, etc</u>	Royalty	Book/Page
			Franklin L. Mercer and Ruth L. Mercer, h/w and Franklin L. Mercer,			
12	1-16-1	258983000	Attomey-in-Fact for Roger N. Mercer and Gloria Mercer, h/w	Anvil Oil Company	Not less than 1/8	273/506
			Delores Rossi	Anvil Oil Company	Not less than 1/8	273/426
			Luther Rogers and Anita Rogers, h/w	Anvil Oil Company	Not less than 1/8	273/424
			Marie Mercer	Anvil Oil Company	Not less than 1/8	273/422
			Harley Edwin Spencer and Alice Ruth Spencer, h/w	Anvil Oil Company	Not less than 1/8	271/645
			Anvil Oil Company	Dominion Appalachian Development, Inc.	Assignment	323/383
			Dominion Appalachian Development, Inc.	Dominion Appalachian Development, LLC	Name Change	WVSOS
				CONSOL Gas Appalachian Development		
			Dominion Appalachian Development, LLC	Properties LLC	Merger	384/191
			CONSOL Gas Appalachian Development Properties LLC	CONSOL Gas Reserves Inc.	Merger	384/191
			CONSOL Gas Reserves Inc.	CONSOL Gas Company	Merger	384/191
			CONSOL Gas Company	CNX Gas Company LLC	Merger	384/191
			CNX Gas Company LLC	Noble Energy Inc.	SO% Assignment	388/286
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
				• • •	-	-
			The Kenneth G. Wright Trust, dated 12/21/2010, by Kenneth G. Wright,			
			Trustee	Noble Energy, Inc.	Not less than 1/8	492/302
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
Transf (D)	Tax Map &	Title Opinion	Creates Larges ate	Grantes Larges ats	Pounts:	Book/Page
Trect (D	Parcel	<u>QLS #</u>	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	DOOMPERC
			Franklin L. Mercer and Ruth L. Mercer, h/w and Franklin L. Mercer,			
15	1-13-13.4	259030000	Attorney-in-Fact for Roger N. Mercer and Gloria Mercer, h/w	Anvil Oil Company	Not less than 1/8	273/506
			Delores Rossi	Anvil Oil Company	Not less than 1/8	273/426
			Luther Rogers and Anita Rogers, h/w	Anvil Oil Company	Not less than 1/8	273/424
			Marle Mercer	Anvil Oil Company	Not less than 1/8	273/422
			Harley Edwin Spencer and Alice Ruth Spencer, h/w	Anvil Oil Company	Not less than 1/8	271/645
			Forrest Jenkins and Eva Jenkins, h/w, Forrest Jenkins, Attorney-in-Fact			
			for the following: Carl Jenkins, Betty Jenkins, Stella Dean Jenkins, Zetta			
			Ash, Alice Haught and Thomas Haught	Anvil Oil Company	Not less than 1/8	274/244
			Zetta F. Ash	Anvil Oil Company	Not less than 1/8	275/331
			Carl Jenkins and Betty Jenkins, h/w	Anvil Oil Company	Not less than 1/8	275/488
			Stella Dean Jenkins	Anvil Oll Company	Not less than 1/8	275/486
			Alice Haught	Anvil Oil Company	Not less than 1/8	275/484
			Alfred Cottrill, Individually and as Attorney-In-Fact for Renna Fox	Anvil Oil Company	Not less than 1/8	274/242
			Anvil Oil Company	Dominion Appalachian Development, Inc.	Assignment	323/383
			Dominion Appalachian Development, Inc.	Dominion Appalachian Development, LLC	Name Change	wvsos
				CONSOL Gas Appalachian Development	·····•	
			Dominion Appalachian Development, LLC	Properties LLC	Merger	384/191
			CONSOL Gas Appalachian Development Properties LLC	CONSOL Gas Reserves Inc.	Merger	384/191
			CONSOL Gas Reserves Inc.	CONSOL Gas Company	Merger	384/191
			CONSOL Gas Company	CNX Gas Company LLC	Merger	384/191
			CNX Gas Company LLC	Noble Energy Inc.	50% Assignment	388/286
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
			-		-	
			Barbara Ballou Baker	Noble Energy, Inc.	Not less than 1/8	520/415
			Keyvonne Pasulka	Noble Energy, Inc.	Not less than 1/8	520/407
			Charles H. Ballou and Lois M. Ballou, h/w	Noble Energy, Inc.	Not less than 1/8	524/371
	•		Steven E. Ballou and Linda M. Ballou, h/w	Noble Energy, inc.	Not less than 1/8	534/276
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	542/147
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
				• •	-	
Tract (D	Tax Map &	Title Opinion	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
Harrie .	Parcel	<u>QL5 #</u>	diamon perior etc	Statistics Frankling	<b>HOTAK</b>	
			Franklin L. Mercer and Ruth L. Mercer, h/w and Franklin L. Mercer,			
17	1-13-13.3	259037000	Attomey-in-Fact for Roger N. Mercer and Gloria Mercer, h/w	Anvil Oil Company	Not less than 1/8	273/506
			Delores Rossi	Anvil Oil Company	Not less than 1/8	273/426
			Luther Rogers and Anita Rogers, h/w	Anvil Oil Company	Not less than 1/8	273/424
			Marie Mercer	Anvil Oil Company	Not less than 1/8	273/422
			Harley Edwin Spencer and Alice Ruth Spencer, h/w	Anvil Oil Company	Not less than 1/8	271/645
			Forrest Jenkins and Eva Jenkins, h/w, Forrest Jenkins, Attorney-in-Fact			
			for the following: Carl Jenkins, Betty Jenkins, Stella Dean Jenkins, Zetta		•	
			Ash, Alice Haught and Thomas Haught	Anvil Oli Company	Not less than 1/8	274/244
			Zetta F. Ash	Anvil Oil Company	Not less than 1/8	275/331
			Carl Jenkins and Betty Jenkins, h/w	Anvil Oil Company	Not less than 1/8	275/488
			Stella Dean Jenkins	Anvil Oil Company	Not less than 1/8	275/486
			Alice Haught	Anvil Oil Company	Not less than 1/8	275/484
			Alfred Cottrill, Individually and as Attorney-In-Fact for Renna Fox	Anvil Oil Company	Not less than 1/8	274/242
			Anvil Oil Company	Dominion Appalachian Development, Inc.	Assignment	323/383
			Dominion Appalachian Development, Inc.	Dominion Appalachian Development, LLC	Name Change	WVSO5
				CONSOL Gas Appalachian Development		
			Dominion Appalachian Development, LLC	Properties LLC	Merger	384/191
			CONSOL Gas Appalachian Development Properties LLC	CONSOL Gas Reserves Inc.	Merger	384/191
			CONSOL Gas Reserves Inc.	CONSOL Gas Company	Merger	384/191
			CONSOL Gas Company	CNX Gas Company LLC	Merger	384/191
			CNX Gas Company LLC	Noble Energy Inc.	50% Assignment	388/286
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
			Dates F. Mandaan	Noble France In-	Not form there is the	100 true
			Betty E. Morrison	Noble Energy, Inc.	Not less than 1/8	486/536
			Larry J. McCaw and Joette B. McCaw, h/w	Noble Energy, Inc.	Not less than 1/8	487/14
			Kitty Mlesiak, fka, Kitty Bond	Noble Energy, Inc.	Not less than 1/8	498/629
			Roy Dean Ash	Noble Energy, Inc.	Not less than 1/8	486/538
			Janice J. Wagener, fka, Janice L. May	Noble Energy, Inc.	Not less than 1/8	485/675
			Mary Frances Carpenter	Noble Energy, Inc.	Not less than 1/8	485/677
			James E. Bramhall	Noble Energy, Inc.	Not less than 1/8	503/68
			Charles H. Bellou and Lois M. Bellou, h/w	Noble Energy, Inc.	Not less than 1/8	524/377
			Judy S. Wetzel, fka, Judy Thacker	Noble Energy, Inc.	Not less than 1/8	482/777
			Barbara Ballou Baker	Noble Energy, Inc.	Not less than 1/8	520/413
			Kayvonne Pasulka	Noble Energy, Inc.	Not less than 1/8	520/409
			Steven E. Bellou and Linda M. Bellou, h/w	Noble Energy, Inc.	Not less than 1/8	534/274
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	521/80
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273

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fract ID	Tax Map & Parcel	Title Opinion	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
27	1-13-11	258984000	Mary J. Moore	Chesterfield Energy Corporation	Not less than 1/8	270/27
			Chesterfield Energy Corporation	Anvil Oil Company	Assignment	277/59
			Anvil Oil Company	Dominion Appalachian Development, Inc.	Assignment	323/383
			Dominion Appalachian Development, Inc.	Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development	Name Change	WVSOS
			Dominion Appalachian Development, LLC	Properties LLC	Merger	384/191
			CONSOL Gas Appalachian Development Properties LLC	CONSOL Gas Reserves Inc.	Merger	384/191
			CONSOL Gas Reserves Inc.	CONSOL Gas Company	Merger	384/191
			CONSOL Gas Company	CNX Gas Company LLC	Merger	384/191
			CNX Gas Company LLC	Noble Energy Inc.	50% Assignment	388/286
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
ract ID	Tax Map & Parcel	Title Opinion QL5 #	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
28	1-13-13	and the second	Mary J. Moore	Chesterfield Energy Corporation	Not less than 1/8	270/27
			Chesterfield Energy Corporation	Anvil Oil Company	Assignment	277/69
			Anvil Oil Company	Dominion Appalachian Development, Inc.	Assignment	323/383
			Dominion Appalachian Development, Inc.	Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development	Name Change	WV505
			Dominion Appalachian Development, LLC	Properties LLC	Merger	384/191
			CONSOL Gas Appalachian Development Properties LLC	CONSOL Gas Reserves Inc.	Merger	384/191
			CONSOL Gas Reserves Inc.	CONSOL Gas Company	Merger	384/191
			CONSOL Gas Company	CNX Gas Company LLC	Merger	384/191
			CNX Gas Company LLC	Noble Energy Inc.	50% Assignment	368/286
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273





Erika Whetstone Permitting Manager 1000 Consol Energy Dr. Canonsburg, PA 15317 (724) 485-4035

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

RE: Road Letter – SHR38 Well Pad Drilling Applications

To Whom It May Concern:

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

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

Sincerely,

Erika Whetstone Permitting Manager

### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE CERTIFICATION</u>

Date of Notice Certification: 7/23/19

API No. 47- 095	
<b>Operator's Well No</b>	SHR38PHSM
Well Pad Name: S	HR38

#### 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:	WEST VIRGINIA	UTM NAD 83	Easting:	514183.6320	-
County:	TYLER	UTMINAD 83	Northing:	4358041.7400	
District:	CENTERVILLE	Public Road Acc	ess:	DUCKWORTH RIDGE ROAD	
Quadrangle:	WEST UNION	Generally used f	arm name:	ASH	
Watershed:	MIDDLE ISLAND CREEK				

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 successful the applicant.

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: *PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
□ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SURVEY WAS CONDUCTED	RECEIVED
■ 3. NOTICE OF INTENT TO DRILL or DINOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED
WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION	RECEIVED
<b>5.</b> PUBLIC NOTICE	RECEIVED
■ 6. NOTICE OF APPLICATION	□ RECEIVED

### **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.

SHR38AHSM WW-6AC (1/12)

# 47 09 5 0 2 6 5 1

#### Certification of Notice is hereby given:

### THEREFORE, I ERIKA WHETSTONE

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

Well Operator:	CNX GAS COMPANY LLC	Address:	1000 CONSOL ENERGY DRIVE
By:	ERIKA WHETSTONE	LITE	CANONSBURG PA 15370
Its:	PERMITTING MANAGER	Facsimile:	
Telephone:	724-485-4035	Email:	ERIKAWHETSTONE@CNX.COM
G My commission Commiss	NOTARY SEAL of Pennsylvania - Notary Seal Valker, Notary Public ireene County nexpires February 23, 2023 sion number 1260781 vlvania Association of Notaries	Subscriber and swo	simberore matching 23 day of July 2019. Lugelle Notary Public spires Feltuary 23, 2023

#### **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.

WW-6A (9-13)

API NO.	47- 095	09	5	0	2	6	5	1
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Well Pad Name: SHR38

### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

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

Date of Notice: 7/23/19 Date Permit Application Filed: 7/	23	19
Notice of:		

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

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

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

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

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

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: SEE ATTACHED	Name: SEE ATTACHED
Address:	Address:
Name:	COAL OPERATOR
Address:	Name:
	Address:
□ SURFACE OWNER(s) (Road and/or Other Disturbance)	
Name:	SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
	Name: SEE ATTACHED
Name:	Address:
Address:	
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name:	Address:
Address:	
	*Please attach additional forms if necessary

API NO. 47-09 0 2 6 5 1 OPERATOR WELL NO. SHR38PHSM Well Pad Name: SHR38

### Notice is hereby given:

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

#### This Notice Shall Include:

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

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

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

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

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

#### 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
WW-6A (8-13) 4709502651 API NO. 47-095

OPERATOR WELL NO. SHR38PHSM Well Pad Name: SHR38

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

### Water Well Testing:

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

### Water Testing Laboratories:

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

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

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

### Written Comment:

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

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

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.

WW-6A (8-13) 47 09 5 0 2 6 5 1 API NO. 47- 095

OPERATOR WELL NO. SHR38PHSM Well Pad Name: SHR38

#### 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-

<u>Permits/Pages/default.aspx</u> 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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OPERATOR WELL NO. SHR38PHSM Well Pad Name: SHR38

Notice is h	ereby given by:
Well Operat	or: CNX GAS COMPANY LLC Cula & UAd
Telephone:	724-485-4035
Email: ERIKA	WHETSTONE@CNX.COM

Address: 1000 CONSOL ENERGY DRIVE	
CANONSBURG, PA 15317	
Facsimile:	

## Oil and Gas Privacy Notice:

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

Lori L. Walker, Notary Public Greene County
My commission expires February 23, 202 Commission number 1260781 Member, Pennsylvania Association of Notarie

Common weal	the fernsyl	vania
Common Waal County of Was Subscribed and sworn befo	shurty on	f Only 2019.
Subscribed and sworn before	bre me this 21 day o	
- You of	udiller	Notary Public
My Commission Expires_	February	23, 2023

# 47 0 SHR98H512 6 5 1

# Surface Owners:

Estate of James Eli Ash, c/o Robert Bruce Ash, Executor	7717 Summerset Drive Apex, NC 27539
Bradley James Ash 🔍	2073 Duckworth Ridge Road Alma, WV 26320
Bryan Ervin Ash	8707 Middle Island Road Alma, WV 26320
Robert Bruce Ash	7717 Summerset Drive Apex, NC 27539
William Brent Ash	102 Heather Court Saint Robert, MO 65584
Paula Marie Keplinger	240 Conaway Run Road Alma, WV 26320
Pamela Kay Moore 🛛 🔪	2450 Stockton Road Frankfort, KY 40601
Becannray LLC	5042 Tyler Highway Sistersville, WV 26175
Nicole Eastham	34973 State Route 800 New Matamoras, OH 45767
Alexandria Fetty	34973 State Route 800 New Matamoras, OH 45767
Rachelle Hise	37559 State Route 7 Sardis, OH 43946
Potts Place LLC	353 Foundry Street New Martinsville, WV 26155
STS Enterprises LLC	659 Jefferson Run Road Alma, WV 26320
Bessie Warner	771 McElroy Creek Road Alma, WV 26320

# Coal Owners:

Estate of James Eli Ash, c/o Robert Bruce Ash, Executor	7717 Summerset Drive Apex, NC 27539		
Bradley James Ash	2073 Duckworth Ridge Road Alma, WV 26320		
Bryan Ervin Ash	8707 Middle Island Road Alma, WV 26320		
Robert Bruce Ash	7717 Summerset Drive Apex, NC 27539		
William Brent Ash /	102 Heather Court Saint Robert, MO 65584		
Paula Marie Keplinger	240 Conaway Run Road Alma, WV 26320		
Pamela Kay Moore	2450 Stockton Road Frankfort, KY 40601		
Becannray LLC	5042 Tyler Highway Sistersville, WV 26175		

# 4709502651

Nicole Eastham	34973 State Route 800 New Matamoras, OH 45767
Alexandria Fetty	34973 State Route 800 New Matamoras, OH 45767
Rachelle Hise	37559 State Route 7 Sardis, OH 43946
Potts Place LLC	353 Foundry Street New Martinsville, WV 26155
STS Enterprises LLC	659 Jefferson Run Road Alma, WV 26320
Bessie Warner	771 McElroy Creek Road Alma, WV 26320
Ralph E Phillips	6411 Veterans Highway New Martinsville, WV 26155

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

ASH, JAMES E 8707 MIDDLE ISLAND RD ALMA WV 26320

ANDERS, JOHN R II 804 PETERS RUN RD WHEELING WV 26003

COSTILOW, CONRAD 13310 MIDDLE ISLAND RD WEST UNION WV 26456



## 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: \_\_\_\_\_\_\_ Date Permit Application Filed: \_\_\_\_\_\_\_

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

HAND	=	CERTIFIED MAIL
DELIVERY		RETURN RECEIPT REQUESTED

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

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

Name: SEE ATTACHED	Name:
Address:	Address:

#### Notice is hereby given:

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

State:	WEST VIRGINIA	UTM NAD 83	asting:	514183.6320	_
County:	TYLER	UTMINAD 85 No	orthing:	4358041.7400	_
District:	CENTERVILLE	Public Road Access		DUCKWORTH RIDGE ROAD	
Quadrangle:	WEST UNION	Generally used farm	name:	ASH	
Watershed:	MIDDLE ISLAND CREEK				

#### This Notice Shall Include:

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

#### Notice is hereby given by:

Well Operator:	CNX GAS COMPANY LLC	Authorized Representative:	ERIKA WHETSTONE
Address:	1000 CONSOL ENERGY DRIVE	Address:	1000 CONSOL ENERGY DRIVE
CANONSBURG PA	15370	CANONSBURG PA 15370	
Telephone:	724-485-4035	Telephone:	724-485-4035
Email:	ERIKAWHETSTONE@CNX.COM	Email:	ERIKAWHETSTONE@CNX.COM
Facsimile:		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 <u>depprivacyofficer@wv.gov</u>.

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# Surface Owners:

Estate of James Eli Ash, c/o Robert Bruce Ash, Executor	7717 Summerset Drive Apex, NC 27539
Bradley James Ash	2073 Duckworth Ridge Road Alma, WV 26320
Bryan Ervin Ash	8707 Middle Island Road Alma, WV 26320
Robert Bruce Ash 🛛 🔨	7717 Summerset Drive Apex, NC 27539
William Brent Ash	102 Heather Court Saint Robert, MO 65584
Paula Marie Keplinger 📏	240 Conaway Run Road Alma, WV 26320
Pamela Kay Moore	2450 Stockton Road Frankfort, KY 40601
Becannray LLC	5042 Tyler Highway Sistersville, WV 26175
Nicole Eastham	34973 State Route 800 New Matamoras, OH 45767
AlexandriaFetty 🔪	34973 State Route 800 New Matamoras, OH 45767
Rachelle Hise	37559 State Route 7 Sardis, OH 43946
Potts Place LLC	353 Foundry Street New Martinsville, WV 26155
STS Enterprises LLC	659 Jefferson Run Road Alma, WV 26320
Bessie Warner 🔍	771 McElroy Creek Road Alma, WV 26320

## 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: 7/23/19 Date Permit Application Filed: 7/23/19

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

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

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

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

(at the address listed in the records of the sheriff at the time of notice):

Name: SEE ATTACHED	Name:
Address:	Address:

#### Notice is hereby given:

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

State:	WEST VIRGINIA	LITMANAD 82 Ea	sting:	514183.6320	
County:	TYLER	UTM NAD 83 No	orthing:	4358041 7400	
District:	CENTERVILLE	Public Road Access;	Public Road Access:		
Quadrangle:	WEST UNION	Generally used farm name:		ASH	
Watershed:	MIDDLE ISLAND CREEK				

#### This Notice Shall Include:

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

Well Operator:	CNX GAS COMPANY LLC	Address:	1000 CONSOL ENERGY DRIVE	
Telephone:	724-485-4035		CANONSBURG PA 15370	
Email: ERIKAWHETSTONE@CNX.COM		Facsimile:		

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WW-6A5 Notice of Planned Operations

# 4709502651

SHR38HSM

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Surface Owners:
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# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

June 28, 2019

Byrd E. White, III Secretary of Transportation

> Jimmy Wriston, P. E. Deputy Secretary/ Acting Commissioner

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

Subject: DOH Permit for the SHR-38 Pad, Tyler County SHR38PHSM Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2018-0331 issued to CNX Gas Company LLC, for access to the State Road for a well site located off Tyler County Route 58/2 SLS.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE 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 October 1, 2018.

Very Truly Yours,

Gary K. Clayton

Gary K. Clayton, P.E. Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Shannon Miller CNX Gas Company LLC CH, OM, D-6 File

E.E.O./AFFIRMATIVE ACTION EMPLOYER

# 4709502651

# 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: 7	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	3		
Type: Ethylene glycol CAS: 107-21-1	L		
Type: Diethylene glycol mono n-butyl	ether CAS: 112-34-5		
Type: Oleic acid diethanolamide	CAS: 93-83-4		
Type: Alcohols, C12-16, ethoxylatedCAS: 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			



