

#### west virginia department of environmental protection

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

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

Friday, 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 SHR38IHSM 47-095-02648-00-00

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: SHR38IHSM

Farm Name: JAMES E. ASH ET AL U.S. WELL NUMBER: 47-095-02648-00-00

Horizontal 6A New Drill Date Issued: 10/18/2019



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James A. Martin Chief

Operator's Well Number: SHR38IHSM

Farm Name: JAMES E. ASH ET AL U.S. WELL NUMBER: 47-095-02648-00-00

Horizontal 6A New Drill Date Issued: 10/18/2019

Promoting a healthy environment.

API Number:	

# 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.

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- 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.

API Number:	

# 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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Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452 Austin Caperton, Cabinet Secretary www.dep.wv.gov

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.

James A. Martin, Chief

Office of Oil and Gas

West Virginia Department of Environmental Protection

late

Promoting a healthy environment.

Archived: Tuesday, 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 709502651.pdf 709502652.pdf 709502653.pdf

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and are expecting the content. -- WV Office of Technology

#### 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 47-095-02649, 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, Erika

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 -	4. 5.
OPERATOR WELL NO.	SHR38IHSM
Well Pad Name: SHR38	3

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

					· 1 - · · · · · · · · · · · · · · · · ·		·
1) Well Operate	or: CNX G	as Compan	y, LLC	494458046	Tyler	Centervill	West Union
				Operator ID	County	District	Quadrangle
2) Operator's W	Vell Number	: SHR38IHS	SM	Well P	ad Name: Sh	1R38	
3) Farm Name/	Surface Ow	ner: Ash		Public Re	oad Access: [	Duckworth Rid	ge Road 58/2
4) Elevation, cu	rrent ground	d: <u>1026'</u>	E	levation, propose	d post-constru	action: 1012'	
5) Well Type	(a) Gas Other	X	Oil _	Un	derground Sto	orage	
	(b)If Gas	Shallow	X	Deep		· · · · · · · · · · · · · · · · · · ·	00=
		Horizontal	X				JCB
6) Existing Pad	: Yes or No		Yes				8 <b>/2</b> 3/2019
				cipated Thickness 92' TVD, 45' thick,			~4000 psi
8) Proposed To	tal Vertical	Depth: 6480	)'				
9) Formation at	Total Verti	cal Depth: N	/larcellu:	s Shale (will not	penetrate Or	ondaga)	
10) Proposed To	otal Measur	ed Depth: 1	6,949'				
11) Proposed H	orizontal Le	g Length: 9	414'				
12) Approxima	te Fresh Wa	ter Strata Dep	oths:	85', 180', 225'			
13) Method to I 14) Approximat			_	Offset water well	l information	collected durin	ng predrill sampling
15) Approximat	te Coal Sean	n Depths: No	known	mineable coals	seams; 430'-4	432', 480'-482	,
16) Approximat	e Depth to l	Possible Void	(coal m	ine, karst, other):	None antici	pated	
17) Does Propo directly overlyin				ms Yes		No	X
(a) If Yes, pro	vide Mine I	nfo: Name:			·		RECEIVED
		Depth:					Office of Oil and O
		Seam:					AUG 2 7 201
		Owner:	:				WV Department

API NO. 47- 095

OPERATOR WELL NO. SHR38IHSM

Well Pad Name: SHR38

18)

# **CASING AND TUBING PROGRAM**

ТҮРЕ	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	L/S	94.0	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	16949	16949	3287 / TOC @ 2100'
Tubing	2.375	New	J-55	4.7		TBD	N/A
Liners	N/A						

)*CB* 8/23/2019

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	24	0.375	N/A	N/A	Type 1	1.18
Fresh Water	13.375	17.5	0.380	2730	<500	Class A	1.19
Coal	13.375	17.5	0.380	2730	<500	Class A	1.19
Intermediate	9.625	12.25	0.352	3520	<2815	Class A	1.19
Production	5.5	8.75 x 8.5	0.361	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:		BECEIVED Office of Oil and Gas

WV Department of Environmental Protection

WW-6B	,
(10/14)	

API NO. 47095	<i>š</i>
OPERATOR WELL NO.	SHR38IHSM
Well Pad Name: SHR:	38

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 to pumping cement.

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\*Note: Attach additional sheets as needed.

8/23/2019

WV Department of Page 3 of 3

## **Cement Additives**

- 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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JUL 2 4 2019

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## DRILLING WELL PLAN

SHR-38I-HSM (Marcellus HZ) Marcellus Shale Horizontal

	100								Tyler Co	ounty, WV		
						SI	HR-381-H	ISM SHL	N 3	20271.4, E 1622436	5.8 (NAD27)	
Ground Elevation 1012 GL Elevation					SHR-38I-HSM LP				N 319760.5, E 1620351.29 (NAD27)			
Azimuth WELLBORE DIAGRAM			341	0		SH	HR-381-H	ISM BHL		8661.24, E 1617286		
		HOLE	CASING	GEOLOGY	MD	TVD	MUD	CEMENT	CENTRALIZERS CONDITIONING		COMMENTS	
		24"	20" L/S	Conductor	80	80	AIR	To Surface	N/A	N/A	Stabilize surface fill/soil	
	1111	-		Shallowest Fresh Water		85						
1001	1100			Deepest Fresh Water		225	1	15.6 ppg Class A			and Anthroper	
	1100		13-3/8" 54 5#	Washington Coal		430	AIR/	+ 1% to 3% CaCl2	Centralize every other joint from shoe to		Set through fresh water zones Set through coal zones	
1111		17-1/2*	J-55 BTC	Red Beds		432	FW Mist	+ 1/4 pps Flake 20% OH Excess Yield = 1.19 TOC @ surface	surface  Bow spring centralizers	Ensure the hole is clean at section TD	Cemented to surface  No known mineable coal seams	
1001 10	1100			Waynesburg Coal		580						
1001	1100			FW / Coal Casing	600	600	1					
1.0				Big Lime	200	1867		15.6 ppg Class A + 0% to 2% CsCl2 + 1/4 pps Flake 20% OH Excess Yield = 1.19 TOC @ surface	Centralize every 3rd joint from shoe to surface Bow spring centralizers			
101	110			Big Injun		1932	AIR / Scap			1 - 7	Set through potential salt water	
101	111	12-1/4*	9-5/8* 36.0# J-55 LTC	Price		2072				Soap the hole as needed and ensure the hole is clean at section TD	comes Cemented to surface Casing to be set below the Big Injuri and Berea and into Devonlen Shale	
100	77			Weir		2232						
100				Berea		2422						
16				Intermediate Casing	2600	2600						
	1			Gordon		2642						
- 11				Warren		3337						
		8-3/4*	1	Benson		4917	AIR	15.0 ppg Class A or H				
		Tangent	l [	Alexander		5162	AIR	with additives (retarder.		Once at TD, circulate at max flowrate with max rotation		
H	181			Cashaqua		6162		suspension agent, gas block, defoamer, fluid	Centralize every joint	until shakers clean-up	Note: Actual centralizer placement may be changed due to hole	
	N.		5-1/2" 20.0#	Middlesex		6267		loss, extender, etc.)	from shoe to TOC	(typically requires multiple bottoms-up)	conditions	
10			P-110CY BPN	West River		6307		10% OH Excess	Single-piece/rigid bow		Note: Actual cement blends may	
	11			Burkett		6377		Yield = 1.10	centralizers	Once on bottom with casing, circulate a minimum of one	vary slightly depending upon	
		8-1/2" Curve		Tully		6407	12.0-12.8	TOC @ >= 500' above		hole volume prior to	service company utilized	
		& Lateral		Hamilton		6428	ppg SOBM	9-5/8* shoe		pumping cement		
				Marcellus		6447						
- 11				Production Casing	16949	6480						

2019

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P@ +/- 6480' TVD
P@ +/- 6480' TVD
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8-3/4" x 8-1/2" Hole - Cemented Long String 5-1/2" 20.0# P-110CY BPN (API Modified BTC)

+/- 9414' Lateral

TD @ +/- 6480' TVD



## 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).

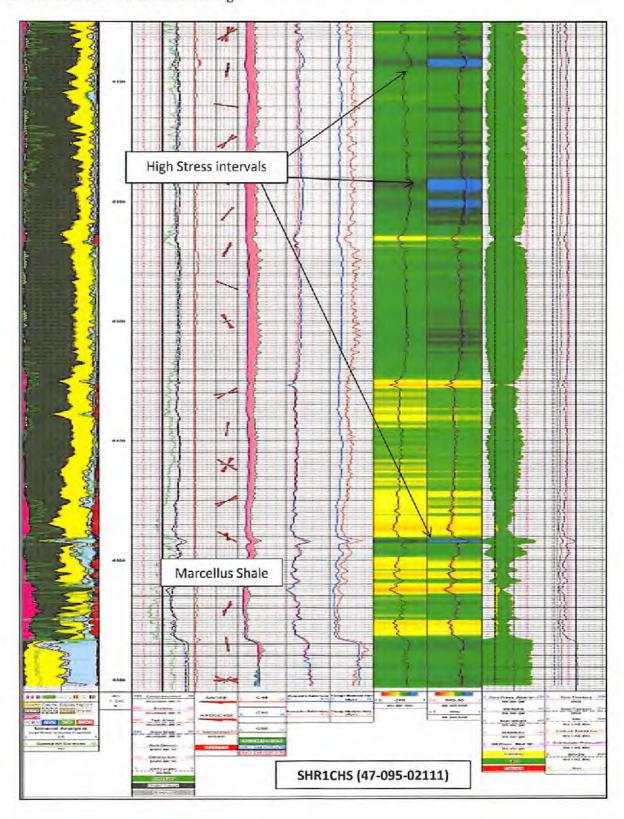
The Marcellus Shale of the Shirley area is found at an approximate True Vertical Depth (TVD) of 6500'. In the Shirley area, there are very few producing formations between the Big Injun and the Benson Sand. Most wells are either approximately 2000' or 5000' deep. Although there are a significant number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



# SHR38 Pad Frac SOG Review / CRSD Review Thursday, November 8, 2018

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.







SHR38 Pad Frac SOG Review / CRSD Review Thursday, November 8, 2018

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.

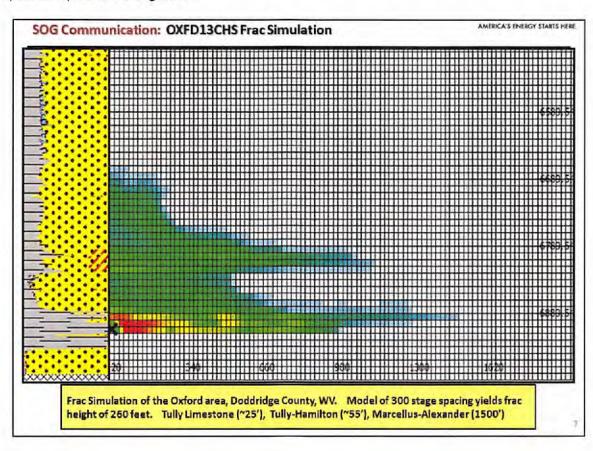
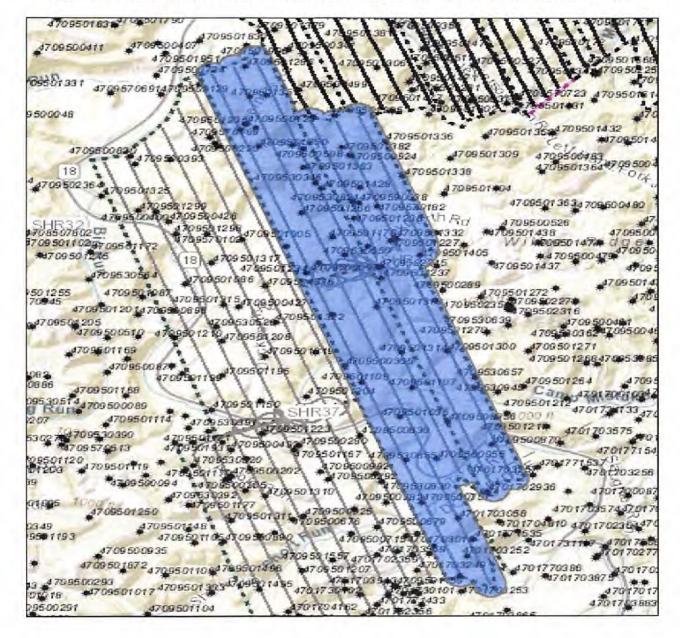




Figure 3. All wells within 500' buffer around the SHR38 pad have been reviewed and listed below.



# SHR38 Pad Frac SOG Review / CRSD Review Thursday, November 8, 2018

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

			LATITUDE		OPERATOR	STATUS	WELL NAME	WELL NO		FMTD	ELEVATION
701702361		Doddridge	39.33791934		Ritchie Petroleum Corp	Oil and Gas	LG Hammer 2	1		Weir	99
701702462		Doddridge	39,34440133	1000		not available	Paul Strickling			Docd 2935	83
701702936		Doddridge	39.34430633		Greylock Conventional LLC	Gas	P Strickling 1			Benson	84
701703058		Doddridge	39.34116734		Greylock Conventional LLC	Gas	Middle island			Alexander	103
701703252	_	Doddridge	39.33671524		Greylock Conventional ILC	Gas	W & V McCutcheon			Alexander	109
701703586		Doddridge	39.37483806		Consol Gas	Not Drilled	Never Drilled (Canceled)		not drilled	not drilled	96
701773437		Doddridge	39.33436122			not available	McCutchan-Haines				113
701771535		Doddridge	39.33871526	100000000000000000000000000000000000000		not available	N A Joseph				97
709500097		Tyler	39.37191314	The second second		Gas	John Ash	1		Big Injun (untilf)	94
1709500103	_	Tyler	39.38803655		Lemon, Robert and Betty	Oil and Gas	D D Davis	1		Big Irrjun (undiff)	94
4709500113	-	Tyler	39.38780257			Oil and Gas	D D Davis	2		Big Injun (undiff)	83
709500120	_	Tyler	39,38944545			Dry w/ Gas Show	W C Pierson / Josephs Mills	- 1		Squaw	87
709500123	_	Tyler	39.38858257		J A & M Oil and Gas	Oil w/ Gas Show	D D Davis	3		Big Injun (cneiff)	30
1709500208	_	Tyler	39.39188259		20101201	Dry w/ O&G Show	Frank H Ash	1		Price Fm & equivs	92
709500300		Tyler	39.35951588			Gas	Alexander Doak Heirs	1		Big Injun (undiff)	78
709500508		Tyler	39.3854884	-80.84398493		Gas	W N Moore			Big Injun (undiff)	85
4709500757	_	Tyler	39,34307445		Allied Energy	Oil and Gas	Delmer Mulvay	1		Berea Ss	76
4709500870	1.7	Tyler	39.35004941		Greylock Conventional LLC	Gas	Izetta B Garner	6		Benson	79
4709500876		Tyler	39,36557401	-80.84080595	Triad Hunter	Gas	Jacob L Dillon	1	2387	Berea 5s	97
4709500924	_	Tyler	39.38476329		Greylock Conventional U.C.	Gas	W Paul McCorchen		-	Alexander	73
4709500955		Tyler	39.3483235		Greylock Conventional LLC	Gas	Jay & Mary Collins			Alexander	88
4709500956	P-Pre-	Tyler	39.35286655	100000000000000000000000000000000000000	Greylock Conventional LLC	Gás	Jay & Mary Collins			Alexander	102
4709501036		Tyler	39.35339266		Greylock Conventional ILC	Gas	Edwin D Mulvay et ux			Веляоп	76
4709501101		Tyler	39.37483805	T. T. S. S. S. L. A. A. A.		Not Drilled	Never Drilled (Canceled)			not dilled	96
4709501107	WV	Tyler	39,3568727	-80.83182713	Alliance Petroleum	Gas	Karen Jane Osborne	3	5306	Alexander	76
4709501108	WV	Tyler	39.35687256	-80.82472829	Alliance Petroleum	Gas	Karen Jane Osbome	1	5240	Alexander	57
4709501109	wv	Tyler	39.35759781	-80.837443	Alliance Petroleum	Gas	Karen Jean Osborne	2	5325	Alexander	54
4709501178	_	Tyler	39.37483806	-80.83367761	Unknown	Not Drilled	Never Drilled (Canceled)		not drilled	not drilled	96
1709501206	W٧	Tyler	39.37483806	-80.83367761	Anvil	Not Drilled	Never Drilled (Canceled)		not drilled	not drilled	96
4709501226 N	wv	Tyler.	39.3728251	-80.839312	Alliance Petroleum	Dry	Verna Q Ash	1	5140	Benson	101
4709501227	wv	Tyler	39.37456504	-80.83426712	Alliance Petroleum	Gas w/ Oil Show	Verna O Ash	2	5142	Benson	988
4709501234	WV	Tyler	39.37064915	-80,8436089	Alliance Petroleum	Gas	James E Ash	1	5096	Benson	909
4709501235	WV	Tyler	39 38838857	-80.85052578	Anja Resources	Gas	Geneva Fouts Bullman	1	4890	Benson	817
4709501237	WV	Tyler	39.37006898	-80.83520209	Alliance Petroleum	Gas	Verna O Ash	3	5157	Велѕоп	1029
4709501238	WV	Tyler	39.37722216	-30.83837803	Alliance Petroleum	Gas	Edna Dillon	1	5129	Benson	55
4709501254	wv	Tyler	39.35731382	-80.82921722	Alliance Petroleum	Gas	Charles Lee Cumberledge	-1	5150	Benson	1019
4709501266	wv	Tyler	39.37780228	-80.8441709	Alliance Petroleum	Dry	David A Preston	1	4868	Benson	74:
4709501269	WV	Tyler	39.3808472	-80,83763106	Alliance Petroleum	Gas	Lawrence Mercer	1	5007	Benson	85
4709501283	w	Tyler	39.38592343	-80.8452929	Alliance Petroleum	Gas	Bruce & Veronica Smith	1	5009	Benson	86.
4709501285	wv	Tyler	39.38954841	-80.84062202	Alliance Petroleum	Gas .	James C Ferrell	- 4	5100	Benson	103
4709501286	wv	Tyler	39.39534969	-80.8505278	Schultz Run Gas Company	Gas w/ Oil Show	Robert H Tennant	1	5005	Benson	82
4709501300	WV	Tyler	39,35122369	-80.82790623	Alliance Petroleum	Gas	John R Pratt	2	5150	Benson	94
4709501304	WV.	Tyler	39.37384024	-80.84585185	Schultz Run Gas Company	Gas	Duane Clark et al	1	4923	Benson	75
4709501312 V	wv	Tyler	39.37483806	-80.83367761	Energy Corporation of America	Not Drilled	Never Drilled (Canceled)		not drilled	not drilled	960
4709501314	WV	Tyler	39.36107879	-80,83295012	Greylock Conventional LLC	Gas	Charles Daughtery et al	3	5090	Benson	92
4709501318	WV.	Tyler	39.35658893		Greylock Conventional LLC	Gas	Charles Daughtery et al	- 4		Benson	1013
4709501332	_	Tyler	39.37483806		Energy Corporation of America		Never Brilled (Canceled)	-		not drilled	99
4709501336	WV	Tyler	39,38635824	-80.83482814	Alliance Petroleum	Gas	Elmer Cecil	1	5069	Benson	95
4709501338	WV	Tyler	39.38215313	-80.83277518	Alliance Petroleum	Gas	Timothy N Ingoglia	1	5045	Benson	94
4709501350		Tyler	39.3857785	-80.84902981	Alliance Petroleum	Gas	Ryan! Lind et ux	1		Benson	78
4709501351	WV	Tyler	39.39172362	-80.8499658	Alliance Petroleum	Gas	Robert H Tennant	2		Benson	92
4709501382	WV	Tyler	39.38563332	-80.83968703	Alliance Petroleum	Gas	Matthew Ash	3		Renson	104
4709501383	W۷	Tyler	39.38331337	-80.84398492	Alliance Petroleum	Gas	Matthew Ash	4		Benson	102
4709501405	WV	Tyler	39.37282494	-80.8309022	Alliance Petroleum	Gas	Conrad Costillow	1-A		Big mjun (undiff)	97
4709501428	WV	Tyler	39.38070228	-80.84192896	Alliance Petroleum	Gas	Lawrence Mercer Hrs	5		Benson	89
1709501486	WV	Tyler	39.37152	-80.83520209	Drilling Appeachian Corp	Dry.	Verna Ø Ash	4		Big Injun (undiff)	103
1709501951	wv	Tyler	39.39563978	-80.8548257	Diversified Resources	Gas w/ Oil 5how	Donna Marie Vandine	2		Marcellus Sh	72
4709502245	WV	Tyler	39.37127601	-80.83562008	Noble		J E Ash et al	SHR08L	not drilled	not drilled	101
47095303461	wv	Tyler	39,38142731	-80.84267595		Gas	Locretta Mercer	2	2101	Squaw	95
4709530650		Tyler		-80.63688306		Gas	P P Doak		1992	Big Injun (undiff)	97
4709530657		Tyler	39.35807958			Gas	A U Davis		1972	Big injun (undiff)	28
4709530824	_	Tyler		-80.83856504		Gas	Lawrence Mercer	= =1	1904	Squaw	73
709530855	-	Tyler		-80.83255109		Gas	Wm Smith		-	Big.Injun (undiff)	76
709530887		Tyler		-80.84080697		Gas	Martin M Grove	1		Big Injun (undiff)	90
1709570182	_	Tyler	39.37864113			not available	John Mercer	- 1		Big Injun (undiff)	77
		BANK CARE		1072				_			77



WW-9 (4/16)

API Number 47 - <u>095 - 03648</u> Operator's Well No. <u>5HR38IHSIM</u>

# 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 Co	nde 494458046
Watershed (HUC 10) Headwaters Middle Island Creek Quadrangle West Un	ion
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work	
Will a pit be used? Yes No 🗸	
If so, please describe anticipated pit waste: no pits	
Will a synthetic liner be used in the pit? Yes No If so, what	ml.? NA
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number 47-001-00561, 47-0	97-01514, 47-097-01613, 34-013-2-0609
Reuse (at API Number_SHR37 wells API TBD  Off Site Disposal (Supply form WW-9 for disposal location)	)
Other (Explain No Pits	
Will closed loop system be used? If so, describe: Yes	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil bas	ed, etc. Vertical air from Island surface to conver bit half point (NCP).
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	tic pil-based mud (SOBM) from curve KOP to lateral TD
Additives to be used in drilling medium? Bactericide, Polymers, and Weighting Agents	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Community	ovar, lack application of so
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdi	suit to areaprobed landfill
-Landfill or offsite name/permit number? See attached.	7.50.
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttir West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection where it was properly disposed.	ngs or associated waste rejected at any and the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERAI on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environge provisions of the permit are enforceable by law. Violations of any term or condition of the law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar application form and all attachments thereto and that, based on my inquiry of those obtaining the information, I believe that the information is true, accurate, and complete penalties for submitting false information, including the possibility of fine or imprisonment	nmental Protection. I understand that the he general permit and/or other applicable with the information submitted on this individuals immediately responsible for the lam aware that there are significant.
Company Official Signature Culcy of Whatthe	RECEIVED
Company Official (Typed Name) Erika Whetstone	Office of Oil and Gas
Company Official Title Manager - Permitting	DCT <b>01</b> 2019
	WV Department of
Subscribed and sworn before me this 17th day of Sept	20   9 Environmental Protection
DANN Micole N	Commonwealth of Pennsylvania - Notary Seal Sara M. Micoli, Notary Public Otary Public Washington County
My commission expires 03/11/2023	Commission expires March 11, 2023 Commission number 1288863
	Member, Pennsylvania Association of Notaries

CNX Gas Company,	LLC		
Proposed Revegetation Treatm	nent: Acres Disturbed 15.57	Prevegetation	n pH 6.5
Lime according to pH	test Tons/acre or to correct to pH		
Fertilizer type 10-20	-		
Fertilizer amount 50	0 lbs	/acre	
Mulch hay or stra			
	<u>Seed</u>	<u>Mixtures</u>	
Tem	porary	Per	manent
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	25	Orchard Grass	25
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15
Ladino Clover	10	Ladino Clover	10
creage, of the land application		tion (unless engineered plans inc ensions (L x W x D) of the pit, a	cluding this info have been and dimensions (L x W), and are
Maps(s) of road, location, pit a rovided). If water from the pit creage, of the land application hotocopied section of involve	t will be land applied, include dim 1 area .	tion (unless engineered plans inc ensions (L x W x D) of the pit,	cluding this info have been and dimensions (L x W), and are
Maps(s) of road, location, pit a rovided). If water from the pit creage, of the land application hotocopied section of involve lan Approved by:	t will be land applied, include dim 1 area .	tion (unless engineered plans inc ensions (L x W x D) of the pit, a	cluding this info have been and dimensions (L x W), and are
laps(s) of road, location, pit a rovided). If water from the pit creage, of the land application hotocopied section of involve lan Approved by:	t will be land applied, include dim 1 area .	tion (unless engineered plans inc ensions (L x W x D) of the pit, a	cluding this info have been and dimensions (L x W), and are
laps(s) of road, location, pit a rovided). If water from the pit creage, of the land application hotocopied section of involve an Approved by:	t will be land applied, include dim 1 area .	tion (unless engineered plans inc ensions (L x W x D) of the pit, a	cluding this info have been and dimensions (L x W), and are
laps(s) of road, location, pit a rovided). If water from the pit creage, of the land application hotocopied section of involve an Approved by:	t will be land applied, include dim 1 area .	tion (unless engineered plans inc ensions (L x W x D) of the pit, a	cluding this info have been and dimensions (L x W), and are
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faps(s) of road, location, pit a rovided). If water from the pit creage, of the land application hotocopied section of involve lan Approved by:	t will be land applied, include dim 1 area .	tion (unless engineered plans inc ensions (L x W x D) of the pit, a	RECEIVED
Maps(s) of road, location, pit a rovided). If water from the pit creage, of the land application hotocopied section of involve lan Approved by:	t will be land applied, include dim 1 area .	tion (unless engineered plans incensions (L x W x D) of the pit, a	RECEIVED Office of Oil and Gas  OCT 01 2019  WV Department of
Maps(s) of road, location, pit a rovided). If water from the pit creage, of the land application hotocopied section of involve	t will be land applied, include dim 1 area .	tion (unless engineered plans incensions (L x W x D) of the pit, a	RECEIVED Office of Oil and Gas

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

Republic Services (Allied Waste) Industrial Land fills Ge			Gns Spec	inc Waste	Streams				Other Accepte	d Waste Stream	ns				
Landfill	Location		Drill *	Waste	Waste	Contaminated Soil	Construction &	Industrial Waste	Sludge	Frisble	Non-Friable	Process	Solidification	Municipal	Contact Information
McLean County	Bloomingred	II.	X	X		X	X	17.1542	X	Arbertos	Asbestes	Waste	Services	Solld Waste	
FRC/Coles County	Charleston	IL	X	X		X	x	x	x	X	X	X		X	
Brickyard Disposal	Danville	IL	X	X		X	X	x	Ŷ	X	X	X		X	1
outern Illinois Regional	De Soto	IL		-			-	_^	^_	A	X	Х		X	1
ee County	Dixon	IL.	X	X	1	X	X	x	X	×		-		X	1
Prest Rock Island	East Moline	IL	X	X		X	x	x		- 0	X	X		X	
Bond County	Greensville	II.	X	X	17	×	X	X	x		X	X		X	
lánois	Hoopeston	IL.	X	X	100000	X	X	x	X	- 0	X	X		X	
andComp	LaSalle	IL.	X	X		X	x	X	X	X	X	X		X	La Company of Care
itchfield-Hillsboro	Litchfield	IL	X	X		X	Ŷ	×		X	X	X		х	317-921-1667 or 480-627-2700
Snytrontoch	Morris	II.	X	X	1	x	x	x	X	X	X	X		X	1-800-634-0215
ivingston	Pontiac	IL.	X	X		x	X	-	X	х	X	х	Good State	X	
охеля	Roxana	IL	X	X		X	x	Ŷ	X		X	X	1	X	
angamon Valley	Springfield	IL.	X	X		X	x	X	X	X	X	X	X	X	
ceanon Valley	Frankfort	KY	X	X		x	x	X	X	X	X	Х		X	
tue Ridge	Irvine	KY	X	X	-	x	x	- 0	X	X	X	X		X	
forehead	Morebead	KY	X	X		X	x	^	X	X	X	X	15-70 COOK	X	
ireen Valley	Rush	KY		X		x	x	X	X	X	X	х		X	
herokee Run	Bellefontaine	OH			-	x	Ŷ	X	X	X	X	X	X	X	
Williams County	Bryan	OH				X			X		X	X	Description of the last of the	X	
ouncy Environmental	Carcy	OH			_	X	X	X	X	X	X	X		X	1
elina	Cefina	OH				x	X	X		10000	X	X	No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa	X	1
arbon-Limestone**	Lowellville	DH	X	x		X	X	X	X		X	х	1.00	x	1
Countywide Landfill**	Bast Sparts	OH	X	x		Ŷ	X	X	X		1000	X	X	X	Jack Palermo:
orain County	Oberlin	OH	-	-		x		X						X	work: 330-536-8013
Jakland Marsh	Shiloh	1(0				^	X	X	X	7		X	1	X	cell: 330-806-9660
mperial	Imperial	PA		-		X	X	X	X	x	X			X	Dell: 330-806-9660
Conestora	Morcantown	PA				A V	X	X	X	X	X			X	
runswick	Lawrenceville	VA				A	X		X	X	X	X		X	Barbara Harsanye:
ing and Oucen	Little Plymouth	VA				- 0	X	X	X	X	X	X		X	work: 330-536-8013 x 120
d Dominion	Richmond	VA				0	X	X	X	X	X	X	Maria Co.	X	cell: 330-423-7267
vcamore	Hurricane	wv				X	X	X	X	X	X	X		X	
ort Creek	Wheeling (Short Creek)	wv	Y	X		X		X	X		The State of the S	х		X	
arter Valley	Church Hill	TN	_^	_^		A	X	X	X	4	The same of the same of	X	12	X	1

Office of Oil and Gas

OCT 0 1 2019

WV Department of Environmental Protection

Maste Management			Cartan	40 a 137 a a a				_	_							
				as Specific Waste Streams Other Accepted Waste Streams												
Landfill Location  Arden Landfill Washington IDA		Cuttings	Waste Liners	Brine	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Studge	Friable	Non-Friable	Process	Solidification	Municipal	Contact Information		
	Washington	PA	X	X		X	Y Waste	X	-	Asbestos	Asbestos	Waste	Services	Solid Waste		
South Hills (Arnord)	South Park	PA	X	X			X	X	X			х	X	X		
Kelly Run	Elizabeth	PA	X	×		X	X	x	X			X	X	X	Scott Allen; 412-694-2256	
valley Landfill	Irwin	PA	X	X		X	X	Ŷ	X	x	-	X	X	X		
Evergreen Landfill Charleston Landfill	Blairsville	PA	X	X		X	X	2	^	_ ^	X	X	X	X		
	Charleston	ww	x	x	10000			^					V	X		
Kanawha County	To be the second	1,557		^		Х	x	X	X			x		x		
Meadowfill Landfill	Bridgeport	WV		X		X	x	X	×	X						
AS Grading Landfill	Parkersburg	WV		X		X	X	X	x	- 4	X	X	X	X		
Merican Landfill	Clarksburg	WV		X	1000	X	X	x	x			X	X	X		
Mencan Landall Monthen RDF	Wasnesburg	OH	X	X		X	X	x	Ŷ	x	-	X		X		
	Glenford	- 100	X	X		X	X	X	Ŷ	X	X	X	X	X	S. C. FRIEDRICK STREET	
othecton Landfill***	Coshocton	OH		X		X	X	Ŷ	^	A	X	X	X		Patty Landolt: 262-532-8001	
dahenine Landfill	New Springfield	OH	1	X		X	X	Y		_	-			X	John Miller: 1-300-963-4776	
									_	_	X	_ X		×		
dditional Landfills			Gas Speci	fic Waste S	treame			_	_							
7 2 7 2 2 2	1	_				Other Accepted Waste Streams										
Landfill	Location		Cuttings	Waste Liners	Waste Brine	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Sludge	Friable Asbestos	Non-Friable Asbestos	Process	Solidification	Municipal	Contact Information	
Vestmoreland Waste	III Conner Lane,	PA	x							Vertering	Aspestos	Waste	Services	Solld Waste		
WWLC Group)	Belle Vernon, PA 15012			X		X	x	X	x	x	x		x	х	Mike Home: 412-552-4427	
(AX Environmental	200 Max Drive,				-								-	^	Mark Thomas: 724-929-7694	
Bulger Facility	Bulger, PA 15010	PA	X	x		X	X	x	x		in the second second		x	4.		
(AX Environmental	233 MAX Lane	la.	-	12.					- 27	-	3 (1			x	Carl Spadare: 412-343-4900	
			X	x		X	x	X	x		The same of the sa	-	x	x	cell: 412-445-9789	
Yukon Facility	Yukon, PA 1:698	PA	177111								4.00					
	Yuken, PA 1:698 11 County Road 78				1000000			_								
Yukon Facility   pex Sanitary landfill Apex Environmental		OH	x	х		х	x	x	x				-	_	Joe Teterick: 740-275-2887	
Yukon Facility: pex Sanitary landfill	11 County Road 78 Amsterdam, Ohio 43903		x			х	x	x	x				x		Joe Teterick: 740-275-2887	
Yukon Facility   pex Sanitary landfill Apex Environmental	11 County Road 78 Amsterdam, Ohio 43903 30 Larison Rd,			x		x x		-	x				x	х	joeta els-company.com	
yakon Faciliy- pez Sanitary landfill Apez Eavironmental ampke, Mt. Sterling ampke Consolidated	11 County Road 78 Amsterdam, Ohio 43903 30 Larison Rd, Jeffersonville, KY 40337	он ку	x x				x x	x x	x	x	x		x	х		
yekon Facility  pex Sanitary landfill  Apx: Eavironmental  complex, Mt. Sterling  amrike Consolidated  avrel Ridge Landfill	11 County Road 78 Amsterdam, Ohio 43903 30 Larison Rd, Jeffersonville, KY 40337 3612 B State Highway		x			x	х	×	x				x	x x	joeta els-company.com Carl Walter: 513-623-2471	
yakon Faciliy- pez Sanitary landfill Apez Eavironmental ampke, Mt. Sterling ampke Consolidated	11 County Road 78 Amsterdam, Ohio 43903 30 Larison ville, KY 40337 3612 B State Highway 552 LBy, KY 40240	он ку	x x	х				-	x	x x	x x	x	x	x x	Carl Walter: 513-623-2471 Bruce Crouch: Work: 606-864-7996	
yekon Facility  pex Sanitary landfill  Apx: Eavironmental  complex, Mt. Sterling  amrike Consolidated  avrel Ridge Landfill	11 County Road 78 Amsterdam, Ohio 43903 30 Larison Rd, Jeffersonville, KY 40337 3612 E State Highway 552 I By, KY 40740 Chestaut Valley	он ку	x x	х		x	х	×	x			x	x	x x	joeta els-company.com Carl Walter: 513-623-2471	
rekon Facility  pex Sanitary landfill  Apx: Environmental  complex, Mt. Sterling  amrike Consolidated  aveel Ridge Landfill	11 County Road 78 Amsterdam, Ohio 43903 30 Larison Rd, Jeffersonville, KY 40337 3612 E State Highway 552 I By, KY 40340 Chestnut Valley 1184 McClellandtown	он ку	x x x	x		x x	x x	x x				x	x	x x	Carl Walter: 513-623-2471 Bruce Crouch: Work: 606-864-7996	
pex Sanitary landfill  pex Sanitary landfill  pex Eavironmental  pempke, Mt. Sterling  umrke Consolidated  perel Ridge Landfill	II County Road 78 Amsterdam, Ohio 43903 30 Larison Rd, Jeffersonville, KY 40337 3612 B State Highway 552 1 Gv, KY 40740 Constant Valley 1184 McClellandtown, PA 66, McClellandtown, PA	он ку	x x	х		x	х	×	x			x	x	x x x	Carl Walter: 513-623-2471 Bruce Crouch: Work: 606-864-7996	
yekon Facility  pex Sanitary landfill  Apx: Eavironmental  complex, Mt. Sterling  amrike Consolidated  avrel Ridge Landfill	11 County Road 78 Amsterdam, Ohio 43903 30 Larison Rd, Jeffersonville, KY 40337 3612 E State Highway 552 I By, KY 40340 Chestnut Valley 1184 McClellandtown	он ку	x x x	x		x x	x x	x x				x	х	x x	Joera els-company.com  Carl Walter: 513-623-2471  Bruce Crouch: Work: 606-864-7996	
rakon Facility pex Sanitary landfill pex Environmental pemplex, Mt. Sterting um: the Connolithated purel Ridge Landfill Vaste Connections of K y	11 County Road 78 Amsterdam, Ohio 43903 30 Larism Rd, Jeffersonwille, KY 40337 3612 B State Highway 552 Tile, KY 40740 Chestrat Valley 1184 McClellandtown, Rd, McClellandtown, PA 15458	он ку	x x x	x		x x	x x	x x				x	x	x x x		
pex Sanitary landfill  pex Sanitary landfill  pex Eavironmental  pempke, Mt. Sterling  umrke Consolidated  perel Ridge Landfill	11 County Road 78 Amsterdam, Ohio 43903 30 Larison Rid, Jeffersonville, KY 40337 3612 B State Highway SSS 189, KY 40040 Chestout Valley 1184 McClellandtown, Rd, McClellandtown, PA 15458 Greentree Landfill; 635	он ку	x x x	x x		x x x	x x x	x x	x			x	x	x x x	Carl Walter: 513-623-2471 Bruce Crouch: Work: 606-864-7996 Cell: 606-219-0261 Tony Labenne	
wakon Facility pex Sanitary landfill pex Sanitary landfill pex Environmental perplex, Mt. Sterting turn lake Connolithated sure! Ridge Landfill Waste Connections of K Y	11 County Road 78 Amsterdam, Ohio 43903 30 Larism Rd, Jeffersonville, KY 40337 3612 B State Highway 552 Tilly, KY 40740 Chestrat Valley 1184 McClellandtown, Rd, McClellandtown, Rd, McClellandtown, FA	он ку	x x x	x		x x	x x	x x				x	x	x x x	Octot els-company.com	
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Ohio "TENORM" - requires Radium 226/228 analysis by load before leaving the well part. Solid waste landfills in Ohio can only accept TENORM waste with combined concentration less than 5 picocuries per gram above the materal background level. Waste stream secepted by findlity.

Waste stream is not or may not be accepted by facility. Contact facility directly to verify waste streams accepted.

Now PADEP rules regarding "TENORM" testing requirement are pending.

Notes:

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

RECEIVED Office of Oil and Gas

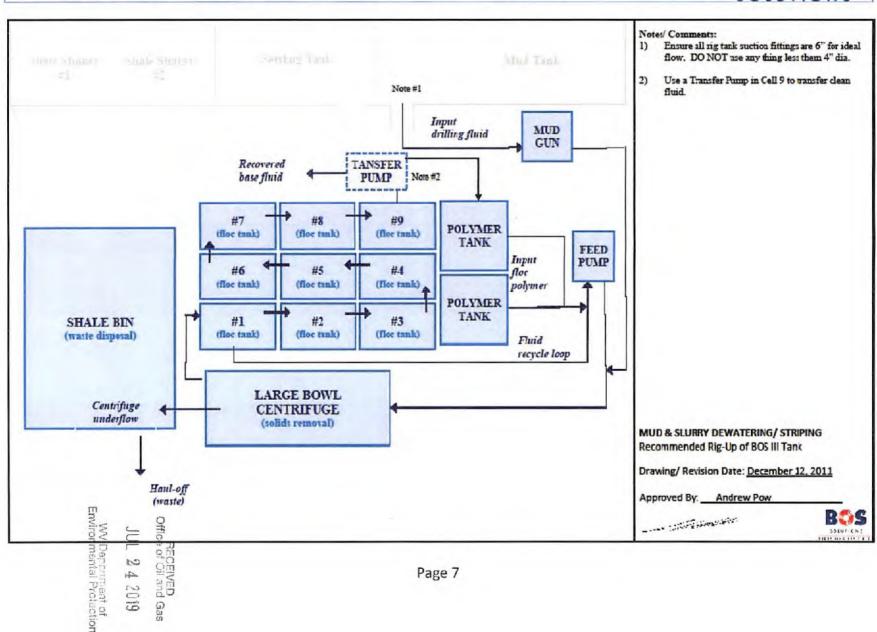
OCT 01 2019

WV Department of Environmental Protection

# FLOW CHART MUD AND SLURRY DEWATERING RECOMMENDED RIG UP

4 2019





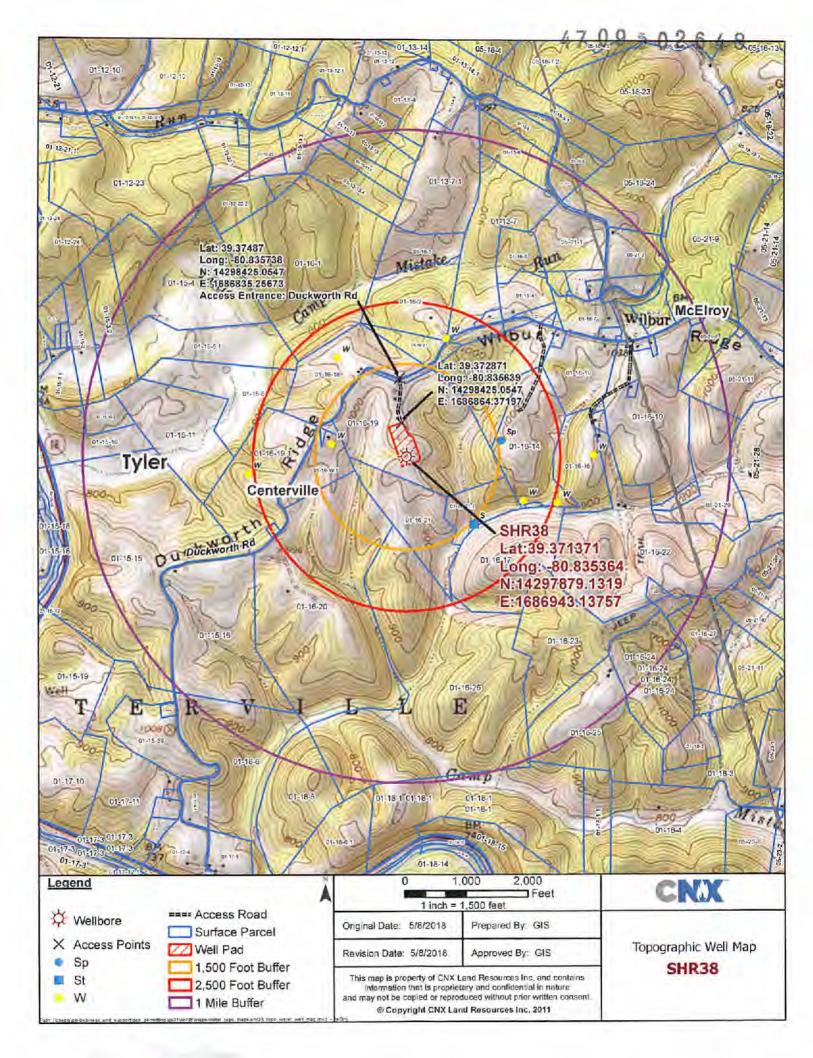
Page 7

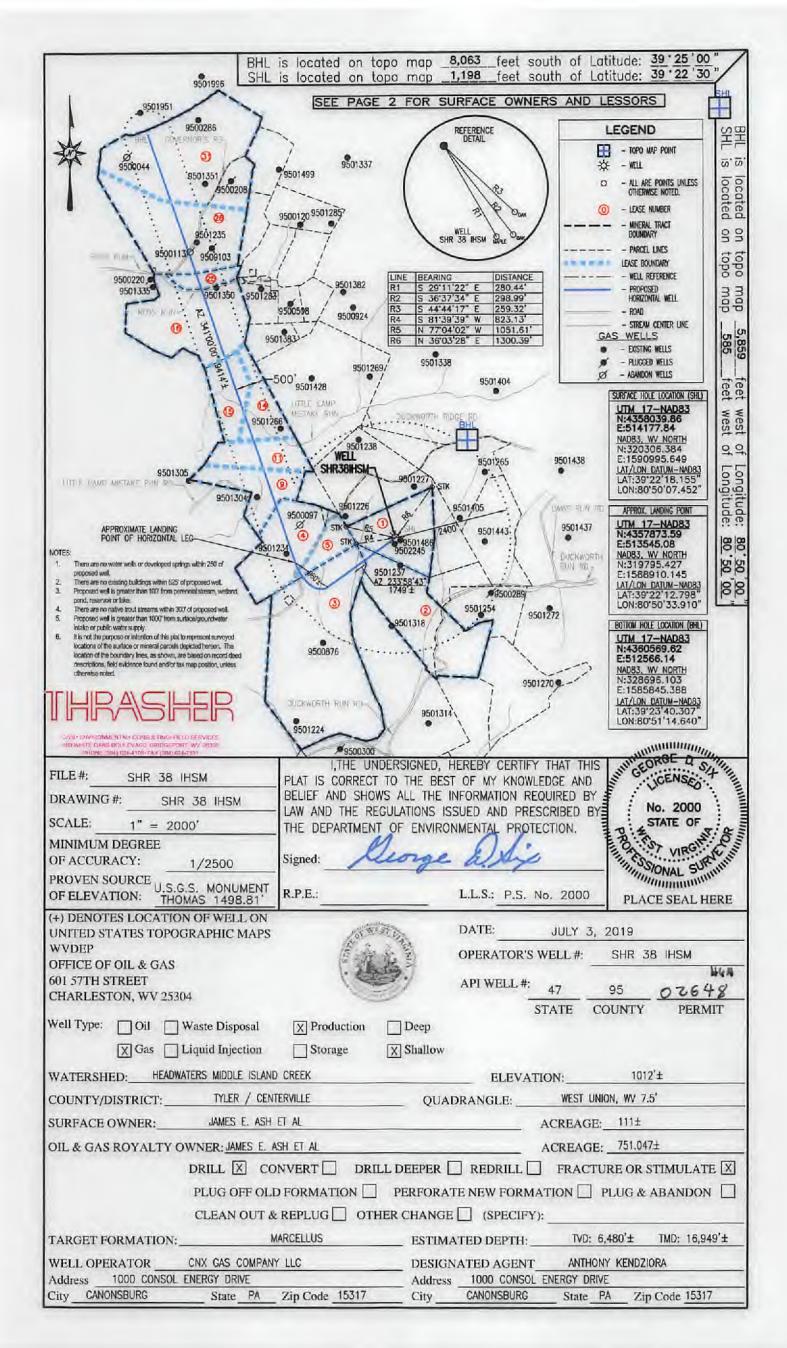
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# Site Safety Plan for Well SHR38IHSM CNX Gas Company, LLC.







# SHR 38 IHSM 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,	P/0 1-16/19
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		ERNEST G. SECKMAN AND O. JOANNE SECKMAN	
		RALPH E. PHILLIPS AND VELINDA PHILLIPS H/W	and the same of
2	JOHN R. ANDERS, II	JOHN MICHAEL LEONIAN	1-16/21
-	BOTH IN ANDENS, II	JOSEPH ROBERT LEONIAN	10/21
		MARGO L. KIEHL AND CHARLES F. KIEHL, W/H	
		BERDINA ROSE AND NORMAN W. ROSE, W/H	
		PHILLIP LEONIAN, AKA PHILLIP MARSHALL LEONIAN	
		MARION RAY BACHELOR, AKA MARION R. BACHELOR	
		AND GLORIA JEAN BACHELOR, H/W	
		RITA G. JARVIS	
		MIKE ROSS, INC.	
		I. L. MORRIS	1
		JO ELLEN HARPER DAY	1
		MARY LEE LILLY	
		ARMEN LEONIAN, AKA ARMEN LANHAM LEONIAN	
			1
		JOHN FULTON LEONIAN	
		NILA ASH SAYLOR REVOCABLE TRUST, BY JOSEPH F. SILEK, JR	
		BAILEY ANN MILLS	
		WILLIAM PAUL HARPER	
		DAVID PAUL LOCOCO	
		MARY LYNNE SLATTERY, FKA MARY LYNNE LOCOCO	
		DONALD VINCENT LOCOCO	
		ROSE MARIE VANHEUVELN	
		THERESA LEE ROBERTSON	
		MARTHA SUE MUZIO, FKA MARTHA SUE LOCOCO	
		MICHELLE LOCOCO BUSHMIRE, FKA MICHELLE LUCRETIA BUSHMIRE	
		ELIZABETH FLORENCE LOCOCO	
		RALPH E. PHILLIPS AND VELINDA PHILLIPS, H/W	1
		BRC APPALACHIAN MINERALS I, LLC	
		BRC APPALACHIAN MINERALS I, LLC	
3	RONALD R. AND REVA D. ROWLAND	JACOB L. DILLON AND EDNA DILLON, H/W	1-16/20
4	JAMES E. ASH	GALE V. DAVISSON	P/0 1-16/19.
		ROSEMARY EAGLE	The state of the s
		ELEANOR L. ROTH, ATTORNEY-IN-FACT FOR THE	
		J. D. AND RUTH FOLEY HEIRS	
5	JAMES E. ASH	GALE V. DAVISSON	D/0 + +6/10
9			P/0 1-16/19.
	JAMES ASH	ROSEMARY EAGLE	1-16/19.2
		ELEANOR L. ROTH, ATTORNEY-IN-FACT FOR THE	
		J. D. AND RUTH FOLEY HEIRS	
		RICHARD ALAN GLOVER	- S. C. Par
9	DUANE CLARK ET AL, C/O DUANE & SUE CLARK	CLARENCE DUANE CLARK AND SANDRA SUE CLARK, H/W	1-15/6
		JEFFREY G. CLARK, SINGLE	136.2
		KEVIN S. CLARK, SINGLE	
		JOHN BAKER, INDIMIDUALLY AND AS ATTORNEY-IN-FACT	
		FOR THE "GORRELL DOAK HEIRS"	
11	DUANE CLADIC ST AL C /O DUANE & CHE OLICA		1 15/51
11	DUANE CLARK ET AL, C/O DUANE & SUE CLARK		1-15/6.1
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		ROSEMARY EAGLE	le Land
	DAVID & MARY ANN PRESTON (LIFE ESTATE)	JAMES R. ASH AND FRANCES M. ASH, H/W	P/0 1-15/4
15	DAVID & MARY ANN PRESTON (LIFE ESTATE)	JAMES R. ASH AND FRANCES M. ASH, H/W	P/0 1-15/4
16		ORA NELSON MOORE AND MARY EDNA MOORE.	1-12/23
15		HUSBAND AND WIFE, AND OLETHA MOORE, WIDOW	12/20
		ROSEMARY EAGLE	
25	GENEVA (DENNISON) FOUTS LIFE ESTATE		0/0 1 10/10
23	CLILLYA (DENNIGON) FOUIS DE ESTATE	ORA NELSON MOORE AND MARY EDNA MOORE,	P/0 1-12/10.
		HUSBAND AND WIFE, AND OLETHA MOORE, WIDOW	
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	GENEVA (DENNISON) FOUTS LIFE ESTATE	BILLY KENNETH FOUTS AND MARIANNE B. FOUTS, H/W	P/0 1-12/10
26	The state of the s	ERWIN LAWRENCE FOUTS	
26			1
26		SHEILA KAY FORRESTER AND ROBERT FORRESTER W/H	
	JEFERFY J. AND KAY A. HEIKENEFI D	SHEILA KAY FORRESTER AND ROBERT FORRESTER, W/H ROBERT H TENNANT A SINGLE MAN AND	1-12/11
	JEFFREY J. AND KAY A. HEIKENFELD JAMES F. & PATRICIA A. WOODS	SHEILA KAY FORRESTER AND ROBERT FORRESTER, W/H ROBERT H. TENNANT, A SINGLE MAN AND OPAL V. TENNANT, A WIDOW	1-12/11

SURFACE HOLE LOCATION (SHL) UTM 17-NAD83 N:4358039.86 E:514177.84 NAD83, W. NORTH N:320306.384 E:1590995.649 LAT/LOD DATUM-NAD83 LAT:39'22'18.155" LON:80'50'07,452"

APPROX. LANDING POINT UTM 17-NAD83 N:4357873.59 E:513545.08 NAD83. W NORTH N:319795.427 E:1588910.145 LAT/LON DATUM-NAD83 LAT:39'22'12.798" LON:80'50'33.910"

BOTTOM HOLE LOCATION (BHL) UTM 17-NAD83 N:4360569.62 E:512566.14 NAD83, W NORTH N:328696.103 E:1585845.388 LAT/LON DATUM-NAD83 LAT:39'23'40.307" LON:80'51'14.640"



API WELL#: 47

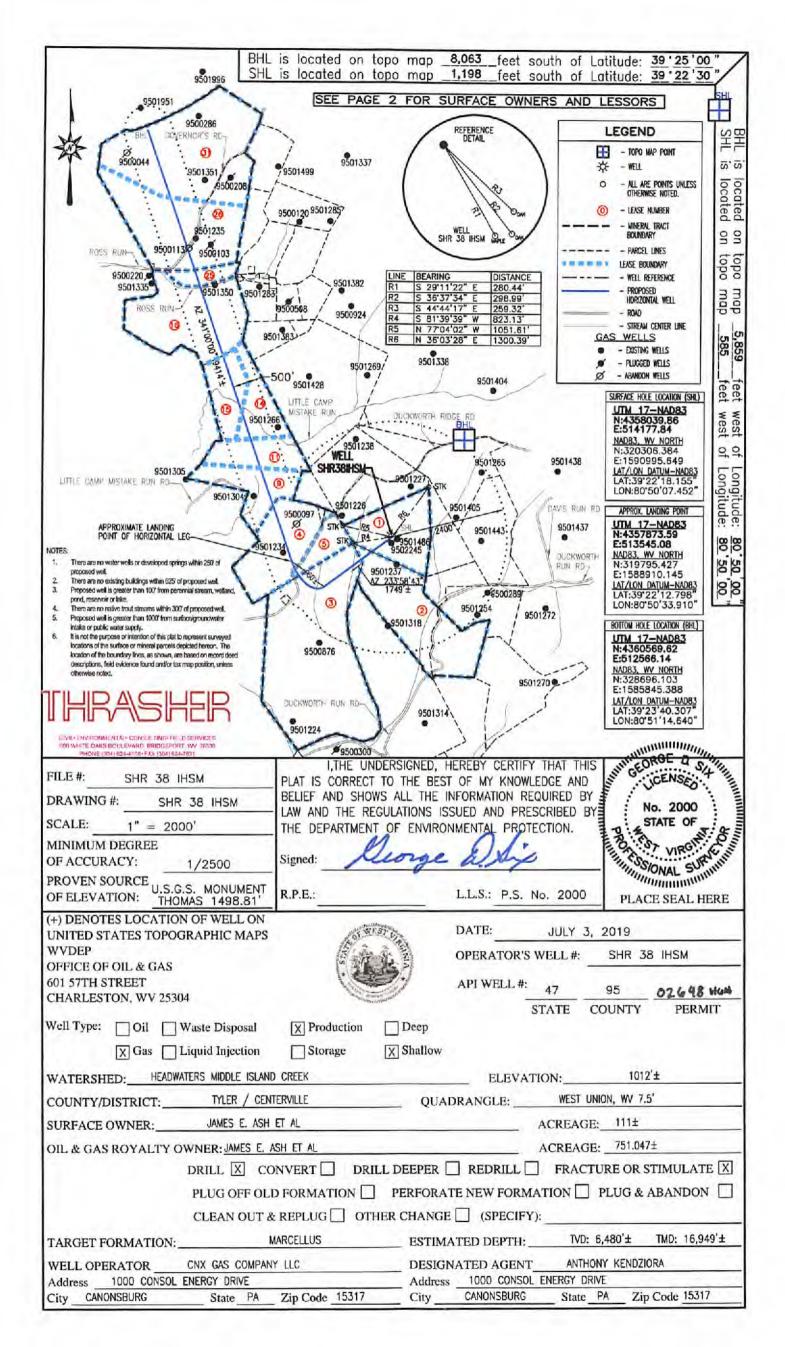
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JULY 3, 2019

STATE COUNTY

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# SHR 38 IHSM 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	P/0 1-16/19
		ERNEST G. SECKMAN AND O. JOANNE SECKMAN	
		RALPH E. PHILLIPS AND VELINDA PHILLIPS H/W	LOS MARGON
2	JOHN R. ANDERS, II	JOHN MICHAEL LEONIAN	1-16/21
	A CONTRACTOR OF THE PROPERTY O	JOSEPH ROBERT LEONIAN	Part 2 X 80 A
		MARGO L. KIEHL AND CHARLES F. KIEHL, W/H	1
		BERDINA ROSE AND NORMAN W. ROSE, W/H	1
		PHILLIP LEONIAN, AKA PHILLIP MARSHALL LEONIAN	1
	l i	MARION RAY BACHELOR, AKA MARION R. BACHELOR	1
		AND GLORIA JEAN BACHELOR, H/W	
		RITA G. JARVIS	1
		MIKE ROSS, INC.	1
		L L. MORRIS	1
		JO ELLEN HARPER DAY	1
		MARY LEE LILLY	-
		ARMEN LEONIAN, AKA ARMEN LANHAM LEONIAN	
		JOHN FULTON LEONIAN	
		NILA ASH SAYLOR REVOCABLE TRUST, BY JOSEPH F. SILEK, JR	
		BAILEY ANN MILLS	1
		WILLIAM PAUL HARPER	1
		DAVID PAUL LOCOCO	
		MARY LYNNE SLATTERY, FKA MARY LYNNE LOCOCO	
	1	DONALD VINCENT LOCOCO	1
		ROSE MARIE VANHEUVELN	1
		THERESA LEE ROBERTSON	1
		MARTHA SUE MUZIO, FKA MARTHA SUE LOCOCO	1
		MICHELLE LOCOCO BUSHMIRE, FIXA MICHELLE LUCRETIA BUSHMIRE	1
		ELIZABETH FLORENCE LOCOCO	1
		RALPH E. PHILLIPS AND VELINDA PHILLIPS, H/W	1
		BRC APPALACHIAN MINERALS I, LLC	
		BRC APPALACHIAN MINERALS I, LLC	
3	RONALD R. AND REVA D. ROWLAND		1 15/20
4	JAMES E. ASH	JACOB L. DILLON AND EDNA DILLON, H/W	1-16/20
4	JAMES E. ASH	GALE V. DAVISSON	P/0 1-16/19.
		ROSEMARY EAGLE	
		ELEANOR L. ROTH, ATTORNEY-IN-FACT FOR THE	
_		J. D. AND RUTH FOLEY HEIRS	
5	JAMES E. ASH	GALE V. DAVISSON	P/0 1-16/19.
	JAMES ASH	ROSEMARY EAGLE	1-16/19.2
	1	ELEANOR L. ROTH, ATTORNEY-IN-FACT FOR THE	100000
		J. D. AND RUTH FOLEY HEIRS	
		RICHARD ALAN GLOVER	
9	DUANE CLARK ET AL, C/O DUANE & SUE CLARK	CLARENCE DUANE CLARK AND SANDRA SUE CLARK, H/W	1-15/6
-		JEFFREY G. CLARK, SINGLE	, ,,,,
		KEVIN S. CLARK, SINGLE	
		JOHN BAKER, INDIVIDUALLY AND AS ATTORNEY-IN-FACT	
		FOR THE "GORRELL DOAK HEIRS"	
11	DUANE CLARK ET AL, C/O DUANE & SUE CLARK	ORA NELSON MOORE AND MARY EDNA MOORE,	1 15/01
	DONNE CONTR ET ME, C/O DONNE & SUE CLARK		1-15/6.1
		HUSBAND AND WIFE, AND OLETHA MOORE, WIDOW	
	DATE A LIEU AND DOFFEED OF THE PARTY.	ROSEMARY EAGLE	0/0 4 15 15
	DAVID & MARY ANN PRESTON (LIFE ESTATE)	JAMES R. ASH AND FRANCES M. ASH, H/W	P/0 1-15/4
	DAVID & MARY ANN PRESTON (LIFE ESTATE)	JAMES R. ASH AND FRANCES M. ASH, H/W	P/0 1-15/4
16	RYAN J. & SUSAN J. LIND	ORA NELSON MOORE AND MARY EDNA MOORE,	1-12/23
		HUSBAND AND WIFE, AND OLETHA MOORE, WIDOW	11.0
	A THE RESERVE AND ADDRESS OF THE PARTY OF TH	ROSEMARY EAGLE	
25	GENEVA (DENNISON) FOUTS LIFE ESTATE	ORA NELSON MOORE AND MARY EDNA MOORE,	P/0 1-12/10.
	And the second s	HUSBAND AND WIFE, AND OLETHA MOORE, WIDOW	Section of the
		ROSEMARY EAGLE	
26	GENEVA (DENNISON) FOUTS LIFE ESTATE	BILLY KENNETH FOUTS AND MARIANNE B. FOUTS, H/W	P/0 1-12/10
	Carried Warming 1 2010 Cit E Collisie	ERWIN LAWRENCE FOUTS	1.75 1-12/10
		SHELLA KAY FORRESTER AND ROBERT FORRESTER, W/H	
		SILLS IN TURNESIER AND ROBERT TURNESIER, W/H	
31	IEEEDEN I VAND NAN Y MEINENIGEI D	PORERT H TENNANT A SINGLE MAN AND	1-12/11
31	JEFFREY J. AND KAY A. HEIKENFELD JAMES F. & PATRICIA A. WOODS	ROBERT H, TENNANT, A SINGLE MAN AND OPAL V. TENNANT, A WIDOW	1-12/11

SURFACE HOLE LOCATION (SHL) UTM 17-NADB3 N:4358039.86 E:514177.84 NADB3, W NORTH N:320306.384 E:1590995.649 LAT/LON DATUM-NADB3 LAT:39°22'18.155" LON:80°50'07.452"

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LTM 17—NAD8.3

N:4357873.59

E:513545.08

NAD83. W. NORTH

N:319795.427

E:1588910.145

LAT/LON DATUM—NAD83

LAT:39'22'12.798"

LON:80'50'33.910" BOTTOM HOLE LOCATION (BHL) BOILDIN HOLE TOXAIDN (84)

W. 17-NADB.3

N:4360569.62

E:512566.14

NADB.3

W. NORTH

N:328696.103

E:1585845.388

LAT/LON DATUM-NADB.3

LAT:39"23"40.307"

LON:80"51"14.640"



API WELL #: 47

02448 HGA

STATE

COUNTY

PERMIT

WW-6A	l
(5/13)	

Operator's Well No.	SHR38IHSM
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## 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 ATTACHEL

## 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

Office of Oil and Gas

JUL 2 4 2019

The applicant further acknowledges that any Office of Oil and Gas permit in horwaytowerrides, 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

Its: PERMITTING MANAGER

#### Attachment - Form WW-6A-1 for SKR 38 IHSM

Tract ID	Tex Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
	Tinrani		Verna O. Ash, James E. Ash and Thelma B. Ash, Bessie Haught and Harold			
1	1-16-19	258998000	Warner, Ernest G. Seckman and O. Joanne Seckman	Drilling Appalachian Corporation	Not less than 1/8	269/571
			Reiph E. Phillips and Velinda Phillips, h/w	Drilling Appalachian Corporation	Not less than 1/8	271/103
			Battle - Acceptable - Comments	Dominion Appalachian Development Propertie		222/100
			Drilling Appalachian Corporation	LLC CONSOL Gas Appalachian Development	Assignment	322/190
			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 Company	CNX Gas Company LLC	Merger	384/191
			CNX Gas Company LLC Noble Energy Inc.	Noble Energy Inc. CNX Gas Company LLC	50% Assignment 50% Assignment	388/286 542/134
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
Tract (D		Title Opinion	Grantor, Lessor, etc	Granteo, Lessee, etc	Royalty	Book/Page
2	<u>Parcel</u> 1-16-21	<u>Q15 #</u> 288768000	John Michael Leonian	CNX Gas Company, LLC	Not less than 1/8	406/84
•		20070000	Joseph Robert Leonian	CNX Gas Company, LLC	Not less than 1/8	406/89
			Margo L. Kiehl and Charles F. Kiehl, w/h	CNX Gas Company, LLC	Not less than 1/8	409/229
			Berdina Rose and Norman W. Rose, w/h	CNX Gas Company, LLC	Not less than 1/8	406/94
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	447/738
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
			Phillip Leonian, aka Phillip Marshail Leonian	Noble Energy, Inc.	Not less than 1/8	465/276
			Marion Ray Bachelor, aka Marion R. Bachelor and Gloria Jean Bachelor,	Noble Energy, Inc.		
			h/w	<del></del>	Not less than 1/8	449/543
			Rita G. Jarvis Mike Ross, Inc.	Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8 Not less than 1/8	449/539 480/849
			1. L. Morris	Noble Energy, Inc.	Not less than 1/8	480/821
			Jo Ellen Harper Day	Noble Energy, Inc.	Not less than 1/8	452/692
			Mary Lee Lilly	Noble Energy, Inc.	Not less than 1/8	458/755
			Armen Leonian, aka Armen Lanham Leonian	Noble Energy, Inc.	Not less than 1/8	465/249
			John Fulton Leonian Nila Ash Saylor Revocable Trust, by Joseph F. Silek, Jr	Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8 Not less than 1/8	458/757 465/266
			Bailey Ann Mills	Noble Energy, Inc.	Not less than 1/8	453/527
			William Paul Harper	Noble Energy, Inc.	Not less than 1/8	449/535
			David Paul Lococo	Noble Energy, Inc.	Not less than 1/8	449/497
			Mary Lynne Slattery, fix Mary Lynne Lococo Donald Vincent Lococo	Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8 Not less than 1/8	452/702 453/635
			Rose Marie VanHeuveln	Noble Energy, Inc.	Not less than 1/8	526/567
			Theresa Lee Robertson	Noble Energy, Inc.	Not less than 1/8	471/678
			Martha Sue Muzio, fke Martha Sue Lococo	Noble Energy, Inc.	Not less than 1/8	449/541
			Michelle Lococo Bushmire, fika Michelle Lucretia Bushmire	Noble Energy, Inc.	Not less than 1/8	453/523
			Elizabeth Florence Lococo  Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC	Not less than 1/8 Assignment	453/624 473/216
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	493/223
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	499/447
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	513/299
			Noble Energy, Inc.	CNX Gas Company, LLC CNX Gas Company, LLC	Assignment	542/147 549/529
			Noble Energy, Inc. Noble Energy, Inc.	CNX Gas Company, LLC	Assignment Assignment	550/273
					-	
			Raiph E. Phillips and Velinda Phillips, h/w	Noble Energy, Inc.	Not less than 1/8	492/300
			Noble Energy, Inc. Noble Energy, Inc.	CNX Gas Company, LLC HG Energy II Appalachia, LLC	Assignment Assignment	513/299 570/96
			HG Energy II Appalachia, LLC	CNX Gas Company, LLC	Assignment	624/236
			BRC Appalachian Minerals I, LLC	BRC Working Interest Company BRC Working Interest Company	Not less than 1/8 Not less than 1/8	369/300 369/648
			BRC Appalachian Minerals I, LLC BRC Working Interest Company	Chesapeake Appalachia, LLC	Assignment	369/784
			Chesapeake Appalachia, LLC	SWN Production Company, LLC	Assignment	465/463
			Chesapeake Appalachia, LLC	Statoil USA Onshore Properties, LLC	Assignment	378/764
			SWN Production Company, LLC, Statoli USA Onshore Properties, Inc.	Noble Energy, Inc and CNX Gas Company, LLC	Assignment	518/207
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
Tract ID	Tax Map &	Title Opinion	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
	Parcel	<u>QLS#</u>				
3	1-16-20	258989000	Jacob L. Dillon and Edna Dillon, h/w Royal Resources Corporation	Royal Resources Corporation Columbia Gas Transmission Corporation	Not less than 1/8 Assignment	196/302 196/166
			Columbia Gas Transmission Corporation	Anvil Oil Co., Inc.	Assignment Agreement and Sublease	265/107
			Anvil Oil Co., Inc.	Excel Energy, Inc.	Assignment	263/635
			Excel Energy, Inc.	Anvil Oil Co., Inc.	Assignment	269/143
			Anvil Oil Co., Inc.	Anvil Oil & Gas Company, Inc.	Name Change	wvsos
			Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company;			
			Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc.	Dominion Appalachian Development, Inc.	Assignment	323/383
			Dominion Appalachian Development Properties, L.L.C.	CNX Gas Company, LLC	Merger	384/191
			CNX Gas Company, LLC Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC	Assignment Assignment	388/286 550/273
			COLUMN TO THE CO		,g	
			Columbia Gas Transmission Corporation	Columbia Natural Resources, Inc.	Assignment	286/603
			Columbia Natural Resources, Inc.	Chesapeake Appalachia, LLC	Confirmatory Deed	349/536
			Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties, Inc.	Statoilhydro USA Onshore Properties, Inc. Statoil USA Onshore Properties, Inc.	Partial Assignment Name Change	363/391 WVSOS
			Statolinydro USA Onshore Properties, Inc. Chesapeake Appalachia, LLC	SWN Production Company, LLC	Assignment	465/463
			Statoil USA Onshore Properties, Inc.	SWN Exchange TitleHolder LLC	Assignment	470/668
			SWN Exchange TitleHolder LLC	SWN Production Company, LLC	Merger	9/404
			SWN Production Company, LLC	Antero Exchange Properties, LLC	Assignment	544/242
			Statoil USA Onshore Properties, Inc. Antero Exchange Properties, LLC	Antero Exchange Properties, LLC Antero Resources Corporation	RECEIVED.	544/291 552/315
			Antero Exchange Properties, LLC Antero Resources Corporation	CNX Gas Company LLC	RECEIVEDER  Office of Anilognet Garage	624/332
			·			• •

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Tracio 4	Parcel 1-16-19.1	OLS # 257259000	Grantor, Lessor, etc  Gale V. Davisson  Rosemary Eagle	Grantee, Lessee, etc Drilling Appalachian Corporation	Royalty Not less than 1/8	Book/Page 271/726
4	-		Gale V. Davisson	Drilling Appalachian Corporation		
	1-10-19.1	237239000			NOT less than 1/8	
				Drilling Appalachian Corporation	Not less than 1/8	272/297
			Eleanor L. Roth, Attorney-in-Fact for the J. D. and Ruth Foley Heirs	Drilling Appalachian Corporation	Not less than 1/8	271/728
				Dominion Appalachian Development Properties,	277	
			Drilling Appalachian Corporation	CONSOL Gas Appalachian Development	Assignment	322/190
			Dominion Appalachian Development Properties, LLC	Properties LC	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	50% Assignment	402/704
			CNX Gas Company LLC	Drilling Appalachian Corporation	Assignment	401/342
			Drilling Appalachian Corporation Antero Resources Corporation	Antero Resources Corporation CNX Gas Company LLC	Assignment Assignment	421/138 425/701
			Noble Energy Inc	CNX Ges Company LLC	Assignment	550/273
	20.00-0	24.5.44				
Tract ID	Parcel	Title Opinion QLS #	Grantor, Lessor, etc.	Grantee, Lessee, etc	Royalty	Book/Page
	1-16-19.1	Tagent III				
5	1-16-19.2	257259000	Gale V. Davitson	Drilling Appalachian Corporation	Not less than 1/6	271/725
			Rosemary Eagle	Drilling Appalachian Corporation	Not less than 1/8	272/297
			Eleanor L. Roth, Attorney-in-Fact for the J. D. and Ruth Foley Heirs	Drilling Appalachian Corporation	Not less than 1/6	271/728
				Dominion Appalachian Development Properties,		
			Drilling Appalachian Corporation	uc	Assignment	322/190
			Paralatin Annalashin Paralament Consenting 116	CONSOL Gas Appalachian Development Properties LLC	******	384/191
			Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC	CONSOL Gas Reserves Inc.	Merger 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	402/704
			CNX Gas Company LLC	Drilling Appalachian Corporation	Assignment	401/342
			Drilling Appalachian Corporation	Antero Resources Corporation	Assignment	421/138
				CNX Gas Company ILC	100	425/701
			Antero Resources Corporation	Noble Energy, Inc.	Assignment	427/564 550/273
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/2/3
			Richard Alan Glover	Noble Energy Inc.	Not less than 1/B	480/835
			Noble Energy Inc.	CNX Gas Company LLC	50% Assignment	513/299
			Nable Energy Inc.	CNX Gas Company LLC	Assignment	550/273
	Tax Map &	Title Opinion				
Tract ID	Parcel	QLS#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
	-		Clarence Duane Clark and Sandra Sue Clark, h/w			
			Jeffrey G. Clark, single			5.313
9	1-15-6	288617000	Kevin S. Clark, single	Manna Oil & Gas Co.	Not less than 1/8	265/405
			Manna Oil & Gas Co.	Anvil Oil Company	Name Change	645/257
			Anvil Oil Company	Antero Resources Corporation CNX Gas Company LLC	Assignment	445/774
			Antero Resources Corporation	Noble Energy, Inc.	Assignment	468/769
			Noble Energy, Inc.	CNX Ges Company, LLC	Assignment	550/273
					7.10	
			John Baker, Individually and as Attorney-in-Fact for the "Gorrell Doak	April Oll Committee	Not less than 1/0	265/413
			Heirs" Anvil Oil Company	Anvil Oil Company Antero Resources Corporation	Not less than 1/8 Assignment	265/413 445/774
			Anvil Oil Company	CNX Gas Company LLC	Assignment	443/164
			Antero Resources Corporation	Noble Energy, Inc.	Assignment	468/769
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
Tract ID	Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
	Lange	-	Ora Nelson Moore and Mary Edna Moore,			
11	1-15-6.1	259026000	husband and wife, and Oletha Moore, widow	Clarence W. Mutschelknaus	Not less than 1/8	267/637
			Rosemary Eagle	Clarence W. Mutschelknaus	Not less than 1/8	273/80
			Clarence W. Mutschelknaus	Bluestone Energy Partners	Assignment	376/B22
			Bluestone Energy Partners	Antero Resources Bluestone, LLC	Merger	379/537
			Antero Resources Bluestone, LLC	Antero Resources Corporation CNX Gas Company LLC	Merger	WVSDS
			Antero Resources Corporation	Noble Energy, Inc.	Assignment	433/7
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
		and a second				
Tract ID	Parcel	Title Opinion QLS #	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
14	1-15-4	259008000	James R. Ash and Frances M. Ash, h/w	Anvil Oil Company	Not less than 1/8	271/712
			Anvil Oil Company	Dominion Appalachian Development, Inc.	Assignment	323/383
			Dominion Appalachian Development, Inc.	Dominion Appalachian Development, LLC	Name Change	WVSOS
			Domínion Appalachian Development, LLC	CONSOL Gas Appalachian Development 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	Matter	384/191
			CONSOL Gas Company	CNX Gas Company LLC	Merger	384/191
			CONSOL Gas Company CNX Gas Company LLC	CNX Gas Company LLC Noble Energy Inc.	Merger 50% Assignment	384/191 388/286

3044

T	Tax Map &	Title Opinion				
Tract ID	Parcel	Q15#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
15	1-15-4	259008000	James R. Ash and Frances M. Ash, h/w	Anvil Oil Company	Not less than 1/8	271/712
			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
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
			Ora Nelson Moore and Mary Edna Moore,			
16	1-12-23	259026000	husband and wife, and Oletha Moore, widow	Clarence W. Mutschelknaus	Not less than 1/8	267/637
			Rosemary Eagle	Clarence W. Mutschelknaus	Not less than 1/8	273/80
			Clarence W. Mutschelknaus	Bluestone Energy Partners	Assignment	376/822
			Bluestone Energy Partners	Antero Resources Bluestone, LLC	Merger	379/537
			Antero Resources Bluestone, LLC	Antero Resources Corporation	Merger	wvsos
				CNX Gas Company LLC		
			Antero Resources Corporation	Noble Energy, Inc.	Assignment	433/7
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
Tract ID	Tax Map & Percel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
			Ora Nelson Moore and Mary Edna Moore,			
25	1-12-10.1	259026000	husband and wife, and Oletha Moore, widow	Clarence W. Mutschelknaus	Not less than 1/8	267/637
			Rosemary Eagle	Clarence W. Mutschelknaus	Not less than 1/8	273/80
			Clarence W. Mutschelknaus	Bluestone Energy Partners	Assignment	376/822
			Bluestone Energy Partners	Antero Resources Bluestone, LLC	Merger	379/537
			Antero Resources Bluestone, LLC	Antero Resources Corporation	Merger	wvsos
			Antero Resources Corporation	CNX Gas Company LLC Noble Energy, Inc.	Assignment	433/7
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	433/7 550/273
			RODIE ERETEY INC.	CNA Gas Company LLC	Assignment	330/2/3
<u>Tract ID</u>	Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
26	1-12-10	243400000	Billy Kenneth Fouts and Marianne B. Fouts, h/w	CNX Gas Company LLC	Not less than 1/8	649/68
			Erwin Lawrence Fouts	CNX Gas Company LLC	Not less than 1/8	649/73
			Shella Kay Forrester and Robert Forrester, w/h	CNX Gas Company LLC	Not less than 1/8	649/78
<u>Tract ID</u>	Tex Map & Parcel 1-12-11	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
31	1-12-11.1	243936000	Robert H. Tennant, a single man and Opal V. Tennant, a widow	Anvil Oil Company	Not less than 1/8	267/56
			Justin L. Henderson d/b/a Anvil Oil Company	Anvil 1989-3 Joint Venture	Assignment	284/107
			Anvil 1989-3 Joint Venture	Dominion Appalachian Development, Inc.	Assignment	329/855
			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

Office of Oil and Gas

JUL 2 4 2019

WV Department of Environmental Protection



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 ErikaWhetstone@cnx.com.

Sincerely,

Erika Whetstone Permitting Manager

> RECEIVED Office of Oil and Gas

JUL 2 4 2019

WV Department of Environmental Protection

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

Date of Notice Certification: 725/9  API No. 47- 095 Operator's Well No Well Pad Name: S  Notice has been given: Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required par below for the tract of land as follows:	
Well Pad Name: _S  Notice has been given:  Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required par	
Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required par	
haloss for the treet of land or follower	ies with the Notice Forms listed
State: WEST VIRGINIA UTM NAD 83 Easting: 514177.83	
County: TYLER Northing: 4358039.8	550
	RTH RIDGE ROAD
Quadrangle: WEST UNION Generally used farm name: ASH	
Watershed: MIDDLE ISLAND CREEK	
it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b information required by subsections (b) and (c), section sixteen of this article; (ii) that the requiremen of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this requirements of subsection (b), section sixteen of this article were waived in writing by the surface Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notion of this article have been completed by the applicant.	was deemed satisfied as a result article six-a; or (iii) the notice e owner; and Pursuant to West
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 CONDUCT	ED RECEIVED
■ 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	☐ RECEIVED/ NOT REQUIRED
☐ WRITTEN WAIVER BY SURFACE OWN (PLEASE ATTACH)	ER
■ 4. NOTICE OF PLANNED OPERATION	☐ RECEIVED
■ 5. PUBLIC NOTICE	□ RECEIVED
LI 3. FUBLIC NOTICE	1

## 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.

Shr 38IHSM WW-6AC (1/12)

## 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

By: ERIKA WHETSTONE PAR TO THE PART OF THE

By: ERIKA WHETSTONE BUTTER TWEETER THE STATE OF THE STATE

Telephone: 724-485-4035

Commonwealth of Rehhakivania-Hotary Seal Lori L. Walker, Notary Public Greene County

My commission expires February 23, 2023 Commission number 1260781

Member, Pennsylvania Association of Notaries

Address: 1000 CON

1000 CONSOL ENERGY DRIVE

CANONSBURG PA 15370

Facsimile:

Email: ERIKAWHETSTONE@CNX.COM

Subscribed and sworn before me this 230 day of

day of

Notary Public

My Commission Expires

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) APHNO. 40 00 5 0 2 6 4 8
OPERATOR WELL NO. SHR38IHSM
Well Pad Name: SHR38

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. 3 9 Date Permit Application Filed: 7 23 9 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) REGISTERED PERSONAL ✓ METHOD OF DELIVERY THAT REQUIRES A SERVICE. MAII. 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. (e)(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: COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name: SEE ATTACHED Name: SEE ATTACHED Address: Address: COAL OPERATOR Name: Address: Name: Address: ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) SURFACE OWNER OF WATER WELL RECEIVED Office of Oil and Gas Name: Address: AND/OR WATER PURVEYOR(s) Name: SEE ATTACHED Address: Name: Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD of Environmental ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Address: Address: \*Please attach additional forms if necessary

WW-6A (8-13) 47 09 5 02 6 4 8

API NO. 47- 095

OPERATOR WELL NO. SHR3BIHSM

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.

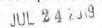
Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

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 <a href="www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

#### 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. (c) 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)

API NO. 47- 095

OPERATOR WELL NO. SHR38IHSM

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 5 026 4 8
API NO. 47-095
OPERATOR WELL NO. SHR3BIHSM
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 <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> 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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JUL 2 4 2019

WW-6A (8-13)

API NO. 47-095

OPERATOR WELL NO. SHR38IHSM Well Pad Name: SHR38

Notice is hereby given by:

Well Operator: CNX GAS COMPANY LLC

Telephone: 724-485-4035

Email: ERIKAWHETSTONE@CNX.COM

Address.	1000	CONSOL	<b>ENERGY</b>	DRIVE

CANONSBURG, PA 15317

Facsimile:

## Oil and Gas Privacy Notice:

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

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Commonwealth of Pennsylvania - Notary Seal Lori L. Walker, Notary Public Greene County My commission expires February 23, 2023

Commission number 1260781 Member, Pennsylvania Association of Notaries Subscribed and sworn before me this 23 day of

Notary Public

My Commission Expires

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		
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Bryan Ervin Ash	8707 Middle Island Road Alma, WV 26320		
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Pamela Kay Moore (	2450 Stockton Road Frankfort, KY 40601		
Becannray LLC	5042 Tyler Highway Sistersville, WV 26175		

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JUL 2 4 2019

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

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JUL 2 4 2019

47 09 5 0 2 6 4 8 01-12-10 01-12-21 01-13-7/1 01-12-23 05-21-9 Lat: 39.37487 Mistake Long: -80.835738 N: 14298425.0547 01-15-4 E: 1686835.25673 Access Entrance: Duckworth Rd Wilbur McElroy MANDU 01-15-6.1 Lat: 39.372871 Long: -80.835639 05-21-11) N: 14298425.0547 E: 1686864:37197 5p 01-15-11 01-16-14 Tyler Centerville SHR38 01-15-15 Du Duckworth Rd Lat:39.371371 Long: -80.835364 N:14297879.1319 E:1686943:13757 01-16-20 01-16-23 01-15-19 01-15-26 E 01-15-39 01-17-10 01-1845 01-18-1 01-18-1 01-17-11 01-18-1 7 401:184 01-17 01-18-14 2,000 1,000 Legend PECEIVED A 1 inch = 1,500 feet Office of On === Access Road Wellbore Original Date: 5/8/2018 Prepared By: GIS JUL Popographic Well Map Surface Parcel X Access Points Well Pad Revision Date: 5/8/2018 Approved By GIS information that is proprietary and confidential in nature and may not be copied or reproduced without prior written consent Environmental Support SHR38 Sp 1,500 Foot Buffer St 2,500 Foot Buffer

W

1 Mile Buffer

4 7 Operator Well No. 2 SHR38HSM 8

# 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.

	Requirement: Notice shall be provided ce: 123/19 Date Po	at least TEN (10) days prior to filing a ermit Application Filed:	permit application.
Delivery me	thod pursuant to West Virginia Code §	22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVE		FOLIESTED	
receipt reque drilling a hor of this subsec- subsection m and if availab	sted or hand delivery, give the surface ov- izontal well: <i>Provided</i> , That notice give ction as of the date the notice was provide ay be waived in writing by the surface ov- ole, facsimile number and electronic mail	wher notice of its intent to enter upon the pursuant to subsection (a), section to ed to the surface owner: <i>Provided, how</i> wher. The notice, if required, shall includers of the operator and the operator	an operator shall, by certified mail return the surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this dude the name, address, telephone number, or's authorized representative.
	reby provided to the SURFACE O	The state of the s	
Name: SEE AT	TACHED		
Address:		Address:	
	Vest Virginia Code § 22-6A-16(b), notice wher's land for the purpose of drilling a harmonic west virginia. Tyler Centerville West union MIDDLE ISLAND CREEK		514177.8370 4358039.8550 DUCKWORTH RIDGE ROAD RECEIVED Office of Oil and Gas
This Notice Pursuant to facsimile nur related to hor	Shall Include: West Virginia Code § 22-6A-16(b), thi mber and electronic mail address of the rizontal drilling may be obtained from the	e operator and the operator's authorize the Secretary, at the WV Department of	JUL 2 4 2019  WV Department of ress, telephone number manchine available ction ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is he	ereby given by:		- RECEIVED
	PT: CNX GAS COMPANY LLC	Authorized Representative:	
Address:	1000 CONSOL ENERGY DRIVE	Address:	1000 CONSOL ENERGY DRIVE
CANONSBURG	PA 15370	CANONSBURG PA 15370	302 24 2019
Telephone:	724-485-4035	Telephone:	724-485-4035 WV Oscartmont 4
Email: Facsimile:	ERIKAWHETSTONE@CNX.COM	Email: Facsimile:	ERIKAWHETSTONE@CNX.COM mental Protection

### Oil and Gas Privacy Notice:

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

## Surface Owners:

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Bessie Warner	771 McElroy Creek Road Alma, WV 26320

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Operator Well No. OHRABIHSM 4 8

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

Delia	ery metl	ood pursuant to West Virginia (	Code S	22-64-16(e)			
-	cry men	iou pursuant to west virgima	coue 9				
	CERTIF	IED MAIL		HAND			
	RETUR	N RECEIPT REQUESTED		DELIVERY			
return the p requi drillin dama (d) T of no	n receipt of all anned of red to be ng of a hages to the he notice tice.	Va. Code § 22-6A-16(c), no la requested or hand delivery, give to peration. The notice required by provided by subsection (b), section orizontal well; and (3) A propose surface affected by oil and gas of a required by this section shall be by provided to the SURFACE (	the surface y this son ten of sed surface operation given to	ace owner whose land ubsection shall inclu of this article to a surf face use and compen- ns to the extent the da to the surface owner a	I will be used for de: (1) A copy ace owner whose sation agreement images are com	or the drilling of this code se land will b nt containing pensable und	of a horizontal well notice of section; (2) The information e used in conjunction with the an offer of compensation for er article six-b of this chapter.
		listed in the records of the sherif					
Nami	OCE ATT	CHED		Name:			
LAGILL	e: SEE ATT	MILLO	_	remine.			
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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.

SHR38HSM

## WW-6A5 Notice of Planned Operations

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
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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 SHR38IHSM 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, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Shannon Miller

CNX Gas Company LLC

CH, OM, D-6

File

## <u>Proposed Additives to be used in Fracturing or Stimulations</u>

Type: Water CAS: 7732-18-5

Type: Silica CAS: 14808-60-7

Type: Hydrochloric Acid CAS: 7647-01-0

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

Type: Petroleum distillate CAS: 64742-47-8

Type: Glutaraldehyde CAS: 111-30-8

Type: Ethylene glycol CAS: 107-21-1

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

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

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

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

Type: Ammonium chloride CAS: 12125-02-9

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

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

Type: Metanol CAS: 67-56-1

Type: Formaldehyde CAS: 50-00-0

Type: Thiourea CAS: 62-56-6

Type: Acetophenone CAS: 98-86-2

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Office of Oil and Gas

JUL 2 4 2019



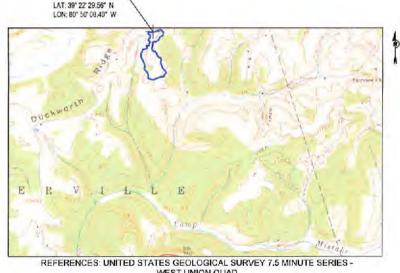
## SITE AS-BUILT SHRL38 WELL SITE

CENTERVILLE DISTRICT TYLER COUNTY, WEST VIRGINIA
CNX RESOURCES CORPORATION

ENTRANCE ACCESS

## NOTES: 1.1 SURVEY DATA REFERENCE TO WASPC NORTH ZONE HORIZONTAL (NAD 83-2011 VERTIGAL (NAVD 88) 2.) TOPOGRAPHIC DATA - SURVEY DERIVED (83/88) - 2-FT. CONTOUR INTERVAL 3.) TOPOGRAPHIC PLAN BASED ON FIELD RUN SURVEY BY DIEFFENBAUCH & HRITZ, LLC ON AUGUST 12, 2019 LEGEND SURVEYED MAJOR CONTOUR SURVEYED MINOR CONTOUR OVERHEAD ELECTRIC UNDERGROUND ELECTRIC LINE SILT FENCE COMPOST FILTER SOCK ISSTE NOTED BY PLANT DITCH FLOW LINE POWER POLE CHY WIDE GAS LINE MARKER TELEPHONE BOX RISER (SIZE NOTED IN FLAV) WATER VALVE PAD/ACCESS ROAD ASPHALT ENTRACE

SAFETY BERM



WEST UNION QUAD

LOCATION MAP

PROJECT # 19016-030 AUGUST 2019 DIEFFENBAUCH & HRITZ, LLC

#### SHEET INDEX

- COVER SHEET
- 2.3 PLANVIEW
- MAIN ACCESS ROAD PLAN / PROFILE
- SECOND ACCESS ROAD PLAN / PROFILE





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