

west virginia department of environmental protection

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

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

Tuesday, February 26, 2019 WELL WORK PERMIT Horizontal 6A / New Drill

CNX GAS COMPANY LLC POST OFFICE BOX 1248

JANE LEW, WV 263786506

Re:

Permit approval for SHR 38 DHSM

47-095-02569-00-00

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: SHR 38 DHSM

Farm Name: JAMES E. ASH ET AL

U.S. WELL NUMBER: 47-095-02569-00-00

Horizontal 6A New Drill Date Issued: 2/26/2019

API Number: 95-0301919

PERMIT CONDITIONS

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

CONDITIONS

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

API Number: 9508/01509

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, cessation of drilling, sending an email to DEPOOGNotify@wv.gov.

WW-6B (04/15)

API NO. 47-

03/01/2019

OPERATOR WELL NO. SHR38DHSM
Well Pad Name: SHR38

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

1) Well Opera	tor: CNX Gas	Company, LLC	49445804	F6 Tyler	Centervi	West Union
			Operator	ID County	District	Quadrangle
2) Operator's '	Well Number: S	HR38DHSM	W	ell Pad Name: S	HR38	
3) Farm Name	/Surface Owner:	Ash	Publ	ic Road Access:	Duckworth R	idge Road
4) Elevation, c	current ground:	1026'	Elevation, pro	posed post-const	ruction: 1012	7
5) Well Type	(a) Gas	X Oil		Underground S	torage	
	(b)If Gas Sh	allow	X De	ер		-O AD
	Но	orizontal	X		(JOB 1208
6) Existing Pac	d: Yes or No	No)			10/24/0
. X		**		eness and Expect hick, expected for		
8) Proposed To	otal Vertical Dep	th: 6480'				
9) Formation a	at Total Vertical	Depth: Marcell	us Shale (will	not penetrate C	nondaga)	
10) Proposed	Total Measured I	Depth: 20,283'	The state of the s			
11) Proposed 1	Horizontal Leg L	ength: 12,777				
12) Approxim	ate Fresh Water	Strata Depths:	114', 209'	, 225', 415'		
13) Method to	Determine Fresh	Water Depths:	Offset well i	nformation		
14) Approxim	ate Saltwater De	oths: 1932'				
15) Approxim	ate Coal Seam D	epths: No know	vn mineable o	coal seams; trac	e @ 108', 120	08'
16) Approxim	ate Depth to Pos	sible Void (coal	mine, karst, ot	ther): None anti	cipated	
	oosed well location				No	Х
(a) If Yes, pr	rovide Mine Info	: Name:				
		Depth:		Office of Oil	ED	
		Seam:		DEC .		
		Owner:			2018	
				WV Departm Environmental P	ent of rotection	

Well Pad Name: SHR38

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	L/S	<94.0	100	100	96 / CTS
Fresh Water	13.375	New	J-55	54.5	565	565	392 / CTS
Coal	N/A						
Intermediate	9.625	New	J-55	36.0	2550	2550	827 / CTS
Production	5.5	New	P-110	20.0	20283	20283	4062 / TC @ 2050'
Tubing	2.375	New	J-55	4.7		TBD	N/A
Liners	N/A						



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	N/A						
Intermediate	9.625	12.25	0.352	3520	<2815	Class A	1.19
Production	5.5	8.75 x 8.5	0.361	12360	~10000 during frac	Class H	1.10
Tubing	2.375	N/A	0.190	7700	N/A	N/A	N/A
Liners	N/A						

PACKERS

Kind:	N/A		
Sizes:			
Depths Set:			

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470	95	0 2 3/09/2019
API NO. 47	-	03/01/2019

OPERATOR WELL NO. SHR38DHSM

Well Pad Name: SHR38

19)	Describe pr	roposed well	work,	including	the	drilling	and p	lugging	back o	fany	oilot 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 casing. Note that there are no known mineable coal seams in this area. 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 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.

4709502569

SHR38 Cement Additives

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 H cement or Class H:Poz blend with dry blend and/or liquid additives including retarder, suspension agent, gas block, defoamer, fluid loss control, extender, dispersant, anti-settling agent. Actual cement blends may vary slightly depending upon cementing service company utilized.

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1012 GL Elevation	U	-	×					SHR38DHSM Marcellus Sh Tyler Co	DRILLING WELL PLAN SHR38DHSM (Marcellus HZ) Marcellus Shale Horizontal Tyler County, WV	
17-12 160.99 SHR38DHSM LP N 306709.224 E 1620652.					ES.	R38DHS	SM SHL	N 32(0137.56, E 1622477	.87 (NAD27)
17-167 12-38** Gae Conductor 100 100 AIR To Surface N/A To Surface Surface N/A To Surface Surface N/A To Surface Surface N/A To Surface Surface N/A To Surface Surface Surface N/A To Surface Surfac	Ground Elevation		levation		S	R38DH	SMLP	N 318	3789.24, E 1620652	32 (NAD27)
HOLE CASING GEOLOGY MD TVD MUD CEMENT CENTRALIZERS CONDITIONING	Azimuth	160.	.66		SHI	R38DHS	SM BHL	N 306	5709.22, E 1624813	3.25 (NAD27)
10 100	WELLBORE DIAGRAM HOLE	H	GEOLOGY	MD	5	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
13-38° 154.5# PW Mist 114 13-38° 154.5# PW Mist 141 PW Mist PW	24"		Conductor	100	90	AIR	To Surface	N/A	NIA	Stabilize surface fill/soil
13-36° 54.58 Prof. 4.14 pps Flake Fresh Water Casing 565 565				L	411		15.6 ppg Class A + 1% to 3% CaCl2	Centralize every other		Set through fresh water zones
Fresh Water Casing 565 565 TOC @ surface Centralize every 3rd	311-71		Deepest		415	AIR / FW Mist	+ 1/4 pps Flake 20% OH Excess Yield = 1.19	Surface Surface Row coring contralizate	Ensure the hole is clean at section TD	Cemented to surface No known mineable coal seams
Big Line 1867 1872 1867 186			Fresh Water Casing	599	565		TOC @ surface	Some spring contrained		
9-5/8° 36.0# Big Lime 1932 -5/8° 36.0# Big Injun 1932 -5/8° 36.0# Big Injun 1932 -5/8° 36.0# Price 2072			No known coal zones		N/A					
Big Injun 1932 + 10% to 2% CaCl2 Joint from sheet of surface 1932 + 104 pps Flake 1,19 20% CaCl2 Soap The let school of the mole as needed 1,19 2232 242 TOC ® surface Soap the hole as needed 1,19 TOC ® surface TOC ®			Big Lime		1867		15.6 ppg Class A	Centralize every 3rd		Set through potential salt water
Price 2072 Soap Yield = 1.19 Price 208 of Price		AC OC HOLT O			1932	/ OIV	+ 0% to 2% CaCl2	joint from shoe to	Soap the hole as needed	Cemen
Note	12-1/4				2072	Soap	20% OH Excess	surface	and ensure the hole is clean at section TD	
Intermediate Casing 2560 2560 2560 Gordon 2642 4917 4917 4917 4917 4917 4917 4917 4917 4917 4917 4917 4917 4918 4918 4918 4919 49			Weir		7677		TOC @ surface	Bow spring centralizers		Injun and Berea and into Devonian
Intermediate Casing 2560 2660 2660 2660 2642			Berea		2422					Shale
Gordon 2642 AIR 4917 bit of pag class H additives (retarder, suspension agent, gas Diock, defoamer, fluid Four store to TOC 4917 bit of pag class H additives (retarder, suspension agent, gas Diock, defoamer, fluid Four store to TOC AIR additives (retarder, suspension agent, gas Diock, defoamer, fluid Four store to TOC Centralize every joint from shoe to TOC Once at TD, circulate at max rotation until shaker s dean-up (typically requires multiple bottoms-up) 5-1/2" 20.0# Middlesex 6.267 10% OH Excess Single-piecer/ligid bow centralizers (typically requires multiple bottoms-up) P-110 VAR West River 6.307 10% OH Excess Single-piecer/ligid bow centralizers Once on bottom with casing, circulate at max rotation agent, gas per SOBM Hamilton 6.407 12.0-12.8 TOC @ >= 500' above TOC Circulate at max rotation agent, gas provided bow circulate at max rotation agent, gas per SOBM 9-5/8" shoe Marcellus 6.407 12.0-12.8 ROC @ >= 500' above TOC Production Casing			Intermediate Casing	2550	2550					
Warren 3337 AIR with additives (retarder. suspension agent, gas block, defoamer, fluid			Gordon		2642					
15.0 ppg Class H			Warren		3337					
5-1/2" 20.0# Middlesex 6267 10% OH Excess Formula or agent, gas book, defoamer, fluid	8-3/4 Tange	ant.	Alexander		5162	AIR	vith additives (retarder,		Once at TD, circulate at max	
5-1/2** 20.0# Middlesex 6267 Indiciplesex 6267 Indiciplesex 6307 Indiciplesex 6307 Indiciplesex 6307 Indiciplesex			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
P-110 VAR West River 6307 Tolk of the control of th		5-1/2" 20.0#	Middlesex		6267		loss, extender, etc.)	from shoe to TOC	(typically requires multiple bottoms-up)	conditions
Burkett 6377 Yield = 1.10 Centralizers Circulate a minimum of one processing. Tully 6407 12.0-12.8 TOC @ >= 500' above Possible a processing of the processing		P-110 VAR	West River		6307		10% OH Excess	Single-piece/rigid bow	prises this method no son	Z
Tully 6407 12.0-12.8 TOC @ >= 500′ above hole volume prior to pumping cement Hamilton 6428 Ppg SOBM 9-5/8" shoe pumping cement Marcellus 6447 Production Casing 220283 6480			Burkett		6377		Yield = 1.10	centralizers	circulate a minimum of one	>
Hamilton 6428 ppg SOBM 9-5/8" shoe Marcellus 6447 Production Casing 20283 6480	8-1/2" C	IIIVe	Tully		6407	12.0-12.8	TOC @ >= 500' above		hole volume prior to	service corribariy unized
20283	& Late	aral	Hamilton		_	PPG SOBM	9-5/8" shoe		pumping cement	
20283			Marcellus		6447					
			Production Casing	20283	6480					

8102/52/1926



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.

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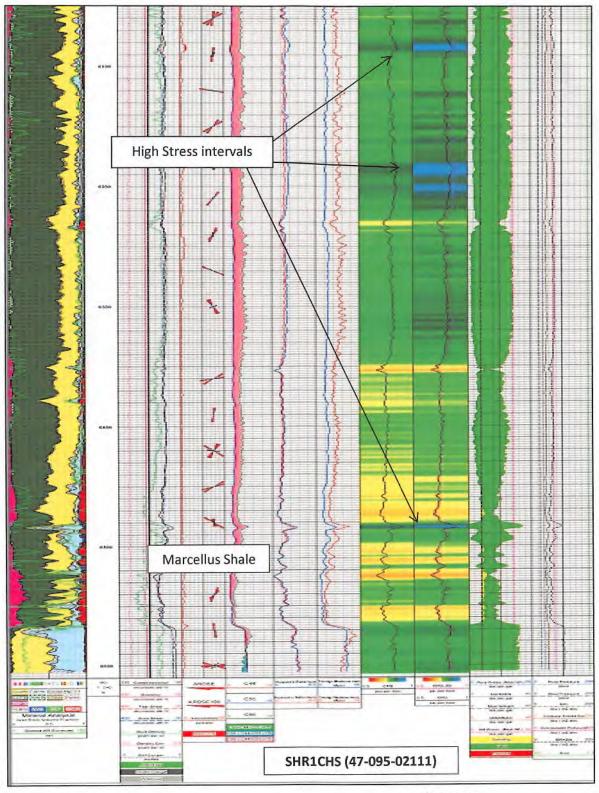


47 1 9 5 0 2 5 6 9 03



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.



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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.

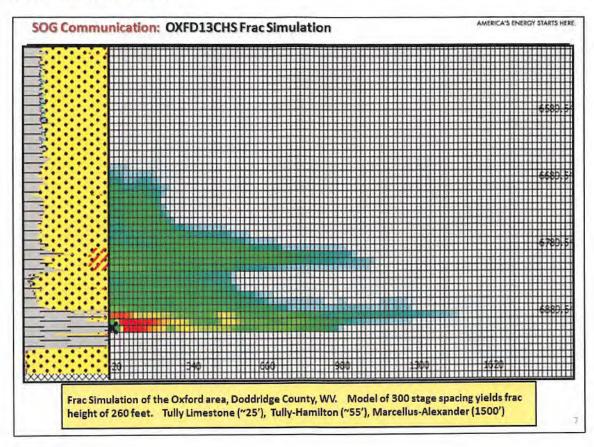






Figure 3. All wells within 500' buffer around the SHR38 pad have been reviewed and listed below.

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WV Department of Environmental Protection

Figure 4. All wells within 500' buffer around the SHR38 pad have been reviewed and listed below. Three pre-permit wells had no data (highlighted pink).

API	STATE	COUNTY	LATITUDE	LONGITUDE	OPERATOR	STATUS	WELL_NAME	WELL_NO	TD	FMTD	ELEVATION
4701702361	WV	Doddridge	39.33791934	-80.82944913	Industrial Gas Associates	Dil and Gas	LGHammer 2		2396	Weir	990
4701702462	WV	Doddridge		-80.82341529	J & J Enterprises, Inc. Now Doddridge 2936	not available	Paul Strickling		Dodd 2936	Dodd 2936	830
4701702936	WV	Doddridge	39.34430633	-80.82337929	J& J Enterprises, Inc.	Gas	P Strickling 1		4900	Benson	845
4701703058	WV	Doddridge		-80.8266802	J & J Enterprises, Inc.	Gas	Middle Island		5117	Alexander	1039
4701703252	WV	Doddridge			J & J Enterprises, Inc.	Gas	W & V McCutcheon	1.	5500	Alexander	1092
4701703586	WV		39.37483806	-80.83367761	Never Drilled (Canceled permit)	Not Drilled	Never Drilled (Canceled)		not drilled	not drilled	960
4701771437	WV		39.33436122	-80.82657418	Hope Natural Gas Company	not available	McCutchan-Haines				1135
4701771535	WV		39.33871526		Hope Natural Gas Company	not available	N A Joseph			W. F	977
4709500097	WV	Tyler	39.37191314	-80.84222593	Pigott, L. G.	Gas	John Ash	13	2005	Big Injun (undiff)	941
4709500103	WV	Tyler	39.38803655	-80.84941881	Bachelor, D.	Oil and Gas	DDDavis	. 1	1925	Big Injun (undiff)	946
4709500113	WV	Tyler	39.38780257	-80.85102277	Oper in Min. owner fld, no code assgn(Orphan well proj)	Oil and Gas	DDDavis	2	1885	Big Injun (undiff)	830 873
4709500120	WV	Tyler	39.38944545		Oper in Min. owner fld, no code assgn(Orphan well proj)	Dry w/ Gas Show	W C Pierson / Josephs Mills	1	1952	Squaw	803
4709500123	WV	Tyler	39.38858257		Oper in Min. owner fld, no code assgn(Orphan well proj)	Dil w/ Gas Show	DDDavis	3	1883	Big Injun (undiff)	927
4709500208	WV	Tyler	39.39188259		Bachelor, D.	Dry w/ O&G Show	Frank H Ash	1	2109	Price Fm & equivs	785
4709500300	WV	Tyler	39.35951588		Prior, Ferrell L	Gas	Alexander Doak Heirs		1836	Big Injun (undiff)	867
4703500508	WV	Tyler	39,3854884		Equitable Gas Co.	Gas	WNMoore	1	2209	Big Injun (undiff) Berea Ss	760
4709500757	WV	Tyler	39.34307445		Industrial Gas Associates	Oil and Gas	Delmer Mulvay Izetta B Garner	6	4901	Benson	790
4709500870	WV	Tyler		-80.82286032	J& JEnterprises, Inc.	Gas		1	2387	Berea Ss	975
4709500876	Ma.	Tyler	39.36557401 39.38476329		L. & M. Petroleum Co. J & J Enterprises, Inc.	Gas Gas	Jacob L Dillon W Paul McCutchen		5122	Alexander	735
4709500924	WV	Tyler			J& J Enterprises, Inc. J& J Enterprises, Inc.	Gas	Jay & Mary Collins		5279	Alexander	883
4709500955 4709500956	WV	Tyler	39,3483235 39,35286655		J& JEnterprises, Inc. J& JEnterprises, Inc.	Gas	Jay & Mary Collins		5430	Alexander	1028
		Tyler	33.35339266		J& J Enterprises, Inc.	Gas	Edwin D Mulvay et ux		5177	Benson	763
4709501036 4709501101	WV	Tyler	39,37483806		Never Drilled (Canceled permit)	Not Drilled	Never Drilled (Canceled)		not drilled	not drilled	960
4709501107	WV	Tyler Tyler	39,3568727		Union Drilling, Inc.	Gas	Karen Jane Osborne	3	5306	Alexander	763
4703501101	WV	Tyler	39,35687256		Union Drilling, Inc.	Gas	Karen Jane Osborne	1	5240	Alexander	978
4703501108	WV	Tyler	39.35759781	-80.837443	Union Drilling, Inc.	Gas	Karen Jean Osborne	2	5325	Alexander	943
4709501178	WV	Tyler	39.37483806		Never Drilled (Canceled permit)	Not Drilled	Never Drilled (Canceled)	-	not drilled	not drilled	960
4709501206	WV	Tuler	39.37483806		Never Drilled (Canoeled permit)	Not Drilled	Never Drilled (Canceled)	2000	not drilled	not drilled	960
4709501226	WV	Tyler	39.3728251	-80.839312	DAC, Inc.	Dry	Verna O Ash	1	5140	Benson	1013
4709501227	WV	Tyler	39.37456504		DAC, Inc.	Gas w/ Oil Show	Verna O Ash	2	5142	Benson	986
4709501234	wv	Tyler	39.37064915	-80.8436089	DAC, Inc.	Gas	James E Ash	1	5096	Benson	909
4709501235	WV	Tyler	39.38838857		DAC, Inc.	Gas	Geneva Fouts Bullman	1	4890	Benson	812
4709501237	WV	Tyler	39.37006898		DAC, Inc.	Gas	Verna O Ash	3	5157	Benson	1029
4709501238	WV	Tyler	39.37722216		DAC, Inc.	Gas	Edna Dillon	1	5129	Benson	957
4709501254	WV	Tuler	39.36731382	-80.82921722	Stonewall Gas Co., Inc.	Gas	Charles Lee Cumberledge	1	5150	Benson	1018
4709501266	WV	Tyler	39.37780228	-80.8441709	Anvil Oil Co., Inc	Dry	David A Preston	1	4868	Benson	747
4709501269	WV	Tyler	39.3808472	-80.83763106	Anvil Oil Co., Inc	Gas	Lawrence Mercer	1	5007	Benson	850
4709501283	WV	Tyler	39.38592343	-80.8452929	Anvil Oil Co., Inc	Gas	Bruce & Veronica Smith	1	5009	Benson	863
4709501285	WV	Tyler	39.38954841	-80.84062202	Anvil Oil Co., Inc	Gas	James C Ferrell	1	5100	Benson	1032
4709501286	WV	Tyler	39.39534969	-80.8505278	Coastal Corp, The	Gas w/ Oil Show	Robert H Tennant	1	5005	Benson	826
4709501300	WV	Tyler	39.36122369	-80.82790623	Stonewall Gas Co., Inc.	Gas	John R Pratt	2	5150	Benson	949
4709501304	WV	Tyler	39.37384024		Coastal Corp, The	Gas	Duane Clark et al	1	4923	Benson	758
4709501312	WV	Tyler	39.37483806		Never Drilled (Canceled permit)	Not Drilled	Never Drilled (Canceled)	-	not drilled	not drilled	960 926
4709501314	WV	Tyler	39.36107879		Eastern American Energy Corp.	Gas	Charles Daughtery et al	3	5090 5167	Benson Benson	1012
4709501318	WV	Tyler	39.36658893		Eastern American Energy Corp.	Gas	Charles Daughtery et al		not drilled	not drilled	960
4709501332	WV	Tyler	39.37483806		Never Drilled (Canceled permit)	Not Drilled	Never Drilled (Canceled)	1	5069	Benson	956
4709501336	WV	Tyler	39,38635824		Anvil Oil Co., Inc	Gas	Elmer Ceoil Timothy N Ingoglia	1	5045	Benson	949
4709501338	WV	Tyler	39.38215313		Anvil Oil Co., Inc	Gas	Ryan J Lind et ux	1	4907	Benson	785
4709501350	WV	Tyler	39.3857785	-80.84902981	Anvil Oil Co., Inc	Gas	Robert H Tennant	2	5034	Benson	924
4709501351	WV	Tyler	39.39172362	-80.8499658	Anvil Oi Co., Inc	Gas Gas	Matthew Ash	3	5136	Benson	1049
4709501382	WV	Tyler	39.38563332		Anvil Oil Co., Inc Anvil Oil Co., Inc	Gas	Matthew Ash	4	5117	Benson	1027
4703501383	WV	Tyler	39.38331337	-80.84398492 -80.8309022	DAC, Inc.	Gas	Conrad Costilow	1-A	2136	Big Injun (undiff)	976
4709501405	WV	Tyler	39.37282494		Anvil Oil Co., Inc	Gas	Lawrence Mercer Hrs	5	5002	Benson	893
4709501428	WV	Tyler	39.38070228	-80.84192836		Dry	Verna D Ash	4	2155	Big Injun (undiff)	1036
4709501486		Tyler Tyler	39.37152 39.39563978	-80.8548267	Sancho Oil & Gas	Gas w/ Oil Show	Donna Marie Vandine	2	6280	Maroellus Sh	728
4709501951	WV	Tyler	39.33563376			Cas wi Circlion	JE Ash et al	SHR08L	not drilled	not drilled	1019
4709502245		Tyler	39.38142731			Gas	Lucretta Mercer	2	2101	Squaw	954
4709530346		Tyler		-80.83688306		Gas	PPDoak	7-65	1992	Big Injun (undiff)	972
4709530650	WV	Tyler	39.35807958		Hope Natural Gas Company	Gas	AUDavis		1972	Big Injun (undiff)	885
4709530824		Tyler	39,33001330			Gas	Lawrence Mercer	-1	1904	Squaw	738
4709530855	WV	Tyler	39.34821857	-80.83255109	Hope Natural Gas Company	Gas	Wm Smith		1836	Big Injun (undiff)	763
4709530687	WV	Tyler	39.37490217			Gas	Martin M Grove		2010	Big Injun (undiff)	903
			39.37864113		South Penn Oil (S. Penn Nat. Gas)	not available	John Mercer	1	1841	Big Injun (undiff)	770
4709570182	WV	Tyler									774



47095025 63901/2019

API Number 47 - ____

Operator's Well No. SHR38DHSM

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CNX Gas Company, LLC OP Code 494458046	
Watershed (HUC 10) Headwaters Middle Island Creek Quadrangle West Union	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes	No 🗌
Will a pit be used? Yes No	
If so, please describe anticipated pit waste: no pits	
Will a synthetic liner be used in the pit? Yes No If so, what ml.? NA	neb.
Proposed Disposal Method For Treated Pit Wastes:	7.120 2018
Land Application	11/211
Underground Injection (UIC Permit Number 47-001-00561, 47-097-01514, 47-097	7-01613, 34-013-2-0609
Reuse (at API Number SHR35 wells API TBD	
Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain No Pits	
Other (Explain No. 18)	
Will closed loop system be used? If so, describe: Yes	
	air from spuc/surface to curve kick-off point (KOP),
-If oil based, what type? Synthetic, petroleum, etc. Synthetic -If oil based, what type? Synthetic, petroleum, etc. Synthetic	OBM) from curve KOP to lateral TD
Additives to be used in drilling medium? Bactericide, Polymers, and Weighting Agents	
	cultings will be taken in an angroved I andfill
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Land Application of soil conductor cuttings only, rook	cutings and be taken to an approved curation
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A	
-Landfill or offsite name/permit number? See attached.	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associate West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee it was properly disposed.	ted waste rejected at any nittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERAL WATER PC on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Prot provisions of the permit are enforceable by law. Violations of any term or condition of the general pelaw or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the imapplication form and all attachments thereto and that, based on my inquiry of those individuals in obtaining the information, I believe that the information is true, accurate, and complete. I am away penalties for submitting false information, including the possibility of fine or imprisonment.	ection. I understand that the ermit and/or other applicable formation submitted on this mmediately responsible for re that there are significant
77000	Office of Oil and Gas
Company Official (Typed Name) Raymond Hoon	DEC 4 2018
Company Official Title Supervisor - Permitting Env.	WV Department of ironmental Protection
Subscribed and sworn before me this 27 day of November , 20 18	
1 1000	Commonwealth of Pennsylvania
Notary Public	Notarial Seal
My commission expires 10-31-20-21	JUDY L SNYDER – Notary Public CECIL TWP, WASHINGTON COUNTY My Commission Expires Oct 31, 202

roposed Revegetation Treating	nent: Acres Disturbed 1	5.57 Prevegetation	_{pH} 6.5
Lime according to pH	test Tons/acre or to corre	ct to pH 7.0	
Fertilizer type 10-2	0-20		
Fertilizer amount 50	00	lbs/acre	
Mulch_ hay or stra	aw @ 2	_Tons/acre	
		Seed Mixtures	
Ten	nporary		manent
Seed Type Orchard Grass	lbs/acre 25	Seed Type Orchard Grass	lbs/acre 25
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15
Ladino Clover	10	Ladino Clover	10
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application	it will be land applied, incon area.	d application (unless engineered plans incolude dimensions (L x W x D) of the pit, a	luding this info have been and dimensions (L x W), a
Attach: Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by:	it will be land applied, incon area.	clude dimensions (L x W x D) of the pit, a	luding this info have been and dimensions (L x W), a
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involv	it will be land applied, incon area.	clude dimensions (L x W x D) of the pit, a	luding this info have been and dimensions (L x W), a
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by:	it will be land applied, incon area.	clude dimensions (L x W x D) of the pit, a	luding this info have been and dimensions (L x W), a
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by:	it will be land applied, incon area.	clude dimensions (L x W x D) of the pit, a	luding this info have been and dimensions (L x W), a
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by:	it will be land applied, incon area.	clude dimensions (L x W x D) of the pit, a	luding this info have been and dimensions (L x W), a
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by:	it will be land applied, incon area.	clude dimensions (L x W x D) of the pit, a	luding this info have been and dimensions (L x W), a
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by:	it will be land applied, incon area.	clude dimensions (L x W x D) of the pit, a	luding this info have been and dimensions (L x W), a
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by:	it will be land applied, incon area.	clude dimensions (L x W x D) of the pit, a	luding this info have been and dimensions (L x W), a
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Comments:	it will be land applied, incon area. The second se	clude dimensions (L x W x D) of the pit, a	luding this info have been and dimensions (L x W), a
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Comments:	it will be land applied, incon area.	clude dimensions (L x W x D) of the pit, a	RECEIVED Office of Oil and Ga

				13161	MITK	OTTED NOR-IEW	ARDOUS WA	OLE MAL	OWITH	CHILITIES	co more ray) c	-43-4010)		
epublic Services (Allied W	Vaste)		Gas Spec	cific Waste	Streams			(Other Accepted	i Waste Stream	ns				
Landfill	Location		Drill * Cuttings	Waste Liners	Waste Brine	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Sludge	Friable Asbestos	Non-Friable Asbestos	Process Waste	Solidification Services	Municipal Solid Waste	Contact Information
AcLean County	Bloomington	IL	X	X		X	X	X	X	X	X	Х		X	
RC/Coles County	Charleston	IL	Х	х		Х	X	X	X	X	X	X		Х	
rickyard Disposal	Danville	IL	X	X		X	X	X	X	X	X	X		X	
outhern Illinois Regional	De Soto	IL												X	
ee County	Dixon	IL	X	Х		X	X	X	X	X	X	Х	0.00	X	
Ipper Rock Island	East Moline	IL	X	X		X	X	X	X	X	X	х		X	17-921-1667 or 480-627-2700
Bond County	Greensville	IL	X	X		X	X	X	X	X	X	X		X	
llinois	Hoopeston	IL	Х	X		X	X	X	X	X	X	X		X	
andComp	LaSalle	IL	Х	х		X	X	X	X	X	X	X			
itchfield-Hillsboro	Litchfield	IL	X	х		Х	X	X	- X	X	X	Х		X	1-800-634-0215
Invirontech	Morris	IL.	X	X		X	X	X	X	X	X	X		X	
ivingston	Pontiac	IIL.	х	X		X	X	X	X		X	X		X	
охапа	Roxana	IL	X	X		X	X	X	X	X	X	X	X	X	
angamon Valley	Springfield	IL.	X	X		X	X	X	X	X	X	Х		X	
enson Valley	Frankfort	KY	х	X		X	X	X	X	X	X	X		X	
lue Ridge	Irvine	KY		X		X	X	X	X	X	X	Х		X	
Morehead	Morehead	KY	X	X		X	X	X	X	X	X	X	0.00	X	
Freen Valley	Rush	KY	X	X		X	X	X	X	X	X	X	X	X	
herokee Run	Bellefontaine	OH				X	X	X	X		X	X		X	
Villiams County	Bryan	OH				X	X	X	X	X	X	X		X	
County Environmental	Carey	OH				X	X	X			X	X		X	
elina	Celina	OH				X	X	X	X		X	X		X	
Carbon-Limestone**	Lowellville	OH		X		X	X	X	X			X	X		Jack Palermo:
Countywide Landfill**	East Sparta	OH		X		X	X	X						X	work: 330-536-8013
orain County	Oberlin	OH			1/2	X	X	X	X			x		X	
Dakland Marsh	Shiloh	OH					X	X	X	X	X			X	cell: 330-806-9660
mperial	Imperial	PA	ALCOHOLD ST			X	X	X	X	X	X			X	
onesto a	Morgantown	PA				X	X		X	X	X	Х		X	Barbara Harsanye:
Irunswick	Lawrenceville	VA				X	X	X	X	X	X	X		X	work: 330-536-8013 x 120
ing and Queen	Little Plymouth	VA				X	X	X	X	X	X	X		X	cell: 330-423-7267
old Dominion	Richmond	VA				X	X	X	x	X	X	X		X	
vcamore	Hurricane	wv				X	X	X	X	-		X		X	
Short Creek	Wheeling (Short Creek)	wv		X		X	X	X	X			X		X	
arter Valley	Church Hill	TN										- 0		2	

Office of Oil and Gas

DEC 4 2018

WW Department of Environmental Protection

Waste Management Industrial Landfills			Gas Spe	cific Waste	Streams				Other Accepte	d Waste Stream	ms				
Landfill	Location		Drill * Cuttings	Waste Liners	Waste Brine	Contaminated Soil	Construction & Demolition Waste	Industrial Waste	Studge	Friable Ashestos	Non-Friable Asbestos	Process Waste	Solidification Services	Municipal Solid Waste	Contact Information
den Landfill	Washington	PA	X	Х		X	X	X	X			X	X	X	
uth Hills (Arnoni)	South Park Elizabeth	PA PA	X	X		-	X	X	X			X	X	X	
lley Landfill	Irwin	PA	X	X		X	X	X	X	х	X	X	X	X	4
ergreen Landfill	Blairsville	PA	Х	Х		X	X	X		-	-		^	X	Los medicalisms
arleston Landfill	Charleston	wv	x	x		x	x	x	х			х		х	Scott Allen: 412-604-2256
anawha County) eadowfill Landfill	Bridgeport	wv	X	х		X	x	X	X	x	x	x	V	1	
orthwestern Landfill	Parkersburg	WV	X	X		X	X	X	X	-	-	X	X	X X X	1
S Grading Landfill	Clarksburg Waynesburg	OH		X		X	X	X	X			Х		X	
burban RDF	Glenford	OH		X		X	X	X	X	X	X	X	X	Х	Patty Landolt: 262-532-8001
eshocten Landfill***	Coshocton	OH	X	X		X	X	X		-	^	^	^	x	John Miller: 1-800-963-4776
aboning Landfill	New Springfield	OH	X	х		X.	X	X.			X	X		X	77777 (7777)
ditional Landfills	_		Contino	cific Waste	Cterania .				201	****					
	1	-	Drill*	Waste	Waste	Contaminated Soil	Construction &	Industrial		d Waste Stream	Non-Friable	Process	Solidification	Municipal	Contact Information
Landfill	Location		Cuttings	Liners	Brine	(Including Petroleum)	Demolition Waste	Waste	Studge	Asbestos	Asbestos	Waste	Services	Solid Waste	The state of the s
/estmoreland Waste WWLC Group)	111 Conner Lane, Belle Vernon, PA 15012	PA	х	x		х	x	х	x	х	х		x	х	Mike Home: 412-552-4427 Mark Thomas: 724-929-7694
AX Environmental	200 Max Drive,	PA	x	х		х	x	х	х				x	x	
ulger Facility) AX Environmental	Bulger PA 15019 233 MAX Lane	-						^	Α.					X	Carl Spadaro; 412-343-4900
ukon Facility	Yukon PA 15698	PA	х	X		X	x	x	х				x	х	cell: 412-445-9789
ex Sanitary landfill	11 County Road 78	OH	x	x		х	x	х	x						Joe Teterick: 740-275-2887
pex Environmental)	Amsterdam, Ohio 43903	OIL	~	^		^	^	^	^				х	х	joeta els-company.com
mpke, Mt, Sterling	30 Larison Rd, Jeffersonville, KY 40337	KY	X	x		x	x	x		x	x			х	Carl Walter: 513-623-2471
urel Ridge Landfill	3612 B State Highway												-		Bruce Crouch: Work: 606-864-7996
aste Connections of KY)	552 Lily, KY 40740	KY	х	х	-	х	X	Х		х	x	X		X	Cell: 606-219-0261
	Chestnut Valley 1184 McClellandtown Rd, McClellandtown, PA 15458	PA	x	x		x	x	х	х					x	Cei: 800-219-0201
Advanced Disposal	Greentree Landfill; 635 Toby Rd.; Kersey, PA	PA	х	х		x	x	х	x					х	Tony Labenne 6184 Route 219, Brockway, PA 1582 814-590-9906
	Mostoller Landfill; 7035 Glades Pike Rd.; Somerset, PA	PA	х	x		x	x	х	х					x	
**	Ohio "TENORM" - requir Accepts drilling wastes bu	res Rad	ium 226/228	analysis by	load before	leaving the well pad. Solid	d waste landfills in Oh	io can only aco	pt TENORM	waste with comb	bined concentration	on less than 5	picocuries per gra	m above the nat	tural background level.
х	Waste stream accepted by Waste stream is not or ma	facilit	y.				te streums uccented								
Notes:															A.
	F _ C	2	rot are parp	oso or prio to	ore (Conce	a mainly united to veri	y waste streams acce	.preuj.							
	DE I	5 2 7													
	Dep	S.E.													60
	4 artn	NEW YEAR													UT
	20 Prof	8													
	New PADEP rules regards DEC 4 2018 Environmental Protection	0													N
	9														CI
															0
															-

0

03/01/2019



Office of Oil and Gas

DEC 4 2018

WV Department of Environmental Protection

Site Safety Plan for Well SHR38DHSM CNX Gas Company, LLC.



Albancons

Approval Sheet

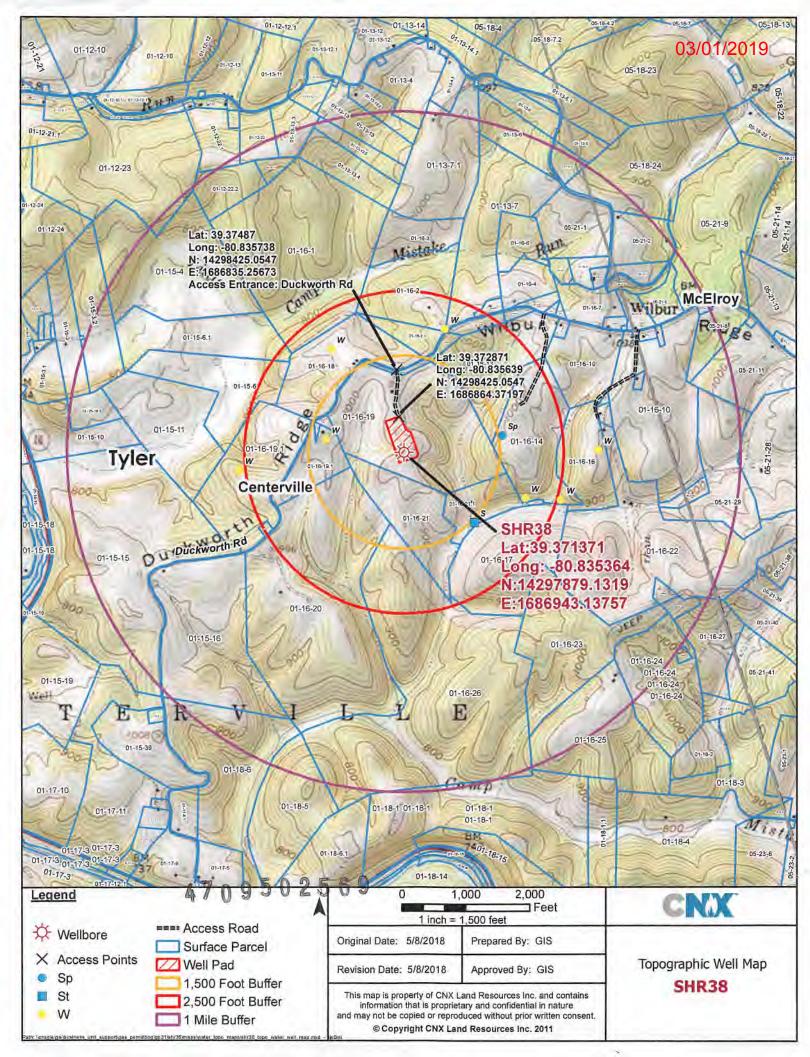
The Office of Oil and Gas and the Oil and Gas Conservation Commission have set forth minimum requirements for necessary equipment and procedures that must be addressed in a Safety Plan ("Plan") and shall be submitted and approved prior to drilling a deep well. A deep well shall be any well which meets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

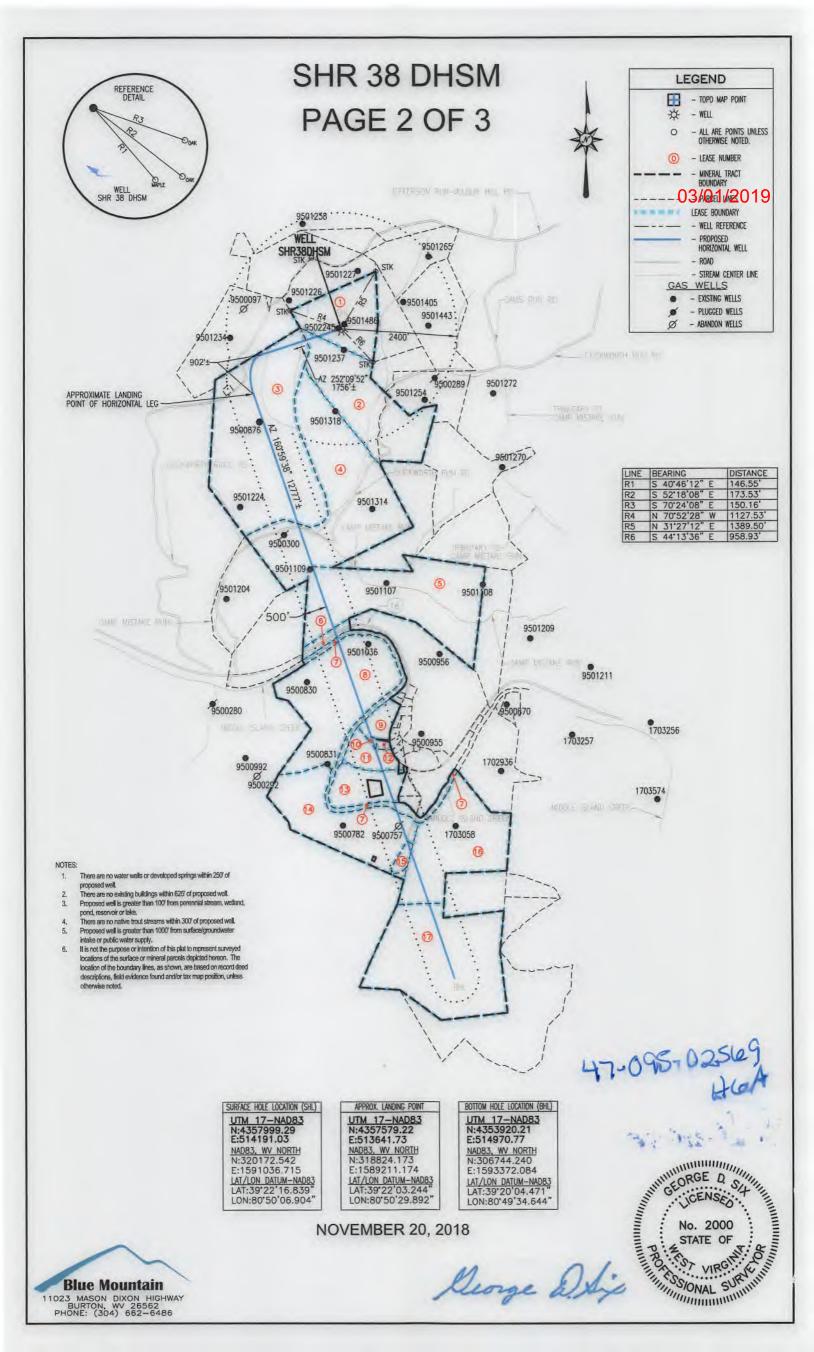
A site specific Safety Plan must be submitted with each deep well application or no later than one week prior to spudding. Approved Plans shall be maintained and available at the drilling rig at all times.

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

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

West Virginia Division of Environme	ntal Protection, (Office of Oil and Ga	is	
And				
West Virginia Oil and Gas Conservati	ion Commission.			
Approved this day	of month		_, 20	_ by
		Date:		
		Date:		





SHR 38 DHSM PAGE 3 OF 3

LESSOR

VERNA O, ASH, JAMES E. ASH AND THELMA B. ASH, P/O 1–16/19

BESSIE HAUGHT AND HAROLD WARNER
ERNEST G. SECKMAN AND O. JOANNE SECKMAN

RALPH E. PHILLIPS AND VELINDA PHILLIPS, H/W

JOHN MICHAEL LEONIAN

JOSEPH ROBERT LEONIAN

MARGO L. KIEHL AND CHARLES F. KIEHL, W/H

BERDINA ROSE AND NORMAN W. ROSE, W/H

PHILLIP LEONIAN, AKA PHILLIP MARSHALL LEONIAN

WRON RY BODEIOR, MA WHON R. BICHIOR NO GIORA JEN BODEIOR, H/W

RITA G. JARVIS

MIKE ROSS, INC.

I.L. MORRIS

JO ELLEN HARPER DAY

MARY LEE LILLY

ARMEN LEONIAN, AKA ARMEN LANHAM LEONIAN

JOHN FULTON LEONIAN

NIA ASH SAYLOR REVOCABLE RUST, 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 VANHELUVEIN

THERESA LEE ROBERTSON

MARTIMA SUE MUZIO, FKA MARTHA SUE LOCOCO

RICHE LOCOCO BUSHAMER, FKA MICHELE LUCRUSTH BUSHAMRE

ELIZABETH FLORENCE LOCOCO

RALPH E. PHILLIPS AND VELINDA PHILLIPS, H/W

BRC APPALACHIAN MINERALS I, LLC

JACOB L. DILLON AND EDNA DILLON, H/W

CHARLS W. HENDERSON AND DORDITY M. HENDERSON, H/W

MO CHARLS W. HENDERSON, POWER OF ATIONNEY FOR THE A L DOMK HERS

JOHN A. CONKLIN AND JEAN CONKLIN, H/W

BETTY L. CONKLIN AND BETTY M. CONKLIN, H/W

BETTY L. CONKLIN AND BETTY M. CONKLIN, H/W

BETTY L. CONKLIN AND BETTY M. CONKLIN, H/W

BETTY L. MELVIN

MARY S. LARTZ AND WILLIAM LARTZ, W/H.

LILIAN CRABILL AND WILLIAM LARTZ, W/H.

LILLIAN CRABILL AND WILLIAM CRABILL. W/H

MELISSA COLL

ROBERT BARTHOLOMEW AND BARBARA BARTHOLOMEW, H/W

PHILLIP L. MELVIN SURFACE OWNER
JAMES E. ASH ET AL RICHARD H. METCALE JOHN R. ANDERS II 3 RONALD R. & ROWLAND & REVA D. ROWLAND
4 D. RAI PH THACKER & J. MAURICE CARLISLE JE MELISSA COLL
ROBERT BARTHOLOMEW AND BARBARA BARTHOLOMEW, H/W
PHILLIP L. MELVIN
JOANNE GREENMAN AND GERALD GREENMAN, H/W
PAUL W. HYLBERT AND CHARLOTTE J. HYLBERT, H/W 1-18/1 STEVEN E. MALICKI JR. FRED M. DOTSON JR. KAREN DOTSON KEVIN DOTSON ROY A. CAMPBELL

ROY A. CAMPBELL

VERNON C. THOMAS AND ELIZABETH B. THOMAS, H/W

WEST VIRGINIA DIVISION OF NATURAL RESOURCES

EDWIN DELMER MULVAY AND PATRICIA VAUGHN MULVAY

A. E. PRATH HERS, EXECUTED BY JEAN COLE AND ROBERT L. COLE

A. E. PRATH HERS, EXECUTED BY PAIRICIA P. PRATT

A. E. PRATH HERS, EXECUTED BY PAIRICIA P. PRATT

A. E. PRATH HERS, EXECUTED BY ROBERT F. AND CLENNA Z. PRATT

A. E. PRATH HERS, EXECUTED BY ROBERT F. AND CLENNA Z. PRATT

A. E. PRATH HERS, EXECUTED BY ROBERT F. AND CLENNA Z. PRATT

A. E. PRATH HERS, EXECUTED BY MALOUN E. REENWOO JONODINY ANN

A. E. PRATH HERS, EXECUTED BY MALOUN E. GREENWOO JONODINY ANN

A. E. PRATH HERS, EXECUTED BY MALOUN E. GREENWOO JONODINY ANN

A. E. PRATH HERS, EXECUTED BY MALOUN E. GREENWOO JONODINY ANN

A. E. PRATH HERS, EXECUTED BY MALOUN E. GREENWOO JONODINY ANN

A. E. PRATH HERS, EXECUTED BY MALOUN E. GREENWOO JONODINY ANN

A. E. PRATH HERS, EXECUTED BY MALOUN E. GREENWOO JONODINY ANN

A. E. PRATH HERS, EXECUTED BY MALOUN E. GREENWOO JONODINY ANN

A. E. PRATH HERS, EXECUTED BY THERESA. C. PRATT

CECILLA LOUISE BOOMER AND JAMES BOOMER, W/H

THERESA MARIE SMITH, SINGLE

JACOB MYER

CECILLA LOUISE BOOMER AND JAMES BOOMER, W/H

THERESA MARIE SMITH, SINGLE

JACOB MYER

CECILLA LOUISE BOOMER AND JAMES BOOMER, W/H

THERESA MARIE SMITH, SINGLE

KAREN SUE DOTSON, INC.

NANCY FOUT AND JOHN FOUT, W/H

THERESA MARIE SMITH, SINGLE

KAREN SUE DOTSON, JR. AND LINNEA B. DOTSON, H/W

STEVEN E. MALICKI JR.

CECILLA LOUISE BOOMER AND JAMES BOOMER, W/H

THERESA MARIE SMITH, SINGLE

KAREN SUE DOTSON, JR. AND LINNEA B. DOTSON, H/W

STEVEN E. MALICKI JR.

CECILLA LOUISE BOOMER AND JAMES BOOMER, W/H

THERESA MARIE SMITH, SINGLE

THOMAS R. NUTTER AND SHARON L. NUTTER, H/W

EDWIN DELMER MULVAY AND PATRICIA VAUGHN MULVAY

1—18/38.1

WILLIAM PAUL MCCUTCHAN AND VIRGINA B. MCCUTCHAN, H/W

JACOUELINE L. STANDAFER AND WARREN G. STANDAFER, W/H 7 WEST VIRGINIA DIVISION OF NATURAL RESOURCE 8 EDWIN D. MULVAY AND PATRICIA L. MULVAY 9 JERRY D. & CHRISINA D. MYER AMANDA D. GIST & KYLE J. GIST JEREMY D. MYER 10 JERRY D. & CHRISTINA D. MYER 11 FRED M. DOTSON JR. & LINNEA B. DOTSON 12 KAREN SUE DOTSON FRED M. DOTSON JR. STEVEN E. MALICKI JR. 13 THOMAS R. & SHARON L. NUTTER 14 EDWIN D. & PATRICIA L. MULVAY 15 EDWIN D. & P. L. MULVAY 16 RALPH MCCUTCHAN II
CHIPPS REVOCABLE LIVING TRUST 2004
17 PHYLLIS MARIE STEELE (LIFE) WILLIAM PAUL MCCUTCHAN AND VIRGINA B. MCCUTCHAN, H/W JACQUELINE L. STANDAFER AND WARREN G. STANDAFER, W/H MARYLYNN H. RÖBERTS AND JOHN E. ROBERTS, W/H J. W. MORTON FIELD

03/01/2019

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83
N:4357999.29
E:514191.03
NAD83, W NORTH
N:320172.542
E:1591036.715
LAT/LON DATUM-NAD83
LAT:39'22'16.839"
LON:80'50'06.904"

APPROX. LANDING POINT

UTM 17—NAD83
N:4357579.22
E:513641.73
NAD83, W NORTH
N:318824.173
E:1589211.174
LAT/LON DATUM—NAD83
LAT:39'22'03.244"
LON:80'50'29.892"

BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83
N:4353920.21
E:514970.77
NAD83, W NORTH
N:306744.240
E:1593372.084
LAT/LON DATUM-NAD83
LAT:39'20'04.471"
LON:80'49'34.644"

47-095-02569 He A



BHL is located on topo map __14,724_feet south of Latitude: 39°22'30 SHL is located on topo map __1,332_feet south of Latitude: 39°22'30 SHL

PAGE 2 FOR PLAT DUE TO LENGTH OF SEE LATERAL

SEE PAGE 3 FOR SURFACE OWNERS AND LESSORS

03/01/2019

2.2

99

topo

map

9,793

feet

west

99

Longitude:

80°47 80°50

00

SURFACE HOLE LOCATION (SHL) UTM 17-NAD83 N:4357999.29 E:514191.03 NAD83, W NORTH N:320172.542 E:1591036.715 LAT/LON DATUM-NAD83 LAT:39'22'16.839" LON:80'50'06.904"

APPROX. LANDING POINT APPROX. LANDING POINI
UTM. 17—NADB.3
N:4357579.22
E:513641.73
NADB.3. WV NORTH
N:318824.173
E:1589211.174
LAT/LON DATUM-NADB.3
LAT:39'22'03.244"
LON:80'50'29.892"

BOTTOM HOLE LOCATION (BHL) UTM 17-NAD83 N:4353920.21 E:514970.77 NAD83, W. NORTH N:306744.240 E:1593372.084 LAT/LON DATUM-NAD83 LAT:39'20'04.471" LON:80'49'34.644"

Blue Mountain BURTON, WV 26562 PHONE: (304) 662-6486

BURTON, WV 26562 PHONE: (304) 662-6486	П		William William
FILE #: SHR 38 DHSM DRAWING #: SHR 38 DHSM SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE OF ELEVATION: THOMAS 1408 81	I,THE UNDER I,THE	SIGNED, HEREBY CERTIFY THAT THIS THE BEST OF MY KNOWLEDGE AND ALL THE INFORMATION REQUIRED BY ATIONS ISSUED AND PRESCRIBED BY F ENVIRONMENTAL PROTECTION. L.L.S.: P.S. No. 2000	Thumannum.
OF ELEVATION: THOMAS 1498.81 (+) DENOTES LOCATION OF WELL OF		L.L.S P.S. No. 2000	PLACE SEAL HERE
UNITED STATES TOPOGRAPHIC MAI WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304 Well Type: Oil Waste Disposal	Production Storage	DATE: NOVEMBER 2 OPERATOR'S WELL #: API WELL #: STATE CO Deep Shallow	95 62569 PERMIT
WATERSHED: HEADWATERS MIDDLE ISL			
COUNTY/DISTRICT: TYLER / C			Total Control of the
SURFACE OWNER: JAMES E. A			
PLUG OFF C	CONVERT DRILL I	ACREAGE: DEEPER REDRILL FRACTU PERFORATE NEW FORMATION I CHANGE (SPECIFY):	JRE OR STIMULATE X
TARGET FORMATION:	MARCELLUS	ESTIMATED DEPTH: TVD: 6	,480'± TMD: 20,283'±
WELL OPERATOR CNX GAS COMP Address 1000 CONSOL ENERGY DRIVE		DESIGNATED AGENT CHRIS 1 Address 1 DOMINION DR.	
City CANONSBURG State PA	Zip Code 15317	City JANE LEW State W	W Zip Code 26378

WW-6A1 (5/13)

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

03/01/2019

See attached

Office of Oil and Gas

WV Department of Environmental Protection

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

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

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

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

Well Operator: CNX Gas Company, LLC

By: Raymond Hoon

Its: Permitting Supervisor

03/01/2019

Attachment - Form WW-6A-1 for SHR38DHSM

	I van I					5.00
Tract ID	Parcel	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
	P/O TMP 1-16-	1	Verna O. Ash , James E. Ash and Thelma B. Ash, Bessie Haught and Harold Warner, Ernest G. Seckman	The state of the s	Not less than 1/8	269/571
1	19	258998000	and O. Joanne Seckman	Drilling Appalachian Corporation	Not less than 1/8	271/103
			Ralph E. Phillips and Velinda Phillips, h/w	Drilling Appalachian Corporation	Assignment	322/190
			Drilling Appalachian Corporation	Dominion Appalachian Development Properties, LLC CNX Gas Company, LLC	Merger	384/191
			Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC	Noble Energy, Inc.	50% Assignment	388/286
			Noble Energy, Inc.	CNX Gas Company, LLC	50% Assignment	542/134
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
Tract ID		Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc.	Royalty	Book/Page
	Parcel TMP 1-16-17	/ "				
2	& 1-16-21	288768000	John Michael Leonian	CNX Gas Company, LLC	Not less than 1/8	406/84
			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 Not less than 1/8	409/229 406/94
			Berdina Rose and Norman W. Rose, w/h CNX Gas Company, LLC	CNX Gas Company, LLC Noble Energy, Inc.	Assignment	447/738
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
			Phillip Leonian, aka Phillip Marshall Leonian	Noble Energy, Inc.	Not less than 1/8	465/276
			Marion Ray Bachelor, aka Marion R. Bachelor and Gloria Jean Bachelor, h/w	Noble Energy, Inc.	Not less than 1/8	449/543
			Rita G. Jarvis	Noble Energy, Inc.	Not less than 1/8	449/539
			Mike Ross, Inc.	Noble Energy, Inc.	Not less than 1/8	480/849
			I. 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	458/755 465/249
			Armen Leonian, aka Armen Lanham Leonian	Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8 Not less than 1/8	458/757
			John Fulton Leonian Niia Ash Saylor Revocable Trust, by Joseph F. Silek, Jr	Noble Energy, Inc.	Not less than 1/8	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, fka Mary Lynne Lococo	Noble Energy, Inc.	Not less than 1/8	452/702
			Donald Vincent Lococo	Noble Energy, Inc.	Not less than 1/8	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	471/678 449/541
			Martha Sue Muzio, fka Martha Sue Lococo Michelle Lococo Bushmire, fka Michelle Lucretia Bushmire	Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8 Not less than 1/8	453/523
			Elizabeth Florence Lococo	Noble Energy, Inc.	Not less than 1/8	453/624
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	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	Assignment	542/147
			Noble Energy, Inc. Noble Energy, Inc.	CNX Gas Company, LLC CNX Gas Company, LLC	Assignment Assignment	549/529 550/273
					Not less than 1/8	492/300
			Ralph E. Phillips and Velinda Phillips, h/w Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC	Assignment	513/299
			Noble Energy, Inc.	HG Energy II Appalachia, LLC	Assignment	570/96
			HG Energy II Appalachia, LLC	CNX Gas Company, LLC	Assignment	624/236
			BRC Appalachian Minerals I, LLC	BRC Working Interest Company	Not less than 1/8	369/300
			BRC Appalachian Minerals I, LLC	BRC Working Interest Company	Not less than 1/8	369/648
			BRC Working Interest Company	Chesapeake Appalachia, LLC	Assignment	369/784
			Chesapeake Appalachia, LLC	SWN Production Company, LLC	Assignment	465/463
			Chesapeake Appalachia, LLC	Statoll USA Onshore Properties, LLC	Assignment	378/764
			SWN Production Company, LLC, Statoli USA Onshore Properties, Inc. Noble Energy, Inc.	Noble Energy, Inc and CNX Gas Company, LLC CNX Gas Company, LLC	Assignment Assignment	518/207 550/273
				CHA des Company, LEC	Assignment	330/213
Tract ID	Tax Map & Parcel	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
3	P/O TMP 1-16- 20	258989000	Jacob L. Dillon and Edna Dillon, h/w	Royal Resources Corporation	Not less than 1/8	196/302
			Royal Resources Corporation	Columbia Gas Transmission Corporation	Assignment	196/166
			Columbia Gas Transmission Corporation	Anvil Oil Co., Inc.	Agreement and Sublease	265/107
			Anvil Oil Co., Inc.	Excel Energy, Inc.	Assignment	263/635
			Excel Energy, Inc. Anvil Oil Co., Inc.	Anvil Oil Co., Inc. Anvil Oil & Gas Company, Inc.	Assignment Name Change	269/143 WVSOS
			Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil	Antin Oil & Gas Company, Inc.		
			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	388/285 550/273
						286/603
			Columbia Gas Transmission Corporation Columbia Natural Resources, Inc.	Columbia Natural Resources, Inc. Chesapeake Appalachia, LLC	Assignment Confirmatory Deed	349/536
			Chesapeake Appalachia, LLC	Statoilhydro USA Onshore Properties, Inc.	Partial Assignment	363/391
			Statolihydro USA Onshore Properties, Inc.	Statoll USA Onshore Properties, Inc.	Name Change	WVSOS
			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
			Statoll USA Onshore Properties, Inc. Antero Exchange Properties, LLC	Antero Exchange Properties, LLC Antero Resources Corporation	Assignment Merger	544/291 552/315
			Antero Resources Corporation	CNX Gas Company LLC	Affidavit of Agreement	524/332
			second and the second s	Charles and San		2004



2 of 4

					W III O	0 %
Tract II	D Tax Map &	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
		Lucyii.e	Charles W. Henderson and Dorothy M. Henderson, h/w and Charles	and the same	Not less than 1/8	259/588
4	TMP 1-16-26	259000000	W. Henderson, Power of Attorney for the A. I. Doak Heirs John A. Conklin and Jean Conklin, h/w	J&J Enterprises J&J Enterprises	Not less than 1/8	259/586
	-		George B. Conklin and Betty M. Conklin, h.w	18J Enterprises	Not less than 1/8	259/584
			Betty L. Conklin	J&J Enterprises	Not less than 1/8	259/582
			1 & J Enterprises	Eastern American Energy Corporation	Assignment	282/296
			Eastern American Energy Corporation	Energy Corporation of America	Assignment	371/528 398/416
			Energy Corporation of America Energy Corporation of America	Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation	Assignment Assignment	420/316
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	WVSOS
			Antero Resources Corporation	CNX Gas Company, LLC and Noble Energy, Inc	Assignment	425/701 427/564
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
			Robert Lee Reed	Eastern American Energy Corporation	Not less than 1/8 Not less than 1/8	282/87 282/103
			Lewis H. Reed and Carol J. Reed, h/w Kathy Pranger	Eastern American Energy Corporation Eastern American Energy Corporation	Not less than 1/8	282/91
			Virginia O'Rear and Ralph O'Rear, w/h	Eastern American Energy Corporation	Not less than 1/8	282/67
			Robert H. Melvin	Eastern American Energy Corporation	Not less than 1/8	282/399
			Betty L. Melvin	Eastern American Energy Corporation	Not less than 1/8	282/79
			Mary S. Lartz and William Lartz, w/h Lillian Crabill and William Crabill, w/h	Eastern American Energy Corporation Eastern American Energy Corporation	Not less than 1/8 Not less than 1/8	282/83 282/95
			Melissa Coll	Eastern American Energy Corporation	Not less than 1/8	282/75
			Robert Bartholomew and Barbara Bartholomew, h/w	Eastern American Energy Corporation	Not less than 1/8	282/71
			Phillip L. Meivin	Eastern American Energy Corporation	Not less than 1/8	396/498
			Joanne Greenman and Gerald Greenman, h/w	Eastern American Energy Corporation	Not less than 1/8 Assignment	282/99 371/528
			Eastern American Energy Corporation Energy Corporation of America	Energy Corporation of America Antero Resources Appalachian Corporation	Assignment	398/416
			Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	420/316
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	WVSCS
			Antero Resources Corporation	CNX Gas Company, LLC and Noble Energy, Inc	Assignment	425/701 427/564
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
Tract I	Parcel	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
	18-1.1	258995000	Paul W. Hylbert and Charlotte J. Hylbert, h/w	KEPCO, INC.	Not less than 1/8	242/513
	7 10-1.1	230333000	KEPCO, INC.	Eastern Kentucky Production Company	Name Change	WVSOS
			Eastern Kentucky Production Company	Equitable Resources Energy Company	Merger	WVSOS
			Equitable Resources Energy Company	EnerVest East Limited Partnership	Assignment	313/145
			EnerVest East Limited Partnership	The Houston Exploration Company Seneca-Upshur Petroleum, Inc.	Assignment Assignment	342/160 344/158
			The Houston Exploration Company Seneca-Upshur Petroleum, Inc.	Seneca-Upshur Petroleum, LLC	Assignment	381/540
			Seneca-Upshur Petroleum, LLC	Antero Resources Appalachian Corporation	Assignment	402/132
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	WVSOS
			Antero Resources Corporation	Noble Energy, Inc and CNX Gas Company, LLC	Assignment	425/701 427/564
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
Tract I	D / Tax Map &	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
	Parcel TMP 1-18-17.1	# 267820000	Roy A. Campbell	Noble Energy, Inc.	Not less than 1/8	488/394
	(MI 1-10-17.1	207020000	Vernon C. Thomas and Elizabeth B. Thomas, h/w	Noble Energy, Inc.	Not less than 1/8	524/302
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	521/80
			Noble Energy, Inc. Noble Energy, Inc.	CNX Gas Company, LLC CNX Gas Company, LLC	Assignment Assignment	542/147 550/273
Tract 1	D / Tax Map &	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
7	Parcel N/A	# N/A	West Virginia Division of Natural Resources	Antero Resources Corporation	Not less than 1/8	553/295
			Antero Resources Corporation	CNX Gas Company, LLC	Affidavit of Agreement	624/332
Tract	D Tax Map & Parcel	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc.	Royalty	Book/Page
8	TMP 1-18-14	258994000	Edwin Delmer Mulvay and Patricia Vaughn Mulvay	Petroleum Services, Inc.	Not less than 1/8	A 221/611
			A. E. Pratt Heirs, executed by Jean Cole and Robert L. Cole	Petroleum Services, Inc.	Not less than 1/8	2. 224/424
	,		A. E. Pratt Heirs, executed by Patricia P. Pratt and Allen T. Pratt	Petroleum Services, Inc. Petroleum Services, Inc.	Not less than 1/8 Not less than 1/8	3. 224/468 4. 224/470
			A. E. Pratt Heirs, executed by Darryl A. Pratt A. E. Pratt Heirs, executed by Robert F. Pratt and Glenna Z. Pratt	Petroleum Services, Inc.	Not less than 1/8	B 224/401
			A. E. Pratt Heirs, executed by Richard F. Mead and Margaret Mead	Petroleum Services, Inc.	Not less than 1/8	6. 224/428
			A. E. Pratt Heirs, executed by Janet Tinkham and Elvin I. Tinkham	Petroleum Services, Inc.	Not less than 1/8	7. 224/585
			Blanche B. Pratt	Petroleum Services, Inc.	Ratification Not less than 1/8	225/80 8. 224/426
			A. E. Pratt Heirs, executed by Kenneth E. Pratt and Laura L. Pratt A. E. Pratt Heirs, executed by Malcolm E. Greenwood and Dorothy Ann Greenwood	Petroleum Services, Inc. Petroleum Services, Inc.	Not less than 1/8	9. 224/466
			A. E. Pratt Heirs, executed by Donald E. Borer and Mary Jane Borer	Petroleum Services, Inc.	Not less than 1/8	10. 224/446
			Catherine J. Pratt	Petroleum Services, Inc.	Ratification	225/159
			A. E. Pratt Heirs, executed by Theresa C. Pratt	Petroleum Services, Inc.	Not less than 1/8	K 225/564 224/472
			Petroleum Services, Inc.	J & J Enterprises, Inc.	Assignment	226/501
			J & J Enterprises, Inc.	Eastern American Energy Corporation	Assignment	282/296
			Eastern American Energy Corporation	Energy Corporation of America	Merger	WVSOS
			Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	407/632 420/316
			Energy Corporation of America Antero Resources Appalachian Corporation	Antero Resources Appalachían Corporation Antero Resources Corporation	Assignment Name Change	557/430
						425/701
			Antero Resources Corporation Noble Energy, Inc.	Noble Energy, Inc and CNX Gas Company, LLC CNX Gas Company, LLC	Assignment Assignment	427/564 550/273
Tract	D Tax Map & Parcel	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
	TMP 1-18-26,		Cecilia Louise Boomer and James Boomer, w/h	Noble Energy, Inc.	G0170-37-3 316	222200
9	26.3, 26.4	288615000	Woodberry Royalty, Inc.	Noble Energy, Inc.	Not less than 1/8 Not less than 1/8	480/823 482/760
			Nancy Fout and John Fout, w/h Theresa Marie Smith, single	Auto-Carlo Carlo	Not less than 1/8 Not less than 1/8	492/296 480/831
				Offic RECENT		462/525
			Jacob Myer Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC	Not less than 1/8 Assignment	480/829 513/299
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	521/80
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	542/134
			Noble Energy, Inc.	CNX Gas Company, LLC 4 2018	Assignment	550/273
				Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Office of Oil and Gas CNX Gas Company, LLC CNX Gas Company,		
				mental pent of	1	CIL
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Iract ID.		Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
	Parcel	#		Nahla Farana Ina	Not less than 1/8	480/823
10	TMP 1-18-26.2	288613000	Cecilia Louise Boomer and James Boomer, w/h	Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8	482/760
			Woodberry Royalty, Inc.	Noble Energy, Inc.	Not less than 1/8	492/296
			Nancy Fout and John Fout, w/h Theresa Merie Smith, single	Noble Energy, Inc.	Not less than 1/8	480/831
			The last truth critical stripe			462/525
			Jerry D. Myer and Christina D. Myer, h/w	Noble Energy, Inc.	Not less than 1/8	480/829
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	513/299
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	521/80
			Noble Energy, inc.	CNX Gas Company, LLC	Assignment	542/134
	3		Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
Total ID	Tax Map &	Title Opinion QLS	Constan James att	Grantee, Lessee, etc	Royalty	Book/Page
Tract ID	<u>Parcel</u>	豐	Grantor, Lessor, etc	Similar Market Co.		
	MP 1-18-38 & 1- 18-31	259050000	Cocilia Louise Boomer and James Boomer, w/h	Noble Energy, Inc.	Not less than 1/8	480/823
11, 12	10-31	239030000	Woodberry Royalty, Inc.	Noble Energy, Inc.	Not less than 1/8	482/760
· · ·			Nancy Fout and John Fout, w/h	Noble Energy, Inc.	Not less than 1/8	492/296
			Theresa Marie Smith, single	Noble Energy, Inc.	Not less than 1/8	480/831
			Keren Sue Dotson	Noble Energy, Inc.	Not less than 1/8	465/620
			Fred M. Dotson, Jr. and Linnea B. Dotson, h/w	Noble Energy, Inc.	Not less than 1/8	471/676
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	499/447 513/299
			Noble Energy, Inc.	CNX Gas Company, LLC CNX Gas Company, LLC	Assignment Assignment	521/80
			Noble Energy, Inc. Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	542/134
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
					-	
			Stoven E. Malicki, Jr.	Antero Resources Corporation	Not less than 1/8	462/382
			Antero Resources Corporation	Nobie Energy, inc and CNX Gas Company, LLC	Assignment	503/754
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
	Tax Map &	Title Opinion OLS			Paralle.	Book/Page
Tract ID	Parcel	£	Gianus, Casor, etc	Grantee, Lessee, etc	Royalty	
13	MP 1-18-38.1	259224000	Cocilia Louise Boomer and James Boomer, w/h	Noble Energy, Inc.	Not less than 1/8	480/823
	,		Woodberry Royalty, Inc.	Noble Energy, Inc.	Not less than 1/8	482/760 492/296
•			Nancy Fout and John Fout, w/h	Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8 Not less than 1/8	492/296 480/831
			Theresa Marie Smith, single Thomas R. Nutter and Sharon L. Nutter, h/w	Noble Energy, Inc.	Not less than 1/8	488/400
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	513/299
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	521/80
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	542/134
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
	Tay Man &	Title Oninion OIS				
Tract ID		Title Opinion QLS	Grantor, Lessor, etc	<u>Grantee, Lessee, etc</u>	Royalty	Book/Page
Tract ID	Tax Map & Parcel TMP 1-18-13	Title Opinion QLS # 288767000	. <u>Grantor, Lessor, etc</u> Edwin Dolmer Mulvay and Patricia Vaughn Mulvay	<u>Grantee, Lessee, etc</u> Petroleum Services, Inc.	Not less than 1/8	221/609
1	Parcel	Ħ	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price	Petroleum Services, Inc. Petroleum Services, Inc.	Not less than 1/8 Not less than 1/8	221/609 222/533
1	Parcel	Ħ	Edwin Dolmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc.	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc.	Not less than 1/8 Not less than 1/8 Assignment	221/609 222/533 223/215
1	Parcel	Ħ	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. J & J Enterprises, Inc.	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation	Not less than 1/8 Not less than 1/8 Assignment Merger	221/609 222/533 223/215 WVSOS
1	Parcel	Ħ	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America	Not less than 1/8 Not less than 1/8 Assignment Merger Assignment	221/609 222/533 223/215 WVSOS 371/528
1	Parcel	Ħ	Edwin Dolmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. J & J Enterprises, Inc. Esstern American Energy Corporation Energy Corporation of America	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation	Not less than 1/8 Not less than 1/6 Assignment Merger Assignment Assignment	221/609 222/533 223/215 WVSOS 371/528 398/416
1	Parcel	Ħ	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America	Not less than 1/8 Not less than 1/8 Assignment Merger Assignment	221/609 222/533 223/215 WVSOS 371/528
1	Parcel	Ħ	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. J & Interprises, Inc. Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation	Not less than 1/8 Not less than 1/8 Assignment Merger Assignment Assignment Assignment	221/609 222/533 223/215 WVSOS 371/528 398/416 420/316 557/430 433/7
1	Parcel	Ħ	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appailechian Corporation	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. J & J Enterprises, Inc. Esstern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Corporation	Not less than 1/8 Not less than 1/8 Assignment Merger Assignment Assignment Assignment Name Change	221/609 222/533 223/215 WVSOS 371/528 398/416 420/316 557/430
1	Parcel TMP 1-18-13	# 288767000	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appaichlan Corporation Antero Resources Corporation Noble Energy, Inc.	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc and CNX Gas Company, LLC CNX Gas Company, LLC	Not less than 1/8 Not less than 1/8 Assignment Merger Assignment Assignment Assignment Assignment Name Change Assignment Assignment	221/609 222/533 223/215 WV5OS 371/528 398/416 420/316 557/430 433/7 550/273
1	Parcel TMP 1-18-13	Ħ	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appaichlan Corporation Antero Resources Corporation Noble Energy, Inc.	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachlan Corporation Antero Resources Appalachlan Corporation Antero Resources Corporation Noble Energy, Inc and CNX Gas Company, LLC	Not less than 1/8 Not less than 1/8 Assignment Merger Assignment Assignment Assignment Assignment Name Change Assignment	221/609 222/533 223/215 WV5OS 371/528 398/416 420/316 557/430 433/7 550/273
14	Parcel TMP 1-18-13	# 288767000	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. J & Lenterpises, Inc. Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachlan Corporation Antero Resources Corporation Noble Energy, Inc.	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc and CNX Gas Company, LLC CNX Gas Company, LLC Grantee, Jessee, etc CNX Gas Company, LLC	Not less than 1/8 Not less than 1/8 Assignment Merger Assignment Assignment Assignment Assignment Name Change Assignment Assignment More Change Assignment Assignment	221/609 222/533 223/715 WVSOS 371/528 398/416 420/316 557/430 433/7 550/273 Book/Page 477/232
14	Parcel TMP 1-18-13 Tax Map & Parcel	# 288767000 Title Opinion QLS	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. J & Lenterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc and CNX Gas Company, LLC CNX Gas Company, LLC Grantee, Lessee, etc	Not less than 1/8 Not less than 1/6 Assignment Merger Assignment Assignment Assignment Assignment Name Change Assignment Assignment Assignment	221/609 222/533 223/215 WV5OS 371/528 398/416 420/316 557/430 433/7 550/273
14	Parcel TMP 1-18-13 Tax Man & Parcel TMP 8-3-22	# 288767000 Title Opinion GIS # 291751000	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. J & Lenterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Violetta Elise Hokman, aka Violetta E. Hokman Ann Lanz Denlinger, fka Ann Hokman Lenz	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Noble Energy, inc and CNX Gas Company, LLC CNX Gas Company, LLC Grantes, Lessee, etc CNX Gas Company, LLC CNX Gas Company, LLC	Not less than 1/8 Not less than 1/8 Assignment Merger Assignment Assignment Assignment Assignment Name Change Assignment Assignment Assignment Assignment Assignment	221/609 222/533 223/215 WVSOS 371/528 398/416 420/316 557/430 433/7 550/273 Book/Page 477/232 477/657
14	Parcel TMP 1-18-13 Iax Map & Parcel TMP 8-3-22	# 288767000 Title Opinion QLS	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. J & Lenterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Violetta Elise Hokman, aka Violetta E. Hokman Ann Lanz Denlinger, fka Ann Hokman Lenz	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc and CNX Gas Company, LLC CNX Gas Company, LLC Grantee, Jessee, etc CNX Gas Company, LLC	Not less than 1/8 Not less than 1/8 Assignment Merger Assignment Assignment Assignment Assignment Name Change Assignment Assignment More Change Assignment Assignment	221/609 222/533 223/715 WVSOS 371/528 398/416 420/316 557/430 433/7 550/273 Book/Page 477/232
14	Parcel TMP 1-18-13 Tax Man & Parcel TMP 8-3-22	g 288767000 Title Oninion QIS g 291751000 Title Oninion QIS	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Violetta Elise Hokman, aka Violetta E. Hokman Ann Lanz Denlinger, fixa Ann Hokman Lenz Grantor, Lessor, etc Clarence L. Hurst and Betty Ann	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc and CNX Gas Company, LLC CNX Gas Company, LLC Grantee, Lessee, etc CNX Gas Company, LLC Grantee, Lessee, etc Exoun Corporation	Not less than 1/8 Not less than 1/8 Assignment Merger Assignment Assignment Assignment Name Change Assignment Royalty Not less than 1/8 Royalty Not less than 1/8	221/609 222/533 223/215 WVSOS 371/528 398/416 420/316 557/430 433/7 550/273 Book/Page 477/232 477/657
Iract ID.	Parcel TMP 1-18-13 Tax Man & Parcel TMP 8-3-22 Tax Map & Parcel	# 288767000 Iitie Opinion QLS # 291751000 Iitie Opinion QLS	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. J & Lenterpises, Inc. Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appaiachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Violetta Elise Hokman, aka Violetta E. Hokman Ann Lanz Denlinger, fika Ann Hokman Lenz Grantor, Lessor, etc	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Noble Energy, Inc and CNX Gas Company, LLC Grantee, Lessee, etc	Not less than 1/8 Not less than 1/8 Assignment Merger Assignment Assignment Assignment Assignment Assignment Name Change Assignment Assignment Assignment Assignment Reyalty Not less than 1/8 Not less than 1/8 Royalty	221/609 222/533 223/215 WV505 371/528 398/416 420/316 557/430 433/7 550/273 Book/Page 477/232 477/657
Iract ID.	Parcel TMP 1-18-13 Tax Man & Parcel TMP 8-3-22 Tax Map & Parcel	# 288767000 Iitie Opinion QLS # 291751000 Iitie Opinion QLS	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. 1 & Enterprises, Inc. 1 Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appaiachlan Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Violetta Elise Hokman, aka Violetta E. Hokman Ann Lanx Denlinger, fix Ann Hokman Lenz Grantor, Lessor, etc Clarence L. Hurst and Betty Ann Excon Corporation Excon Mobili Corporation, ExconMobili Oli Corporation, Mobili Producing Texas & New Mexico Inc., Mobili Excon Mobili Corporation, ExconMobili Oli Corporation, Mobili Producing Texas & New Mexico Inc., Mobili	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc and CNX Gas Company, LLC CNX Gas Company, LLC Grantee, Lessee, etc CNX Gas Company, LLC Grantee, Lessee, etc Exoun Corporation	Not less than 1/8 Not less than 1/8 Assignment Merger Assignment Assignment Assignment Name Change Assignment Royalty Not less than 1/8 Royalty Not less than 1/8	221/609 222/533 223/215 WVSOS 371/528 398/416 420/316 557/430 433/7 550/273 Book/Page 477/232 477/657
Iract ID.	Parcel TMP 1-18-13 Tax Man & Parcel TMP 8-3-22 Tax Map & Parcel	# 288767000 Iitie Opinion QLS # 291751000 Iitie Opinion QLS	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. 1 & I Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Energy Corporation of America Antero Resources Appaischian Corporation Noble Energy, Inc. Grantor, Lessor, etc Violetta Elise Hokman, aka Violetta E. Hokman Ann Lanz Denlinger, fka Ann Hokman Lenz Grantor, Lessor, etc Clarence L. Hurst and Betty Ann Excon Corporation	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc and CNX Gas Company, LLC CNX Gas Company, LLC Grantee, Lessee, etc CNX Gas Company, LLC Grantee, Lessee, etc Exxon Corporation Exxon Mobil Corporation	Not less than 1/8 Not less than 1/8 Assignment Merger Assignment Assignment Assignment Assignment Name change Assignment Royalty Not less than 1/8	221/609 222/583 223/215 WVSOS 371/528 398/416 420/316 557/430 433/7 550/273 Book/Page 477/232 477/657 Book/Page 102/31 WVSOS
Iract ID.	Parcel TMP 1-18-13 Tax Man & Parcel TMP 8-3-22 Tax Map & Parcel	# 288767000 Iitie Opinion QLS # 291751000 Iitie Opinion QLS	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. 1 & Enterprises, Inc. 2 & Enterprises, Inc. 2 & Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Corporation Nobile Energy, Inc. Grantor, Lessor, etc Violetta Elise Hokman, aka Violetta E. Hokman Ann Lanz Dentlinger, fita Ann Hokman Lenz Grantor, Lessor, etc Clarence L. Hurst and Betty Ann Exxon Corporation Exxon Mobil Corporation, ExxonMobil Oil Corporation, Mobil Producing Texas & New Mexico Inc., Mobil Oil Exploration & Producing North America Inc.	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc and CNX Gas Company, LLC CNX Gas Company, LLC Grantee, Lessee, etc CNX Gas Company, LLC Grantee, Lessee, etc Exoun Corporation	Not less than 1/8 Not less than 1/8 Assignment Merger Assignment Assignment Assignment Name Change Assignment Royalty Not less than 1/8 Royalty Not less than 1/8	221/609 222/533 223/215 WVSOS 371/528 398/416 420/316 557/430 433/7 550/273 Book/Page 477/232 477/657
Iract ID.	Parcel TMP 1-18-13 Tax Man & Parcel TMP 8-3-22 Tax Map & Parcel	# 288767000 Iitie Opinion QLS # 291751000 Iitie Opinion QLS	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. 1 & Enterprises, Inc. 1 Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appaiachlan Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Violetta Elise Hokman, aka Violetta E. Hokman Ann Lanx Denlinger, fix Ann Hokman Lenz Grantor, Lessor, etc Clarence L. Hurst and Betty Ann Excon Corporation Excon Mobili Corporation, ExconMobili Oli Corporation, Mobili Producing Texas & New Mexico Inc., Mobili Excon Mobili Corporation, ExconMobili Oli Corporation, Mobili Producing Texas & New Mexico Inc., Mobili	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. Ensergy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc and CNX Gas Company, LLC CNX Gas Company, LLC Grantee, Lessee, etc CNX Gas Company, LLC Grantee, Lessee, etc Exxon Corporation XTO Energy Inc.	Not less than 1/8 Not less than 1/8 Assignment Merger Assignment Assignment Assignment Name Change Assignment Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8 Name Change	221/609 222/533 223/215 WVSOS 371/528 398/416 420/316 557/430 433/7 550/273 Book/Page 477/232 477/657 Book/Page 102/31 WVSOS
Iract ID.	Parcel TMP 1-18-13 Tax Map & Parcel TMP 8-3-22 Tax Map & Parcel TMP 8-3-3	# 288767000 Title Opinion QLS # 291751000 Title Opinion QLS # 258988000	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. J & Letterpises, Inc. Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appaiachlan Corporation Antero Resources Corporation Nobile Energy, Inc. Grantor, Lessor, etc Violetta Elise Hokman, aka Violetta E. Hokman Ann Lanz Denlinger, fika Ann Hokman Lenz Grantor, Lessor, etc Clarence L. Hurst and Betty Ann Exxon Corporation Exxon Corporation Exxon Corporation Exxon Mobili Corporation, ExxonMobil Oil Corporation, Mobil Producing Texas & New Mexico Inc., Mobil Oil Exploration & Producing Southeast Inc., and Mobil Exploration and Producing North America Inc. XTO Energy Inc. Antero Resources Corporation	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc and CNX Gas Company, LLC CNX Gas Company, LLC Grantee, Lessee, etc CNX Gas Company, LLC Grantee, Lessee, etc Exxon Corporation Exxon Mobil Corporation XTO Energy Inc. Antero Resources Corporation	Not less than 1/8 Not less than 1/8 Assignment Merger Assignment Assignment Assignment Name Change Assignment Royalty Not less than 1/8 Assignment Assignment Assignment	221/609 222/583 223/215 WVSOS 371/528 398/416 420/316 557/430 433/7 550/273 Book/Page 477/232 477/657 Book/Page 102/31 WVSOS
Iract ID.	Parcel TMP 1-18-13 Iax Map & Parcel TMP 8-3-22 Iax Map & Parcel TMP 8-3-3	E 288767000 Title Opinion GLS 291751000 Title Opinion GLS # 258988000	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. J & Letterpises, Inc. Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appaiachlan Corporation Antero Resources Corporation Nobile Energy, Inc. Grantor, Lessor, etc Violetta Elise Hokman, aka Violetta E. Hokman Ann Lanz Denlinger, fika Ann Hokman Lenz Grantor, Lessor, etc Clarence L. Hurst and Betty Ann Exxon Corporation Exxon Corporation Exxon Corporation Exxon Mobili Corporation, ExxonMobil Oil Corporation, Mobil Producing Texas & New Mexico Inc., Mobil Oil Exploration & Producing Southeast Inc., and Mobil Exploration and Producing North America Inc. XTO Energy Inc. Antero Resources Corporation	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc and CNX Gas Company, LLC CNX Gas Company, LLC Grantee, Lessee, etc CNX Gas Company, LLC Grantee, Lessee, etc Exxon Corporation Exxon Mobil Corporation XTO Energy Inc. Antero Resources Corporation	Not less than 1/8 Not less than 1/8 Assignment Merger Assignment Assignment Assignment Name Change Assignment Royalty Not less than 1/8 Assignment Assignment Assignment	221/609 222/533 223/215 WVSOS 371/528 398/416 420/316 557/430 433/7 550/273 Book/Page 477/232 477/657 Book/Page 102/31 WVSOS
Iract ID 15	Parcel TMP 1-18-13 Tax Map & Parcel TMP 8-3-22 Tax Map & Parcel TMP 8-3-3	# 288767000 Title Opinion QLS # 291751000 Title Opinion QLS # 258988000	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. J & Interprises, Inc. J & Interprises, Inc. J & Interprises, Inc. Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appaiachlan Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Violetta Elise Hokman, aka Violetta E. Hokman Ann Lanz Denlinger, fixa Ann Hokman Lenz Grantor, Lessor, etc Clarence L. Hurst and Betty Ann Excon Corporation Excon Corporation Excon Mobil Corporation, ExconMobil Oil Corporation, Mobil Producing Texas & New Mexico Inc., Mobil Oil Exploration & Producing Southeast Inc., and Mobil Exploration and Producing North America Inc. XTO Energy Inc. Antero Resources Corporation	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. J & Enterprises, Inc. J & J	Not less than 1/8 Not less than 1/8 Assignment Merger Assignment Assignment Assignment Assignment Name Charge Assignment Assignment Mories than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Affidavit of Agreement	221/609 222/583 223/215 WVSOS 371/528 398/416 420/316 557/430 433/7 550/273 Book/Page 477/232 477/657 Book/Page 102/31 WVSOS
Iract ID 15 Iract ID 16 Iract ID	Parcel TMP 1-18-13 Tax Map & Parcel TMP 8-3-22 Tax Map & Parcel TMP 8-3-3	# 288767000 Title Opinion QLS # 291751000 Title Opinion QLS # 258988000	Edwin Delmer Mulvay and Patricia Vaughn Mulvay Martha C. Price Petroleum Services, Inc. 1 & Enterprises, Inc. 1 Energy Corporation of America 1 Energy Corporation of America 1 Antero Resources Appaiachlan Corporation 1 Antero Resources Appaiachlan Corporation 1 Noble Energy, Inc. Grantor, Lessor, etc. Violetta Elise Hokman, aka Violetta E. Hokman 1 Ann Lanz Dentlinger, fix Ann Hokman Lenz Grantor, Lessor, etc. Clarence L. Hurst and Betty Ann Excon Corporation Excon Mobil Corporation, ExconMobil Oil Corporation, Mobil Producing Texas & New Mexico Inc., Mobil Oil Exploration & Producing Southeast Inc., and Mobil Exploration and Producing North America Inc. XTO Energy Inc. Grantor, Lessor, etc. Grantor, Lessor, etc	Petroleum Services, Inc. Petroleum Services, Inc. J & J Enterprises, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Mobie Energy, Inc and CNX Gas Company, LLC CNX Gas Company, LLC Grantee, Lessee, etc Exxon Corporation Exxon Mobil Corporation XTO Energy Inc. Antero Resources Corporation CNX Gas Company, LLC Grantee, Lessee, etc Exxon Corporation Exxon Mobil Corporation CNX Gas Company, LLC Grantee, Lessee, etc Grantee Corporation CNX Gas Company, LLC	Not less than 1/8 Not less than 1/8 Assignment Merger Assignment Assignment Assignment Assignment Name Change Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Affidavit of Agreement	221/609 222/583 223/215 WVSOS 371/528 398/416 420/316 557/430 433/7 550/273 Book/Page 477/232 477/657 Book/Page 102/31 WVSOS 359/150 423/613 429/558
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4 of 4



Erika Whetstone Permitting Manager Work: 724-485-4035 Mobile: 724-317-2224

Email: erikawhetstone@cnx.com

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

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

4709502569

RE: Road Letter SHR38 Well Pad

To Whom it May Concern:

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

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

Sincerely,

Erika Whetstone Permitting Manager

DEC 4 2018
Environmental Protection

WW-6AC (1/12)

03/01/2019

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

		API No. 4/	
		Operator's Well N	
		Well Pad Name:	SHR38
Notice has l			
Pursuant to th	ne provisions in West Virginia Code §	§ 22-6A, the Operator has provided the required p	arties with the Notice Forms listed
pelow for the	tract of land as follows:		
State:	West Virginia	UTM NAD 83 Easting: 514191	.0280
County:	Tyler	Northing: 435/99	9.2890
District:	Centerville		rth Ridge Road
Quadrangle:	West Union	Generally used farm name: Ash	
Watershed:	Headwaters Middle Island Creek		
of giving the equirements Virginia Cod	surface owner notice of entry to su of subsection (b), section sixteen o	ection sixteen of this article; (ii) that the requirementary pursuant to subsection (a), section ten of this article were waived in writing by the surender proof of and certify to the secretary that the at.	his article six-a; or (iii) the notic face owner; and Pursuant to We
	West Virginia Code § 22-6A, the Operator has properly served the require	perator has attached proof to this Notice Certifical diparties with the following:	tion
*PLEASE CHI	ECK ALL THAT APPLY		OOG OFFICE USE ONLY
		■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	ONLY
□ 1. NO	TICE OF SEISMIC ACTIVITY or	- 1400대 그리는 항목하다면 하게 되었습니다. 이렇게 하게 되었다면 하다 그렇게 되었습니다.	ONLY RECEIVED/ NOT REQUIRED
☐ 1. NO′☐ 2. NO	TICE OF SEISMIC ACTIVITY or	SEISMIC ACTIVITY WAS CONDUCTED	ONLY RECEIVED/ NOT REQUIRED
☐ 1. NO′☐ 2. NO	TICE OF SEISMIC ACTIVITY or	SEISMIC ACTIVITY WAS CONDUCTED PEY or NO PLAT SURVEY WAS CONDUCTED NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OW (PLEASE ATTACH)	ONLY RECEIVED/ NOT REQUIRED RECEIVED/ NOT REQUIRED
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	SEISMIC ACTIVITY WAS CONDUCTED YEY OF NO PLAT SURVEY WAS CONDUCTED NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OF WRITTEN WAIVER BY SURFACE OW (PLEASE ATTACH) Office of Oil and Gas	ONLY RECEIVED/ NOT REQUIRED RECEIVED/ NOT REQUIRED
☐ 1. NO' ☐ 2. NO ☐ 3. NO ☐ 4. NO	TICE OF SEISMIC ACTIVITY or TICE OF ENTRY FOR PLAT SURV	SEISMIC ACTIVITY WAS CONDUCTED ZEY or INO PLAT SURVEY WAS CONDUCTED NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OW	ONLY PRECEIVED/ NOT REQUIRED CTED RECEIVED RECEIVED/ NOT REQUIRED NER

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.

WW-6AC (1/12)

THEREFORE, I

Certification of Notice is hereby given:

above, to the re signature confirm in this Notice Cobtaining the int	equired parties through personal service mation. I certify under penalty of law the Certification and all attachments, and	e, by registered mail nat I have personally that based on my in the is true, accurate and	erved the attached copies of the Notice Forms, identified or by any method of delivery that requires a receipt or examined and am familiar with the information submitted nquiry of those individuals immediately responsible for d complete. I am aware that there are significant penalties onment.
Well Operator:	CNX Gas Company, LLC	Address:	1000 Consol Energy Drive
By:	Raymond Hoon		Canonsburg, PA 15317
Its:	Permitting Supervisor	Facsimile:	
Telephone:	724-485-3540	Email:	RaymondHoon@CNX.com
Lori Rich My Comm	EALTHOGARY SEAL YLVANIA NOTARIAL SEAL L. Walker, Notary Public hill Twp., Greene County mission Expires Feb. 23, 2019 YLVANIA ASSOCIATION OF NOTABLE	100-0111-0	orn before me this 29 day of Mounter 108. Notary Public spires Followay 23, 2019

, have read and understand the notice requirements within West Virginia Code § 22-

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.

Office of Oil and Gas

DEC 4 2018

WV Department of Environmental Protection

WW-6A (9-13)

API NO. 47-	-	03/01/2010
OPERATOR WE	ELL NO.	03/01/2019 SHR38DHSM
Well Pad Name:		

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

Noti	ce Time Requirer	nent: notice shall be	provided no later than	the filing date of permit	application.
	e of Notice: 11-210 ice of:	Date Permit Ap	oplication Filed: //-	28-18	
	DEDLATE FOR A	л. П ст	DEFECT OF A DR	DOWN FOR THE	
✓	PERMIT FOR AT WELL WORK		RTIFICATE OF APPL	ROVAL FOR THE .N IMPOUNDMENT OR I	PIT
	WELL WORK	CO	NSTRUCTION OF A	IN IMPOUNDMENT OR I	11
Deli	very method purs	uant to West Virgin	nia Code § 22-6A-10	(b)	
	PERSONAL	REGISTERE	D METHO	DD OF DELIVERY THAT	REQUIRES A
	SERVICE	MAIL	RECEL	PT OR SIGNATURE CON	FIRMATION
the soil and description open more well important proving substruction of the control of the con	urface of the tract of the described in the erosion attor or lessee, in the erosion described and the erosion described water for consumption of the section (b) of this section (b) of this section of the sheriff recision of this article erosion of this article erosion of this article erosion of this article erosion at the erosion of this article erosion er	n which the well is or ing developed by the p and sediment control e event the tract of lan- e owners of record of tract is to be used for lescribed in section ni g or water supply sour mption by humans or vity is to take place. (action hold interests in quired to be maintaine to the contrary, notice quires, in part, that the	ris proposed to be local proposed well work, if plan submitted pursuant d on which the well professed the surface tract or tractification the placement, construct of this article; (5) A recelected within one to domestic animals; and co)(1) If more than three the lands, the applicant dispursuant to section enter the lands of the pursuant to section enter the pursuant	ted; (2) The owners of recording the surface tract is to be used in to subsection (c), section is apposed to be drilled is located ects overlying the oil and gas action, enlargement, alteration ysurface owner or water purchousand five hundred feet of (6) The operator of any nature tenants in common or other than the server the documents regist, article one, chapter elevantice to a landowner, unless	lowing persons: (1) The owners of record of of the surface tract or tracts overlying the d for roads or other land disturbance as seven of this article; (3) The coal owner, d [sic] is known to be underlain by one or leasehold being developed by the proposed on, repair, removal or abandonment of any urveyor who is known to the applicant to f the center of the well pad which is used to ral gas storage field within which the co-owners of interests described in equired upon the person described in the ven-a of this code. (2) Notwithstanding any is the lien holder is the landowner. W. Va. lan ("WSSP") to the surface owner and any this rule.
☑ A	application Notice	☑ WSSP Notice	☐ E&S Plan Notice	☑ Well Plat Notice is he	ereby provided to:
	JRFACE OWNER	(s)		☑ COAL OWNER OR LE	SSEE
	e: See attached			Name: See attached	Office of Oil and Gas
Add	ress:			Address:	and Gas
Nam	101		_	COAL OPERATOR	DEC 4 2018
				Name:	
ridu	1033.			Address:	WV Department of Environmental Protection
ПSI	IRFACE OWNER	(s) (Road and/or Oth	er Disturbance)	radicss.	Protection
		(s) (read and s)		SURFACE OWNER OF	WATER WELL
Add	ress:			AND/OR WATER PURV	
				Name: See attached	
Nam				Address:	
Add	ress:			Sec. (1907.05)	
				□ OPERATOR OF ANY	NATURAL GAS STORAGE FIELD
		(s) (Impoundments o		Name:	And a service of the
Nam	ie:	, , , , , , , , , , , , , , , , , , , ,		Address:	
Add	ress:				
				*Please attach additional f	orms if necessary

41000.2569

WW-6A (8-13) API NO. 47- - 03/01/2019
OPERATOR WELL NO. SHR38DHSM
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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

DEC 4 2018

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

API NO. 47OPERATOR WELL NO. SHR38DHSM 1/2 019
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 57th 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) API NO. 47OPERATOR WELL NO. SHR380HSM
Well Pad Name: SHR38

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

Office of Oil and Gas

DEC 4 2018

WW-6A (8-13)

API NO. 474 7 1 103/61/2019
OPERATOR WELL NO. SHR380HSM Well Pad Name: SHR38

Notice	is	hereby	given	by:	
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Well Operator: CNX Gas Company, LLC

Telephone: 724-485-3540 Email: RaymondHoon@CNX.com Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

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 Officerat depprivacyofficer@wv.gov.

Facsimile:

Common walth of fennsy hania

COMMONWEALTH OF PENNSYLVANIA

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

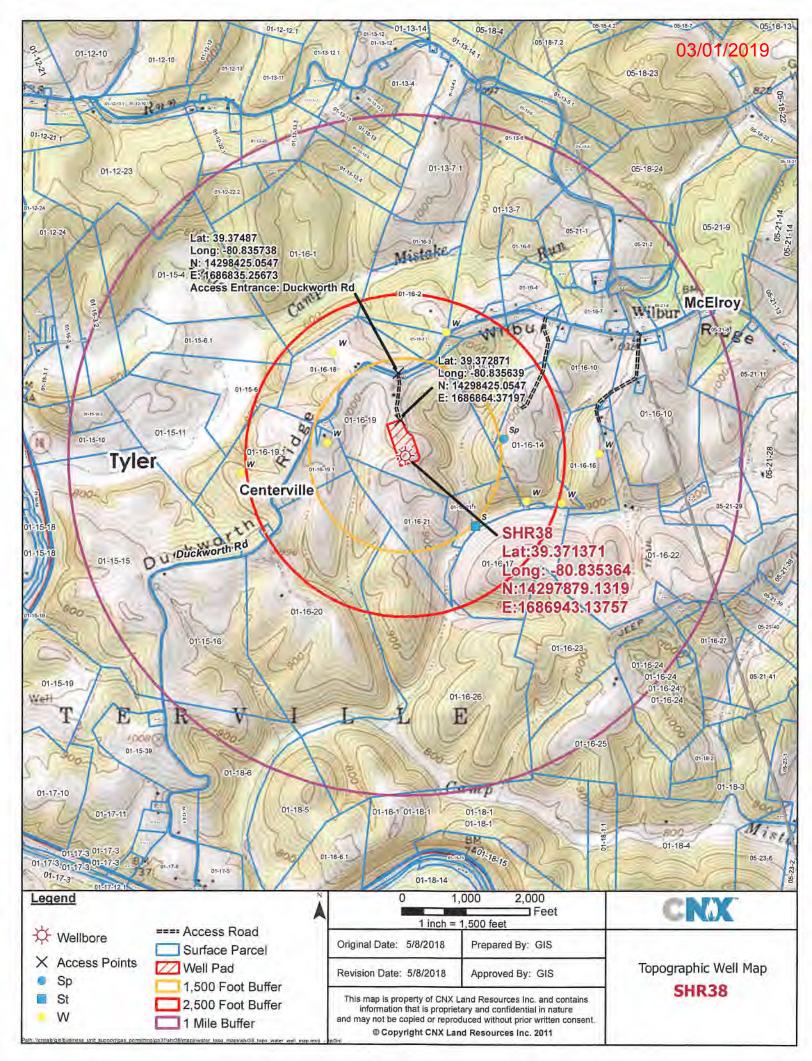
Subscribed and sworn before me this 29th day of Action 1

My Commission Expires

Notary Public

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Office of Oil and Gas

DEC 4 2018



Surface Owners:

	THE RESIDENCE OF THE PARTY OF T			
James Eli Ash	8707 Middle Island Road Alma, WV, 26320			
Becannray LLC	5042 Tyler Highway Sistersville, WV 26175			
Nicole Eastham	34973 State Route 800 New Matamoras, OH			
Alexandria Fetty	34973 State Route 800 New Matamoras, OH			
Rachelle Hise	237 Holiday Avenue Woodsfield, OH 43793			
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:

James Eli Ash	8707 Middle Island Road Alma, WV, 26320
Becannray LLC	5042 Tyler Highway Sistersville, WV 26175
Nicole Eastham	34973 State Route 800 New Matamoras, OH
Alexandria Fetty	34973 State Route 800 New Matamoras, OH
Rachelle Hise	237 Holiday Avenue Woodsfield, OH 43793
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

Office of Oil and Gas

DEC 4 2018

W Department of Environmental Protection

3109367396 Operator Well No. SHR38DHSM

03/01/2019

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

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

Notice Time Date of Noti	Requirement: Notice shall be provided at least T	EN (10) days prior to filing a plication Filed://- 28	
Delivery me	thod pursuant to West Virginia Code § 22-6A-1	6(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVI		ED	
receipt reque drilling a hor of this subsec subsection m	V. Va. Code § 22-6A-16(b), at least ten days prior sted or hand delivery, give the surface owner notic rizontal well: <i>Provided</i> , That notice given pursuarction as of the date the notice was provided to the say be waived in writing by the surface owner. The ole, facsimile number and electronic mail address of	te of its intent to enter upon that to subsection (a), section te surface owner; <i>Provided, how</i> the notice, if required, shall incl	ne surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this ude the name, address, telephone number,
Matter to be		.1.	Office of Oil and Gas
Name: See atta	ereby provided to the SURFACE OWNER(s	Name:	Office of Oil and Gas
Address:	idied.	Address:	DEC 4 2018
Pursuant to V	ereby given: West Virginia Code § 22-6A-16(b), notice is herebwner's land for the purpose of drilling a horizontal		
State:	West Virginia	UTM NAD 83 Easting:	514191.0280
County:	Tyler	Northing:	4357999.2890
District:		Public Road Access:	Duckworth Ridge Road
Quadrangle:		Generally used farm name:	Ash
Watershed:	Headwaters Middle Island Creek		
Pursuant to facsimile nur related to ho	Shall Include: West Virginia Code § 22-6A-16(b), this notice is mber and electronic mail address of the operator rizontal drilling may be obtained from the Secreta 1 57 th Street, SE, Charleston, WV 25304 (304-926)	and the operator's authorized ary, at the WV Department of	ed representative. Additional information f Environmental Protection headquarters,
	ereby given by:		
	or: CNX Gas Company, LLC	Authorized Representative:	
	1000 Consol Energy Drive	Address:	1000 Consol Energy Drive
Canonsburg, PA	15317	Canonsburg, PA 15317	
Telephone:	724-485-3540	Telephone:	724-485-3540
Email: Facsimile:	RaymondHoon@CNX.com	Email: Facsimile:	RaymondHoon@CNX.com
01 1 C-	Duiveau Nation		

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.

SHR38DH53/01/2019

WW-6A4 Notice of Intent to Drill

Surface Owners:

James Eli Ash	8707 Middle Island Road Alma, WV, 26320	
Becannray LLC	5042 Tyler Highway Sistersville, WV 26175	
Nicole Eastham	34973 State Route 800 New Matamoras, OH	
Alexandria Fetty	34973 State Route 800 New Matamoras, OH	
Rachelle Hise	237 Holiday Avenue Woodsfield, OH 43793	
Potts Place LLC	353 Foundry Street New Martinsville, WV 26155	
STS Enterprises LLC	.C 659 Jefferson Run Road Alma, WV 26320	
Bessie Warner 771 McElroy Creek Roa Alma, WV 26320		

Office of Oil and Gas

DEC 4 2018

Operator Well No. SHRSBDHSM 9

03/01/2019

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

Date of Notic					
Delivery met	hod pursuant to West Virginia	Code § 22-6A-16	(c)		
■ CERTII	FIED MAIL	☐ HAND			
	RN RECEIPT REQUESTED	DELIV	ERY		
return receipt the planned of required to be drilling of a l damages to the	requested or hand delivery, give operation. The notice required e provided by subsection (b), sect horizontal well; and (3) A propo- ne surface affected by oil and gas	e the surface owner by this subsection tion ten of this arti- osed surface use a soperations to the	whose land shall inclu- cle to a surf- and compensextent the da	I will be used for de: (1) A copy ace owner whos sation agreemen amages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter. sted in the records of the sheriff at the time
of notice.	aby magrided to the SUDEACE	COWNED(c)		Offi	RECEIVED ice of Oil and Gas
(at the addres	eby provided to the SURFACE s listed in the records of the sher			D	EC 4 2018
Name: See attac	cnea.		Name:		
Address:	eby given : /est Virginia Code § 22-6A-16(c			ne undersigned v	V Department of commental Protection well operator has developed a planned
Address:	eby given:	purpose of drilling	Address given that the	ne undersigned valuell on the tra	well operator has developed a planned
Notice is here Pursuant to Woperation on State: County:	eby given: /est Virginia Code § 22-6A-16(c the surface owner's land for the	purpose of drilling	Address given that the a horizonta TTM NAD 8	ne undersigned value on the tra Easting: Northing:	well operator has developed a planned act of land as follows:
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operation on State: County: District: Quadrangle:	eby given: /est Virginia Code § 22-6A-16(c the surface owner's land for the West Virginia Tyler Centerville West Union	purpose of drilling U	Address given that the a horizonta ITM NAD 8 ublic Road	ne undersigned value on the tra Easting: Northing:	well operator has developed a planned oct of land as follows: 514191.0280 4357999.2890
Notice is here Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r	eby given: Vest Virginia Code § 22-6A-16(c) the surface owner's land for the West Virginia Tyler Centerville West Union Headwaters Middle Island Creek Shall Include: Vest Virginia Code § 22-6A-16(c) ed by W. Va. Code § 22-6A-10 ell; and (3) A proposed surface u ted by oil and gas operations to related to horizontal drilling may located at 601 57th Street, SE	purpose of drilling P Co c), this notice shall (b) to a surface of the extent the dark y be obtained from	given that the a horizontal TM NAD 8 ublic Road include: (1) where whose on agreemenages are continued the Secret	ne undersigned value on the tra Easting: Northing: Access: Access: Accepy of this eland will be undersigned value on the tra	well operator has developed a planned act of land as follows: 514191.0280 4357999.2890 Duckworth Ridge Road
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Notice is here Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to Woperation of the provide horizontal we surface affect information of the headquarters, gas/pages/def	eby given: Vest Virginia Code § 22-6A-16(conthe surface owner's land for the West Virginia Tyler Centerville West Union Headwaters Middle Island Creek Shall Include: Vest Virginia Code § 22-6A-16(content of the surface of the s	purpose of drilling P Co c), this notice shall (b) to a surface of the extent the dark y be obtained from	given that the a horizontal TM NAD 8 ublic Road senerally used include: (1) where whose on agreement ages are continued to the Secret V 25304	ne undersigned value on the transition of the tr	well operator has developed a planned act of land as follows: 514191.0280 4357999.2890 Duckworth Ridge Road Ash code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-

Oil and Gas Privacy Notice:

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Rachelle Hise	237 Holiday Avenue Woodsfield, OH 43793	
Potts Place LLC	353 Foundry Street New Martinsville, WV 26155	
STS Enterprises LLC	orises LLC 659 Jefferson Run Road Alma, WV 26320	
Bessie Warner	771 McElroy Creek Road Alma, WV 26320	

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DEC 4 2018



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

> Jill M. Newman Deputy Commissioner

April 27, 2018

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

Subject: DOH Permit for the SHR-38 Pad, Tyler County SHR-38DHSM Well Site

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2018-0331 for the subject site to CNX Gas Company LLC, for access to the State Road for the well site located off of Tyler County route 58/2 SLS.

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

Office of Oil and Gas

DEC 4 2018

WV Department of Environmental Protection Very Truly Yours,

Gary K. Clayton

Regional Maintenance Engineer Central Office Oil &Gas Coordinator

Gary K. Clayton

Cc: Ray Hoon

CNX Gas Company LLC

CH, OM, D-6

File

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

Type: Water CAS: 7732-18-5

Type: Silica CAS: 14808-60-7

Type: Hydrochloric Acid CAS: 7647-01-0

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

Type: Petroleum distillate CAS: 64742-47-8

Type: Glutaraldehyde CAS: 111-30-8

Type: Ethylene glycol CAS: 107-21-1

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

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

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

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

Type: Ammonium chloride CAS: 12125-02-9

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

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

Type: Metanol CAS: 67-56-1

Type: Formaldehyde CAS: 50-00-0

Type: Thiourea CAS: 62-56-6

Type: Acetophenone CAS: 98-86-2

Office of Oil and Gas

DEC 4 2018

