

#### 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

Permit approval for SHR38EHSM 47-095-02570-00-00

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: SHR38EHSM

Farm Name: JAMES E. ASH ET AL

Horizontal 6A New Drill

U.S. WELL NUMBER: 47-095-02570-00-00

Date Issued: 2/26/2019

Promoting a healthy environment.

API Number: 95-03570

#### 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: 95-02/07/2019

### **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. SHR38EHSM

Well Pad Name: SHR38

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

1) Well Operator: C	NX Gas Company, LLC	494458046	Tyler	Centervi	West Union
_		Operator ID	County	District	Quadrangle
2) Operator's Well N	umber: SHR38EHSM	Well P	ad Name: SHI	R38	
3) Farm Name/Surfac	e Owner: Ash	Public Re	oad Access: D	uckworth Ric	dge Road
4) Elevation, current	ground: 1026'	Elevation, propose	d post-construc	tion: 1012'	
5) Well Type (a) Go Other		Un	derground Stor	rage	
(b)If	Gas Shallow	X Deep	1		
	Horizontal	X			ABB 12014
6) Existing Pad: Yes	or No No		_		11/29/0010
	ormation(s), Depth(s), Ant Marcellus Shale @ 6460'-6				~4000 psi
8) Proposed Total Ve	rtical Depth: 6480'				
9) Formation at Total	A second of the second of the second of	us Shale (will not	penetrate Ond	ondaga)	
10) Proposed Total M	leasured Depth: 20,198'				
11) Proposed Horizon	ntal Leg Length: 13,041'				
12) Approximate Fres	sh Water Strata Depths:	114', 209', 225	5', 415'		
13) Method to Determ	nine Fresh Water Depths:	Offset well infor	mation		
	water Depths: 1932'				
15) Approximate Coa	I Seam Depths: No know	n mineable coal	seams; trace (	@ 108', 1208	3'
16) Approximate Dep	oth to Possible Void (coal	mine, karst, other)	None anticip	ated	
	ell location contain coal se adjacent to an active mine		N	lo	X
(a) If Yes, provide N	Mine Info: Name:	On RE	ECEIVED of Oil and Gas		
	Depth:				
	Seam:	DEC	4 2018		
	Owner:	WV De Environme	epartment or ental Protection		

WW-6B (04/15)

OPERATOR WELL NO. SHR38EHSM

Well Pad Name: SHR38

#### 18)

#### CASING AND TUBING PROGRAM

ТҮРЕ	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	20198	20198	4043 / TC @ 2050'
Tubing	2.375	New	J-55	4.7		TBD	N/A
Liners	N/A						

900

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						

RECEIVED Office of Oil and Gas

DEC 4 2018

**PACKERS** 

Kind:	N/A	
Sizes:		
Depths Set:		

WW-6B (10/14) 4709502570

API NO. 47- -

03/01/2019

OPERATOR WELL NO. SHR38EHSM

Well Pad Name: SHR38

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

Utilize conductor rig to set 20" conductor into solid rock and cement back to surface. MIRU drilling rig. Air drill 17-1/2" hole. Run and cement 13-3/8" fresh water 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.

RECEIVED
Office of Oil and Gas

DEC 4-2018

\*Note: Attach additional sheets as needed.

#### **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.

RECEIVED
Office of Oil and Gas

DEC 4 2018



LP @ +/- 6480' TVD

#### **DRILLING WELL PLAN**

SHR38EHSM (Marcellus HZ)

**Marcellus Shale Horizontal** 

Tyler County, WV

+/- 13041' Lateral

01 20								Tyler Co	ounty, WV	
68					SH	IR38EH	SM SHL	N 3	20156.68, E 162247	2 (NAD27)
Ground Elevation		1012 GL E	levation		S	HR38EH	ISM LP	N 31	9183.05, E 1621309	9.6 (NAD27)
Azimuth		160.9	9°		SH	IR38EH	SM BHL	N 306	6852.91, E 1625556	.99 (NAD27)
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	MD	TVD	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
77.5 6 67.7										
	24"	20" L/S	Conductor	100	100	AIR	To Surface	N/A	N/A	Stabilize surface fill/soil
			Shallowest Fresh Water		114	Carlo	15.6 ppg Class A + 1% to 3% CaCl2	Centralize every other joint from shoe to		Set through fresh water zones
	17-1/2"	13-3/8" 54.5# b J-55 BTC	Deepest Fresh Water		415	AIR / FW Mist	+ 1/4 pps Flake 20% OH Excess Yield = 1.19	surface Bow spring centralizers	Ensure the hole is clean at section TD	Cemented to surface  No known mineable coal seam
			Fresh Water Casing	565	565		TOC @ surface	Bott spring contralization		
			No known coal zones		N/A					
MI 110			Big Lime		1867		15.6 ppg Class A	4 10 10 10 10 10 10 10 10 10 10 10 10 10		Set through potential salt water
		10.00	Big Injun		1932	0.50	+ 0% to 2% CaCl2	Centralize every 3rd joint from shoe to	Soap the hole as needed and ensure the hole is clean at section TD	zones Cemented to surface
	12-1/4"	9-5/8" 36.0# J-55 LTC	Price		2072	AIR / Soap	+ 1/4 pps Flake 20% OH Excess	surface		
		0 00 210	Weir		2232		Yield = 1.19	Bow spring centralizers		Casing to be set below the Big Injun and Berea and into Devonian
			Berea		2422		TOC @ surface			Shale
			Intermediate Casing	2550	2550					
			Gordon		2642					
			Warren		3337				Once at TD, circulate at max flowrate with max rotation until shakers clean-up (typically requires multiple bottoms-up)  Once on bottom with casing,	
	8-3/4"	5-1/2" 20.0#	Benson		4917	AIR	15.0 ppg Class H			
	Tangent		Alexander		5162		with additives (retarder, suspension agent, gas block, defoamer, fluid	Centralize every joint from shoe to TOC Single-piece/rigid bow		Note: Actual centralizer placement may be changed due to hole conditions  Note: Actual cement blends may
			Cashaqua		6162					
			Middlesex		6267		loss, extender, etc.)			
		P-110 VAR	West River		6307		10% OH Excess			
			Burkett		6377		Yield = 1.10	centralizers	circulate a minimum of one	vary slightly depending upon service company utilized
	8-1/2" Curve		Tully		6407	12.0-12.8	TOC @ >= 500' above		hole volume prior to pumping cement	
M	& Lateral		Hamilton		6428	ppg SOBM	9-5/8" shoe		South de Comp.	
			Marcellus		6447	31111				
			Production Casing	20198	6480					

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



TD @ +/- 6480' TVD



#### SHR38 Pad Frac - SOG Review

In accordance with WVDEP 35CSR8 Section 5.11, all known shallow oil and gas (SOG) wells have been identified within a 500' radius of the SHR38 pad. Any SOG well that falls within the Area of Review (AOR) has been reviewed and is provided in a list that includes API, Operator, Well Name, Well Number, Current Status, Total Depth, and Producing Formation at Total Depth. See following pages, including (Figures 3 and 4).

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

The current hypothesis for SOG Communication is that Marcellus frac fluids and pressure intersect and migrate up a nearby fault that acts as a conduit for upward migration and intersection with high permeability reservoirs of the Alexander and Benson. Both of these reservoirs are primarily depleted, allowing an easier pressure migration throughout these formations. Geomechanical data is collected from dipole sonic logs. CNX's nearest sonic data is from the SHR1C well (Figure 1), immediately north of the SHR38 pad. Frac modeling (Figure 2) of the Marcellus in the area does not show significant upward frac growth. In fact, typical frac height would need to be more than double to reach the Alexander, approximately 1000' above the Marcellus Shale.

RECEIVED
Office of Oil and Gas

DEC 4 2018



#### 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.

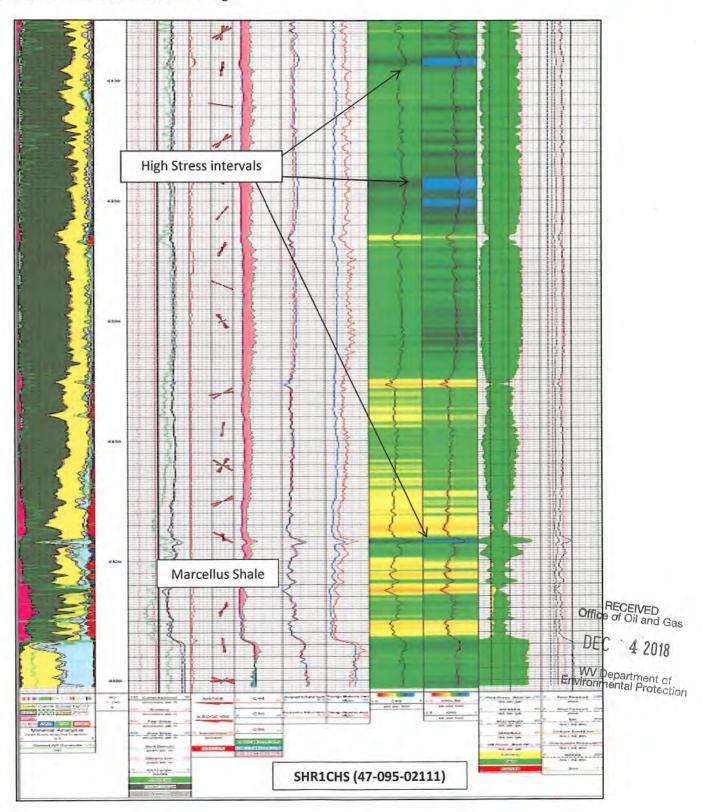




Figure 2. Stratigraphic intervals of high stress should serve as adequate frac barriers for a Marcellus frac. The frac modeling example below is from the Oxford area of western Doddridge County, where the Marcellus and adjacent shallower shales are lithologically similar to Pennsboro. Frac modeling only yields frac height of approximately 300' and falls far short of the 1000' required to communicate with the Alexander or Benson formations. Therefore, faulting is the primary suspect for upward frac migration.

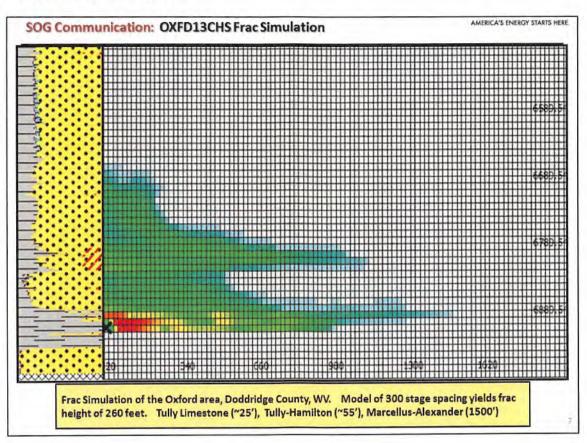
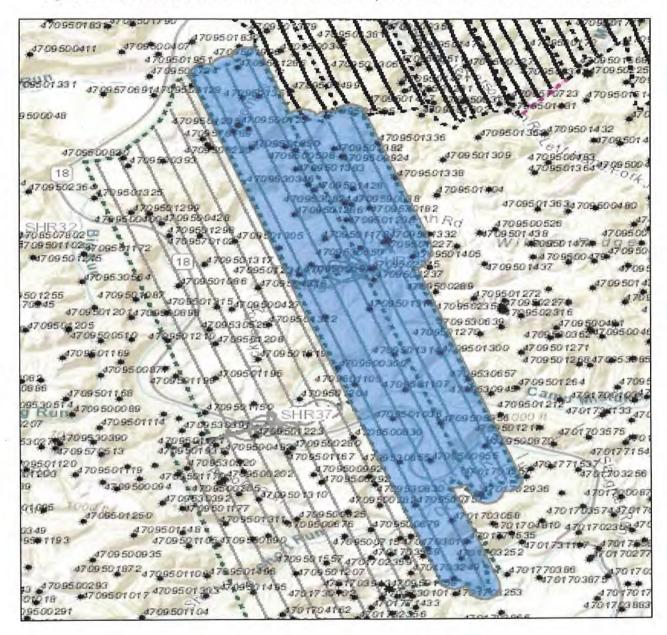






Figure 3. All wells within 500' buffer around the SHR38 pad have been reviewed and listed below.





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



Figure 4. All wells within 500' buffer around the SHR38 pad have been reviewed and listed below. 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	Oil and Gas	L G Hammer 2	77	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		39.34430633	-80.82337929	J & J Enterprises, Inc.	Gas	P Strickling 1		4900	Benson	845
4701703058	WV		39.34116734	-80.8266802	J& J Enterprises, Inc.	Gas	Middle Island		5117	Alexander	1039
4701703252	WV		39.33671524	-80.82565321	J& JEnterprises, Inc.	Gas	W&VMcCutcheon		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	Doddridge	39.33436122	-80.82657418	Hope Natural Gas Company	not available	McCutchan-Haines		1		1135
4701771535	WV	Doddridge	39.33871526	-80.82489324	Hope Natural Gas Company	not available	N A Joseph	7			977
4709500097	WV	Tyler	39.37191314	-80.84222593	Pigott, L. G.	Gas	John Ash	1	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
4709500120	WV	Tyler	39.38944545	-80.84290196	Oper in Min. owner fld. no code assgn(Orphan well proj)	Dry w/ Gas Show	W C Pierson / Josephs Mills	1	1952	Squaw	873
4703500123	WV	Tyler	39.38858257	-80.85033279	Oper in Min. owner fld.no code assgn(Orphan well proj)	Oil w/ Gas Show	DDDavis	3	1883	Big Injun (undiff)	803
4709500208	WV	Tyler	39.39188259	-80.84805585	Bachelor, D.	Dry w/ O&G Show	Frank H Ash	1	2109	Price Fm & equivs	
4709500300	WV	Tyler	39.35951588	-80.83941496	Prior, Ferrell L.	Gas	Alexander Doak Heirs	1	1836	Big Injun (undiff)	785
4709500508	WV	Tyler	39.3854884	-80.84398493	Equitable Gas Co.	Gas	W N Moore		1900	Big Injun (undiff)	867
4709500757	WV	Tyler	39.34307445	-80.83071912	Industrial Gas Associates	Oil and Gas	Delmer Mulvay	1	2209	Berea Ss	760
4709500870	WV	Tyler	39.35004941	-80.82286032	J& J Enterprises, Inc.	Gas	Izetta B Garner	6	4901	Benson	790
4709500876	WV	Tyler	39.36557401	-80.84080595	L. & M. Petroleum Co.	Gas	Jacob L Dillon	1	2387	Berea Ss	975
4709500924	WV	Tyler	39.38476329	-80.83893904	J & J Enterprises, Inc.	Gas	W Paul McCutchen	-	5122	Alexander	735
4703500955	WV	Tyler	39.3483235	-80.82911817	J & J Enterprises, Inc.	Gas	Jay & Mary Collins		5279	Alexander	883
4709500956	WV	Tyler	33.35286655	-80.82783921	J& JEnterprises, Inc.	Gas	Jay & Mary Collins	1	5430	Alexander	1028
4709501036	WV	Tyler	39.35339266	-80.83313209	J & J Enterprises, Inc.	Gas	Edwin D Mulvay et ux		5177	Benson	763
4703501101	WV	Tyler	39.37483806	-80.83367761	Never Drilled (Canceled permit)	Not Drilled	Never Drilled (Canceled)		not drilled	not drilled	960
4709501107	WV	Tyler	39.3568727	-80.83182713	Union Drilling, Inc.	Gas	Karen Jane Osborne	3	5306	Alexander	763
4709501108	WV	Tyler	39.35687256	-80.82472829	Union Drilling, Inc.	Gas	Karen Jane Osborne	1	5240	Alexander	978
4709501109	WV	Tyler	39.35759781	-80.837443	Union Drilling, Inc.	Gas	Karen Jean Osborne	2	5325	Alexander	943
4709501178	WV	Tyler	39.37483806	-80.83367761	Never Drilled (Canceled permit)	Not Drilled	Never Drilled (Canceled)		not drilled	not drilled	960
4709501206	WV	Tyler	39.37483806	-80.83367761	Never Drilled (Canceled permit)	Not Drilled	Never Drilled (Canceled)		not drilled	not drilled	960
4709501226	WV	Tyler	39.3728251	-80.839312	DAC, Inc.	Dry	Verna 🛭 Ash	- 1	5140	Benson	1013
4709501227	WV	Tyler	39.37456504	-80.83426712	DAC, Inc.	Gas w/ Oil Show	Verna D 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	-80.85052578	DAC, Inc.	Gas	Geneva Fouts Bullman	1	4890	Benson	812
4709501237	WV	Tyler	39.37006898	-80.83520209	DAC, Inc.	Gas	Verna 🛛 Ash	3	5157	Benson	1023
4709501238	WV	Tyler	39.37722216	-80.83837803	DAC, Inc.	Gas	Edna Dillon	1	5129	Benson	957
4709501254	WV	Tyler	39.36731382	-80.82921722	Stonewall Gas Co., Inc.	Gas	Charles Lee Cumberledge	1	5150	Benson	1018
4709501268	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	-80.62790623	Stonewall Gas Co., Inc.	Gas	John R Pratt	2	5150	Benson	949
4709501304	WV	Tyler	39.37384024	-80.84585185	Coastal Corp, The	Gas	Duane Clark et al	1	4923	Benson	758
4709501312	WV	Tyler	39.37483806	-80.83367761	Never Drilled (Canceled permit)	Not Drilled	Never Drilled (Canoeled)		not drilled	not drilled	960
4709501314	WV	Tyler	39.36107879	-80.83295012	Eastern American Energy Corp.	Gas	Charles Daughtery et al	3	5090	Benson	926
4709501318	WV	Tyler	39.36658693	-80.83576207	Eastern American Energy Corp.	Gas	Charles Daughtery et al	1	5167	Benson	1012
4709501332	WV	Tyler	39,37483806	-80.83367761	Never Drilled (Canceled permit)	Not Drilled	Never Drilled (Canceled)		not drilled	not drilled	960
4709501336	WV	Tyler	39.38635824	-80.83482814	Anvil Oil Co., Inc	Gas	Elmer Ceoil	-1	5069	Benson	956
4709501338	WV	Tyler	39.38215313	-80.83277518	Anvil Oil Co., Inc	Gas	Timothy NIngoglia	1	5045	Benson	949
4709501350	WV	Tyler	39.3857785	-80.84902981	Anvil Oil Co., Inc	Gas	Ryan J Lind et ux		4907	Benson	785
4709501351	WV	Tyler	39.39172362	-80.8499658	Anvil Of Co., Inc	Gas	Robert H Tennant	2	5034	Benson	924
4709501382	WV	Tyler	39.38563332	-80,83968703	Anvil Oil Co., Inc	Gas	Matthew Ash	3	5136	Benson	1049
4709501383	WV	Tyler	39.38331337	-80.84338492	Anvil Oil Co., Inc	Gas	Matthew Ash	4	5117	Benson	1027
4709501405	WV	Tyler	39.37282494	-80.8309022	DAC, Inc.	Gas	Conrad Costilow	1-A	2136	Big Injun (undiff)	976
4709501428	WV	Tyler	39.38070228	-80.84192896	Anvil Oil Co., Inc	Gas	Lawrence Mercer Hrs	5	5002	Benson	893
4709501486	WV	Tyler	39.37152	-80.83520209	DAC, Inc.	Dry	Verna O Ash	4	2155	Big Injun (undiff)	1036
4709501951	WV	Tyler	39.39563978	-80.8548267	Sancho Dil & Gas	Gas w/ Oil Show	Donna Marie Vandine	2	6280	Maroellus Sh	728
4709502245	WV	Tyler	39.37127601	-80.83562008	Never Drilled (Canceled permit)		JE Ashet al	SHR08L	not drilled	not drilled	1019
4709530346	WV	Tyler	39,38142731	-80.84267595	Pittsburgh & WV Gas	Gas	Lucretta Mercer	2	2101	Squaw	954
4709530650		Tyler	39.37388707	-80.83688306	Hope Natural Gas Company	Gas	PPDoak		1992	Big Injun (undiff)	972
4709530657	WV	Tyler	39.35807958	-80.8247173	Hope Natural Gas Company	Gas	AUDavis		1972	Big Injun (undiff)	
4709530824		Tyler	39.37910719	-80.83856504		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
			39.37490217	-80.84080697	Hope Natural Gas Company	Gas	Martin M Grove	1	2010	Big Injun (undiff)	903
	WV	luler	1 33.3 (43UZ17								
4709530887 4709570182	WV	Tyler Tyler	39.37864113	-80.8357641	South Penn Oil (S. Penn Nat. Gas)	not available	John Mercer	1	1841	Big Injun (undiff)	770

Office of Oil and Gas

DEC 4 2018

WV Department
Environmental Protectic

WW-9 (4/16) 03/01/2019

API Number	47		
------------	----	--	--

Operator's Well No. SHR38EHSM

# 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  Will a pit be used? Yes No If so, please describe anticipated pit waste: no pits	No
Will a synthetic liner be used in the pit? Yes No If so, what ml.? NA	AB
Proposed Disposal Method For Treated Pit Wastes:  Land Application Underground Injection (UIC Permit Number 47-001-00561, 47-097-01514, 47-097- Reuse (at API Number SHR35 wells API TBD Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain No Pits	01613, 34-013-2-0609)
Will closed loop system be used? If so, describe: Yes	
Diffill medium anticipated for this went (vertical and norizontal): An, freshwater, on based, etc.	from spud/surface to curve kick-off point (KOP).
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	SM) from curve KOP to lateral TD
Additives to be used in drilling medium? Bactericide, Polymers, and Weighting Agents	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Land Application of soil conductor cuttings only, rock cut	ttings will be taken to an approved Landfill
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A -Landfill or offsite name/permit number? See attached.	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associate West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permi where it was properly disposed.	ed waste rejected at any ttee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POL on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protections of the permit are enforceable by law. Violations of any term or condition of the general permits are regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information 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 aware penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature	ormation submitted on this namediately responsible for
Company Official (Typed Name) Raymond Hoon  DEC	4 2018
Company Official Title Supervisor - Permitting WV De	ental Protection
Subscribed and sworn before me this 37 day of November . 20 18	Commonwellh
Notary Public	Commonwealth of Pennsylvania
My commission expires 10-31-20>1	Notarial Seal JUDY L SNYDER - Notary Public CECIL TWP, WASHINGTON COUNTY My Commission Expires Oct 31, 2021

03/01/2019

Operator's Well No. SHR38EHSM

Proposed Revegetation Treatm	ent: Acres Disturbed 1	5.57 Prevegetation	<sub>pH</sub> 6.5
Lime according to pH	test Tons/acre or to correct	ct to pH 7.0	
Fertilizer type 10-20	0-20		
Fertilizer amount 50	0	lbs/acre	
Mulch_ hay or stra	w @ 2	_Tons/acre	
		Seed Mixtures	
Ten	porary	Peri	nanent
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
	t will be land applied, inc n area.	d application (unless engineered plans incolude dimensions (L x W x D) of the pit, a	
Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application Photocopied section of involve	t will be land applied, inc n area.	clude dimensions (L x W x D) of the pit, a	
Maps(s) of road, location, pit a provided). If water from the piacreage, of the land application	t will be land applied, inch area.  ed 7.5' topographic sheet.	clude dimensions (L x W x D) of the pit, a	nd dimensions (L x W), a
Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application Photocopied section of involve Plan Approved by:	t will be land applied, inch area.  ed 7.5' topographic sheet.	clude dimensions (L x W x D) of the pit, a	nd dimensions (L x W), a
Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application Photocopied section of involve Plan Approved by:	t will be land applied, inch area.  ed 7.5' topographic sheet.	elude dimensions (L x W x D) of the pit, a	nd dimensions (L x W), a  Gas
Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application Photocopied section of involve Plan Approved by:	t will be land applied, inch area.  ed 7.5' topographic sheet.	PECEIVED Office of Oil and  DEC 4 20	nd dimensions (L x W), a  Gas
Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application Photocopied section of involve Plan Approved by:	t will be land applied, inch area.  ed 7.5' topographic sheet.	PECEIVED Office of Oil and  DEC 4 20	nd dimensions (L x W), a  Gas
Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application Photocopied section of involve Plan Approved by:	t will be land applied, inch area.  ed 7.5' topographic sheet.	PECEIVED Office of Oil and  DEC 4 20	Gas

						HOLE MIT INV						MONTH MANNEY OF STATE MAN LE MAN AND LEADING (NEISING MATARITA)	W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	public Services (Allied V	Vaste)		Gas Spec	ific Waste S	treams			0	ther Accepte	d Waste Stream	ns ns				
Lange   Machine   Lange   La	Landfill	Location		Drill *	Waste	Waste	Contaminated Soll	Construction &	Industrial	Sludge	Friable	Non-Friable	Process	Solidification		Contact Information
Control	Lean County	Bloomington	H	×	×		×	X	×	×	×	×	×		×	
Description   IL   X   X   X   X   X   X   X   X   X	C/Coles County	Charleston	1	×	×		×	X	×	×	×	×	×		×	
Ellind   General Dicease   I.	ickyard Disposal	Danville	II.	×	×		×	X	×	×	×	×	X		×	
Elevel   E	othern Illinois Regional	De Soto	H						3						×	
Hospital   II.   X	e County	Dixon	II	×	×		×	X	×	×	×	×	×		×	
Hosewelle   II   X	rer Rock Island	East Moline	IL	×	×		×	×	×	×	×	×	×		×	
Heigheid   II.   X   X   X   X   X   X   X   X   X	nd County	Greensville	IL	×	×		×	×	×	×	×	×	X		X	
Labelle   II.   X	nois	Hoopeston	IL	×	×		×	×	×	×	×	×	×		×	
Higherton   Lifethfield   IL   X   X   X   X   X   X   X   X   X	ndComp	LaSalle	II	×	×		×	×	×	×	×	×	×		×	317-921-1667 or 480-627-2700
Mortes   11	chfield-Hillsboro	Litchfield	IL	×	×		×	×	×	×	×	×	×		×	1-800-634-0215
Portide   II	rirontech	Morris	H	×	×		×	×	×	×	×	×	×		×	
	ingston	Pontiac	П	X	×		×	×	×	×		X	×		×	
Springfield   IL   X   X   X   X   X   X   X   X   X	cana	Roxana	П	×	×		×	X	×	×	×	X	×	×	×	
Frankfort   KY   X   X   X   X   X   X   X   X   X	gamon Valley	Springfield	П	X	×		×	X	×	×	×	X	×		×	
Profile   KY   X   X   X   X   X   X   X   X   X	ason Valley	Frankfort	KY	×	×		×	X	×	×	×	X	×		×	
Morehard   KY   X   X   X   X   X   X   X   X   X	e Ridge	Irvine	KY	×	×		×	X	×	×	×	×	x		×	
Rush   RV   X   X   X   X   X   X   X   X   X	rehead	Morehead	KY	×	X		×	×	×	×	x	X	×		×	
Deletentation   OH	on Valley	Rush	KY	×	×		×	×	×	×	×	X	×	×	×	
Household   Chiral OH	rrokee Run	Bellefontaine	HO				X	×	×	×		X	×		×	
Control   Cont	liams County	Bryan	НО				×	×	×	×	×	×	×		X	
Celina   OH   X   X   X   X   X   X   X   X   X	mry Environmental	Carcy	НО				X	×	X			×	×		×	
Action   Continue	ina	Celina	НО				×	×	×	×		X	X		×	
Landfill**   Beet Signth   OH   X   X   X   X   X   X   X   X   X	bon-Limestone**	Lowellville	НО	×	×		×	×	×	×		100000000000000000000000000000000000000	×	×	×	lack Palerno:
Descript   OH	univeride Landfill**	East Sparta	НО	×	×		×	×	X						x	Work- 330-636,8013
Shiloh   OH   P.A   X   X   X   X   X   X   X   X   X	Tain County	Oberlin	НО		4		×	×	×	×			×		×	220 806 0660
Importation   PA	cland Marsh	Shiloh	НО					X	×	×	×	X			×	CCII: 230-800-3000
Mergantown   PA	perial	Imperial	PA				×	×	X	×	×	x			×	
Lawrencorolle   VA   X   X   X   X   X   X   X   X   X	nestoga	Morgantown	PA		3		×	×		X	×	X	×		×	Barbara Harsanye:
Internal Little Plymouth         VA         X <td>answick</td> <td>Lawrenceville</td> <td>VA</td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>×</td> <td>×</td> <td>×</td> <td>×</td> <td>X</td> <td></td> <td>×</td> <td>work: 330-536-8013 x 120</td>	answick	Lawrenceville	VA				X	X	×	×	×	×	X		×	work: 330-536-8013 x 120
Richmond   VA   X   X   X   X   X   X   X   X   X	ng and Queen	Little Plymouth	٨A				X	X	×	×	X	X	x		×	cell: 330-423-7267
Hunicane	д Вотпирел	Richmond	VA				X	X	×	×	X	X	X		×	
Wheeling (Short Creek) WV X X X X X X	camore	Hurricane	W				×	×	×	×			×		X	
	ort Creek	Wheeling (Short Creek)	W	×	×		×	×	×	×			×	1	×	

Office of Oil and Gas

DEC 4 2018

WV Department = '
Environmental Protec 1

Maste Management Industrial Landfills			Gas Spec	Gas Specific Waste Streams	treams			5	Other Accepted	Other Accepted Waste Streams	31				
Landfill	Location		Drill *	Waste	Waste	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial	Studge	Friable	Non-Friable Asbestos	Process	Solidification	Municipal Solid Waste	Contact Information
Arden Landfill	Washington	PA	×	×		×	×	×	×			×	X	×	
South Hills Arnoni	South Park	PA	×	×			X	×	×			×	X	×	
Kelly Run	Efizabeth	PA	×	×		x	×	×	X			×	×	×	
Valley Landfill	Itwin	PA	X	×		×	×	×	×	X	X	×	×	×	
Evergreen Landfill	Blairsville	PA	×	×		×	×	x						×	
Charleston Landfill	Charleston	W	×	×		×	×	×	×			×		×	Scott Allen: 412-604-2256
Mendowfill andfill	Bridgement	ANA	*	>		*	4	>	*	*	,	3			
Configuration I andfill	Parkenshura	WA	*	<>		*	**	<>	× ×	×	Y	*	<>	×	
S&S Gradin Landfill	Clarkbure	W	×	×		×	*	*	< >			<>	*	<	
American Landfill	Waynesbury	HO	×	×		×	×	×	×	×	×	<×	X	< A	
Suburban RDF	Glenford	HO	×	×		×	×	×	×	×	×	×	*	4	Patty I andolt 262, 632, 8001
osboston Landfill***	Coshocton	HO	×	×		×	X	×						*	John Miller 1 900 063 4774
Mahooing Landfill	New Springfield	HO	×	×		X	X	X			×	×		×	Some trainer, 1-600-902-4-70
Additional Landfills			Gas Speci	Gas Specific Waste Streams	treams				Other Accepte	Other Accepted Waste Streams	25				
Landfill	Location		Drill*	Waste	Waste	Contaminated Soll (Including Petroleum)	Construction & Demolition Waste	Industrial	Sludge	Friable	Non-Friable Asbestos	Process	Solidification	Municipal Solid Waste	Contact Information
Westmordand Waste (WWLC Group)	111 Conner Lane, Belle Vernon, PA 15012	PA	×	×		×	×	×	×	×	×		×	×	Mike Home: 412-552-4427 Mark Thomas: 724-929-7694
MAX Environmental Bulger Facility)	200 Max Drive, Bulger, PA 13019	PA	×	×		×	×	×	×				×	×	Carl Spadaro: 412-343-4900
MAX Environmental	233 MAX Lane Yukon, PA 15698	PA	×	×		×	×	×	×				×	×	cell: 412-445-9789
Apex Sanitary landfill Apex Environmental	11 County Road 78 Amsterdam, Ohio 43903	НО	×	×		×	x	×	×				×	×	Joe Tetericle 740-275-2887
Rumpke, Mt. Sterling (Rumrke Consolidated)	30 Larison Rd, Jeffersonville, KY 40337	KY	×	×		×	×	×		×	×			×	Carl Walter: 513-623-2471
Jaurel Ridge Landfill Waste Connections of KV	3612 B State Highway 552 110, KY 40740	KY	×	×		×	×	×		×	×	×		×	Bruce Crouch: Work: 606-864-7996
	Cnestnut Valley 1184 McClellandtown Rd, McClellandtown, PA 15458	¥.	×	×		×	×	×	×					×	Tony Jahrena
Advanced Disposal	Greentree Landfill; 635 Toby Rd.; Kersey, PA	¥	×	×		×	×	×	×					×	6184 Route 219, Brockway, PA 15824 814-590-9906
	Mostoller Landfill; 7035 Glades Pike Rd.; Somerset, PA	P.	×	×		×	×	×	×					×	

Ohio "TENORM" - requires Radium 226/228 analysis by load before leaving the well road. Solid waste landfills in Ohio can only accept TENORM waste with combined concentration less than 5 picocarries per gram above the natural background level.

Accepts drilling wastes but profile for disposal is not currently completed.

Waste reman scepted by facility. Contact facility directly to verify waste afreams accepted.

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

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

"Drill Cuttings include fine sand for the purpose of this table (Contact facility directly to verify waste streams accepted).

Netes

Office of Oil and Gas

DEC 4 2018

03/01/2019



RECEIVED
Office of Oil and Gas

DEC 4 2018

WV Department of Environmental Protection

# Site Safety Plan for Well SHR38EHSM CNX Gas Company, LLC.



70B = 9 2018

### **Approval Sheet**

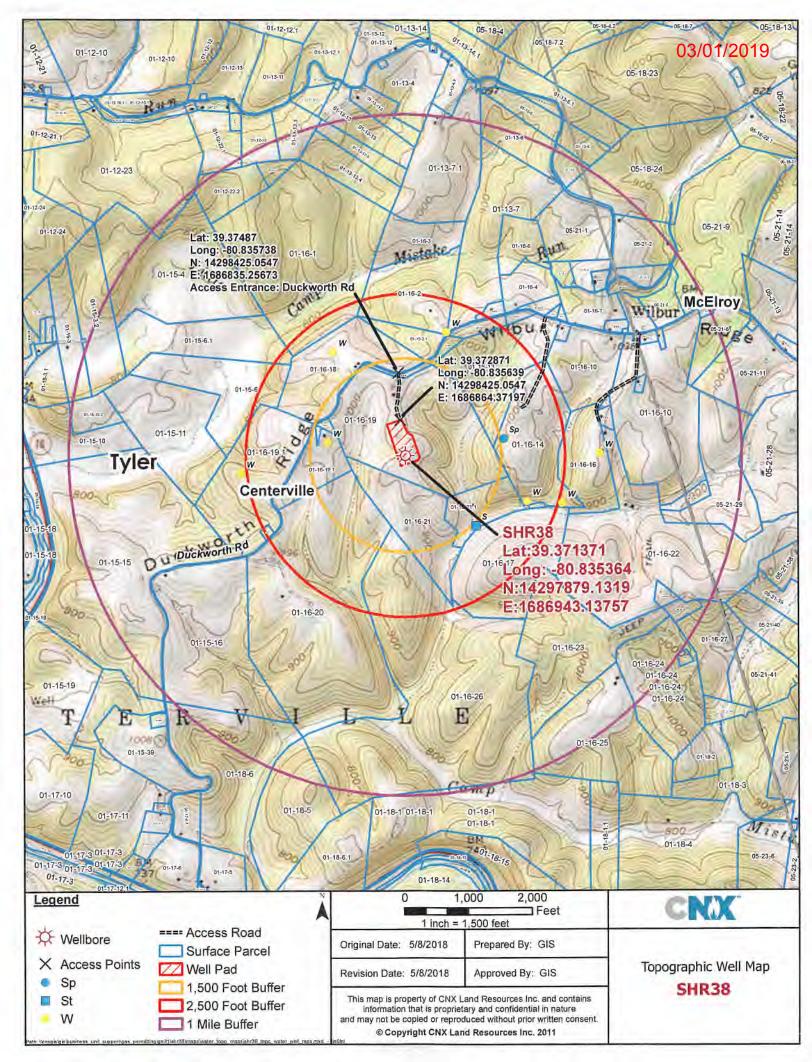
The Office of Oil and Gas and the Oil and Gas Conservation Commission have set forth minimum requirements for necessary equipment and procedures that must be addressed in a Safety Plan ("Plan") and shall be submitted and approved prior to drilling a deep well. A deep well shall be any well which meets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

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

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

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

West Virginia Division of Environmental Protection, And	Office of Oil and Gas	
West Virginia Oil and Gas Conservation Commission	l <b>.</b>	
Approved this dayof month	, 20	_ by
	Date:	
	Date:	_



#### FOR PLAT PAGE DUE TO LENGTH OF LATERAL

SEE PAGE 3 & 4 FOR SURFACE OWNERS AND LESSORS

03/01/201

2.2

99

topo

map

9,052

feet

west

99

Longitude: Longitude:

80

50 00

....IIIIIIII.

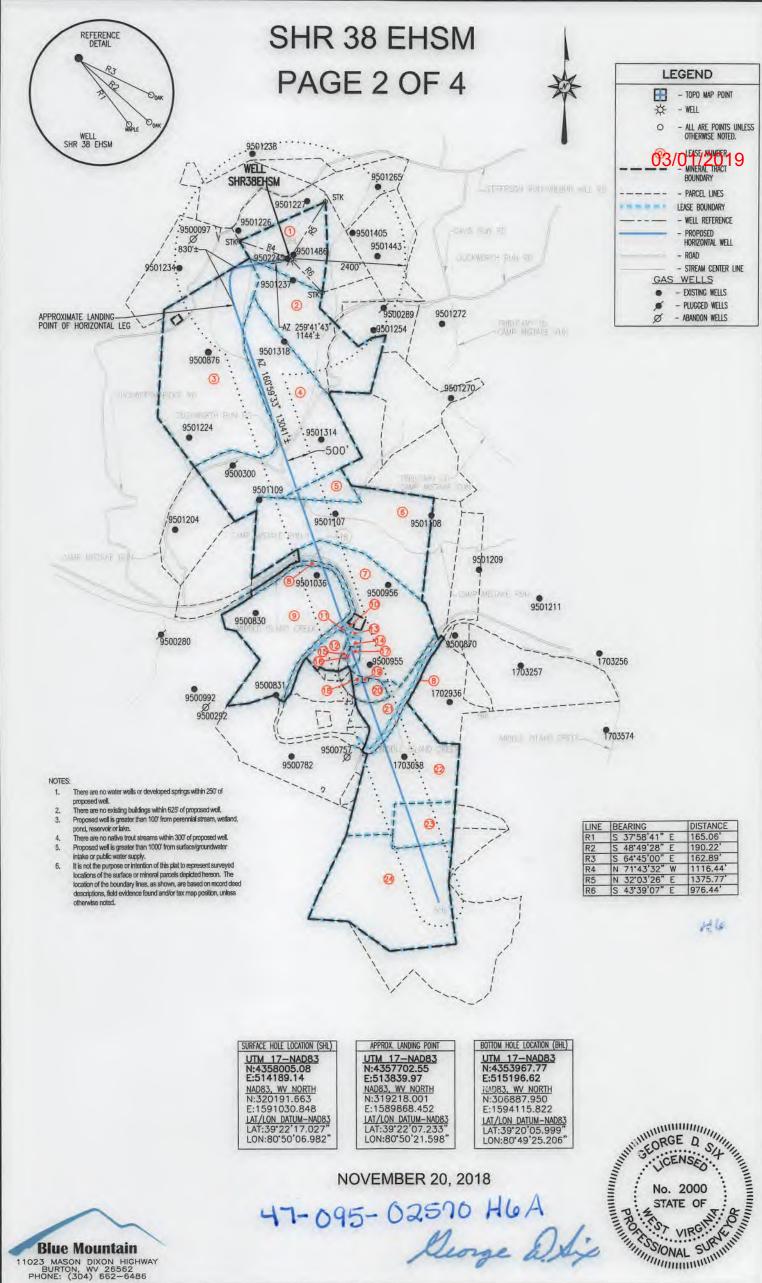
SURFACE HOLE LOCATION (SHL) UTM 17-NAD83 N:4358005.08 E:514189.14 NAD83, WV NORTH N:320191.663 E:1591030.848 LAT/LON DATUM-NAD83 LAT:39\*22\*17.027" LON:80\*50'06.982"

APPROX. LANDING POINT UTM 17-NAD83 N:4357702.55 E:513839.97 NAD83, WV NORTH N:319218.001 N:319218.001 E:1589868.452 LAT/LON\_DATUM—NAD83 LAT:39\*22\*07.233\* LON:80\*50'21.598\*

BOTTOM HOLE LOCATION (BHL) UTM 17-NAD83 N:4353967.77 E:515196.62 NAD83, W NORTH N:306887.950 E:1594115.822 LAT/LON DATUM-NAD83 LAT:39'20'05.999" LON:80'49'25.206"

Blue Mountain BURTON, WV 26562

PHONE: (304) 662-6486			111111111111111111111111111111111111111
FILE#: SHR 38 EHSM	PLAT IS CORRECT TO	SIGNED, HEREBY CERTIFY THAT THIS THE BEST OF MY KNOWLEDGE AND	LICENSES THE
DRAWING #: SHR 38 EHSM	BELIEF AND SHOWS A	LL THE INFORMATION REQUIRED BY	No. 2000
SCALE: 1" = 2000'	THE DEPARTMENT OF	ENVIRONMENTAL PROTECTION.	STATE OF THE
MINIMUM DEGREE OF ACCURACY: 1/2500	Signed:	SIGNED, HEREBY CERTIFY THAT THIS THE BEST OF MY KNOWLEDGE AND LL THE INFORMATION REQUIRED BY STIONS ISSUED AND PRESCRIBED BY ENVIRONMENTAL PROTECTION.	SIONAL SURVINI
PROVEN SOURCE U.S.G.S. MONUMENT THOMAS 1498.81	R.P.E.:	L.L.S.: P.S. No. 2000	PLACE SEAL HERE
(+) DENOTES LOCATION OF WELL O UNITED STATES TOPOGRAPHIC MA	The state of the s	DATE: NOVEMBER 20	
WVDEP OFFICE OF OIL & GAS	S W	OPERATOR'S WELL#:	SHR 38 EHSM
601 57TH STREET	1	API WELL #: 47	5 07 570
CHARLESTON, WV 25304	The second of th	STATE COL	UNTY PERMIT
	n Storage X	Deep Shallow	
		ELEVATION:	
COUNTY/DISTRICT: TYLER /	CENTERVILLE	QUADRANGLE: WEST UNION	I, WV 7.5'
SURFACE OWNER: JAMES E. /	ASH ET AL	ACREAGE:_	111±
OIL & GAS ROYALTY OWNER: JAMES	E. ASH ET AL	ACREAGE: _	1016.393±
DRILL X PLUG OFF CLEAN OU	CONVERT DRILL D OLD FORMATION P T & REPLUG DOTHER	DEEPER  REDRILL FRACTURE FRACTURE FRACTURE FOR FORMATION PLANGE (SPECIFY):	LE OR STIMULATE X LUG & ABANDON
TARGET FORMATION:	MARCELLUS	ESTIMATED DEPTH: TVD: 6,4	80'± TMD: 20,198'±
WELL OPERATOR CNX GAS COM Address 1000 CONSOL ENERGY DRIVE		DESIGNATED AGENT CHRIS TU Address 1 DOMINION DR.	RNER
	Zip Code 15317	City JANE LEW StateWV	Zip Code 26378



**Blue Mountain** 1023 MASON DIXON HIGHWAY BURTON, WV 26562 PHONE: (304) 662-6486

### SHR 38 EHSM PAGE 3 OF 4

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
MIKON RN BUCHLOR, WA MIKON R. BUCHLOR AND GLORA JEM BUCHLOR, 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
NILA ASH SAYLOR REVOCABLE TRUST, BY JOSEPH F. SILEK, JR.
BAILEY ANN MILLS
WILLIAM PAUL HARPER
DAVID PAUL LOCOCO SURFACE OWNER
JAMES E. ASH ET AL RICHARD H. METCALE JOHN R. ANDERS II MILLIAM PAUL HARPER
DAVID PAUL LOCOCO
MARY LYNNE SLATTERY, FKA MARY LYNNE LOCOCO MARY LYNNE SLATTERY, FKA MARY LYNNE LOCOCO
DONALD VINCENT LOCOCO
ROSE MARIE VANHEUVELN
THERESA LEE ROBERTSON
MARTHA SUE MUZIO, FKA MARTHA SUE LOCOCO
MICHELE LOCOCO BUSHMIRE, FKA MICHELLE LUCRETIA BUSHMIRE
ELIZABETH FLORENCE LOCOCO
RALPH E. PHILLIPS AND VELINDA PHILLIPS, H/W
BRC APPALACHIAN MINERALS I, LLC
BRC APPALACHIAN MINERALS I, LLC
UACOB L. DILLON. AND EDNA DILLON, H/W
CHARLES W. HENDERSON AND DOROTHY M. HENDERSON, H/W
ND CHARLES W. HENDERSON. POWER OF ATOREY FOR THE A. L DOWN HIRS 3 RONALD R. & ROWLAND & REVA D. ROWLAND
4 D. RALPH THACKER & J. MAURICE CARLISLE JR. CHARLES W. HENDERSON AND DOROTHY M. HENDERSON, H/W
AND CHARLES W. HENDERSON, POWER OF ATTORRY FOR THE A. L. DOW HERS
JOHN A. CONKLIN AND JEAN CONKLIN, H/W
GEORGE B. CONKLIN AND BETTY M. CONKLIN, H/W
BETTY L. CONKLIN
ROBERT LEE REED
LEWIS H. REED AND CAROL J. REED, H/W
KATHY PRANCER
VIRGINIA O'REAR AND RALPH O'REAR, W/H
DOEBET L. MELVIN VIRGINIA O'REAR AND RALPH O'REAR, W/H
ROBERT H, MELVIN
BETTY L, MELVIN
MARY S. LARTZ AND WILLIAM LARTZ, W/H
LILLIAN CRABILL AND WILLIAM CRABILL, W/H
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 6 STEVEN E. MALICKI JR. FRED M. DOTSON JR. KAREN DOTSON STEVEN E. MALICKI JR.

7 MARY MONNIE COLLINS

CECILIA LOUISE BOOMER AND JAMES BOOMER, W/H

WOODBERRY ROYALTY, INC.
NANCY FOUT AND JOHN FOUT, W/H

THERESA MARIE SMITH, SINGLE

JAY COLLINS AND MARY M. COLLIN, H/W

8 WEST VIRGINIA DIVISION OF NATURAL RESOURCES

BEDWIN D. MULVAY AND PATRICIA L. MULVAY

EDWIN D. MULVAY AND PATRICIA L. MULVAY

A. E. PRATT HERS, DECUIED BY PARROIA P. PRATT MOLIAN. P. PRATT

A. E. PRATT HERS, DECUIED BY MICHAED BY DARRIA D. MULDA T. PRATT

A. E. PRATT HERS, DECUIED BY MICHAED BY DARRIA D. LINKIUM

A. E. PRATT HERS, DECUIED BY MICHAED BY DARRIA D. MARGARE MICHO

A. E. PRATT HERS, DECUIED BY MICHAED BY DARRIA D. MARGARE MICHO

A. E. PRATT HERS, DECUIED BY MICHAED BOOMER, W/H

A. E. PRATT HERS, DECUIED BY MICHAED BOOMER, W/H

A. E. PRATT HERS, DECUIED BY MICHAED BOOMER, W/H

A. E. PRATT HERS, DECUIED BY MICHAED BOOMER, W/H

A. E. PRATT HERS, DECUIED BY MICHAED BOOMER, W/H

A. E. PRATT HERS, DECUIED BY MICHAED BOOMER, W/H

A. E. PRATT HERS, DECUIED BY MICHAED BOOMER, W/H

A. E. PRATT HERS, DECUIED BY MICHAED BOOMER, W/H

A. E. PRATT HERS, DECUIED BY MICHAED BOOMER, W/H

A. E. PRATT HERS, DECUIED BY MICHAED BOOMER, W/H

A. E. PRATT HERS, DECUIED BY MICHAED BOOMER, W/H

A. E. PRATT HERS, DECUIED BY MICHAED BOOMER, W/H

A. E. PRATT HERS, DECUIED BY MICHAED BOOMER, W/H

A. E. PRATT HERS, DECUIED BY MICHAED BOOMER, W/H

A. E. PRATT HERS, DECUIED BY MICHAED BOOMER, W/H

A. E. PRATT HERS, DECUIED BY MICHAED BOOMER, W/H

A. E. PRATT HERS, DECUIED BY MICHAED BOOMER, W/H

A. E. PRATT HERS, THERESA MARIE SMITH, SINGLE

JACOB MYER

CECILIA LOUISE BOOMER AND JAMES BOOMER, W/.H

WOODBERRY ROYALTY, INC.

NANCY FOUT AND JOHN FOUT, W/H

THERESA MARIE SMITH, SINGLE

L. JUANITA BAKER

CECILIA LOUISE BOOMER AND JAMES BOOMER, W/.H

WOODBERRY ROYALTY, INC.

NANCY FOUT AND JOHN FOUT, W/H

THERESA MARIE SMITH, SINLGE

PHIL KOONTZ LEONARD 14 PHIL LEONARD KOONTZ the state of the state of the

03/01/2019

SURFACE HOLE LOCATION (SHL) UTM 17-NAD83 N:4358005.08 E:514189.14 NAD83, WV NORTH N:320191.663 E:1591030.848 LAT/LON DATUM-NAD83 LAT:39\*22'17.027" LON:80\*50'06.982"

APPROX. LANDING POINT UTM 17-NAD83 N:4357702.55 E:513839.97 NAD83, W NORTH N:319218.001 E:1589868.452 LAT/LON DATUM-NAD83 LAT:39'22'07.233" LON:80'50'21.598"

BOTTOM HOLE LOCATION (BHL) UTM 17-NAD83 N:4353967.77 E:515196.62 NAD83, W NORTH N:306887.950 E:1594115.822 LAT/LON DATUM-NAD83 LAT:39'20'05.999" LON:80'49'25.206"

47-095-02570 HGA



### SHR 38 EHSM PAGE 4 OF 4

03/01/2019

	SURFACE OWNER	LESSOR	DIST-TM/PAR
15	JAMES C. WILLIAMS & PATRICIA L. WILLIAMS	CECILIA LOUISE BOOMER AND JAMES BOOMER, W/H	1-18/30
7		WOODBERRY ROYALTY, INC.	100000000000000000000000000000000000000
		NANCY FOUT AND JOHN FOUT, W/H	1
		THERESA MARIE SMITH, SINGLE	1
		PATRICIA L. WILLIAMS	
16	JACOB MYER	CECILIA LOUISE BOOMER AND JAMES BOOMER, W/H	1-18/29
17		WOODBERRY ROYALTY, INC.	1
		NANCY FOUT AND JOHN FOUT, W/H	
		THERESA MARIE SMITH, SINGLE	1
		JACOB MYER	
18	CLIFFORD A. & TOBY A. WEEKLEY	CECILIA LOUISE BOOMER AND JAMES BOOMER, W/H	1-18/23
		WOODBERRY ROYALTY, INC.	
		NANCY FOUT AND JOHN FOUT, W/H	1
		THERESA MARIE SMITH, SINGLE	1
		CLIFFORD A. WEEKLEY AND TOBY A. WEEKLEY, H/W	1
19	JAY GLENN COLLINS, ET AL	CECILIA LOUISE BOOMER AND JAMES BOOMER, W/H	1-18/22
		WOODBERRY ROYALTY, INC.	
		NANCY FOUT AND JOHN FOUT, W/H	
		THERESA MARIE SMITH, SINGLE	
		DANIEL VINCENT LANTZ	
		NINA MAE MOLNAR	
		DELVERNA JUNE MCKITRICK	
		JAY GLENN COLLINS	
		DAVID CARL LANTZ	
20	JON M. MONTGOMERY	CECILIA LOUISE BOOMER AND JAMES BOOMER, W/H	1-18/20
	Total III III III III III III III III III I	WOODBERRY ROYALTY, INC.	1 10/20
		NANCY FOUT AND JOHN FOUT, W/H	
		THERESA MARIE SMITH, SINGLE	
		JON M. MONTGOMERY	
21	EDWIN D. & PATRICIA L. MULVAY	CECILIA LOUISE BOOMER AND JAMES BOOMER, W/H	1-18/18
		WOODBERRY ROYALTY, INC.	1
		NANCY FOUT AND JOHN FOUT, W/H	1
		GLENDA L. HEDRICK	
		THERESA MARIE SMITH, SINGLE	
		EDWIN DELMER MULVAY AND PATRICIA L. MULVAY, H/W	
22	RALPH MCCUTCHAN II	CLARENCE L. HURST AND BETTY ANN	8-3/3
	CHIPPS REVOCABLE LIVING TRUST 2004		-/-
23		CLARECNE W. MUTSCHELKNAUS AND MARY F. MUTSCHELKNAUS, H/W	8-3/4.1
24	PHYLLIS MARIE STEELE (LE)	WILLIAM PAUL MCCUTCHAN AND VIRGINIA B. MCCUTCHAN, H/W	8-3/7
	, , , , , , , , , , , , , , , , , , ,	JACQUELINE L. STANDAFER AND WARREN G. STANDAFER, W/H	1
		MARYLYNN H. ROBERTS AND JOHN E. ROBERTS, W/H	
		J. W. MORTON FIELD	

SURFACE HOLE LOCATION (SHL)

UTM\_\_17—NADB.3
N:4358005.08
E:514189.14
NADB.3, WV NORTH
N:320191.663
E:1591030.848
LAT/LON\_DATUM—NADB.3
LAT:39°22'17.027"
LON:80°50'06.982"

APPROX. LANDING POINT

UTM 17—NAD83
N:4357702.55
E:513839.97
NAD83, WY NORTH
N:319218.001
E:1589868.452
LAT/LON DATUM—NAD83
LAT:39'22'07-233"
LON:80'50'21.598"

BOITOM HOLE LOCATION (BHL)

UTM 17—NAD83
N:4353967.77
E:515196.62
NAD83. W. NORTH
N:306887.950
E:1594115.822
LAT/LON DATUM—NAD83
LAT:39°20°05.999°
LON:80°49°25.206°

47-095-02570 HGA



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

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

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

Lease Name or

Number Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See attached

Office of Oil and Gas
DEC 4 2018

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

#### Attachment - Form WW-6A-1 for SHR38EHSM

<u>Tract ID</u>	Tax Map & Parcel	Title Opinion OLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
	P/O TMP 1-16-		Verna O. Ash , James E. Ash and Thelma B. Ash, Bessie Haught and Harold Warner, Ernest G. Seckman			
1	<b>/</b> 19	258998000	and O. Joanne Seckman	Drilling Appalachian Corporation	Not less than 1/8	269/571
			Raiph E. Phillips and Volinda Phillips, h/w	Drilling Appaiachian Corporation	Not less than 1/8	271/103
			Drilling Appalachian Corporation	Dominion Appalachian Development Properties, LLC	Assignment	322/190
			Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC	CNX Gas Company, LLC Noble Energy, Inc.	Merger 50% Assignment	384/191 388/286
			Noble Energy, Inc.	CNX Gas Company, LLC	50% Assignment	542/134
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
Tract (D.	<u>Tax Map &amp;</u> <u>Parcel</u> TMP 1-16-17	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
2 /	8 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	409/229
			Berdina Rose and Norman W. Rose, w/h	CNX Gas Company, LLC Noble Energy, Inc.	Not less than 1/8 Assignment	406/94 447/738
			CNX Gas Company, LLC Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
			Phillip Leonian, aka Phillip Marshall Leonian	Noble Energy, Inc.	Not less than 1/8	465/276 449/543
			Marion Ray Bachelor, aka Marion R. Bachelor and Gloria Jean Bachelor, h/w Rita G. Jarvis	Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8 Not less than 1/8	449/543 449/539
			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
			Armen Leonian, aka Armen Lanham Leonian	Noble Energy, Inc.	Not less than 1/8	465/249
			John Fulton Leenian	Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8 Not less than 1/8	458/757 465/266
			Nila Ash Saylor Revocable Trust, by Joseph F. Silek, Jr Balley 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, fika Mary Lynne Lococo	Noble Energy, Inc.	Not less than 1/6	452/702
			Donald Vincent Lococo	Noble Energy, Inc.	Not less than 1/8	453/635
			Rose Marie VanHeuvein	Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8 Not less than 1/8	526/567 471/678
			Theresa Lee Robertson Martha Sue Muzio, fike Martha Sue Lococo	Noble Energy, Inc.	Not less than 1/8	449/541
			Michelle Lococo Bushmire, fika Michelle Lucretia Bushmire	Noble Energy, Inc.	Not less than 1/8	453/523
			Elizabeth Florence Lococo	Noble Energy, Inc.	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 CNX Gas Company, LLC	Assignment Assignment	513/299 542/147
			Noble Energy, Inc. Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	549/529
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
			Raiph E. Phillips and Velinda Phillips, h/w	Noble Energy, Inc.	Not less than 1/8	492/300
			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 Appaiachian Minerals I, LLC	BRC Working Interest Company	Not less than 1/8	369/300 369/648
			BRC Appelachian Minerals I, LLC	BRC Working Interest Company Chesapeake Appaiachia, LLC	Not less than 1/8 Assignment	369/784
			BRC Working Interest Company 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 and CNX Gas Company, LLC	Assignment	518/207
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
Tract ID	Tax Map & Parcel P/O TMP 1-16-	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
3 4	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	265/107 263/635
			Anvil Oil Co., Inc.	Excel Energy, Inc. Anvil Oil Co., Inc.	Assignment Assignment	269/143
			Excel Energy, Inc. Anvil Oil Co., Inc.	Anvil Oil & Gas Company, Inc.	Name Change	wysos
			Justin L. Henderson, Individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil	, , , , , , , , , , , , , , , , , , ,	•	
			Oil and Gas Company, Inc.	Dominion Appalachian Development, Inc.	Assignment	323/383
			Dominion Appalachian Development Properties, L.L.C.	CNX Gas Company, LLC	Merger	384/191 388/286
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment Assignment	388/286 550/273
			Noble Energy, Inc.	CNX Gas Company, LLC	-	
			Columbia Gas Transmission Corporation	Columbia Natural Resources, Inc.	Assignment Confirmatory Deed	286/603 349/536
			Columbia Natural Resources, Inc. Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC Statolihydro USA Onshore Properties, Inc.	Partial Assignment	363/391
			Statellhydro USA Onshore Properties, Inc.	Statoil 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 Assignment	544/242 544/291
			Statoil USA Onshore Properties, Inc. Antero Exchange Properties, LLC	Antero Exchange Properties, LLC Antero Resources Corporation	Merger	552/315
			Antero Resources Corporation	CNX Gas Company LLC	Affidavit of Agreement	624/332

RECEIVED
Office of Oil and Gas

DEC 4 2018

<u>Tract ID</u>	Tax Map & Parcel	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
	_	-	Charles W. Henderson and Dorothy M. Henderson, h/w and Charles			
4,5	TMP 1-16-26	259000000	W. Henderson, Power of Attorney for the A. i. Doak Heirs	J&J Enterprises	Not less than 1/8	259/588
			John A. Conkiln and Jean Conkiln, h/w	18J Enterprises	Not less than 1/8	259/586
			George B. Conklin and Betty M. Conklin, h.w Betty L. Conklin	J&J Enterprises J&J Enterprises	Not less than 1/8 Not less than 1/8	259/584 259/582
			J & J Enterprises	Eastern American Energy Corporation	Assignment	282/296
			Eastern American Energy Corporation	Energy Corporation of America	Assignment	371/528
			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	wvsos
						425/701
			Antero Resources Corporation	CNX Gas Company, LLC and Noble Energy, Inc	Assignment	427/564
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
			Robert Lee Read	Eastern American Energy Corporation	Not less than 1/8	282/87
			Lewis H. Reed and Carol J. Reed, h/w	Eastern American Energy Corporation	Not less than 1/8	282/103
			Kathy Pranger	Eastern American Energy Corporation	Not less than 1/8	282/91
			Virginia O'Rear and Raiph O'Rear, w/h	Eastern American Energy Corporation	Not less than 1/8	282/67
			Robert H. Meivin	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	Eastern American Energy Corporation	Not less than 1/8	282/83
			Lillian Crabili and William Crabili, w/h	Eastern American Energy Corporation	Not less than 1/8	282/95
			Meissa 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. Melvin	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	282/99 371/528
			Eastern American Energy Corporation Energy Corporation of America	Energy Corporation of America	Assignment Assignment	398/416
			Energy Corporation of America	Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation	Assignment	420/316
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	wvsos
			All and the second seco	Anticle Header and Parlament		425/701
			Antero Resources Corporation	CNX Gas Company, LLC and Noble Energy, Inc	Assignment	427/564
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
Tract ID	Tax Map & Parcel	Title Opinion QLS	Grantor, Lessor, etc.	Granteo, Lessee, etc	Royalty	Book/Page
	MP 1-18-1 & 1-		Paul W. Hylbert and Charlotte J. Hylbert, h/w	KEPCO, INC.		
6 🔻	18-1.1	258995000			Not less than 1/8	242/513
			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	313/145 342/160
			EnerVest East Limited Partnership	The Houston Exploration Company	Assignment	344/158
			The Houston Exploration Company Seneca-Upshur Petroleum, Inc.	Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC	Assignment Assignment	381/540
			Seneca-Upshur Petroleum, LLC	Antero Resources Appalachian Corporation	Assignment	402/132
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	wvsos
			Auto income of the position	Thick head to so portain		425/701
			Antero Resources Corporation	Noble Energy, Inc and CNX Gas Company, LLC	Assignment	427/564
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
			Noble Energy, Inc.	····· · · · · · · · · · · · · · · ·	•	
Tract ID.	Tax Map &	Title Opinion QLS				Book/Page
Tract ID	Parcel	£	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	
Tract ID			Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h	Grantee, Lessee, etc Noble Energy, inc.	Royalty Not less than 1/8	480/823
Tract ID	Parcel	£	Grantor, Lessor, etc Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc.	Grantee, Lessee, etc  Noble Energy, Inc.  Noble Energy, Inc.	Royalty Not less than 1/8 Not less than 1/8	480/823 482/760
Tract ID	Parcel	£	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, Inc.  Nancy Fout and John Fout, w/h	Grantee, Lessep. etc  Noble Energy, Inc.  Noble Energy, Inc.  Noble Energy, Inc.	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8	480/823 482/760 492/296
Tract IP	Parcel	£	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, Inc.  Nancy Fout and John Fout, w/h  Theresa Marie Smith, single	Grantee, Lessee, etc  Noble Energy, inc.  Noble Energy, inc.  Noble Energy, inc.	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8	480/823 482/760 492/296 480/831
Tract ID.	Parcel	£	Grentor, Lessor, etc Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Marie Smith, single Noble Energy, inc.	Grantee, Lessee, etc  Noble Energy, inc.  Noble Energy, inc.  Noble Energy, inc.	Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment	480/823 482/760 492/296
Tract ID 7	Parcel	£	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc.  Nancy Fout and John Fout, w/h Theresa Marie Smith, single Noble Energy, Inc.  Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8	480/823 482/760 492/296 480/831 513/299
Tract ID 7	Parcel	£	Grentor, Lessor, etc Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Marie Smith, single Noble Energy, inc.	Noble Energy, Inc. CNX Gas Company, LLC	Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Assignment	480/823 482/760 492/296 480/831 513/299 521/80
Tract IP.	Parcel	£	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, Inc.  Noble Energy, inc.	Noble Energy, Inc. CNX Gas Company, LLC	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment  Assignment  Assignment	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273
Treact ID.	Parcel	£	Grentor, Lessor, etc Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, inc. Nancy Fout and John Fout, w/h Theress Marie Smith, inc. Noble Energy, inc. Jay Collins and Mary M. Coilins, h/w	Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company,	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  Not less than 1/8	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273
Treat ID.	Parcel	£	Grantor, Lessor, etc Ceclia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Marie Smith, single Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Jay Collins and Mary M. Coillns, h/w Exon Corporation	Noble Energy, Inc. CNX Gas Company, LC Exon Corporation Exon Mobile Corporation	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  Not less than 1/8  Merger	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 WVSOS
Trest ID. 7	Parcel	£	Grantor, Lessor, etc Cocilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Noble Energy, Inc. Lay Collins and Mary M. Collins, h/w Excen Morporation Excen Morporation	Mobile Energy, Inc. Nobile Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Exten Corporation Exten Mobile Energy, Inc.  DEC 4 2018	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  Mot less than 1/8  Merger  Assignment	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 WVSOS 496/126
Treet IP.	Parcel	£	Grantor, Lessor, etc Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, inc. Nancy Fout and John Fout, w/h Theress Marie Smith, single Noble Energy, inc. Noble Energy, inc. Noble Energy, inc. Noble Energy, inc. Jay Collins and Mary M. Collins, h/w Exxen Corporation Exxen Mobile Corporation Exxen Mobile Corporation Exxen Mobile Corporation Exxen Mobile Corporation	Moble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LL	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 WVSOS 496/126 515/278
Treet IP.	Parcel	£	Grantor, Lessor, etc  Ceclia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Marie Smith, single Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Jay Collins and Mary M. Coillins, h/w Excon Corporation Excon Mobile Corporation XTO Energy Inc. Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LC Exon Corporation Exon Mobile Corporation XTO Energy Inc. Noble Energy, Inc. CNX Gas Company, LC CNX Gas Company, LC Exon Corporation Exon Mobile Corporation CNX Gas Company, LC Exon Corporation Exon Mobile Corporation Exon	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 W/SOS 496/126 515/278
, ,	Parcel TMP 1-18-15	ff. 259010000	Grentor, Lessor, etc Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, inc. Nancy Fout and John Fout, w/h Theress Marie Smith, single Noble Energy, inc. Noble Energy, inc. Noble Energy, inc. Noble Energy, inc. Jay Collins and Mary M. Coillns, h/w Excen Corporation Excon Mobile Corporation XTO Energy Inc. Noble Energy, inc. Noble Energy, inc.	Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Extension Mobile Corporation Extens Mobile Corporation Extension Mobile Corporation Extens Mobile Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC Environmental Protection	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 WVSOS 496/26 515/278 542/147 550/273
Tract IP,	Parsel TMP 1-18-15	g 25901,0000	Grantor, Lessor, etc  Ceclia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Marie Smith, single Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Jay Collins and Mary M. Coillins, h/w Excon Corporation Excon Mobile Corporation XTO Energy Inc. Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LC Exon Corporation Exon Mobile Corporation XTO Energy Inc. Noble Energy, Inc. CNX Gas Company, LC CNX Gas Company, LC Exon Corporation Exon Mobile Corporation CNX Gas Company, LC Exon Corporation Exon Mobile Corporation Exon	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 W/SOS 496/126 515/278
, ,	Parcel TMP 1-18-15	ff. 259010000	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theress Marie Smith, single Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Jay Collins and Mary M. Collins, h/w Excon Corporation Excon Mobile Corporation XTO Energy Inc. Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC Exon Mobile Corporation XTO Energy Inc. CNX Gas Company, LLC	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  Assignment  Assignment  Not less than 1/8  Merger  Assignment  Assignment  Assignment  Assignment  Assignment  Assignment  Royalty  Not less than 1/8	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 W/SOS 496/126 515/278 542/147 550/273  Book/Page SS3/295
, ,	Parcel TMP 1-18-15  Tex Map & Parcel N/A	# 259010000 Title Opinion QIS # N/A	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, inc.  Nancy Fout and John Fout, w/h  Theress Marie Smith, single  Noble Energy, inc.  Noble Energy, inc.  Noble Energy, inc.  Jay Collins and Mary M. Collins, h/w  Exon Corporation  Exon Mobile Corporation  Exon Mobile Corporation  XTO Energy inc.  Noble Energy, inc.  Noble Energy, inc.	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Extension Mobile Corporation Exton Mobile	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 WVSOS 496/126 515/278 542/147 550/273
, ,	Parcel TMP 1-18-15  Tex Map & Parcel N/A  Tex Map & Recel N/A	E 25901,0000  Title Opinion QIS. E N/A  Title Opinion QIS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, inc.  Nancy Fout and John Fout, w/h  Theress Marie Smith, single  Noble Energy, inc.  Noble Energy, inc.  Noble Energy, inc.  Jay Collins and Mary M. Collins, h/w  Exon Corporation  Exon Mobile Corporation  XTO Energy inc.  Noble Energy, inc.  Noble Energy, inc.  Grantor, Lessor, etc  West Vinginia Division of Natural Resources  Antero Resources Corporation	Noble Energy, Inc. CNX Gas Company, LLC Exon Mobile Corporation XTO Energy Inc. CNX Gas Company, LLC	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  Assignment  Assignment  Not less than 1/8  Merger  Assignment  Assignment  Assignment  Assignment  Assignment  Assignment  Royalty  Not less than 1/8	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 W/SOS 496/126 515/278 542/147 550/273  Book/Page SS3/295
, ,	Parcel TMP 1-18-15  Tex Map 8. Parcel N/A  Tex Map 8. Parcel	# 259010000  Title Opinion QLS # N/A  Title Opinion QLS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, inc.  Nancy Fout and John Fout, w/h  Theress Marie Smith, single  Noble Energy, inc.  Noble Energy, inc.  Noble Energy, inc.  Jay Collins and Mary M. Coilins, h/w  Exom Corporation  Exon Mobile Corporation  XTO Energy inc.  Noble Energy, inc.  Seantor, Lessor, etc  West Virginia Division of Natural Resources  Antero Resources Corporation	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Enter Corporation Exten Mobile Corporation Exto Mobile Corporation Exto Mobile Corporation Exto Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Grantee, Lossee, etc  Grantee, Lossee, etc	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 WVSOS 496/126 515/278 542/147 550/273  Book/Page 553/295 674/332
, ,	Parcel TMP 1-18-15  Tex Map & Parcel N/A  Tex Map & Recel N/A	E 25901,0000  Title Opinion QIS. E N/A  Title Opinion QIS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theress Marie Smith, single Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc.  Jay Collins and Mary M. Coillns, h/w Exon Corporation Exon Mobile Corporation XTO Energy Inc. Noble Energy, Inc. Noble Energy, Inc.  Sgrantor, Lessor, etc  West Vinginia Division of Natural Resources Antero Resources Corporation  Grantor, Lessor, etc  Edwin Delmer Mulvay and Patricia Vaughn Mulvay	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC Extent Corporation Extent Mobile Corporation XTO Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc  Petroleum Services, Inc.  Grantee, Lessee, etc  Petroleum Services, Inc.	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment  Royalty  Not less than 1/8  Affidavit of Agreement	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 W/SOS 496/126 515/278 542/147 550/273  Book/Page 553/295 624/332  Book/Page A 221/611
, ,	Parcel TMP 1-18-15  Tex Map 8. Parcel N/A  Tex Map 8. Parcel	# 259010000  Title Opinion QLS # N/A  Title Opinion QLS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, inc.  Nancy Fout and John Sout, w/h  Theresa Marie Smith, single  Noble Energy, inc.  Noble Energy, inc.  Noble Energy, inc.  Jay Collins and Mary M. Collins, h/w  Excon Corporation  Excon Mobile Corporation  XTO Energy inc.  Noble Energy, inc.  Noble Energy, inc.  Sgrantor, Lessor, etc  West Virginia Division of Natural Resources  Antero Resources Corporation  Grantor, Lessor, etc  Edwin Delmer Mulvay and Patricia Vaughn Mulvay  A. E. Pratt Heirs, executed by Jean Cole and Robert L. Cole	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Extension Mobile Corporation CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Grantee, Lossee, etc  Petroleum Services, Inc.  Grantee, Lossee, etc	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  Not less than 1/8  Merger  Assignment	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 WVSOS 496/126 515/278 542/147 550/273  Book/Page 553/295 674/332  Book/Page A 221/611 2. 224/424
, ,	Parcel TMP 1-18-15  Tex Map 8. Parcel N/A  Tex Map 8. Parcel	# 259010000  Title Opinion QLS # N/A  Title Opinion QLS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, Inc.  Nancy Fout and John Fout, w/h  Theress Marie Smith, single  Noble Energy, Inc.  Noble Energy, Inc.  Noble Energy, Inc.  Jay Collins and Mary M. Collins, h/w  Exon Corporation  Exon Mobile Corporation  Exon Mobile Corporation  Exon Mobile Corporation  Noble Energy, Inc.  Noble Energy, Inc.  Noble Energy, Inc.  Signator, Lessor, etc  West Virginia Division of Natural Resources  Antero Resources Corporation  Grantor, Lessor, etc  Edwin Delmer Mulvay and Patricia Vaughn Mulvay  A. E. Pratt Heirs, executed by Patricia P. Pratt and Allen T. Pratt	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Exon Corporation Exon Mobile Corporation XTO Energy Inc. CNX Gas Company, LLC Grantee. Lessee. etc  Petroleum Services, Inc.	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  Assignment  Not less than 1/8  Merger  Assignment  Assignment  Assignment  Assignment  Assignment  Assignment  Assignment  Assignment  Assignment  Royalty  Not less than 1/8  Affidavit of Agreement  Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 W/SOS 496/126 515/278 542/147 550/273  Book/Page 553/295 624/332  Book/Page A 221/611
, ,	Parcel TMP 1-18-15  Tex Map 8. Parcel N/A  Tex Map 8. Parcel	# 259010000  Title Opinion QLS # N/A  Title Opinion QLS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, inc.  Nancy Fout and John Sout, w/h  Theresa Marie Smith, single  Noble Energy, inc.  Noble Energy, inc.  Noble Energy, inc.  Jay Collins and Mary M. Collins, h/w  Excon Corporation  Excon Mobile Corporation  XTO Energy inc.  Noble Energy, inc.  Noble Energy, inc.  Sgrantor, Lessor, etc  West Virginia Division of Natural Resources  Antero Resources Corporation  Grantor, Lessor, etc  Edwin Delmer Mulvay and Patricia Vaughn Mulvay  A. E. Pratt Heirs, executed by Jean Cole and Robert L. Cole	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Extension Mobile Corporation CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Grantee, Lossee, etc  Petroleum Services, Inc.  Grantee, Lossee, etc	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  Not less than 1/8  Merger  Assignment	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 WV505 496/126 515/278 542/147 550/273  Book/Pase 523/295 624/332  Book/Pase A 221/611 2. 224/424 3. 224/428
, ,	Parcel TMP 1-18-15  Tex Map 8. Parcel N/A  Tex Map 8. Parcel	# 259010000  Title Opinion QLS # N/A  Title Opinion QLS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theress Marie Smith, single Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Jay Collins and Mary M. Coillns, h/w Exon Corporation Exon Mobile Corporation Exon Mobile Corporation XTO Energy Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc.  Grantor, Lessor, etc  West Vinginia Division of Natural Resources Antero Resources Corporation  Grantor, Lessor, etc  Edwin Delmer Mulvay and Patricia Vaughn Mulvay A. E. Pratt Heirs, executed by Jean Cole and Robert L. Cole A. E. Pratt Heirs, executed by Darryl A. Pratt	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Exon Mobile Corporation XTO Energy Inc. Noble Energy, Inc. CNX Gas Company, LLC Exon Mobile Corporation XTO Energy Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Grantee, Lessee, etc  Petroleum Services, Inc.	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  Not less than 1/8  Merger  Assignment  Assignment  Assignment  Assignment  Assignment  Assignment  Assignment  Assignment  Assignment  Royalty  Not less than 1/8	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 WVSOS 496/126 515/278 542/147 550/273  Book/Page 523/295 624/332  Book/Page 4 221/611 2. 224/424 3. 224/424 4. 224/424
, ,	Parcel TMP 1-18-15  Tex Map 8. Parcel N/A  Tex Map 8. Parcel	# 259010000  Title Opinion QLS # N/A  Title Opinion QLS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, Inc.  Nancy Fout and John Fout, w/h  Theress Marie Smith, single  Noble Energy, Inc.  Noble Energy, Inc.  Noble Energy, Inc.  Jay Collins and Mary M. Coilins, h/w  Exom Corporation  Exom Mobile Corporation  Exom Mobile Corporation  XTO Energy inc.  Noble Energy, Inc.  Srantor, Lessor, etc  West Virginia Division of Natural Resources  Antero Resources Corporation  Grantor, Lessor, etc  Edwin Delmer Mulvay and Patricia Vaughn Mulvay  A. E. Pratt Heirs, executed by Jean Cole and Robert L. Cole  A. E. Pratt Heirs, executed by Darryl A. Pratt  A. E. Pratt Heirs, executed by Darryl A. Pratt  A. E. Pratt Heirs, executed by Darryl A. Pratt  A. E. Pratt Heirs, executed by Darryl A. Pratt  A. E. Pratt Heirs, executed by Darryl A. Pratt  A. E. Pratt Heirs, executed by Darryl A. Pratt  A. E. Pratt Heirs, executed by Darryl A. Pratt  A. E. Pratt Heirs, executed by Darryl A. Pratt  A. E. Pratt Heirs, executed by Darryl A. Pratt  A. E. Pratt Heirs, executed by Darryl A. Pratt  A. E. Pratt Heirs, executed by Darryl A. Pratt  A. E. Pratt Heirs, executed by Darryl A. Pratt  A. E. Pratt Heirs, executed by Darryl A. Pratt  A. E. Pratt Heirs, executed by Darryl A. Pratt  A. E. Pratt Heirs, executed by Darryl A. Pratt  A. E. Pratt Heirs, executed by Darryl A. Pratt  A. E. Pratt Heirs, executed by Darryl A. Pratt	Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, stc  Petroleum Services, Inc.	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment  Assig	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 WVSOS 496/126 515/278 542/147 550/273  Book/Pare 552/295 624/532  Book/Pare 4 221/471 2 224/424 3 224/424 6 224/420 6 224/424 7 224/427
, ,	Parcel TMP 1-18-15  Tex Map 8. Parcel N/A  Tex Map 8. Parcel	# 259010000  Title Opinion QLS # N/A  Title Opinion QLS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, Inc.  Nancy Fout and John Fout, w/h  Theress Marie Smith, single  Noble Energy, Inc.  Noble Energy, Inc.  Noble Energy, Inc.  Jay Collins and Mary M. Collins, h/w  Exon Corporation  Exon Mobile Corporation  Exon Mobile Corporation  XTO Energy Inc.  Noble Energy, Inc.  Noble Energy, Inc.  Strantor, Lessor, etc  West Virginia Division of Natural Resources  Antero Resources Corporation  Strantor, Lessor, etc  West Virginia Division of Natural Resources  Antero Resources Corporation  Strantor, Lessor, etc  West Virginia Division of Natural Resources  Antero Resources Corporation  A. E. Pratt Heirs, executed by Patrida P. Pratt and Allen T. Pratt  A. E. Pratt Heirs, executed by Darryf A. Pratt  A. E. Pratt Heirs, executed by Darryf A. Pratt  A. E. Pratt Heirs, executed by Richard F. Meed and Margaret Mead  A. E. Pratt Heirs, executed by Janet Tinkham Blanche B. Pratt  A. E. Pratt Heirs, executed by Janet Tinkham and Elvin I. Tinkham  Blanche B. Pratt	Noble Energy, Inc. CNX Gas Company, LLC Exon Corporation Exon Mobile Corporation XTO Energy Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Grantee. Lessee. etc  Petroleum Services, Inc.	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment  Assig	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 WV505 496/126 515/278 542/147 550/273  Book/Pase 421/611 2. 224/428 4. 224/470 8. 224/460 6. 224/428 7. 224/428 7. 224/828
, ,	Parcel TMP 1-18-15  Tex Map 8. Parcel N/A  Tex Map 8. Parcel	# 259010000  Title Opinion QLS # N/A  Title Opinion QLS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theress Marie Smith, single Noble Energy, Inc.  Jay Collins and Mary M. Coillns, h/w Exon Corporation Exon Mobile Corporation Exon Mobile Corporation Exon Mobile Corporation Exon Mobile Energy, Inc. Noble Energy, Inc. Noble Energy, Inc.  Noble Energy, Inc.  Grantor, Lessor, etc  West Virginia Division of Natural Resources Antero Resources Corporation  Grantor, Lessor, etc  Edwin Delmer Mulvay and Patricia Vaughn Mulvay A. E. Pratt Heirs, executed by Joan Cole and Robert L. Cole A. E. Pratt Heirs, executed by Parryl A. Pratt A. E. Pratt Heirs, executed by Robert F. Fratt and Glenna Z. Pratt A. E. Pratt Heirs, executed by Robert R. Pratt and Glenna Z. Pratt A. E. Pratt Heirs, executed by Robert R. Pratt and Glenna Z. Pratt A. E. Pratt Heirs, executed by Jarryl A. Pratt A. E. Pratt Heirs, executed by Jarryl A. Pratt A. E. Pratt Heirs, executed by Jarryl A. Pratt A. E. Pratt Heirs, executed by Jarryl A. Pratt A. E. Pratt Heirs, executed by Jarryl Tinkham Blanche B. Pratt A. E. Pratt Heirs, executed by Jarryl Tinkham Blanche B. Pratt A. E. Pratt Heirs, executed by Jarryl Tinkham Blanche B. Pratt A. E. Pratt Heirs, executed by Konneth E. Pratt and Laura L. Pratt	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Exon Mobile Corporation XTO Energy Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Granteo, Lessee, etc  Petroleum Services, Inc.	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment  Assig	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 WVSOS 496/126 515/278 542/147 550/273  800k/Page 523/295 624/332  800k/Page A 221/611 2. 224/424 3. 224/426 4. 224/470 B 224/406 6. 224/426 7. 224/426 8. 224/426
, ,	Parcel TMP 1-18-15  Tex Map 8. Parcel N/A  Tex Map 8. Parcel	# 259010000  Title Opinion QLS # N/A  Title Opinion QLS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h  Theress Marie Smith, single Nobie Energy, Inc. Nobie Energy, Inc. Nobie Energy, Inc. Nobie Energy, Inc.  Jay Collins and Mary M. Collins, h/w  Exon Corporation  Exon Mobile Corporation  XTO Energy inc. Nobie Energy, Inc.  Nobie Energy, Inc.  Srantor, Lessor, etc  West Virginia Division of Natural Resources Antero Resources Corporation  Synthematical State of State	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Encon Corporation Exon Mobile Corporation Exon Mobile Corporation EXOR Mobile Corporation EXOR Mobile Corporation EXOR Mobile Corporation CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Grantee, Lessee, etc  Grantee, Lessee, etc  Petroleum Services, Inc.	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment  Assig	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 WVSOS 496/126 515/278 542/147 550/273  Book/Page A 221/47 3. 224/424 4. 224/470 8. 224/424 7. 224/450 6. 224/424 7. 224/450 8. 224/426 9. 224/426
, ,	Parcel TMP 1-18-15  Tex Map 8. Parcel N/A  Tex Map 8. Parcel	# 259010000  Title Opinion QLS # N/A  Title Opinion QLS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, Inc.  Nancy Fout and John Fout, w/h  Theress Marie Smith, single  Noble Energy, Inc.  Noble Energy, Inc.  Noble Energy, Inc.  Noble Energy, Inc.  Jay Collins and Mary M. Collins, h/w  Exxon Corporation  Exxon Mobile Corporation  XTO Energy Inc.  Noble Energy, Inc.  Noble Energy, Inc.  Noble Energy, Inc.  Noble Energy, Inc.  Sgrantor, Lessor, etc  West Virginia Division of Natural Resources  Antero Resources Corporation  Sgrantor, Lessor, etc  Edwin Delmer Mulvay and Patricia Vaughn Mulvay  A. E. Pratt Heirs, executed by Jean Cole and Robert L. Cola  A. E. Pratt Heirs, executed by Patricia P. Pratt and Allen T. Pratt  A. E. Pratt Heirs, executed by Narry A. Pratt  A. E. Pratt Heirs, executed by Richard F. Meed and Margaret Mada  A. E. Pratt Heirs, executed by Richard F. Meed and Margaret Mada  A. E. Pratt Heirs, executed by Richard F. Meed and Margaret Mada  A. E. Pratt Heirs, executed by Richard F. Meed and Margaret Mada  A. E. Pratt Heirs, executed by Nanneth E. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Nanneth E. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Mancolin E. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Mancolin E. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Domaid E. Borer and Mary Jane Borer	Noble Energy, Inc. CNX Gas Company, LLC Exxon Mobile Corporation Exxon Mobile Corporation EXXON Mobile Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC  Grantee Lessee, stc  Petroleum Services, Inc.	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 W/SOS 496/126 515/278 542/147 550/273  Book/Page SS3/295 624/332  Book/Page A 221/611 2. 224/424 3. 224/426 5. 224/428 7. 224/428 9. 224/426 9. 224/426
, ,	Parcel TMP 1-18-15  Tex Map 8. Parcel N/A  Tex Map 8. Parcel	# 259010000  Title Opinion QLS # N/A  Title Opinion QLS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h  Theress Marie Smith, single Nobie Energy, Inc. Nobie Energy, Inc. Nobie Energy, Inc. Nobie Energy, Inc.  Jay Collins and Mary M. Collins, h/w  Exon Corporation  Exon Mobile Corporation  XTO Energy inc. Nobie Energy, Inc.  Nobie Energy, Inc.  Srantor, Lessor, etc  West Virginia Division of Natural Resources Antero Resources Corporation  Synthematical State of State	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Encon Corporation Exon Mobile Corporation Exon Mobile Corporation EXOR Mobile Corporation EXOR Mobile Corporation EXOR Mobile Corporation CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Grantee, Lessee, etc  Grantee, Lessee, etc  Petroleum Services, Inc.	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment  Assig	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 WV505 496/126 515/278 542/147 550/273  Book/Pase 421/611 2. 224/428 4. 224/450 8. 224/428 7. 224/428 9. 224/446 10. 224/446 225/159 K 225/554
, ,	Parcel TMP 1-18-15  Tex Map 8. Parcel N/A  Tex Map 8. Parcel	# 259010000  Title Opinion QLS # N/A  Title Opinion QLS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, Inc.  Nancy Fout and John Sout, w/h  Theresa Marle Smith, single  Noble Energy, Inc.  Noble Energy, Inc.  Noble Energy, Inc.  Noble Energy, Inc.  Jay Collins and Mary M. Collins, h/w  Exon Corporation  Exon Mobile Corporation  XTO Energy Inc.  Noble Energy, Inc.  Sgrantor, Lessor, etc  West Virginia Division of Natural Resources  Antero Resources Corporation  Sgrantor, Lessor, etc  Edwin Delmer Mulvay and Patricia Vaughn Mulvay  A. E. Pratt Heirs, executed by Jean Cole and Robert L. Cole  A. E. Pratt Heirs, executed by Patricia P. Pratt and Allen T. Pratt  A. E. Pratt Heirs, executed by Robert F. Pratt and Glenna Z. Pratt  A. E. Pratt Heirs, executed by Robert R. Meed and Margaret Mead  A. E. Pratt Heirs, executed by Allerard F. Meed and Margaret Mead  A. E. Pratt Heirs, executed by Mohert E. Pratt and Laurs L. Pratt  A. E. Pratt Heirs, executed by Mancolin E. Greenwood and Dorottry Ann Greenwood  A. E. Pratt Heirs, executed by Malcolin E. Greenwood and Dorottry Ann Greenwood  A. E. Pratt Heirs, executed by Malcolin E. Greenwood and Dorottry Ann Greenwood  A. E. Pratt Heirs, executed by Malcolin E. Greenwood and Dorottry Ann Greenwood  A. E. Pratt Heirs, executed by Donald E. Borer and Mary Jane Borer  Catherine J. Pratt  A. E. Pratt Heirs, executed by Theresa C. Pratt	Noble Energy, Inc. CNX Gas Company, LC Exten Corporation Exten Mobile Corporation XTO Energy Inc. CNX Gas Company, LC  Grantee, Lessee, stc  Antero Resources Corporation CNX Gas Company, LLC  Grantee, Lessee, stc  Petroleum Services, Inc.	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 W/SOS 496/126 515/278 542/347 550/273  Book/Page 553/295 674/332  Book/Page A 221/611 2. 224/424 3. 224/426 4. 224/427 524/485 7. 224/486 10. 224/446 10. 224/446 225/159 K 225/564
, ,	Parcel TMP 1-18-15  Tex Map 8. Parcel N/A  Tex Map 8. Parcel	E 259010000  Title Opinion QLS  R/A  Title Opinion QLS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h  Theress Marie Smith, single Nobie Energy, Inc. Nobie Energy, Inc. Nobie Energy, Inc. Nobie Energy, Inc.  Jay Collins and Mary M. Collins, h/w  Exon Corporation  Exon Mobile Corporation  XTO Energy Inc.  Nobie Energy, Inc.  Nobie Energy, Inc.  Sgrantor, Lessor, etc  West Virginia Division of Natural Resources  Antero Resources Corporation  Sgrantor, Lessor, etc  West Virginia Division of Natural Resources  Antero Resources Corporation  Sgrantor, Lessor, etc  Edwin Delmer Mulvay and Patricia Vaughn Mulvay  A. E. Pratt Heirs, executed by Jean Cole and Robert L. Cole  A. E. Pratt Heirs, executed by Patrids P. Pratt and Allen T. Pratt  A. E. Pratt Heirs, executed by Robert F. Pratt and Glenna Z. Pratt  A. E. Pratt Heirs, executed by Richard F. Meed and Margaret Mead  A. E. Pratt Heirs, executed by Kenneth E. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Kenneth E. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Monneth E. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Monneth E. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Monneth E. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Monneth E. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Donald E. Borer and Mary Jane Borer  Catherine J. Pratt  A. E. Pratt Heirs, executed by Donald E. Borer and Mary Jane Borer  Catherine J. Pratt  A. E. Pratt Heirs, executed by Theresa C. Pratt  Petroleum Services, Inc.	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Encon Corporation Exon Mobile Corporation Exon Mobile Corporation EXOR Mobile Corporation EXOR Mobile Corporation EXOR Mobile Corporation CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Grantee, Lossee, etc  Grantee, Lossee, etc  Grantee, Lossee, etc  Petroleum Services, Inc.	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment  Royalty  Not less than 1/8  Assignment	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 WNSOS 496/126 515/278 542/147 550/273  Book/Page S53/295 624/332  Book/Page A 221/611 2. 224/424 3. 224/427 B 224/420 6. 224/427 C 224/424 7. 224/456 10. 224/446 225/559 K 225/564 224/472 K 225/564
, ,	Parcel TMP 1-18-15  Tex Map 8. Parcel N/A  Tex Map 8. Parcel	E 259010000  Title Opinion QLS  R/A  Title Opinion QLS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, Inc.  Nancy Fout and John Fout, w/h  Theress Marie Smith, single  Noble Energy, Inc.  Noble Energy, Inc.  Noble Energy, Inc.  Noble Energy, Inc.  Jay Collins and Mary M. Collins, h/w  Exxon Corporation  Exxon Mobile Corporation  Exxon Mobile Corporation  Exxon Mobile Corporation  Exxon Mobile Energy, Inc.  Noble Energy, Inc.  Noble Energy, Inc.  Noble Energy, Inc.  Strantor, Lessor, etc  West Virginia Division of Natural Resources  Antero Resources Corporation  Strantor, Lessor, etc  Edwin Delmer Mulvay and Patricia Vaughn Mulvay  A. E. Pratt Heirs, executed by Joan Cole and Robert L. Cole  A. E. Pratt Heirs, executed by Patricia P. Pratt and Allen T. Pratt  A. E. Pratt Heirs, executed by Darryl A. Pratt  A. E. Pratt Heirs, executed by Nobert F. Pratt and Glenna Z. Pratt  A. E. Pratt Heirs, executed by Robert I. Thikham Blanche B. Pratt  A. E. Pratt Heirs, executed by Mancol Inthoham and Elvin I. Tinkham  Blanche B. Pratt  A. E. Pratt Heirs, executed by Monethe P. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Monethe P. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Monethe P. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Monethe P. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Monethe P. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Monethe P. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Monethe P. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Monethe P. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Monethe B. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Monethe P. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Monethe P. Pratt  A. E. Pratt Heirs, executed by Donald E. Borer and Mary Jane Borer  Catherine J. Pratt  A. E. Pratt Heirs, executed by Theresa C. Pratt	Noble Energy, Inc. CNX Gas Company, LLC Excen Corporation Excen Mobile Corporation EXTO Energy Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Grantee. Lessee. etc  Antero Resources Corporation CNX Gas Company, LLC  Grantee. Lessee. etc  Petroleum Services, Inc.	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment  Not less than 1/8	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 W/SOS 496/126 515/278 542/147 550/273  Book/Page SS3/295 624/332  Book/Page A 221/611 2. 224/424 3. 224/420 225/80 8. 224/426 9. 224/426 10. 224/426 10. 224/426 10. 224/426 10. 224/426 225/159 K 225/564 224/472 226/501
, ,	Parcel TMP 1-18-15  Tex Map 8. Parcel N/A  Tex Map 8. Parcel	E 259010000  Title Opinion QLS  R/A  Title Opinion QLS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, Inc.  Nancy Fout and John Fout, w/h  Theresa Marie Smith, single  Nobie Energy, Inc.  Nobie Energy, Inc.  Nobie Energy, Inc.  Nobie Energy, Inc.  Jay Collins and Mary M. Coilins, h/w  Exon Corporation  Exon Mobile Corporation  XTO Energy Inc.  Nobie Energy, Inc.  Nobie Energy, Inc.  Sgrantor, Lessor, etc  West Virginia Division of Natural Resources  Antero Resources Corporation  Grantor, Lessor, etc  West Virginia Division of Natural Resources  Antero Resources Corporation  Grantor, Lessor, etc  Edwin Deimer Mulvay and Patricia Vaughn Mulvay  A. E. Pratt Heirs, executed by Jean Cole and Robert L. Cole  A. E. Pratt Heirs, executed by Darry A. Pratt  A. E. Pratt Heirs, executed by Nobert F. Pratt and Allen T. Pratt  A. E. Pratt Heirs, executed by Robert F. Moed and Margaret Maad  A. E. Pratt Heirs, executed by Jean Tinkham and Elvin I. Timkham  Blanche B. Pratt  A. E. Pratt Heirs, executed by Malcolm E. Greenwood and Dorothy Ann Greenwood  A. E. Pratt Heirs, executed by Malcolm E. Greenwood and Dorothy Ann Greenwood  A. E. Pratt Heirs, executed by Donald E. Borer and Mary Jane Borer  Catherine J. Pratt  A. E. Pratt Heirs, executed by Theresa C. Pratt  Petroleum Services, Inc.  J & J Enterprises, Inc.  J & J Enterprises, Inc.  Eastern American Energy Corporation	Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lossee, stc  Antero Resources Corporation CNX Gas Company, LLC Grantee, Lossee, stc  Petroleum Services, Inc. Petroleum S	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment  Boyalty  Not less than 1/8	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 WVSOS 496/126 515/278 542/147 550/273  Book/Pare 552/295 674/332  Book/Pare 4 221/424 3. 224/424 4. 224/470 8 224/426 9. 224/426 9. 224/426 9. 224/446 225/159 K 225/599 K 225/599 K 225/599 K 225/599 K 225/599 K 225/596 UNSOS
, ,	Parcel TMP 1-18-15  Tex Map 8. Parcel N/A  Tex Map 8. Parcel	E 259010000  Title Opinion QLS  R/A  Title Opinion QLS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theress Marie Smith, single Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc.  Jay Collins and Mary M. Collins, h/w Exon Corporation Exon Mobile Corporation Exon Mobile Corporation XTO Energy Inc. Noble Energy, Inc. Noble Energy, Inc.  Strantor, Lessor, etc  West Virginia Division of Natural Resources Antero Resources Corporation  Strantor, Lessor, etc  West Virginia Division of Natural Resources Antero Resources Corporation  Strantor, Lessor, etc  West Virginia Division of Natural Resources Antero Resources Corporation  Strantor, Lessor, etc  West Virginia Division of Natural Resources Antero Resources Corporation  A. E. Pratt Heirs, executed by Jean Cole and Robert L. Cole A. E. Pratt Heirs, executed by Jean Cole and Robert L. Cole A. E. Pratt Heirs, executed by Patrida P. Pratt and Allen T. Pratt A. E. Pratt Heirs, executed by Robert F. Pratt and Glenna Z. Pratt A. E. Pratt Heirs, executed by Richard F. Moed and Maryaret Mead A. E. Pratt Heirs, executed by Michard F. Moed and Maryaret Mead A. E. Pratt Heirs, executed by Moent F. Pratt and Laura L. Pratt A. E. Pratt Heirs, executed by Moent F. Pratt and Laura L. Pratt A. E. Pratt Heirs, executed by Moent F. Greenwood and Dorothy Ann Greenwood A. E. Pratt Heirs, executed by Macloolm E. Greenwood and Dorothy Ann Greenwood A. E. Pratt Heirs, executed by Marcloolm E. Greenwood and Dorothy Ann Greenwood A. E. Pratt Heirs, executed by Marcloolm E. Greenwood and Dorothy Ann Greenwood A. E. Pratt Heirs, executed by Marcloolm E. Greenwood and Dorothy Ann Greenwood A. E. Pratt Heirs, executed by Marcloolm E. Greenwood and Dorothy Ann Greenwood A. E. Pratt Heirs, executed by Marcloolm E. Greenwood and Dorothy Ann Greenwood A. E. Pratt Heirs, executed by Marcloolm E. Greenwood and Dorothy Ann Greenwood A. E. Pratt Heirs, executed by Marcloolm E. Greenwood and Dorothy Ann Greenwood A. E. Pratt Heirs, executed by Marcloolm E. Gr	Noble Energy, Inc. CNX Gas Company, LIC Granteo Losseo, etc  Antero Resources Corporation CNX Gas Company, LIC Granteo Losseo, etc  Petroleum Services, Inc. Petroleum Services Se	Rovalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment  Rovalty  Not less than 1/8  Assignment  Assignment  Assignment  Assignment  Assignment	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 WVSOS 496/126 515/278 542/147 550/273  Book/Page 523/295 624/332  Book/Page A 221/611 2. 224/424 3. 224/450 6. 224/428 7. 224/458 9. 224/460 10. 224/446 225/159 K 225/564 224/472 226/501 282/266 WVSOS 407/632
, ,	Parcel TMP 1-18-15  Tex Map 8. Parcel N/A  Tex Map 8. Parcel	E 259010000  Title Opinion QLS  R/A  Title Opinion QLS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, Inc.  Nancy Fout and John Sout, w/h  Theresa Marle Smith, single  Noble Energy, Inc.  Jay Collins and Mary M. Collins, h/w  Exon Corporation  Exon Mobile Corporation  XTO Energy Inc.  Noble Energy, Inc.  Sgrantor, Lessor, etc  West Virginia Division of Natural Resources  Antero Resources Corporation  Sgrantor, Lessor, etc  Edwin Delmer Mulvay and Patricia Vaughn Mulvay  A. E. Pratt Heirs, executed by Patricia P. Pratt and Allen T. Pratt  A. E. Pratt Heirs, executed by Patricia P. Pratt and Allen T. Pratt  A. E. Pratt Heirs, executed by Robert F. Pratt and Glenna Z. Pratt  A. E. Pratt Heirs, executed by Robert F. Pratt and Slenna Z. Pratt  A. E. Pratt Heirs, executed by Mohert E. Pratt and Slenna Z. Pratt  A. E. Pratt Heirs, executed by Mohert E. Pratt and Slenna Z. Pratt  A. E. Pratt Heirs, executed by Mohert E. Pratt and Slenna Z. Pratt  A. E. Pratt Heirs, executed by Mohert E. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Malcolm E. Greenwood and Dorothy Ann Greenwood  A. E. Pratt Heirs, executed by Malcolm E. Greenwood and Dorothy Ann Greenwood  A. E. Pratt Heirs, executed by Theresa C. Pratt  Petroleum Services, Inc.  18 J. Enterprises, Inc.	Noble Energy, Inc. CNX Gas Company, LC CNX Gas Comp	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment  Not less than 1/8  Assignment  Assignment  Assignment  Assignment  Assignment  Assignment  Assignment	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 WVSOS 496/126 515/278 542/147 550/273  Book/Pare 552/295 674/332  Book/Pare 4 221/424 3. 224/424 4. 224/470 8 224/426 9. 224/426 9. 224/426 9. 224/446 225/159 K 225/599 K 225/599 K 225/599 K 225/599 K 225/599 K 225/596 UNSOS
, ,	Parcel TMP 1-18-15  Tex Map 8. Parcel N/A  Tex Map 8. Parcel	E 259010000  Title Opinion QLS  R/A  Title Opinion QLS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theress Marie Smith, single Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc.  Jay Collins and Mary M. Collins, h/w Exon Corporation Exon Mobile Corporation Exon Mobile Corporation XTO Energy Inc. Noble Energy, Inc. Noble Energy, Inc.  Strantor, Lessor, etc  West Virginia Division of Natural Resources Antero Resources Corporation  Strantor, Lessor, etc  West Virginia Division of Natural Resources Antero Resources Corporation  Strantor, Lessor, etc  West Virginia Division of Natural Resources Antero Resources Corporation  Strantor, Lessor, etc  West Virginia Division of Natural Resources Antero Resources Corporation  A. E. Pratt Heirs, executed by Jean Cole and Robert L. Cole A. E. Pratt Heirs, executed by Jean Cole and Robert L. Cole A. E. Pratt Heirs, executed by Patrida P. Pratt and Allen T. Pratt A. E. Pratt Heirs, executed by Robert F. Pratt and Glenna Z. Pratt A. E. Pratt Heirs, executed by Richard F. Moed and Maryaret Mead A. E. Pratt Heirs, executed by Michard F. Moed and Maryaret Mead A. E. Pratt Heirs, executed by Moent F. Pratt and Laura L. Pratt A. E. Pratt Heirs, executed by Moent F. Pratt and Laura L. Pratt A. E. Pratt Heirs, executed by Moent F. Greenwood and Dorothy Ann Greenwood A. E. Pratt Heirs, executed by Macloolm E. Greenwood and Dorothy Ann Greenwood A. E. Pratt Heirs, executed by Marcloolm E. Greenwood and Dorothy Ann Greenwood A. E. Pratt Heirs, executed by Marcloolm E. Greenwood and Dorothy Ann Greenwood A. E. Pratt Heirs, executed by Marcloolm E. Greenwood and Dorothy Ann Greenwood A. E. Pratt Heirs, executed by Marcloolm E. Greenwood and Dorothy Ann Greenwood A. E. Pratt Heirs, executed by Marcloolm E. Greenwood and Dorothy Ann Greenwood A. E. Pratt Heirs, executed by Marcloolm E. Greenwood and Dorothy Ann Greenwood A. E. Pratt Heirs, executed by Marcloolm E. Greenwood and Dorothy Ann Greenwood A. E. Pratt Heirs, executed by Marcloolm E. Gr	Noble Energy, Inc. CNX Gas Company, LIC Granteo Losseo, etc  Antero Resources Corporation CNX Gas Company, LIC Granteo Losseo, etc  Petroleum Services, Inc. Petroleum Services Se	Rovalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment  Rovalty  Not less than 1/8  Assignment  Assignment  Assignment  Assignment  Assignment	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 W/SOS 496/126 515/278 542/347 550/273  Book/Page 853/295 624/332  Book/Page A 221/631 2. 224/424 3. 224/424 3. 224/426 6. 224/426 7. 224/426 9. 224/426 10. 224/426 10. 224/426 10. 224/426 225/159 K 225/564 224/472 226/501 282/296 W/SOS 407/632 420/316
, ,	Parcel TMP 1-18-15  Tex Map 8. Parcel N/A  Tex Map 8. Parcel	E 259010000  Title Opinion QLS  R/A  Title Opinion QLS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, Inc.  Nancy Fout and John Sout, w/h  Theresa Marle Smith, single  Noble Energy, Inc.  Jay Collins and Mary M. Collins, h/w  Exon Corporation  Exon Mobile Corporation  XTO Energy Inc.  Noble Energy, Inc.  Sgrantor, Lessor, etc  West Virginia Division of Natural Resources  Antero Resources Corporation  Sgrantor, Lessor, etc  Edwin Delmer Mulvay and Patricia Vaughn Mulvay  A. E. Pratt Heirs, executed by Patricia P. Pratt and Allen T. Pratt  A. E. Pratt Heirs, executed by Patricia P. Pratt and Allen T. Pratt  A. E. Pratt Heirs, executed by Robert F. Pratt and Glenna Z. Pratt  A. E. Pratt Heirs, executed by Robert F. Pratt and Slenna Z. Pratt  A. E. Pratt Heirs, executed by Mohert E. Pratt and Slenna Z. Pratt  A. E. Pratt Heirs, executed by Mohert E. Pratt and Slenna Z. Pratt  A. E. Pratt Heirs, executed by Mohert E. Pratt and Slenna Z. Pratt  A. E. Pratt Heirs, executed by Mohert E. Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Malcolm E. Greenwood and Dorothy Ann Greenwood  A. E. Pratt Heirs, executed by Malcolm E. Greenwood and Dorothy Ann Greenwood  A. E. Pratt Heirs, executed by Theresa C. Pratt  Petroleum Services, Inc.  18 J. Enterprises, Inc.	Noble Energy, Inc. CNX Gas Company, LC CNX Gas Comp	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment  Not less than 1/8  Assignment  Assignment  Assignment  Assignment  Assignment  Assignment  Assignment	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 WVSOS 496/126 515/278 542/147 550/273  Book/Pare 553/295 674/332  Book/Pare 1224/443 2224/470 8 224/488 4. 2224/470 8 224/486 9. 224/486 10. 224/446 225/159 K 225/580 1282/296 WVSOS 407/632 420/316 WVSOS 425/701 427/564
, ,	Parcel TMP 1-18-15  Tex Map 8. Parcel N/A  Tex Map 8. Parcel	E 259010000  Title Opinion QLS  R/A  Title Opinion QLS	Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h  Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h  Theress Marie Smith, single Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc.  Jay Collins and Mary M. Collins, h/w  Exon Corporation  Exon Mobile Corporation  Exon Mobile Corporation  Exon Mobile Corporation  Exon Mobile Corporation  KTO Energy Inc. Noble Energy, Inc. Noble Energy, Inc.  Strantor, Lessor, etc  West Virginia Division of Natural Resources  Antero Resources Corporation  Grantor, Lessor, etc  Edwin Delmer Mulvay and Patricia Vaughn Mulvay  A. E. Pratt Heirs, executed by Patricia Vaughn Mulvay  A. E. Pratt Heirs, executed by Patricia Pratt and Allen T. Pratt  A. E. Pratt Heirs, executed by Patricia Pratt and Sienna Z. Pratt  A. E. Pratt Heirs, executed by Robert F. Pratt and Sienna Z. Pratt  A. E. Pratt Heirs, executed by Patricia Pratt and Laura L. Pratt  A. E. Pratt Heirs, executed by Malcolm E. Greenwood and Dorothy Ann Greenwood  A. E. Pratt Heirs, executed by Malcolm E. Greenwood and Dorothy Ann Greenwood  A. E. Pratt Heirs, executed by Donald E. Borer and Mary Jane Borer  Catherine J. Pratt  A. E. Pratt Heirs, executed by Donald E. Borer and Mary Jane Borer  Catherine J. Pratt  A. E. Pratt Heirs, executed by Theresa C. Pratt  Petroleum Services, Inc.  J. B. J. Enterprises, Inc.  Eastern American Energy Corporation  Energy Corporation of America	Noble Energy, Inc. CNX Gas Company, LLC Exon Corporation Exon Mobile Corporation KTO Energy Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Grantee. Lessee. etc  Antero Resources Corporation CNX Gas Company, LLC  Grantee. Lessee. etc  Petroleum Services, Inc. Petroleum Servic	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8  Assignment  Royalty  Not less than 1/8  Assignment  Assignment  Assignment  Assignment  Assignment  Name Change	480/823 482/760 492/296 480/831 513/299 521/80 542/134 550/273 209/152 W/SOS 496/126 515/278 542/147 550/273  Book/Page SS3/295 624/332  Book/Page A 221/611 2. 224/424 3. 224/424 4. 224/470 B 224/426 9. 224/42

	Tax Map &	Title Opinion QLS		Country Laure att	Royalty	Book/Page
Tract ID	/ Parcel	Æ	Grantor, Lessor, etc	Grantee, Lessee, etc	AVIALLY	PAVOLLARY
40.44	JMP 1-18-25, 26.1	252244	Cecilia Louise Boomer and James Boomer, w/h	Nahla Fasser Jan	Not less than 1/8	480/823
10, 11	20.1	259011000	Woodberry Royalty, Inc.	Noble Energy, 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
			Everett L. Carmichael	Nobie Energy, Inc.	Not less than 1/8	488/398
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	513/299
			Noble Energy, Inc. Noble Energy, Inc.	CNX Gas Company, LLC CNX Gas Company, LLC	Assignment Assignment	521/80 542/134
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
					•	
Tract ID	Tax Map &	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
HARLE.	<u>Parcel</u>	Æ	311111111111111111111111111111111111111	<u> </u>		
<sub>12</sub> ]	TMP 1-18-26, 26.3, 26.4	288615000	Cecilia Louise Boomer and James Boomer, w/h	Noble Energy, Inc.	Not less than 1/8	480/823
12	20.5, 20.4	20002.000	Woodberry Royalty, Inc.	Nobia 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
			to the Marine	NATE TO SECURE	Not less than 1/8	462/525 480/829
			Jacob Myer Noble Energy, Inc.	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
	T 11 0	Title Opinion QLS				
Tract ID	Tax Map & Parcel	#	Grantor, lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
13 ▮	TMP 1-18-27	259058000	Cecilia 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
			Nancy Fout and John Fout, w/h	Noble Energy, Inc.	Not less than 1/8	492/296
			Theresa Marie Smith, single L. Juanita Baker	Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8 Not less than 1/8	480/831 477/86
			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
		Thi- 0-1-1 010				
Tract ID	Tax Map & Parcel	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
14 🗸	TMP 1-18-28	259057000	Cecilia 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
			Nancy Fout and John Fout, w/h	Noble Energy, Inc.	Not less than 1/8	492/296
			Theresa Marie Smith, single Phil Koontz Leonard	Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8 Not less than 1/8	480/831 477/84
			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	521/80
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	542/134
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
	Tax Map &	Title Opinion OLS				- 15-
Tract ID	Tax Map & Parcel	Title Opinion QLS	Grantor, Lessor, etc	Grantes, Lessee, etc	Royalty	Book/Page
Tract ID			Cecilia Louise Boomer and James Boomer, w/h	Noble Energy, Inc.	Not less than 1/8	480/823
	<u>Parcel</u>	#	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc.	Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8 Not less than 1/8	480/823 482/760
	<u>Parcel</u>	#	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h	Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8 Not less than 1/8 Not less than 1/8	480/823 482/760 492/296
	<u>Parcel</u>	#	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc.	Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8 Not less than 1/8	480/823 482/760
	<u>Parcel</u>	#	Cecilis Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Smith, single Patricla L. Williams Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment	480/823 482/760 492/296 480/831 465/260 499/447
	<u>Parcel</u>	#	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Namcy Fout and John Fout, w/h Theresa Marie Smith, single Patrica L. Williams Noble Energy, Inc. Noble Energy, Inc.	Noble Energy, Inc. ON Cos Company, LLC CNX Gos Company, LLC	Not loss than 1/8 Assignment Assignment	480/823 482/760 492/296 480/831 465/260 499/447 513/299
	<u>Parcel</u>	#	Cecilia Louisa Boomer and James Boomer, w/h Woodberry Royalty, Inc. Namcy Fout and John Fout, w/h Theresa Marie Smith, single Patricla L. Williams Roble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment	480/823 482/760 492/296 480/831 465/260 499/447 513/299 521/80
	<u>Parcel</u>	#	Cecilia Louisa Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Snith; single Patricla L. Williams Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC	Not loss than 1/8 Assignment Assignment	480/823 482/760 492/296 480/831 465/260 499/447 513/299
	<u>Parcel</u>	#	Cecilia Louisa Boomer and James Boomer, w/h Woodberry Royalty, Inc. Namcy Fout and John Fout, w/h Theresa Marie Smith, single Patricla L. Williams Roble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment	480/823 482/760 492/296 480/831 465/260 499/447 513/299 521/80 542/134
15	Percel TMP 1-18-30	# 288619000	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Marie Smith, single Patrica L. Williams Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment	480/823 482/760 492/296 480/831 465/260 499/447 513/299 521/80 542/134
15 IractiD	Percel TMP 1-18-30  IEX Map & Parcel	# 288619000 <u>Title Opinion QLS</u>	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Namcy Fout and John Fout, w/h Theresa Marie Smith, single Patrica L. Williams Noble Energy, Inc. Ordin Energy, Inc. Ordin Energy, Inc. Ordin Energy, Inc. Grantor, Lessor, etc	Noble Energy, Inc. CNX Gas Company, LLC	Not loss than 1/8 Not loss than 1/9 Assignment Assignment Assignment Assignment Assignment Assignment	480/823 482/760 492/296 480/831 465/260 499/447 513/299 521/80 542/134 550/273
15	Percel TMP 1-18-30	# 288619000	Cecilis Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Snith, single Patricla L. Williams Noble Energy, Inc. Compared to the Compared Ship Compa	Noble Energy, Inc. CNX Gas Company, LLC	Not loss than 1/8 Not loss than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/9 Assignment Assignment Assignment Assignment	480/823 482/760 492/296 480/831 465/260 499/447 513/299 521/80 542/134 550/273
15 IractiD	Percel TMP 1-18-30  IEX Map & Parcel	# 288619000 <u>Title Opinion QLS</u>	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Smith, single Patricla L. Williams Noble Energy, Inc. Solie Energy, Inc. Noble Energy, Inc. Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Noblemy Royalty, Inc.	Noble Energy, Inc. CNX Gas Company, LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/6 Not less than 1/6 Not less than 1/6 Assignment Assignment Assignment Assignment Royalty Not less than 1/6 Not less than 1/8 Not less than 1/8 Not less than 1/8	480/823 482/760 482/296 480/831 465/260 459/447 513/299 521/80 542/134 550/273 800k/Page 480/823 482/760 492/296
15 IractiD	Percel TMP 1-18-30  IEX Map & Parcel	# 288619000 <u>Title Opinion QLS</u>	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Marie Smith, single Patricla L. Williams Noble Energy, Inc. Onder Energy, Inc. Organtor, Lessor, etc. Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc.	Noble Energy, Inc. CNX Gas Company, LLC  Search Company, LLC  Robbe Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8	480/823 482/760 492/296 480/831 465/260 499/447 513/299 521/80 542/134 550/273 Book/Page 480/823 482/760 492/296 480/831
15 IractiD	Percel TMP 1-18-30  IEX Map & Parcel	# 288619000 <u>Title Opinion QLS</u>	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Marie Smith, single Patricla L. Williams Noble Energy, Inc. Odole Energy, Inc. Odole Energy, Inc. Odole Energy, Inc. Noble Energy, Inc.  Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Marie Smith, single Jacob Myar	Noble Energy, Inc. CNX Gas Company, LLC Noble Energy, Inc.	Not loss than 1/8 Not less than 1/8 Assignment Assignment Assignment Assignment Royalty Not less than 1/8	480/823 482/760 492/296 480/831 465/260 499/447 513/299 521/80 521/34 550/273  Book/Page 480/823 482/760 492/296 480/831 477/684
15 IractiD	Percel TMP 1-18-30  IEX Map & Parcel	# 288619000 <u>Title Opinion QLS</u>	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Smith, single Patricla L. Williams Noble Energy, Inc. On Grantor, Lessor, etc  Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Mario Smith, single Jacob Myer Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC NOBLE Energy, Inc. Noble Company, Inc. CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Assignment	480/823 482/760 482/296 480/831 445/260 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 482/296 480/831 477/684 499/447
15 IractiD	Percel TMP 1-18-30  IEX Map & Parcel	# 288619000 <u>Title Opinion QLS</u>	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Marie Smith, single Patricla L. Williams Noble Energy, Inc. Odole Energy, Inc. Odole Energy, Inc. Odole Energy, Inc. Noble Energy, Inc.  Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Marie Smith, single Jacob Myar	Noble Energy, Inc. CNX Gas Company, LLC Noble Energy, Inc.	Not loss than 1/8 Not less than 1/8 Assignment Assignment Assignment Assignment Royalty Not less than 1/8	480/823 482/760 492/296 480/831 465/260 499/447 513/299 521/80 521/34 550/273  Book/Page 480/823 482/760 492/296 480/831 477/684
15 IractiD	Percel TMP 1-18-30  IEX Map & Parcel	# 288619000 <u>Title Opinion QLS</u>	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Marie Snitth, single Patricla L. Williams Noble Energy, Inc.  Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Marie Snitth, single Jacob Myar Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Assignment Assignment Assignment Assignment	480/823 482/760 493/236 493/831 465/260 499/447 513/299 521/80 542/134 550/273 Book/Fage 480/823 482/760 493/296 493/296 493/47 513/299 521/80 542/134
15 IractiD	Percel TMP 1-18-30  IEX Map & Parcel	# 288619000 <u>Title Opinion QLS</u>	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Smith, single Patricla L. Williams Noble Energy, Inc. Oble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Assignment	480/823 482/760 482/296 480/831 465/260 499/447 513/299 521/80 542/134 550/273 Book/Page 480/823 482/760 480/831 471/684 499/447 513/299 521/80
15 IractiD	Percel TMP 1-18-30  Iax Map & Parcel TMP 1-18-29	# 288619000  Title Opinion QLS # 259020000	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Marie Snitth, single Patricla L. Williams Noble Energy, Inc.  Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Marie Snitth, single Jacob Myar Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Assignment Assignment Assignment Assignment	480/823 482/760 492/296 480/831 465/260 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 492/296 480/831 471/684 499/447 513/299 521/80 542/134 550/273
15 IractiD	Percel TMP 1-18-30  Iax Map & Parcel TMP 1-18-29  Iax Map & Section 18-29	# 288619000  Iitie Opinion QUS. # 259020000	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Marie Snitth, single Patricla L. Williams Noble Energy, Inc.  Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Marie Snitth, single Jacob Myar Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Assignment Assignment Assignment Assignment	480/823 482/760 493/236 493/831 465/260 499/447 513/299 521/80 542/134 550/273 Book/Fage 480/823 482/760 493/296 493/296 493/47 513/299 521/80 542/134
15 Tract 10 16, 17	Percel TMP 1-18-30  Iax Map & Parcel TMP 1-18-29	# 288619000  Title Opinion QLS # 259020000	Cecilis Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Smith, single Patricla L. Williams Noble Energy, Inc. Odde Energy, Inc. Noble Energy, Inc. Noble Energy, Inc.  Grantor, Lessor, etc  Cecilis Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Mario Smith, single Jacob Myar Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Royalty Royalty Not less than 1/8 Royalty Not less than 1/8 Royalty Not less than 1/8	480/823 482/760 493/296 493/296 480/831 465/260 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 493/296 490/447 513/299 521/80 542/134 550/273  Book/Page 480/823
15 Tract ID 16, 17	Percel TMP 1-18-30  Iax Map & Parcel TMP 1-18-29  Iax Map & Parcel	# 288619000  Title Opinion QLS # 259020000  Title Opinion QLS	Cecilis Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Smith, single Patricla L. Williams Noble Energy, Inc. Odde Energy, Inc. Noble Energy, Inc. Noble Energy, Inc.  Grantor, Lessor, etc  Cecilis Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Mario Smith, single Jacob Myar Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC	Not less than 1/8 Assignment	480/823 482/760 492/296 480/831 485/260 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 492/296 480/831 471/684 499/447 513/299 521/80 542/134 550/273
15 Tract ID 16, 17	Percel TMP 1-18-30  Iax Map & Parcel TMP 1-18-29  Iax Map & Parcel	# 288619000  Title Opinion QLS # 259020000  Title Opinion QLS	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Smith, single Patricla L. Williams Noble Energy, Inc. Noble Energy Ene	Noble Energy, Inc. OX Gas Company, LLC CNX Gas Company, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Royality Not less than 1/8	480/823 482/760 482/296 480/831 465/260 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 499/447 513/299 521/80 542/134 550/273  Book/Page 480/831 471/684 499/447 513/299 521/80 542/134 550/273
15 Tract ID 16, 17	Percel TMP 1-18-30  Iax Map & Parcel TMP 1-18-29  Iax Map & Parcel	# 288619000  Title Opinion QLS # 259020000  Title Opinion QLS	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Snitth, single Patricla L. Williams Noble Energy, Inc. Noble Energy, Inc	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas C	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment  Royalty Not less than 1/8 Assignment	480/823 482/760 492/296 480/831 465/260 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 492/296 480/831 471/684 499/447 513/299 521/80 542/134 550/273
15 Tract ID 16, 17	Percel TMP 1-18-30  Iax Map & Parcel TMP 1-18-29  Iax Map & Parcel	# 288619000  Title Opinion QLS # 259020000  Title Opinion QLS	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Snitth, single Patricla L. Williams Noble Energy, Inc. Noble Energy, Inc	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas C	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Royality Not less than 1/8	480/823 482/760 482/296 480/831 465/260 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 499/447 513/299 521/80 542/134 550/273  Book/Page 480/831 471/684 499/447 513/299 521/80 542/134 550/273
15 Tract ID 16, 17	Percel TMP 1-18-30  Iax Map & Parcel TMP 1-18-29  Iax Map & Parcel	# 288619000  Title Opinion QLS # 259020000  Title Opinion QLS	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Marie Smith, single Patricla L. Williams Noble Energy, Inc. DE	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment  Royalty Not less than 1/8	480/823 482/760 492/296 480/831 485/260 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 492/296 480/831 471/684 499/447 513/299 521/80 680/823 482/760 492/296 480/831 485/180 513/299 521/80
15 Tract ID 16, 17	Percel TMP 1-18-30  Iax Map & Parcel TMP 1-18-29  Iax Map & Parcel	# 288619000  Title Opinion QLS # 259020000  Title Opinion QLS	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Smith, single Patricla L. Williams Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas C	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Royality Not less than 1/8 Assignment Assignment Assignment Royality Not less than 1/8	480/823 482/760 482/296 480/831 465/260 489/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 482/296 480/831 471/684 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 482/296 480/823 482/760 522/296 480/831 485/820
15 Tract ID 16, 17	Percel TMP 1-18-30  Iax Map & Parcel TMP 1-18-29  Iax Map & Parcel	# 288619000  Title Opinion QLS # 259020000  Title Opinion QLS	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Smith, single Patricla L. Williams Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas C	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment  Royalty Not less than 1/8	480/823 482/760 492/296 480/831 485/260 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 492/296 480/831 471/684 499/447 513/299 521/80 680/823 482/760 492/296 480/831 485/180 513/299 521/80
Iract ID 16, 17	Percel TMP 1-18-30  Inx Map & Parcel TMP 1-18-29  Inx Map & Parcel TMP 1-18-23	# 288619000  Iitle Opinion QLS # 259020000  Title Opinion QLS # 259053000	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Smith, single Patricla L. Williams Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas C	Not less than 1/8 Assignment	480/823 482/760 492/296 492/296 492/296 492/47 513/299 521/80 542/134 550/273  Book/Fage 480/823 482/760 492/296 480/831 471/684 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 492/296 492/296 542/134 550/273
Iract ID 18	Percel TMP 1-18-30  Iax Map & Parcel TMP 1-18-29  Iax Map & Parcel TMP 1-18-23	# 288619000  Title Opinion QLS # 259020000  Title Opinion QLS # 259053000	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Marie Smith, single Patricla L. Williams Noble Energy, Inc.  Grantor, Lessor, etc  Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Marie Smith, single Jacob Myer Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Compa	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment  Royalty Not less than 1/8 Not l	480/823 482/760 492/296 492/296 492/296 492/831 4455/260 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 492/296 480/831 471/684 499/447 513/299 521/80 542/134 550/273  Book/Page 480/831 485/180 513/296 542/134 550/273  Book/Page
Iract ID 16, 17	Percel TMP 1-18-30  IEX Map & Parcel TMP 1-18-29  IEX Map & Parcel TMP 1-18-23	# 288619000  Title Opinion OLS # 259020000  Title Opinion OLS # 259053000	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Smith, single Patricla L. Williams Noble Energy, Inc. Noble Energy	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas C	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Royality Not less than 1/8	480/823 482/760 492/296 480/831 465/260 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 482/823 482/760 482/823 485/823
Iract ID 18	Percel TMP 1-18-30  Iax Map & Parcel TMP 1-18-29  Iax Map & Parcel TMP 1-18-23	# 288619000  Title Opinion QLS # 259020000  Title Opinion QLS # 259053000	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Snith; single Patricla L. Williams Noble Energy, Inc. Office Cecilia Louise Boomer and James Boomer, w/h Woodbery Royalty, Inc. Cecilia Louise Boomer and James Boomer, w/h Woodbery Royalty, Inc.	Noble Energy, Inc. OX Gas Company, LLC CNX Gas Company, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Compan	Not less than 1/8 Assignment Revalty Not less than 1/8	480/823 482/760 493/296 493/296 493/296 493/47 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 493/296 480/831 471/684 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760
Iract ID 18	Percel TMP 1-18-30  Iax Map & Parcel TMP 1-18-29  Iax Map & Parcel TMP 1-18-23	# 288619000  Title Opinion QLS # 259020000  Title Opinion QLS # 259053000	Cecilis Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Smith, single Patricla L. Williams Noble Energy, Inc. Noble Energy Inc. No	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas C	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8	480/823 482/760 482/296 480/831 465/260 489/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 482/296 480/831 471/684 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 482/296 480/823 652/296 480/823
Iract ID 18	Percel TMP 1-18-30  Iax Map & Parcel TMP 1-18-29  Iax Map & Parcel TMP 1-18-23	# 288619000  Title Opinion QLS # 259020000  Title Opinion QLS # 259053000	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Snith; single Patricla L. Williams Noble Energy, Inc. Office Cecilia Louise Boomer and James Boomer, w/h Woodbery Royalty, Inc. Cecilia Louise Boomer and James Boomer, w/h Woodbery Royalty, Inc.	Noble Energy, Inc. OX Gas Company, LLC CNX Gas Company, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Compan	Not less than 1/8 Assignment Revalty Not less than 1/8	480/823 482/760 492/296 492/296 492/296 492/47 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 492/296 480/823 482/760 492/296 480/823 482/760 492/296 480/823 482/760 492/296 480/831 485/180 542/134 550/273
Iract ID 18	Percel TMP 1-18-30  Iax Map & Parcel TMP 1-18-29  Iax Map & Parcel TMP 1-18-23	# 288619000  Title Opinion QLS # 259020000  Title Opinion QLS # 259053000	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Smith, single Patricla L. Williams Noble Energy, Inc. Noble Energy Inc. No	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas C	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Royality Not less than 1/8	480/823 482/760 482/296 480/831 465/260 489/447 513/299 521/80 542/134 550/273  Book/Page 480/831 471/684 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 482/296 480/831 485/80 513/299 521/80 542/134 550/273  Book/Page 480/831 485/180 513/299 521/80 542/134 550/273
Iract ID 18	Percel TMP 1-18-30  Iax Map & Parcel TMP 1-18-29  Iax Map & Parcel TMP 1-18-23	# 288619000  Title Opinion QLS # 259020000  Title Opinion QLS # 259053000	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Snitth, single Patricla L. Williams Noble Energy, Inc. Noble Energy Inc. N	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Com	Not less than 1/8 Assignment Royalty Not less than 1/8	480/823 482/760 493/296 493/296 493/296 480/831 465/260 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 493/296 480/823 482/760 492/296 480/831 485/180 542/134 550/273  Book/Page 480/823 482/760 492/296 480/831 485/180 542/134 550/273
Iract ID 18	Percel TMP 1-18-30  Iax Map & Parcel TMP 1-18-29  Iax Map & Parcel TMP 1-18-23	# 288619000  Title Opinion QLS # 259020000  Title Opinion QLS # 259053000	Cecilis Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Smith, single Patricla L. Williams Noble Energy, Inc. Noble Energy Inc. Noble Ener	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas C	Not less than 1/8 Assignment Assignment Assignment Assignment Royalty Not less than 1/8	480/823 482/760 482/296 480/831 465/260 489/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 482/296 480/823 482/760 482/296 480/823 482/760 542/134 550/273  Book/Page 480/823 482/760 492/296 480/823 482/760 542/134 550/273  Book/Page 480/823 482/760 492/296 480/823 482/760 542/134 550/273
Iract ID 18	Percel TMP 1-18-30  Iax Map & Parcel TMP 1-18-29  Iax Map & Parcel TMP 1-18-23	# 288619000  Title Opinion QLS # 259020000  Title Opinion QLS # 259053000	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Snitth, single Patricla L. Williams Noble Energy, Inc. Noble Energy Inc. N	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Com	Not less than 1/8 Assignment Royalty Not less than 1/8	480/823 482/760 493/296 493/296 493/296 480/831 465/260 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 493/296 480/823 482/760 492/296 480/831 485/180 542/134 550/273  Book/Page 480/823 482/760 492/296 480/831 485/180 542/134 550/273
Iract ID 18	Percel TMP 1-18-30  Iax Map & Parcel TMP 1-18-29  Iax Map & Parcel TMP 1-18-23	# 288619000  Title Opinion QLS # 259020000  Title Opinion QLS # 259053000	Cecilis Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Smith, single Patricla L. Williams Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Com	Not less than 1/8 Assignment Royalty Not less than 1/8	480/823 482/760 482/296 480/831 465/260 489/447 513/299 521/80 542/134 550/273  Book/Page 480/831 471/684 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 482/296 480/823 482/760 482/296 480/831 485/180 513/299 521/80 542/134 550/273  Book/Page 480/831 485/180 513/299 521/80 542/34 550/273
Iract ID 18	Percel TMP 1-18-30  Iax Map & Parcel TMP 1-18-29  Iax Map & Parcel TMP 1-18-23	# 288619000  Title Opinion QLS # 259020000  Title Opinion QLS # 259053000	Cecilia Louise Boomer and James Boomer, w/h Woodberry Royalty, Inc. Nancy Fout and John Fout, w/h Theresa Maria Smith, single Patricla L. Williams Noble Energy, Inc. Noble Energy	Noble Energy, Inc. CNX Gas Company, LLC CNX	Not less than 1/8 Assignment Bot less than 1/8 Not less than 1/8	480/823 482/760 493/296 493/296 493/296 493/47 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 492/296 480/831 471/684 499/447 513/299 521/80 542/134 550/273  Book/Page 480/823 482/760 492/296 480/831 485/180 542/134 550/273  Book/Page 480/823 482/760 492/296 480/831 485/180 542/134 550/273

4.45

Tract ID	Tax Map &	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
20	Parcel TMP 1-18-20	ff 288616000	Cecilia Louise Boomer and James Boomer, w/h	Noble Energy, Inc.	Not less than 1/8	480/823
لد "	11017 1-20-20	220010000	Woodberry Royalty, Inc.	Nobie 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 Mario Smith, single	Noble Energy, Inc.	Not less than 1/8	480/831
			Jon M. Montgomery	Nobie Energy, Inc.	Not less than 1/8	465/608
			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
	Tax Map &	Title Opinion QL5			-	
Tract ID	Parcel	#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty  Not less than 1/8	<u>Book/Page</u> 480/823
21 <b>/</b>	TMP 1-18-18	259052000	Cecilla Louise Boomer and James Boomer, w/h	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	Noble Energy, Inc.	•	458/763
			Glenda L. Hedrick	Noble Energy, Inc.	Not less than 1/8	480/831
			Theresa Marie Smith, single	Noble Energy, Inc.	Not less than 1/8 Not less than 1/8	488/396
			Edwin Delmor Mulvay and Patricia L. Mulvay, h/w	Noble Energy, Inc.	Assignment	513/299
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment Assignment	521/80
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	542/134
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	330/213
Iract ID	Tax Map & Parcel	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
22 🗸	TMP 8-3-3	258988000	Clarence L. Hurst and Betty Ann	Econ Corporation	Not less than 1/8	102/31
			Exxon Corporation	Exxon Mobil Corporation	Name Change	wvsos
			Exxon Mobil Corporation, ExxonMobil Oil Corporation, Mobil Producing Texas & New Mexico Inc., Mobil Oil Exploration & Producing Southeast Inc., and Mobil Exploration and Producing North America Inc.			
			Oil Exploration at Freducing Southeast Inc., and most Exploration and Freducing North America Inc.	XTO Energy Inc.	Assignment	359/150
			XTO Energy Inc.	Antero Resources Corporation	Assignment	423/613
			Antero Resources Corporation	CNX Gas Company, LLC	Affidavit of Agreement	429/558
Tract ID.	Tax Map &	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
,, <i>1</i>	<u>Parcel</u> TMP 8-3-4.1	£ 259048000	Clarence W. Mutschelknaus and Mary F. Mutschelknaus, h/w	Stonewall Gas Company	Not less than 1/8	149/61B
23 -	11117 0-3-4.1	239040000	Stonewall Gas Company	Clarence W. Mutschelknaus	Assignment	166/33
			Clarence W. Mutschelknaus and Mary F. Mutschelknaus, h/w	Antero Resources Corporation	Assignment	327/470
			Antero Resources Corporation	CNX Gas Company, LLC	Affidavit of Agreement	429/558
1			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	cian ess company, esc	, <b>3</b>	,
Iract ID	Tax Map & Parcel	Title Opinion QL5	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
24	TMP 8-3-7	293603000	William Paul McCutchan and Virginia B. McCutchan, his wife	Exxon Corporation	Not less than 1/8	102/38
			Exxon Corporation	Exxon Mobil Corporation	Name Change	wvsos
			Exxon Mobil 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.	Assignment	359/150
			XTO Energy Inc.	Antero Resources Corporation	Assignment	423/613
			Antero Resources Corporation	CNX Gas Company, LLC	Affidavit of Agreement	429/558
			Jacqueline L. Standafer and Warren G. Standafer, her husband	J & J Enterprises, Inc.	Not less than 1/8	130/571
			Marylynn H. Roberts and John E. Roberts, her husband	J & J Enterprises, Inc.	Not less than 1/8	130/704
			J. W. Morton Field	J & J Enterprises, inc.	Not less than 1/8	131/188
			J & J Enterprises, Inc.	Eastern American Energy Corporation	Merger	159/139
			Eastern American Energy Corporation	Energy Corporation of America	Assignment	240/498
			Energy Corporation of America	Antero Resources Corporation	Assignment	460/453
			Antero Resources Corporation	CNX Gas Company, LLC	Affidavit of Agreement	429/558
					-	

RECEIVED
Office of Oil and Gas

DEC 4 2018

03/01/2019



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 57<sup>th</sup> Street, SE Charleston, WV 25304-2345

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

Office of Oil and Gas

DEC 4 2018

### 47 0 9 5 0 2 5 7 0 03/01/2019

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

Date of Noti	ce Certification: 11-28 - 18	API No. 47-	- 4	
		Operator's W	ell No. SHR3	8EHSM
		Well Pad Nam		
Notice has	been given:			T-7-7-1
Pursuant to th	ne provisions in West Virginia Code	22-6A, the Operator has provided the require	ed parties w	ith the Notice Forms listed
	tract of land as follows:			
State:	West Virginia	TITALA NATION	4189.1430	
County:	Tyler	Northing: 43	58005.0840	
District:	Centerville	Public Road Access: Du	uckworth Ridge	Road
Quadrangle:	West Union	Generally used farm name: As	h	
Watershed:	Headwaters Middle Island Creek			
prescribed by it has provid information r of giving the requirements Virginia Cod of this article	the secretary, shall be verified and sed the owners of the surface described the owner of the surface described and (c), set surface owner notice of entry to surface owner notice of entry to surface of subsection (b), section sixteen of \$22-6A-11(b), the applicant shall thave been completed by the applicant	every permit application filed under this so hall contain the following information: (14) A ped in subdivisions (1), (2) and (4), subsect action sixteen of this article; (ii) that the required pursuant to subsection (a), section ten f this article were waived in writing by the ender proof of and certify to the secretary that it.	A certification (b), sec rement was of this article surface ow at the notice	on from the operator that (i) tion ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice mer; and Pursuant to West
that the Ope	erator has properly served the require	d parties with the following:	neation	OOG OFFICE USE
*PLEASE CH	ECK ALL THAT APPLY			ONLY
□ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSE SEISMIC ACTIVITY WAS CONDUCTED		☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or  NO PLAT SURVEY WAS CON	DUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	-	☐ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)	OWNER	
■ 4. NO	TICE OF PLANNED OPERATION	RECEIVED Office of Oil and Gas		☐ RECEIVED
■ 5, PU	BLIC NOTICE	DEC 4 2018		☐ RECEIVED
■ 6. NO	TICE OF APPLICATION	WV Department of Environmental Protection		☐ RECEIVED

#### Required Attachments:

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

			12000
Certification	of Notice	is hereby	given:

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

Well Operator:	CNX Gas Company, LLC	Address:	1000 Consol Energy Drive
By:	Raymond Hoon		Canonsburg, PA 15317
Its:	Permitting Supervisor	Facsimile:	
Telephone:	724-485-3540	Email:	RaymondHoon@CNX.com
I R	NOTARIAL SEAL Lori L. Walker, Notary Public Richhill Twp., Greene County	ribed and swo	ora before me this 29 May of 1000 m/on 2018  Notary Public xpires February 23, 2019

Oil and Gas Privacy Notice:

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

Office of Oil and Gas

WW-6A (9-13) API NO. 47- 9 5 0 2 5 7 0 OPERATOR WELL NO. SHR38EHSM

Well Pad Name: SHR38 03/01/201

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 1-21e-18 Date Permit Application Filed: 11-28-18 Notice of: ☐ CERTIFICATE OF APPROVAL FOR THE ✓ PERMIT FOR ANY WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT WV Department of Environmental Protection Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ REGISTERED ☐ METHOD OF DELIVERY THAT REQUIRES A ☐ PERSONAL SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: ☑ SURFACE OWNER(s) COAL OWNER OR LESSEE Name: See attached Name: See attached Address: Address: COAL OPERATOR Name: Name: Address: Address: ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) ☑ SURFACE OWNER OF WATER WELL Name: Address: AND/OR WATER PURVEYOR(s) Name: See attached Name: Address: Address: ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Name: Address: Address: \*Please attach additional forms if necessary

API NO. 477 0 9 5 0 2 5 7 0
OPERATOR WELL NO. SHR38EHSM
Well Pad Name: SHR38

Notice is hereby given:

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

#### This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-026/0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

Office of Oil and Gas

#### 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 of the conference of the located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items WW-6A (8-13)

API NO. 47-OPERATOR WELL NO. SHR38EHSM 03/01/2019 Well Pad Name: SHR38

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

#### Water Well Testing:

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

#### Water Testing Laboratories:

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

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

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

#### Written Comment:

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

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

RECEIVED
Office of Oil and Gas

DEC 4 2018

(304) 926-0450

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

WW-6A (8-13) API NO. 47-\_\_\_\_\_OPERATOR WELL NO. SHR38EHSM
Well Pad Name: SHR38 03/01/2019

#### Time Limits and Methods for Filing Comments.

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

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

#### **Comment Requirements**

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

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

#### **Permit Denial or Condition**

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

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

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

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

Office of Oil and Gas

DEC 4 2018

WW-6A (8-13)

API NO. 47-\_\_\_\_OPERATOR WELL NO. SHR38EHSM
Well Pad Name: SHR38 03/01/2019

Notice is hereby given by:

Well Operator: CNX Gas Company, LLC

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

Facsimile:

Oil and Gas Privacy Notice:

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

common wealth of formsylpuna

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

Notary Public

My Commission Expires

RECEIVED Office of Oil and Gas

DEC 4 2018

**Surface Owners:** 

James Eli Ash	1	8707 Middle Island Road Alma, WV, 26320
Becannray LLC	1	5042 Tyler Highway Sistersville, WV 26175
Nicole Eastham	Ţ	34973 State Route 800 New Matamoras, OH
Alexandria Fetty	1	34973 State Route 800 New Matamoras, OH
Rachelle Hise	1	237 Holiday Avenue Woodsfield, OH 43793
Potts Place LLC	1	353 Foundry Street New Martinsville, WV 26155
STS Enterprises LLC	1	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

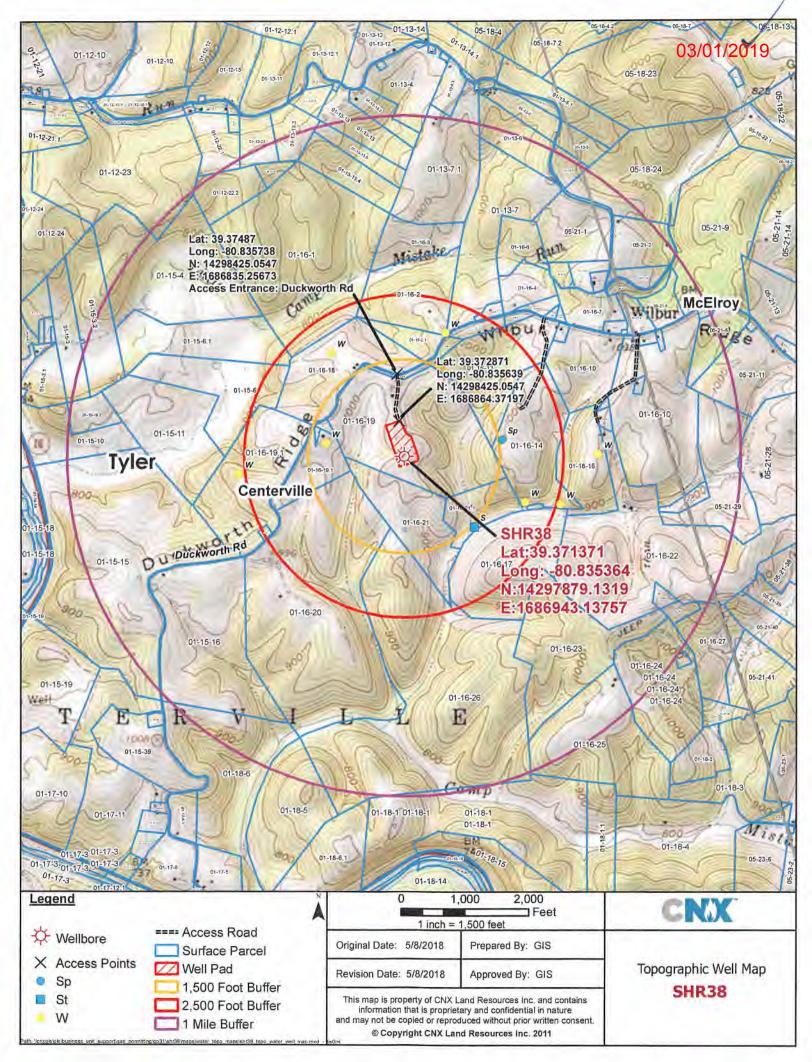
ANDERS, JOHN R II \ 804 PETERS RUN RD WHEELING WV 26003

COSTILOW, CONRAD

13310 MIDDLE ISLAND RD WEST UNION WV 26456

Office of Oil and Gas

DEC 4 2018



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 Notic		ed at least TEN (10) days prior to filing a Permit Application Filed: //- 25	
Delivery me	thod pursuant to West Virginia Code	e § 22-6A-16(b)	RECEIVED Office of Oil and Gas
☐ HAND	CERTIFIED MAIL		DEC 4 2018
		PEOLIESTED	227
Pursuant to V receipt reque drilling a hor of this subsection m	V. Va. Code § 22-6A-16(b), at least tersted or hand delivery, give the surface izontal well: <i>Provided</i> , That notice gittion as of the date the notice was provay be waived in writing by the surface	n days prior to filing a permit application, owner notice of its intent to enter upon the ven pursuant to subsection (a), section to ided to the surface owner: <i>Provided, how</i> owner. The notice, if required, shall include all address of the operator and the operator	n of this article satisfies the requirements never, That the notice requirements of this add the name, address, telephone number,
	reby provided to the SURFACE	OWNER(s):	
Name: See atta	ched.	Name:	
Address:		Address:	
State: County: District: Quadrangle: Watershed:	West Virginia Tyler Centerville West Union Headwaters Middle Island Creek	Public Road Access:	514189.1430 4358005.0840 Duckworth Ridge Road Ash
Pursuant to facsimile nur related to hor	mber and electronic mail address of trizontal drilling may be obtained from	this notice shall include the name, addressed the operator and the operator's authorized the Secretary, at the WV Department of 04 (304-926-0450) or by visiting <a href="https://www.de">www.de</a>	d representative. Additional information f Environmental Protection headquarters,
	ereby given by:		
	CNX Gas Company, LLC	Authorized Representative:	Raymond Hoon
Address:	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
			-

#### Oil and Gas Privacy Notice:

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

**Surface Owners:** 

Janace 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

Office of Oil and Gas

DEC 4 2018

WW-6A5 (1/12)

### STATE OF WEST VIRGINIA

03/01/2019

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

Date of	ime Re Notice:	equirement: notice shall be	provided no e Permit A	o later than the filing pplication Filed:	date of permit	application.
Delivery	y metho	d pursuant to West Virgin	nia Code §	22-6A-16(c)		
■ CE	RTIFIE	ED MAIL		HAND		
77		RECEIPT REQUESTED		DELIVERY		
return re the plant required drilling of damages	ned ope to be proof a hores to the s notices in	quested or hand delivery, g eration. The notice require rovided by subsection (b), s rizontal well; and (3) A pro- surface affected by oil and g	ive the surfact by this so ection ten opposed surfaces gas operation	ace owner whose lan ubsection shall inclu of this article to a sur- ace use and compen ns to the extent the d	d will be used for de: (1) A copy ace owner whose sation agreement amages are com-	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se 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
(at the ac	ddress li	y provided to the SURFAG isted in the records of the sh		time of notice):	Offi	RECEIVED control of Oil and Gas
Name: S Address:		d.		Name: Addres	DI	EC 4 2018
				Tiddies	J.	2010
				>	Enviror	Department of omental Protection
Notice is Pursuant operation State: County:	s hereby t to Wes n on the			is hereby given that to farilling a horizont.  UTM NAD	he undersigned all well on the tra Easting: Northing:	Department of operation well operator has developed a planned act of land as follows:  514189.1430  4358005.0840
Notice is Pursuant operation State: County: District:	s hereby t to Wes n on the	st Virginia Code § 22-6A-16 e surface owner's land for the Vest Virginia yler Jenterville		is hereby given that to f drilling a horizont:  UTM NAD Public Road	he undersigned of well on the tra Easting: Northing: Access:	well operator has developed a planned act of land as follows:  514189.1430  4358005.0840  Duckworth Ridge Road
Notice is Pursuant operation State: County:	s hereby t to Wes n on the	st Virginia Code § 22-6A-16 e surface owner's land for the Vest Virginia Yler		is hereby given that to f drilling a horizont:  UTM NAD Public Road	he undersigned all well on the tra Easting: Northing:	well operator has developed a planned act of land as follows:  514189.1430 4358005.0840
Notice is Pursuant operation State: County: District: Quadran Watersho This No Pursuant to be pro- horizonta surface a informat	s hereby t to Wes n on the  wes gle: wes ed: He tice Sha t to Wes rovided al well; affected tion rela rters, lo	st Virginia Code § 22-6A-16 e surface owner's land for the vest Virginia yer senterville Vest Union eadwaters Middle Island Creek  all Include: st Virginia Code § 22-6A-16 by W. Va. Code § 22-6A- and (3) A proposed surface by oil and gas operations atted to horizontal drilling in ocated at 601 57th Street, St	6(c), this no 10(b) to a se use and co to the externay be obta	is hereby given that to of drilling a horizont.  UTM NAD Public Road Generally us of the shall include: (1) surface owner whose ompensation agreement the damages are coined from the Secretary.	he undersigned all well on the tra Easting: Northing: Access: ed farm name:  A copy of this e land will be unterested to containing arompensable underly, at the WV	well operator has developed a planned act of land as follows:  514189.1430  4358005.0840  Duckworth Ridge Road
Notice is Pursuant operation State: County: District: Quadran Watersho This No Pursuant to be pre horizonts surface a informat headquai gas/page	s hereby t to Wes n on the  W Ty  C  ggle: We ed: He  t to Wes covided al well; affected cion rela rters, lo	st Virginia Code § 22-6A-16 e surface owner's land for the surface owner's land creek  all Include: st Virginia Code § 22-6A-16 by W. Va. Code § 22-6A-17 and (3) A proposed surface owner land gas operations atted to horizontal drilling in sucated at 601 57th Street, Surface owner land gas operations atted to horizontal drilling in sucated at 601 57th Street, Surface owner land gas operations atted to horizontal drilling in sucated at 601 57th Street, Surface owner land gas operations atted to horizontal drilling in sucated at 601 57th Street, Surface owner's land for the surface owner's la	6(c), this no 10(b) to a se use and co to the externay be obta	is hereby given that to of drilling a horizont.  UTM NAD a Public Road Generally us of tice shall include: (1 surface owner whose ompensation agreement the damages are contined from the Secret leston, WV 25304	he undersigned all well on the tra Basting: Northing: Access: ed farm name:  A copy of this e land will be an containing ar ompensable und tary, at the WV (304-926-0450)	well operator has developed a planned act of land as follows:  514189.1430  4358005.0840  Duckworth Ridge Road  Ash  code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Notice is Pursuant operation State: County: District: Quadran Watersho This No Pursuant to be pro- horizonta surface a informat headquar	s hereby t to Wes n on the  w Ty c ggle: We ed: He  tice Sha t to Wes covided al well; affected tion rela rters, lo es/defaul	st Virginia Code § 22-6A-16 e surface owner's land for the vest Virginia yer senterville Vest Union eadwaters Middle Island Creek  all Include: st Virginia Code § 22-6A-16 by W. Va. Code § 22-6A- and (3) A proposed surface by oil and gas operations atted to horizontal drilling in ocated at 601 57th Street, St	6(c), this no 10(b) to a se use and co to the externay be obta	is hereby given that to of drilling a horizont.  UTM NAD Public Road Generally us of the shall include: (1) surface owner whose ompensation agreement the damages are coined from the Secretary.	he undersigned all well on the tra Easting: Northing: Access: ed farm name:  A copy of this e land will be unterested to containing arompensable underly, at the WV	well operator has developed a planned act of land as follows:  514189.1430  4358005.0840  Duckworth Ridge Road  Ash  code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-y Drive

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.

**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	1	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

RECEIVED Office of Oil and Gas

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

April 27, 2018

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

> Jill M. Newman **Deputy Commissioner**

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

Subject: DOH Permit for the SHR-38 Pad, Tyler County SHR-38EHSM 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.

RECEIVED Office of Oil and Gas

WV Department of Environmental Protection

Very Truly Yours,

Gary K. Clayton

Regional Maintenance Engineer Central Office Oil &Gas Coordinator

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

