

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

Wednesday, January 8, 2020 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re: Permit approval for SHR 37 FHSM 47-095-02665-00-00

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

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

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

James A. Martin

Chief

Operator's Well Number: SHR 37 FHSM

Farm Name: CNX GAS COMPANY

U.S. WELL NUMBER: 47-095-02665-00-00

Horizontal 6A New Drill Date Issued: 1/8/2020

Promoting a healthy environment.

API Number:	

PERMIT CONDITIONS

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

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:	

PERMIT CONDITIONS

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

4709502665	502665	9 5	0	47
------------	--------	-----	---	----

API NO. 47-___ -___OPERATOR WELL NO. SHR37FHSM

Well Pad Name: SHR37

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

1) Well Operat	tor: CNX G	as Company,	LLC	4944	158046	Tyler	Centervil	West Union
and the same of the same of	The state of the s			Ope	rator ID	County	District	Quadrangle
2) Operator's V	Well Number	SHR37FHSI	М		_ Well Pa	ad Name: Sh	HR37	
3) Farm Name	/Surface Owr	ner: CNX GAS C	OMPAI	NY LLC	Public Ro	oad Access:	DUCKWORTH	RIDGE ROAD
4) Elevation, c	urrent ground	l: 828'	E	levatio	n, proposed	d post-constr	uction: 828'	
5) Well Type	(a) Gas Other	X	Oil _		Une	derground St	orage	
	(b)If Gas	Shallow _	X		Deep			MAR
		Horizontal _	X					101 1209
6) Existing Page	d: Yes or No		Yes	3		200		70/13/19/
7) Proposed Target forma			A A A RESTOR	1000			d Pressure(s): nation pressure	~4000 psi
8) Proposed To	otal Vertical I	Depth: 6302'						
9) Formation a			arcellu	s Shal	e (will not	penetrate O	nondaga)	
10) Proposed	Total Measure	ed Depth: 19	,480'					
11) Proposed I	Horizontal Le	g Length: 12	,720'					
12) Approxima	ate Fresh Wat	ter Strata Deptl	ns:	92',	126', 144',	148', 150',	176', 220'	
13) Method to	Determine F	resh Water Dep	oths:	Offset	water wel	Information		
14) Approxim	ate Saltwater	Depths: 1748	3', 245	3'				
15) Approxim	ate Coal Sean	n Depths: No	minea	ble co	al seams;	trace @ 154	1', 526', 618', 9	955', 992', 1044'
16) Approxim	ate Depth to I	Possible Void (coal m	ine, ka	rst, other):	None antic	ipated	
17) Does Prop directly overly		ation contain c nt to an active			Yes		No	X
(a) If Yes, pr	ovide Mine I	nfo: Name:						
		Depth:						
		Seam:						
RECEIV Office of Oil	ED and Gas	Owner:						

OCT 1 8 2019

OPERATOR WELL NO. SHR37FHSM

Well Pad Name: SHR37

18)

CASING AND TUBING PROGRAM

Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)			CEMENT: Fill-up (Cu. Ft.)/CTS
20	New	L/S	<94.0	100	100	96 / CTS
13.375	New	J-55	54.5	400	400	278 / CTS
13.375	New	J-55	54.5	400	400	278/CTS
9.625	New	J-55	36.0	2600	2600	834 / CTS
5.5	New	P-110	20.0	19,480	19,480	3981 / TOC @ 2100'
2.375	New	J-55	4.7		TBD	N/A
N/A						
	(in) 20 13.375 13.375 9.625 5.5 2.375	(in) Used 20 New 13.375 New 13.375 New 9.625 New 5.5 New 2.375 New	(in) Or Used 20 New L/S 13.375 New J-55 13.375 New J-55 9.625 New J-55 5.5 New P-110 2.375 New J-55	(in) Or Used Grade (lb/ft) 20 New L/S <94.0	(in) Or Used Grade Used (lb/ft) Drilling (ft) 20 New L/S <94.0	(in) or Used Grade (Ib/ft) Drilling (ft) Left in Well (ft) 20 New L/S <94.0



ТҮРЕ			Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)	
Conductor	20	24	0.375	N/A	N/A	Type 1	1.18
Fresh Water	13.375	17.5	0.380	2730	<500	Class A	1.19
Coal	13.375	17.5	0.380	2730	<500	Class A	1.19
Intermediate	9.625	12.25	0.352	3520	<2815	Class A	1.19
Production	5.5	8.75 x 8.5	0.361	14340	~11000 during frac	Class A or H	1.10
Tubing	2.375	N/A	0.190	7700	N/A	N/A	N/A
Liners	N/A						

PACKERS

Kind:	N/A		
Sizes:			
Depths Set:			

RECEIVED
Office of Oil and Gas



OCT 18 2019

API NO. 474	7	0.9	5	0	2	6	6	5	
OPERATO	DV	VELL N	0	CHD	750	142		-	

OPERATOR WELL NO. SHR37FHSM

Well Pad Name: SHR37

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 ~11,000 psi and max anticipated treating pump rate is ~100 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): 8.5
- 22) Area to be disturbed for well pad only, less access road (acres): 8
- 23) Describe centralizer placement for each casing string:

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

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

Fresh water string: Class A cement with 1%-3% CaCl2 and 1/4 pps cello-flake/LCM. Intermediate string: Class A cement with 0%-2% CaCl2 and 1/4 pps cello-flake/LCM. Production string: Class A or Class H 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

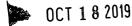
*Note: Attach additional sheets as needed.

OCT 1 8 2019

SHR37 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 A or Class H 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







LP @ +/- 6302' TVD

DRILLING WELL PLAN

SHR-37F-HSM (Marcellus HZ)

Marcellus Shale Horizontal Tyler County, WV

+/- 12720' Lateral

					SH	R-37F-H	ISM SHL	N 31	3561.07, E 1619487	'.36 (NAD27)		
Ground Elevation		828 GL E	levation		SI	HR-37F-	HSM LP	N 313696.67, E 1619234.42 (NAD27) N 325723.95, E 1615093.1 (NAD27)				
Azimuth		341	0		SH	R-37F-H	ISM BHL					
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	MD	TVD	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS		
	24"	20" L/S	Conductor	100	100	AIR	To Surface	N/A	N/A	Stabilize surface fill/soil		
			Shallowest Fresh Water		92		15.6 ppg Class A + 1% to 3% CaCl2	Centralize every other joint from shoe to		Set through fresh water zone:		
	17-1/2"	13-3/8" 54.5# J-55 BTC	Deepest Fresh Water		220	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 sean		
100			Fresh Water Casing	400	400		TOC @ surface					
			No mineable coal zones		N/A	1000						
101 101			Big Lime	WE T	1683		la Marita			Set through potential salt wat		
101 100		10 2	Big Injun		1748		15.6 ppg Class A + 0% to 2% CaCl2	Centralize every 3rd	Later Comment	zones		
	12-1/4"	9-5/8" 36,0#	Price		1888	AIR /	+ 1/4 pps Flake	joint from shoe to surface	Soap the hole as needed and ensure the hole is clean	Cemented to surface		
100	12-1/4	J-55 LTC	Weir		2018	Soap	20% OH Excess Yield = 1.19 TOC @ surface	Bow spring centralizers	at section TD	Casing to be set below the Big Injun and Berea and into Devonia Shale		
			Berea		2238							
100 100			Gordon		2458					Shale		
			Intermediate Casing	2600	2600							
0 0			Warren		3153							
10 10	8-3/4"		Benson		4733	10.30	15.0 ppg Class A or H					
N 0	Tangent		Alexander		4978	AIR	with additives (retarder,		Once at TD, circulate at max flowrate with max rotation			
. 10 10			Cashaqua		5978		suspension agent, gas block, defoamer, fluid	Centralize every joint	until shakers clean-up	Note: Actual centralizer placem may be changed due to hole		
/ N		5-1/2" 20.0#	Middlesex		6083		loss, extender, etc.)	from shoe to TOC	(typically requires multiple bottoms-up)	conditions		
		P-110 VAR	West River		6123		10% OH Excess	Single-piece/rigid bow		Note: Actual cement blends ma		
	2000		Burkett		6193		Yield = 1.10	centralizers	Once on bottom with casing, circulate a minimum of one	vary slightly depending upon		
	8-1/2" Curve		Tully		6223	12,0-12.8	TOC @ >= 500' above	1000	hole volume prior to	service company utilized		
	& Lateral		Hamilton		6243	ppg SOBM	9-5/8" shoe		pumping cement			
			Marcellus		6261							
			Production Casing	19480	6302							



TD @ +/- 6302' TVD

8-3/4" x 8-1/2" Hole - Cemented Long String 5-1/2" 20.0# VA-EP-P110-NY VAR (115-125 MYS, 95% RBW, API Modified BTC)

Wade,

No wells have been drilled on this Pad as of now so we do not have any new confirmed depths or completion reports. The water depths are based on a study we had completed that took the local water depths from our pre-drill sampling and iterated to our site location, an additional buffer was added to be conservative.

See attached.

Let me know if you require anything else.

-Ray

From: Stansberry, Wade A [mailto:Wade.A.Stansberry@wv.gov]

Sent: Wednesday, December 11, 2019 1:19 PM

To: Hoon, Raymond <<u>RaymondHoon@cnx.com</u>>; Rhodes, Jacob K <<u>Jacob.K.Rhodes@wv.gov</u>>
Cc: Weigand, Sarah <<u>sarahweigand@cnx.com</u>>; Zachwieja, Becky <<u>BeckyZachwieja@cnx.com</u>>;

Simmons, Walter G < <u>Walter.G.Simmons@wv.gov</u>>; Kees, Kelly L < <u>Kelly.L.Kees@wv.gov</u>>; Adkins, Laura L

<Laura.L.Adkins@wv.gov>

Subject: RE: [EXTERNAL] RE: SHR37 Permit applications

Ray,

I have a question abou the approximate water strata depths. On the 95-02588, the depths were given 137' & 247' for freshwater.

I'm just wondering if you are pulling the new depths from well records in the area or if you got the new water depth approximations from drilling?

Whichever one, could you send me an API # or #s of the nearby/offset wells you used or the completion report of 95-02588 to have that entered each of the SHR 37 applications.

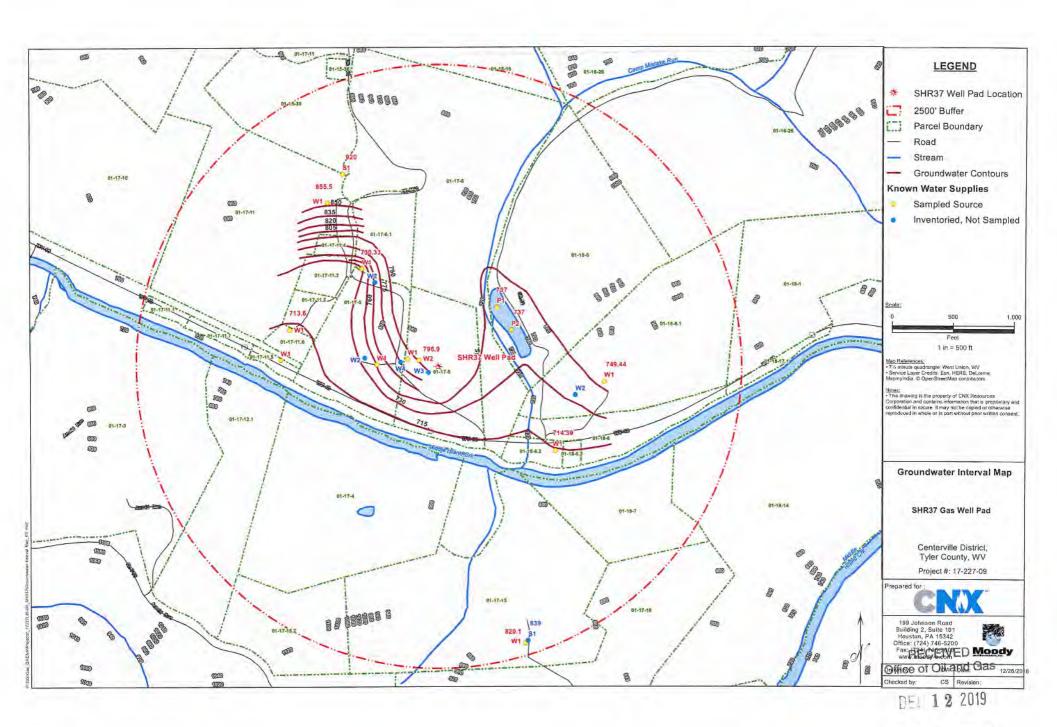
Everything looks good in terms of the WW-6B and the casing plan.

Thank you,

Wade A. Stansberry
Environmental Resources Specialist 3
West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 ext. 1653
(304) 926-0452 fax
Wade.A.Stansberry@wv.gov

RECEIVED
Office of Oil and Gas

DEC 1 2 2019



National Flood Hazard Layer FIRMette

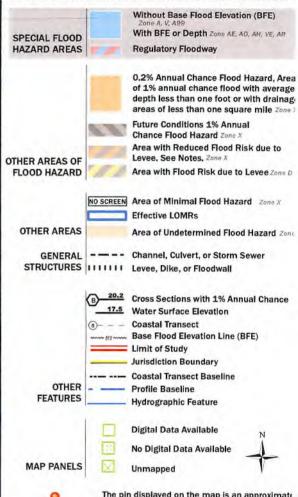
250

500



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



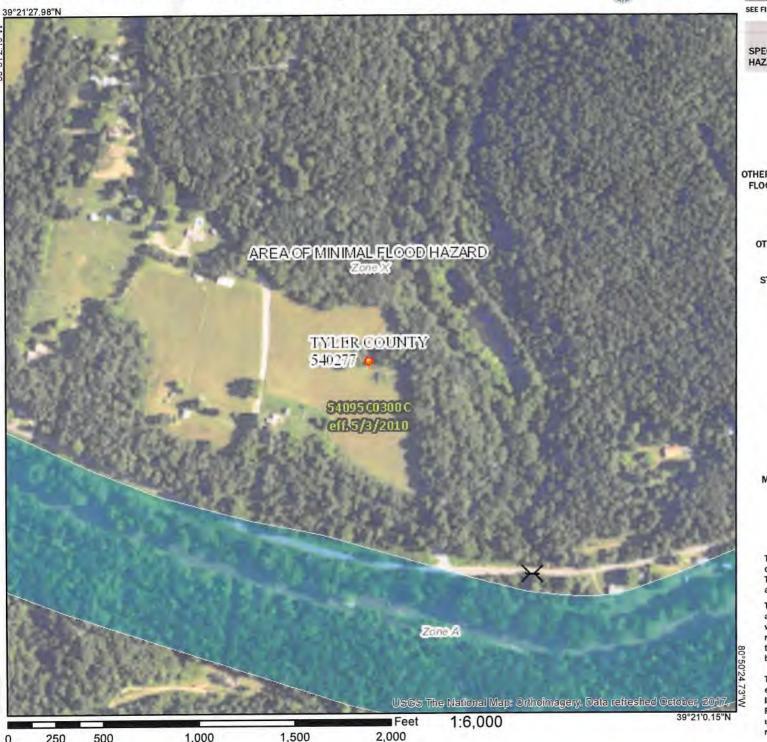


The pin displayed on the map is an approximate point selected by the user and does not represe an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/19/2018 at 11:31:08 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.





SHR37 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 SHR37 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.

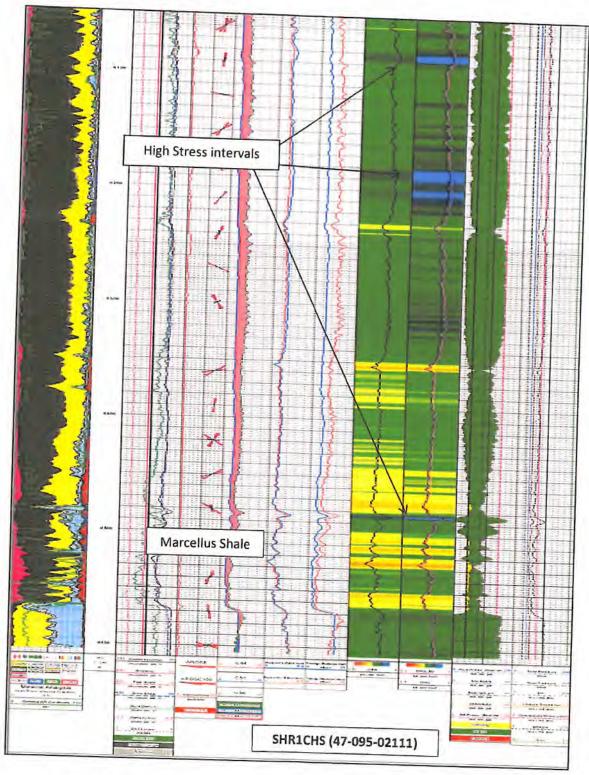
RECEIVED
Office of Oil and Gas

DCT 1 8 2019

SHR37 Pad Frac SOG Review / CRSD Review Tuesday, March 12, 2019



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.



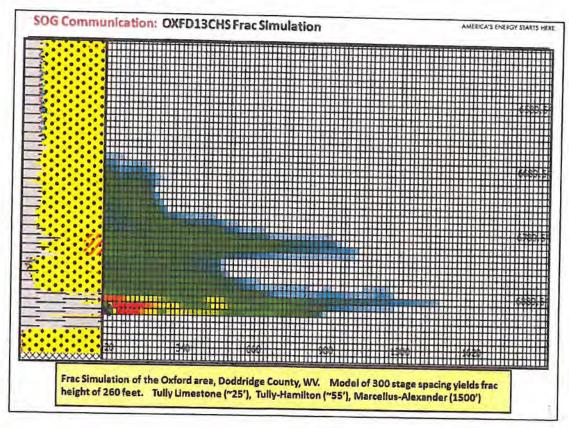
RECEIVED Office of Oil and Gas

OCT 1 8 2019

2 | Page



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.



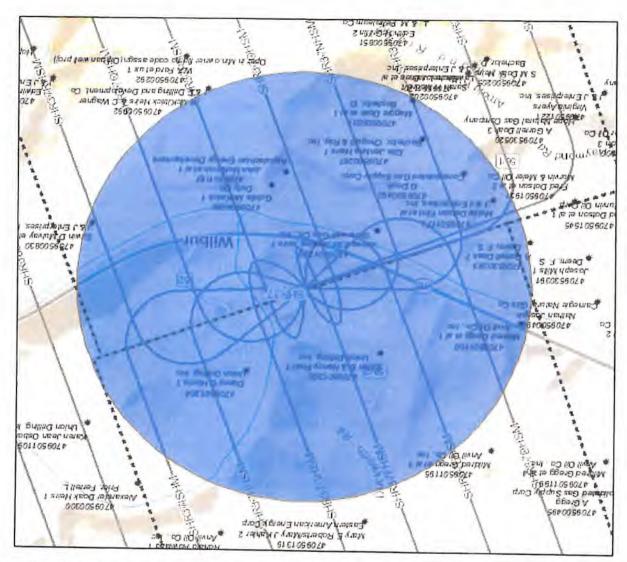
RECEIVED
Office of Oil and Gas

OCT 1 8 2019



Figure 3. All wells within a 2640' buffer around the SHR37 pad center have been reviewed and listed below.

				-		Pare 115th	WELL NAME	SUTAT2	ROTARAGO	TOWERTODE	30UNTAJ	AINOGO	SIAIC	Lave
COMMENTS	FIELD NAME	ELEVATION	GLWI	O1	PLUG DATE	ON 7724		585	Consolidated Gas Supply Corp.	-80.85201064	39,34947696	Tyler	- AM	760006004
Ground Level	Unnsamed	799	wenps	9767			AGO D			78020248.08-	29.34683572	19lyT	AAN	Z660056049
	Wilbut	096	no2had	2014			R MCKITISK Heits & C Wagner		1.6. E Drilling and Development, Co.	EC8E8848.08-	89.15527799	Tyler	AM	4709501200
Ground Level		553	no2h98	7527		I	Elden E & Nency Pratt	585	חשוסט מנווווטפר ושכי				VW	082005607
guonua revel	Milbur			545	6561/22/5	T.	Goldle McKitrick	hia	na you	28688AA8.08-	39 34991182	Tyler	2.55	
Ground Level	Wilbur	STS	Ist Cow kn/Moundsvie			1	ls te kantikaM ndot	860	Appalachian Energy Development	8660558.08-	£8947676'6E	Tyler	AM	491105604P
Ground Level	anglia.	818	penson	9967		-		285	Deem, F. S.	66225463.06-	\$9.35169904	30181	AM	4709530393
Ground Level	yainst	7007	(µipun) un(u) 319	SITO		1	Acod lientob A	_	Bachelor, D.	69556608 08-	\$\$921746.66	Tyler	AM	4200055047
Field Topo May	Wilbut	60TT	15: Cow Rn/Moundsyle	1193	\$56T/9/QT	T	la 19 Asod 91335M	Mg		28303648.08-	E728225.8E	Tylet	AM	\$000000£
Ground Level	Milbur	\$77	Benson	6TEP		I	Danny C Harris	500	Union Drilling Inc.	89554058.08-	IQIBEBAE.06	19lyT	AM.	4920026074
	Milbut	DEOT	1st Cow Rn/Moundsyle	1103	8561/11/7	1	Ellis Jenkins Heirs	No	Bachelor, Choguill & Ray, Inc.			19/41	AW.	£221096047
Ground Level	wditw	990	Benson	\$565		t	shad aniknat alila samat	160	Stonewall Gas Co., Inc.	E/819819 08-	Zetaetes es	-	AM	141105604#
Ground Level			1sbnexslA	6915			Mattie Dotson Flint et al	599	1 & 1 Enterprises, Inc.	Satetees da-	9934EDCE.PE	19/101	_	4709560630
PLORUD FENE)	Wilbur	876		9515			Edwin D Mulvay et ux	665	1 & 1 Enterprises, Inc.	86642458 08-	14981188 68	Tyler	AAA	
PLOQUE TEVEL	JuditW.	008	19bnsx9lA		-	1	Mildred Gregg et al	260	Anvil Oil Co., Inc	1965242808-	39,35426208	19/41	- AM	OSTTOSEGEN
Ground Level	Milbur	779	uosuag	5627										



Office of Oil and Gas

OC1 I 8 2019

SHR37 Pad Frac SOG Review / CRSD Review Tuesday, March 12, 2019



Figure 4. All wells within a 500' buffer around the SHR37 pad have been reviewed and listed below. Pink highlights mean that no data exists for the well.

API 709501442	WV		LATITUDE		OF ENAIGH.	STATUS	WELL NAME	lover w	PLUG DAT	1 -	1	i salan	1
709570102		Tyler	39.53517	-80.8356774	the second secon	Canceled Permit		WELL	PLOG DAN	0		ELEVATION	COMMEN
701708452		Tyler	39,5753024		TO THE PROPERTY OF THE PARTY OF	Gas	Laura Conaway	1	-	0	-	804	
		Daddridge		·\$0.8556774		Canceled Permit	Che. C Colle May	-	-	-		755	Ground Le
701771435	-		59,3305663		Hope Natural Gas Company	not available	Elles Thomes	-	-	0		804	
701704570	-		39.3185292			not evailable	McKendry Dotson I	-	-	0		271	
709550890		Tyler	39.3383578	-80.8529416	Hope Natural Gas Company	not available	Robert Dook	1		0		958	
701771456	-		59 5369733		unknown	notavelleble	McCutchen-Haines I	+ -	-	0		1116	Spirit Lev
709500044	WV	Tyler	59.5951788			notavallable	8.5 Smith	1	-	0		930	
701704186	-		59.3257924		Ritchie Petroleum Corp.	notavallable	Brake Samuel 1	1		0		E16	Ground Le
701771447	WV		59.5211421		Hope Natural Gas Company	not evellable	Lowrence James	-		D		1031	
701701082	WV		39.5220222		Prior, Ferrel L DBA Prior Oll Company	net available	W H Pigott 1	-	-	D		885	
701771448	WV		59.5107061	-80 8396799	unknown	not evallable	5 Yeater	+	-	0		950	
701703945	WV	Doddridge		-80.8336774		Wet B'AB LIBRATE	3.16016	-		C		751	
701771435	WV	Doddridge	59.3872654	-80 83352	Hope Natural Gas Company	not eval(able	34/2-2-1-	-	-	C		904	
709550160	WV	Tyler	39,5281125	-80.8464037	Hope Construction & Refining	not eveliable	Wegner £ M Jackson	-	-	0		746	
01771438	WV		39.5501405	-80.833294		not evallable	E M Jackson	7	-	0		1115	Ground Le
701771429	WV	Doddridge	39 3252054	-80.8460267	unknown	not available			-	0		752	
701771427	WA	Doddridge	59.8230282	-80.8376269	Oper in Min.owner fid.no code assgn(Orphan well proj)	not available	Cisco Dotson			0		989	
09500292	WV	Tyler	39.3458127	-80.8411859	Oper in Min pwner fid no code assgn(Orphan well proji		Mary Montgomery 1			D		790	
701771426	WV	Doddridge	39.5257864	-80.0411738		not available	W A Ford et us	1		0		841	Spirit Lev
01703401	WV	Doddridge	39.33317	-80.8556774	Unitably to the	not available	Cisco Dotson 1			0		1040	
01750835	WV	Doddridge	39 3211415	-80 8400518	unknown					D		B04	
09501499	WV	Tylet	39.33517	-50.8536774	CHARDOWN	not available	5 Yeater			0		786	
01704399	WV		89 38517	-BO 8336774						0		804	
01771425	WV		59 5228854	+BD 843786E	unknown					0		804	
09501159	wv	Tyler	59.58317	-80.8336774	unanown comme	not available	Ariington Dotson 2		2000	0		819	
01705945	WV	Doddridge	39.83317	-50.8336774						0		804	
01730182	WV		59 3189643	-80.5422938				1	1	0		804	
01771434	ww		39.3527524	-80,8393059	Philadelphia Oil Co.	not available	F Dotson			0	1	840	
09530158	wy		39.5286925	-80.8481707	riope Natural Gas Company	not available	Wagner		1	0		554	
01771481	WV		39.5295605	-80.8445558	Hope Construction & Refining	not available	EM Jeckson	3		0		1197	Spirit Leve
01703944	wv	Doddridge	39.53317	-80.8956774	· unknown · · · · · · ·	not evallable	Alfred Dotson 1			0		1087	
08505470	WV	Ritchie	39.55517	·90.8356774						D		804	
09500280	W/V		39,3499118	-90.9556774						0		804	
09500715	WV		39.5595255		Duty OII	Dry	Gold e Mexitrick	1	9/22/1959	945	1st Cow Rn/Moundsvie	818	Ground Lev
09500202	WV	-	39.5462759	-90.8587489	Industrial Gas Associates	Dry	W Paul McCutchen	5	sbandoned	948	Lo Front Sa/Front Sa	790	Ground Les
09500205	WV			-90.9521136	Bachelor, D	Dry	Sarah H Moore	1	8/14/1951	1096	1st Cow fm/Moundsvie	1084	Ground Lev
09500267	WV		39,3458049	-80.8528376	Bechelor, D.	Dry	5 M Doel Heirs	1	11/29/1951	1100	Mehonig Ss/Big Dunk	1036	Ground Lev
09500057	-		59.3483819	-SD.8503527	Bachelor, Choguill & Ray, Inc.	Dry	Ellis Jenkins Heirs	1	4/9/1958	1103	1st Cow Rn/Moundsvie	1098	Ground Lev
	WV		39.3471569	-80.8499557	Bachelor, D.	Dry	Maggie Doak et e	1	11/4/1955	1193	1st Cow Rn/Moundsvie	_	Field Topo N
01701070	WV		59.3210802	-\$0.8390849	Prior, Ferre LDBA Prior Oil Company	011	D Garner 1			1792	Big Injun (und iff)	728	Ground Lev
01730056	WV		59.5356704	-80.83464	Hope Natural Gas Company	Gas	Austin Dosk			1800	Big injun (und)ff)	759	Ground Lev
09500300	WV		39.3595159	-80,839415	Frior, Ferrell L	Gas	Alexander Dook Heirs	1	1 - 1	1536	Big Injun (undiff)	785	Ground Lev
01700014			39.5228924	-80.8457858	Faley DII & Gas	Dil and Gas	Arthur Yeater	2		1845	Big Injun (undiff)	775	Ground Lev
09500288	WV		59,5394627	-80.8472267	Oper in Min owner fld no code assgn(Orphan well proj)	Gas	Dole Ash	1		1849	Big in un (und iff)	857	Ground Lev
01701092			59.3212513	-90.8412965	Hickman, Charles L.	Dry w/ O&G Show.	Arlington Dotson Hrs 5	1	1964	1865	Big injun (undiff)	750	Ground Lev
01730101			39.3320285	-90.88464	Deem, F. S.	Oil and Gas	Henderson Walton	1		1980	Big injun (undiff)	802	Ground Lev
01750445			39.3183965	-9D.E426678	Clifton Oil & Gas	Oil and Gas	McKendry Dotson	1 2		1892	Big Injun (undiff)	B20	Ground Lev
09500393	WV	Tyler	59.3557067	-50.8628425	Mann Drilling	0.7	H & Smith & Ash	1		1900	Big Injun (undiff)	805	Ground Lev

RECEIVED
Office of Oil and Gas

(CT 1 8 2019

SHR37 Pad Frac SOG Review / CRSD Review Tuesday, March 12, 2019

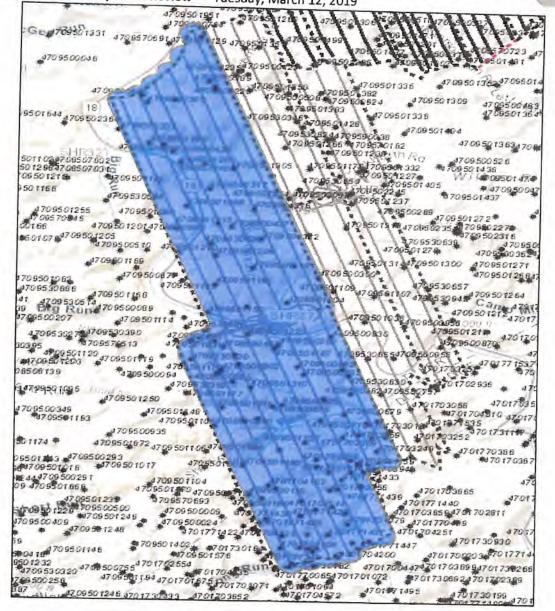
0	NW
6	N. J.

4709570189	-WV	Tyler	39 336913	6 -8D 8544647		// Ividicii	12, 2015			- 1		ALCON AN
4709500492	.WV	Tyler	39.349477		rimeerprine company, the	Gas	W N Moore		lina		-	
4701700204	WV	Doddr)dae			carried and supply Corp.	Ges	G Doeb		1901	Big Injun (undiff)	530	Ground Lev
4709530526	WV	Tyler	39.364170		P & M DII Co.	Dry w/ D&G Sho		1		Squew	862	Ground Lev
4701730160	wv		39,332463		THIS DOT BY CO.	Ges w/ Oil Show	Nosh & Laura Duckworth	1 2	1916	Big injun (undiff)	883	Ground Lev
701731194	WV		39.326656		Tope fretore des company	GES	E A Hendershot	1	1923	Big injun (und)ff)	898	Ground Leve
701750277	wv		39.3272425		Trighting Cheries L	Oil and Gas	Cisco Dotson	1	1930	Big injun (undiff)	870	Ground Lev
701701065	WV		39.318595		Hope Construction & Refining	Dil w/ Gas Show	Austin Doal	1	1973	Big Injun (undiff)	961	Ground Lev
701780102	WV		39.8320284		Prior, Ferrell L DSA Prior Oil Company	Oil w/ Gas Show		-	1978	Squaw	935	Ground Leve
701730286	wv				Deem, F. S.	Oll and Gas	Okey Washburn		1985	Big injun (undiff)	1010	Ground Leve
709500428	WV		39.5390824		Clifton Oil & Gas	Gas w/ Oil Show			1967	Big injun (undiff)	816	Barometer
709550520	-	Tyler	39.3767876		Warren Drilling Co. (John R. Warren)	Gas w/ Dil Show		1	2010	Big injun (undiff)	1053	Ground Leve
09550898	WV	Tyler	39.547639		Hope Natural Gas Company	Gas w/ Oil Show	Dale Ash	1	2052	Welt	720	Graund Leve
	WV	Tyler	59.551699		Deem, F. S.	Gas	A Gorrell Doak		2105	Big Injun (undiff)	1072	Ground Leve
01702359	WV				Industrial Gas Associates		A Gorrell Dook	7	2110	Big Injun (und H)	1092	Ground Leve
701702356	WV	Doddridge	39.5294574	-80.8375199	industrial Gas Associates	O) and Gas	LG Hemmer 1		2300	Weit	916	Ground Leve
09500679	WV	Tyler	39.3402015	-80.635698	Industrial Gas Associates	Oil and Gas	N Shepherd 1		2503	Welt	920	Ground Leve
01702514	Wy	Doddridge	59.5270163	-90.8370789	industrial Gas Associates	Dil and Gas	Hattle Bradford	2	2315	Weir	750	Ground Leve
09500851	W	Tyler	59.3445459		L & M. Petroleum Co.	Oil and Gas	Paul James 1		2590	Weir	1000	
09500676	WV-	Tyler	39.3411227	-80.9452956	Industrial Gas Associates	Gas	Edith H Griffin	2	2465	Beren Ss	1010	Ground Leve
09550600	WV	Tyler	59.5422726			Oll and Gas	Peul McCutchen	1	2466	Fifty-foot		Ground Leve
09501931	WV	Tyler	39.3508471	-80.8563066	Hope Natural Gas Company	Gas	W P Bradford		2495	Gantz	950 862	Ground Leve
01701079	WV.		39.3246812	-80.834929	Murvin & Meler Oil Co.	Dry W/ Gas Show	Fred Dotson et al	2	2531	Berez St	-	Ground Leve
09500220	WV		39.3861746		Prior, Ferrell L DBA Prior Oil Company	Dry	Elizabeth Thomas 1	100	2553	Big Injun (und)ff)	989	Kelly Bushing
9500400	WV		59.3779476	-90.8604265		Dry w/ O&G Show	Diey R & Ora Nelson Moore	1	2605	Gordon	771	Ground Leve
09530680	WV		39.3456086	-80.8352D1	Quaker State Oil Refining Co.	Dry w/ O&G Show	Dale Ash Jr	1	2510		752	Ground Level
09500813	WV		39,3661544	-SD.8585535	Hope Natural Gas Company	Gas	William Smith		2922	Weir	\$16	Ground Leve
09501150	wv		39.3542621		L & M. Petroleum Co	Gas w/ D// \$how	Frank Dillion	1	3400	Fifth	745	Ground Level
9501298	wv		39.3753365	-80.8542536	Anvil Oil Co. Inc	Ges	Mildred Gregg et al	1	4795	Warren First	810	Ground Leve
	wv			-80.8581836	Coastal Corp, The	Ges	Randall & Doretta Ash	1		Senson	719	Ground Level
_	WV		39.5718094	-90.9542587	Coastal Corp. The	Ges	Duane & Sandra Clark	8	4858	Benson	729	Ground Level
_	-		89.3494768	-90.9450998	Appelechien Energy Development	Gas	John McKitrick et al		4859	Benton	737	Ground Level
	WV		59.3628183	-80.8383655	Any(10) Co., Inc	Gas	David Gregg et al	1	4866	Benson	818	Ground Level
	WV		99.3558579	-90 9436069	Union Drilling, Inc.	Gas		6	4892	Benson	7.46	Ground Level
	WV			-80.845851P	Coastal Corp. The	Gas	Danny C Harris	1	4919	Benson	778	Ground Level
	WY		39.3780926	-80.8624815	Coastal Corp. The	Gas w/ Oil Show	Duane Clark et al	1	4928	Benson	758	Ground Leve
	WV		59.555278	-80.8488367	Union Drilling, Inc.	Ges W	Reigh Ash et ux	2	4927	Benson	727	Ground Leve
	WV	Doddridge :	39.3368604	-80.635761	Stonewall Gas Co., Inc.		Elden E & Nancy Pratt	1	4927	Benson	833	Ground Level
	WV	Tyler	59 5513619	-80.8486487	Stonewall Gas Co., Inc.	Ges	Char Stinespring		4951	Benson	552	Ground Level
9501316	WV	Tyler		-80.8491789	Eastern American Energy Corp.	Ges	James Ellic Jankins heirs	1	4954	Benton	850	Ground Level
	WV.	Tyler :		-90.8537017	DAC Inc.	Gat	Mary E Roberts/Mary 1 Kehler	5	4954	Benson	859	Ground Level
9501224	WV.	Tyler		-80.8426739	ANVII OII Co., Inc	Gas	Marc A Massulla et us	1	4955	Benson	B77	Ground Level
-	_			- CANADA	ANYTHOU CO, INC	685	Fonald Rowland	- 1	5010	Benson	863	Ground Level

RECEIVED Office of Oil and Gas

OCT 1 8 2019





RECEIVED
Office of Oil and Gas

OCT 1 8 2019

SHR37 Pad Frac SOG Review / CRSD Review Tuesday, March 12, 2019

6	9	NW
N.	9	ALLA.

470950131	5 WV	Tyler	20 366870	-90.6529497	Tucsua	y, ivial CII	12, 2019						
470950099		Tyler	39.346535		Eastern American Energy Corp.	Gas	Mary E Roberts/Mary J Kahler	-				_	
470950130	5 WV	Tyler	39.374710		1 & E Drilling and Development, Co.	Gas	R McKitrick Heirs & C Wagner	2		5014	- Benson	917	Ground Le
470950120		Tyler	39.3349756	44.444427	Coastal Corp. The	Gas w/ Oil Show		-	7	5014	Benson	960	Ground Le
4709501205	_	Tyler			Stonewall Gas Co., Inc.	Gas		7		5016	Benson	830	Ground Le
4701702787		Doddridge	39.3623832		Anvil Oil Co., Inc	Ges	Charter D Stinespring	1		5056	Benzon	1007	Ground Le
709500783		Tyler	39.5232243	00.0-00-00	J& JEnterprises, Inc.	Ges	David C Gregg et al	5		5065	Benson	891	Ground Le
709501522		Tyler	39.3430745		J & J Enterprises, Inc.	Gas	Lishepherd			5070	Alexander	900	Ground Le
709501311			39.3647041	-80.8471578	Eastern American Energy Corp.	Gas	Delmer Mulvay		401-	5100	Alexander	750	Ground Le
709501511		Tyler	39.3409208		Eastern American Energy Corp.	Gas	Mary E Roberts/Mary J Kahler	1		5127	Benson	910	Ground Le
709500650	-	Tyler	39.3841627	-80.5589336	Coastal Corp. The	Gas W/ Oil Show	Lawrence & Theima tames	- 4		5180	Alexander	800	Ground Le
709501319		Tyler	39.3511867	-80.93758	J & J Enterprises, Inc.		George W & Carolyn Moore	1		5133	Benson	965	Ground Le
	-	Tylet	59.3606431	-80.9482778	Eastern American Energy Corp.	Ges	Edwin D Mulysy et us			5136	Alexander	800	
701705829			59.3536705	-80.8393089	Stonewall Gas Co., Inc.	Ges	Mary E Roberts/Mary) Kahler	2		5141	Benson	993	Ground Lev
709501669			39.3390357	-80.8490197	DAC, Inc.	Gas	Charter Stinespring 3			5150	Benson	1042	Ground Lev
709501495			39.3327536		Nugent & Sans, Inc.	Ges	Leonard & Renie Smith	-1-		5175	Benson	1051	Ground Lav
701704124			39.5246325	-90.8467757	Key Oil Co.	Ges	Marice J Carlisle/Ralph Thacker	2		5180	Alexander	507	Ground Lev
701702954	_		39.3261573	-80.835354	J & J Enterprises, Inc.	Ges	Samule J Brake 2			5216	Alexander	902	Ground Lev
701703018	WV	Doddridge	59.5593254	-80.8312561	J & J Enterprises, Inc	Gas	Lonnie James			5267	Altkander		Ground Lev
709501557	WV		39.3361355	-80.8408029	Key Oil Co.	Ges	W P McCutchen			5505	Alexander	995	Ground Lev
701703389	WV	Doddridge	39.3223121	-80.831994	J & J Enterprises, Inc.	Ges w/ Oil show	Robert E Burgess Sr	1.1		5321	Alexander	920	Ground Lev
01704161	WV	Doddridge	59.5295633	-BD.836521		Gas	Lilames			5321	Alexander	1020	Ground Lev
709500620	wv	Tyler	39.5846178	-80.8634185	Key Oil Co.	Gos	Lonnie James 1			5336		866	Groundley
701704200	WV		59.3198462	-80.5361389	Triad Hunter, LLC	Ges	Kenneth Singlein	_		5357	Alexander	962	Ground Lev
01705249	WV		59.3349753	-80.8312541	Murvin Dil Corp.	Gas	Cari G James 1			5550	Alexander	790	Ground Leve
01704126		Doddridge		-80.8439748	J & J Enterprises, Inc.	Ges	W P Bush et us			5868	Alexander	1043	Ground Leve
09500925	WV			-80.8439708	Key Oil Co.	Gas	Carroll Shepherd 2	_		5375	Benson	365	Ground Leve
01704123	WW			-80.5411748	# 8.1 Enterprises, Inc.	Gas	W Paul McCutchen				Alexander	1030	Ground Leve
09501171	wv	-		-90.8531316	Key Oil Co.	Gas	Samuel J Brake 1	-		5428	Alexande	1025	Ground Leve
09501510	wv				J & J Enterprises, Inc.	Gas	Mattie Dotson Flint et al	-		5436	Alexander	1079	Ground Leve
09500831	wv		39.3465506	-90.8482757	Eastern American Energy Corp.	Ges	Lawrence L & Theims E James	-		546P	Alexande:	948	Ground Leve
09501170	wv			-90.836001	J & J Enterprises, Inc.	G#:	Edwin D Mulvay	- 5		5490	Alexender	1065	Ground Leve
01704162			09.5459969	-80 9523826	J & J Enterprises, Inc.	Ges	Lawrence Liames et al			5512	Alexander	540	Ground Leve
9501195	WV			-80.8456567	Key Oil Co.	Gas	Lonnie James 2			5530	Alexander	1052	Ground Leve
	WV			-50,5531356	Anvil Oil Co., inc	Gas		-		5532	Alexander	1170	Ground Leve
	_			-90,9572466	Kepco, Inc.	Gas	Mildred Gregg et al	3		5578	Brallier	925	Ground Leve
09300427	wv	Tyler	9.3664922	-80.8511807	Ouzker State Oil Refining Co.	Dry w/ O&G Show	The ma Ferguson et al			5656	Rhinestreet 5h	729	Ground Leve
						- I W DEG SHOW	C D Cotthill	1	9/17/1955	6816		957	Ground Level

RECEIVED
Office of Oil and Gas

OCT 1 8 2019

Environmental Protection WV Department of

RECEIVED
Office of Oil and Gas

WW-9 (4/16)

API Number 47 -	+
Operator's Well No.	SHP37EUSM

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 Q	uadrangle West Union
Do you anticipate using more than 5,000 bbls of water to complete the Will a pit be used? Yes No V If so, please describe anticipated pit waste: no pits	proposed well work? Yes V No
Will a synthetic liner be used in the pit? Yes No _	If so, what ml.? NA
Proposed Disposal Method For Treated Pit Wastes:	
Land Application Underground Injection (UIC Permit Numb Reuse (at API Number Pens3 and Pens21 wells Off Site Disposal (Supply form WW-9 for Other (Explain No Pits	
Will closed loop system be used? If so, describe: Yes	
Drilling medium anticipated for this well (vertical and horizontal)? A	r, freshwater, oil based, etc. Ventual as from squidbufface to surve Mote off point (MCP). Horizontal: synthelic oil-based mud (SOBM) from curve KOP to lateral TD
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Bactericide, Polymers, and Wei	ghting Agents
Drill cuttings disposal method? Leave in pit, landfill, removed offsite,	etc. Land Application of soil conductor cortings only, all other cuttings will be taken to an approved Landfill
-If left in pit and plan to solidify what medium will be used? -Landfill or offsite name/permit number? See attached.	(cement, lime, sawdust) N/A
Permittee shall provide written notice to the Office of Oil and Gas of a West Virginia solid waste facility. The notice shall be provided within where it was properly disposed.	
on August 1, 2005, by the Office of Oil and Gas of the West Virginia provisions of the permit are enforceable by law. Violations of any to law or regulation can lead to enforcement action.	erm or condition of the general permit and/or other applicable ined and am familiar with the information submitted on this may inquiry of those individuals immediately responsible for curate, and complete. I am aware that there are significant
Subscribed and sworn before me this day of OC	Notary Public
My commission expires September 23, 2000	

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL Todd Fleming, Notary Public Cecil Twp., Washington County My Commission Expires Sept. 23, 2020 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES



notice profession and an entire

io Argentiacist. Vivi

Office of OH suc Cas

ા મામલે જેવિક્ષા સામાનું કરો તમાર કરા, તમારે જેવે પાસ્ત્રિક સામાનું કરો તમાર કર્યું કરો

and the last party bearing

grander i Brandiffi i Statisti na citati ka in distri

and the state of the state of the control of the state of

i digi garan tanggan garan kenggan penggan digi di anggan penggan panggan penggan bermadi pinik man Digi penggan bermadi penggan penggan digi anggan penggan digi penggan penggan penggan penggan penggan penggan Digi penggan p Digi penggan p

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Todd Fleming, Notary Public
Cecil Twp., Washington County
My Commission Expires Sept. 23, 2020
Member, Pennsylvania Association of RC Pries

Proposed Revegetation Treatm	nent: Acres Disturbed 1	5.57 Prevegetation	pH 6.5
Lime according to pH t	test Tons/acre or to correct	et to pH 7.0	
Fertilizer type 10-20)-20		
Fertilizer amount 50	0	lbs/acre	
Mulch hay or stra	w @ 2	_Tons/acre	
		Seed Mixtures	
Tem	porary	Pern	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
ttach: Iaps(s) of road, location, pit a rovided). If water from the pi creage, of the land application	and proposed area for land t will be land applied, inc n area.	I application (unless engineered plans include dimensions (L x W x D) of the pit, a	luding this info have
Attach: Maps(s) of road, location, pit a rovided). If water from the pi creage, of the land application that the process of the land application of involved the complete section of involved the comp	and proposed area for land t will be land applied, inc n area.	l application (unless engineered plans inc	luding this info have
Attach: Maps(s) of road, location, pit a rovided). If water from the pi creage, of the land application photocopied section of involved lan Approved by:	and proposed area for land t will be land applied, inc n area.	l application (unless engineered plans inc	luding this info have
Attach: Apps(s) of road, location, pit a rovided). If water from the picreage, of the land application hotocopied section of involved lan Approved by:	and proposed area for land t will be land applied, inc n area.	l application (unless engineered plans inc	luding this info have
Attach: Apps(s) of road, location, pit a rovided). If water from the picreage, of the land application hotocopied section of involved lan Approved by:	and proposed area for land t will be land applied, inc n area.	l application (unless engineered plans inc	luding this info have
Attach: Maps(s) of road, location, pit a rovided). If water from the picreage, of the land application thotocopied section of involved lan Approved by:	and proposed area for land t will be land applied, inc n area.	l application (unless engineered plans inc	luding this info have
Attach: Maps(s) of road, location, pit a rovided). If water from the picreage, of the land application thotocopied section of involved lan Approved by:	and proposed area for land t will be land applied, inc n area.	l application (unless engineered plans inc	luding this info have
Attach: Maps(s) of road, location, pit a rovided). If water from the pi creage, of the land application photocopied section of involved lan Approved by:	and proposed area for land t will be land applied, inc n area.	l application (unless engineered plans inc	luding this info have
Attach: Maps(s) of road, location, pit a	and proposed area for land t will be land applied, inc n area.	l application (unless engineered plans inc	luding this info have
Attach: Maps(s) of road, location, pit a provided). If water from the picreage, of the land application photocopied section of involved lan Approved by:	and proposed area for land t will be land applied, inc n area.	l application (unless engineered plans inc	luding this info hav
Attach: Maps(s) of road, location, pit a provided). If water from the picreage, of the land application photocopied section of involved lan Approved by:	and proposed area for land twill be land applied, inch area. Ed 7.5' topographic sheet.	l application (unless engineered plans inc	luding this info h

RECEIVED
Office of Oil and Gas

OCT 1 8 2019



Sarah Weigand Manager Upstream Permitting Work: 724-485-3244 Email: sarahweigand@cnx.com 1000 CONSOL Energy Drive Canonsburg, PA 15317-6506 724-485-4000

West Virginia Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Dear Sir or Madam:

Pursuant to West Virginia Code §22-6A-8(g2), CNX Gas Company, LLC is requesting an approval from the office to land apply cuttings associated with the drilling of the conductor (unconsolidated materials) on location for pad SHR37. CNX Gas Company, LLC is the surface landowner of parcel 01-17-0005 in Tyler County and therefore consents to this method.

The wells planned to be drilled on this pad are:

SHR37DHSM

SHR37EHSM

SHR37FHSM - 95-02445

SHR37GHSM

SHR37HHSM

SHR37IHSM

SHR37KHSM

SHR37LHSM

SHR37MHSM

SHR37NHSM

SHR37OHSM (API 47-095-02588)

SHR37PHSM

SHR37OHSM

SHR37RHSM

Sincerely,

Dard Weigand

RECEIVED Office of Oil and Gas

OCT 1 8 2019

RECEIVED
Office of Oil and Gas

TENORM Transfer/	Location	ocation Accepted Waste Streams								
Treatment/Downblending Facility	Location			Contact Information						
Austin Master Services – Freatment, Downblending, and Transfer Facility	Martins Ferry Facility	ОН	Non-radioactive material, low level radioactive material, (NORM/TENORM), and high level TENORM material handling, storage, downblending, transport/loading to rail, tank cleaning, radiological sampling/testing analysis/lab.	Office: 740-609-3800 Jack Bement CEO Austin Master Services LLC 355 Circle of Progress Potistown PA, 19464 Ph:(\$85) 704-2744 Fax: 484 624-5506						
Belmont Solids Control										
Buckeye Solids, Recycling, and Lab Facility	64054 Wintergreen Rd Lore City, Ohio 43725	он	Non-radioactive material, low level radioactive material, (NORM/TENORM), and high level TENORM material handling, storage, downblending, transport/loading to rail, tank cleaning, radiological sampling/testing analysis/lab.	Bill Dawson 740.591 4393 bill@buckeyebrine.com Billing Address 64054 Wintergreen Rd Lore City Ohio 43725						
Ground Tech LLC	240 Sinter Court, Youngstown, OH 44510	ОН	Non-radioactive material, low level radioactive material (NORM/TENORM), and high level TENORM material handling, storage, and transport. (TENORM downblending of low level TENORM material (≤ 85 pCi) on-site. High level TENORM (< 85 pCi) materials will be directed to Austin Master Services in Martins Ferry, Ohio by Ground Tech).	Office: (330) 270-9900 Larry Chamberlain 330-398-5919 Ichamberlain@iwe-ine.com						
Mud Masters LLC	64054 Wintergreen Rd Lore City, Ohio 43725	он	Non-radioactive material, low level radioactive material (NORM/TENORM), and high level TENORM material handling, storage, downblending, transport/loading to rail, tank cleaning, radiological sampling/testing analysis/lab. Non-radioactive material & radioactive material handling (NORM/TENORM), solids separation, material downblending, tank cleaning, radiological sampling/testing analysis/lab. Liquid/semi-solids treatment and separation for waste disposal.	Tom Meinert 740-255-u357 heavymudmasters@gmail.com Billing Address: 739 Southgate Pkwy, Cambridge Ohio 43725						
PETTA Enterprises LLC	38 Technology Dr Triadelphia, WV 26059 713 North Third Street, Cambridge	wv	Non-radioactive material, low level radioactive material (NORM/TENORM) material handling, storage, downblending, transport/loading to rail, tank cleaning, radiological sampling/testing analysis/lab. Non-radioactive material & radioactive material handling (NORM/TENORM), solids separation, material downblending, tank cleaning, radiological sampling/testing analysis/lab. Liquid/semi-solids treatment and separation for waste disposal.	Office: 740-341-6396 Kytic Feldner PETTA Enterprises Sales Representative 614-477-1368						
Pressure Tech	7675 East Pike Norwich, Ohio 43767	он	Non-TENORM wastes including cement water and oil or water based drilling mud only. Are not to accept waste that is known to have elevated levels of TENORM or compressor station water.	Bob Orr: 614-648-8898						
Secur - Bens Run Facility	160 Industrial Park Road, Friendly, WV 26146	wv	Non-radioactive material, low level radioactive material, (NORM/TENORM), and high level TENORM material handling, storage, downblending, transport/loading to rail, tank cleaning, radiological sampling/testing analysis/lab.	Melissa Adams 740-502-6039 melissa.adams@sccurlle.com						

^{*}NORM/TENORM = Naturally Occurring Radioactive Material /Technologically Enhanced Naturally Occurring Radioactive Material

Note: Contact the CNX - HSE Department when any hazardous water or material containing elevated NORM/TENORM is encountered to review proper handling, disposal requirements, and capabilities of approved facilities.

^{**}TSD = Treatment.. Storage, and Disposal. Facility

	CNX RESOURCES	SOU	RCES CORPORATION - HSE APPROVED HAZARDOUS WASTE DISPOSAL FACILITIES	
Hazardous Disposal Facility	al Facility		A constal Waste Streams	Contact Information
Disposal Facility	Location		Accepted waste outcomes	Contact Amorimation
ite Management	Model City	Ŋ	RCRA/TSCA Waste, PCB Transformers & Capacitors, PCB Soil/Debris, Non-Hazardous Wastes, Asbestos Waste, Solidification Services	Linda Davie: 716-286-0365 or 716-754-8231 or 800-963-4776

RECEIVED Office of Oil and Gas



OCT 1 8 2019

Republic Services (Allied Wa	iste)		Gas Spe	cific Waste	Streams				Other Accepted	d Waste Stream	ns				Laurent Lauren	
ndustrial Landfills Landfill	Location		Drill *	Waste Liners	Waste	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Sludge	Friable Asbestos	Non-Friable Asbestos	Process Waste	Solidification Services	Municipal Solid Waste	Contact Information	
Republic Services - Benson Va	Frankfort	KY I	X	X	Ditte	X	X	X	X	X	X	X		X		
Republic Services - Blue Ridge	Irvine	KY	X	X	2000	X	X	X	X	X	X	X	1 m	X		
Republic Services - Morehead		KY	X	X		X	X	X	X	X	X	X		X		
Republic Services - Green Val		KY	X	X		X	X	X	X	X	X	X	X	X		
Republic Services - Carbon-Li		OH	X	X		X	X	X	X			X	X	X		
Republic Services - Imperial	Imperial	PA				X	X	X	X	X	X	100		X		
Republic Services - Brunswick	Lawrenceville	VA				X	X	X	X	X	X	X		X		
Republic Services - King and C	Little Plymouth	VA				X	X	X	X	X	X	X	5	X		
Republic Services - Old Domin		VA	(C)			X	X	X	X	X	X	X		X		
Republic Services - Sycamore		WV	COOL	No.	10000	X	X	X	X			X		X		
Republic Services - Short Cree		WV	X	X	200	X	X	X	X			X		X		
VM - Arden Landfill	Washington	PA	X	X		X	X	X	X	1		X	X	X		
VM - South Hills (Arnoni)	South Park	PA	X	X			X	X	X	100	1	X	X	X	Customer Services 1 (866) 000 1110	
VM - Kelly Run	Elizabeth	PA	X	X		X	X	X	X			X	X	X	Customer Service: 1 (866) 909-4458	
VM - Valley Landfill	Irwin	PA	X	X		X	X	X	X	X	X	X	X	X	Control (200 months)	
WM - Evergreen Landfill	Blairsville	PA	X	X		X	X	X						X	Mark A. Thomas: 412-522-0610	
VM - Meadowfill Landfill	Bridgeport	wv	X	X		X	X	X	X	X	X	X	X	X	mthoma15/awm.com	
WM - Northwestern Landfill	Parkersburg	WV	X	X		X	X	X	X			X	X	X	Tom Farnsworth: C- 330-204-4244 F- 866-477-6117	
	Clarksburg	WV	X	X		X	X	X	X			X		X		
WM - American Landfill	Waynesburg	ОН	X	X	1000	X	X	X	X	X	X	X	X	X		
WM - Suburban RDF	Glenford	ОН	X	X		X	X	X	X	X	X	X	X			
	New Springfield	OH	X	X		X	X	X			X	X		X		
A 1-14 A MARCHANIC RESIDENCE			7													
Noble Environmental Landfill (Former Westmoreland Waste)	111 Conner Lane, Belle Vernon, PA 15012	PA	x	х		х	x	х		х	х			x	Customer Service: (724) 929-7694	
MAX Environmental (Bulger Facility)	Bulger, PA 15019	PA	х	х		х	х	Х	х				х	х	Corporate Office: 412.343.4900	
		1 1													Landfill Office: (740) 543-4389	
Apex Sanitary landfill (Apex Environmental)	11 County Road 78 Amsterdam, Ohio 43903	он	x	x		х	x	x	х	- 3			x	x	Joe Teterick; 740-275-2887 joet@els-company.com	
Rumpke, Mt. Sterling (Rumpke Consolidated)	30 Larison Rd, Jeffersonville, KY 40337	KY	x	х		х	х	x		х	x			х	Landfill Contact; (859) 498-1572 Carl Walter; 513-623-2471	
Laurel Ridge Landfill (Waste Connections of KY)	3612 E State Highway 552 Lily, KY 40740	ку	x	x		х	х	x		х	x	x		х	(606) 864-7996 or 866-428-4208 Bruce Crouch: Work: Cell: 606-219-0261	
Advanced Disposal - Chestnut Valley LF	Chestnut Valley 1184 McClellandtown Rd, McClellandtown, PA 15458	PA	x	x		х	х	х	х					х	Ph 724-892-2199 Fax 724-437-7378 Donald.Henrichs@AdvancedDisposal.com	
Advanced Disposal - Greentree LF	Greentree Landfill; 635 Toby Rd.; Kersey, PA	PA	x	x		х	х	X	x					х	Ph 814-265-1744 Fax 814-265-8745 Donald Henrichs @AdvancedDisposal.com	

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

X Waste stream accepted by facility.

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

Notes: New PADEP rules regarding "TENORM" testing requirement are pending.

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

RECEIVED
Office of Oil and Gas

OCT 1 8 2019

Unconventional or C	onventional Brine/l	Produced Fluid Wate	r Dis	posal	Accepted Waste Streams	Contact Information	
Company Name	Permit	Location		Coordinates	Accepted Waste Streams		
Buckeye Brine Injection Facility	34-031-27177-00-00 34-031-27178-00-00 34-031-27241-00-00	= 23986 Airport Road, Coshocton, OH 43812	ОН	40.301051 -81.851189	Brine (Produced Water)	740-591-4393 bill@buckeyebrine.com	
	VAS2D960BBUC	Buchanan Co.	VA				
	VAS2D930BBUC	BUC Buchanan Co.			The state of the state of	The second secon	
CNX Resources Corporation	VAS2D926BBUC				CNX Owned UIC SWIWs: Frac water, brine,	Contact Ops Groups	
CNX Gas)	VAS2D970BRUS	Russell Co.	VA		produced water	Contact Ope croups	
	34-013-2-0609 UIC #609	Barnsville, Bellmont Co.	ОН	1 3			
Camp Creek Disposal Services, Inc. (Gas Field Services, Inc.)	UIC: UIC2D0550319 API: 47-055-00319	200 Camp Creek Road, Camp Creek, WV 25820	wv	37.495138 -81.105161	Class II injection fluids that are in connection with conventional oil or gas production and may be commingled with waste waters from gas plants unless those waters are classified as hazardous wastes at the time of injection.	Zachery Reed zacheryr4@yahoo.com PO Box 555, Rosedale, VA 24280 Phone: (276) 880-2323	
Cambrian Well Services - Kemble (Orr Petroleum Corporation)	34-119-2-8780	Zanesville, Muskingum County, Perry Township	ОН	39.974954 -81.845389	Brine (Produced Water)	Bob Orr 740-796-6495 614-648-8898 orrpetro@gmail.com	
	34-009-2-3821		ОН	39.226075 -81.761403		Jeff Harper	
Central Environmental Services	34-009-2-3823	Troy Township, Athens County, Ohio		39.234815 -81.757167	Brine (Produced Water)	304-893-9978 Jeff Harper	
	34-009-2-3824			39.235082 -81.748312		jharper@centralenvironmentalservices.com	
	Issued: 9/24/2015	2341 State Route 821.		39.426278 -81.502379		Wes Mossor General Manager	
DeepRock Disposal Solutions	Issued: 12/21/2105	Building 11C, Marietta, OH 45750	ОН	39.425172 -81.507900	Brine (Produced Water)	DeepRock Disposal Solutions LLC	
	Issued: 12/21/2015			39.429867 -81.511020		Office: 740.371.5078 ext. 206 Cell: 304.588.093	
Environmental Energy Services LLC (Force, Inc.) - Pattison 1-D RECEIVED	34-119-2-8803	Muskingum County, Perry Township	ОН	39.973643 -81.825727	Brine (Produced Water)	Bryan Force Mobile: 412.289.0069 Office: 724.465.9399 bforce@forceincorporated.com or Bob Orr 740-796-6495 614-648-8898 orrpetro@gmail.com	

OCT 1 8 2019

EGO Water Solutions LLC - Mozena	34-157-2-5511	5367 E. State Street, Newcomerstown, OH 43832	ОН	40.283293 -81.578068	Brine (Produced Water)	Michael Chapin: Ph. 740-763-3966 Cell 740-403-9664 tantrummr@aol.com Robert Schenken Director Business Development HydroEdge Solutions Wisconsin White Sand rschenken@hydroedgesolutions.com Cell 412.295.3614
Greene County Water Treatment, Inc.	WMGR123SW010	401 Jefferson Rd. Waynesburg, PA 15370	PA		Oil and Gas Fluids with minimal oil and solids present	Gary Carpenter 267-246-6176 JRBGCarpenter@aol.com
Hydro Recovery	WMGR123SW019	572 Route 18 Burgettstown, PA 15021	PA		Oil and Gas Fluids with minimal oil and solids present	Ashley Cromley 570-394-4450 Ashley.cromley@hydrorecoverylp.com
Nuverra	34-059-2-4445-00 34-059-2-4473-00 34-119-2-8776-00	64036 Wintergreen Road, Lore City, Ohio 43755	ОН		Oil and Gas Fluids with any amount of oil and solids	Rob Bealko 304-291-0383 Office 304-282-8814 Cell rob.bealko@nuverra.com
Reserved Enivronmental Services (RES)	WMGR123SW005	1119 Old Route 119 South Mt. Pleasant, PA 15666	PA		Oil and Gas Fluids with minimal oil and solids present	Matt Kicinski 814-574-9701 mkicinski@reswater.com
Secur - Bens Run Facility	Regis Number: 483100	160 Industrial Park Road, Friendly, WV 26146	wv		Oil and Gas Fluids with any amount of oil and solids	Melissa Adams 740-502-6039
ShaleLogix LLC	34-007-21847	5035 State Rt. 46, Jefferson, OH 44047 (Ashtabula County, New Lyme Township)	ОН	41.613214 -80.782835	Brine (Produced Water)	Michael Alvetro cell: 330-307-5303
Silcor Oilfield Services, Inc.	34-059-24202	Cambridge, OH	ОН	39.993615 -81.572975	Brine (Produced Water)	Matt Brewer HydroEdge Solutions mbrewer@hydroedgesolutions.com (412) 439-7866
	NPDES - PA0095273	931 Bells Mills Rd, Josephine, PA 15750	PA	40.482410 -79.171193	Approved for treatment of conventional brine (produced water) only. (Not approved for unconventional waste	Jim Donovan 724.746.5300 x227 donovanj@fluidrecovery.com
Fluid Recovery Services	NPDES - PA0095443	5035 U.S. Route 110 West, Creekside, PA 15732	PA		Approved for treatment of conventional brine (produced water) only. (Not approved for unconventional waste	Jim Donovan 724.746.5300 x227 donovanj@fluidrecovery.com
RECEIVED	NPDES - PA0101508	5148 Rt. 322, Franklin, PA 16323	PA	41.373037 -79.798620	Approved for treatment of conventional brine (produced water) only. (Not approved for unconventional waste	Jim Donovan 724.746.5300 x227 donovanj@fluidrecovery.com

Office of Oil and Gas

OCT 1 8 2019

RECEIVED
Office of Oil and Gas

● OCT 182019

WV Department of Environmental Protection

Spe	ecialty Recycling		Waste Services	Contacts		
Company Name	Location		Provided			
Enviro Clean Services, Inc.	515 Industrial Blvd Wooster, OH 44691		Non-hazardous wastewater, transportation, treatment and disposal facility. Also offer transportation and solidification services.	Rishi Bhanot Director of Operations 330-264-8080 (O) rishi.bhanot@etcoh.com www.etcoh.com		
Ergon - Marietta Terminal	35020 OH Route 7, Newport, OH 45768	ОН	Oil purchaser and transportation.	Keith Britton, Purchasing: 330-284-4343 Tom Leyda, Transportation: 800-846-2550		
Everelear of Ohio	3700 Oakwood Ave., Austintown, OH 44515	ОН	Approved for non-haz water treatment of oil & water mix, oil, oil filters, and antifreeze only.	330-792-2120 www.everclearoil.com		
Heritage-Crystal Clean, LLC	Multiple Locations in Most States	Multi. State	Approved for non-haz water treatment of oil & water mix. Also offer transportation and solidification services. Capable of other types of waste disposal and handling with prior Environmental and Supply Chain approval.	Paul Reddington Heritage Crystal Clean, LLC 304,904,5020 paul.reddington@crystal-clean.com		
	Main Office - 1300 Georgia Avenue Bristol, TN 37620-4048	TN				
	Fleet Trucking Management NTC Acquisition Company - PO Box 875 Bristol, VA 24201	VA				
Necessary Oil Co.	Purchasing – Virginia (Roanoke Metro) Norfolk & Western Avenue Cloverdale, VA 24077	VA	Approved for non-haz water treatment of oil & water mix, oil, oil filters, and antifreeze only. Also offer transportation services.	Local Phone 764-4533 Toll-Free 800-764-4533 Fax 423-764-2175		
	Drum Services, Processing & Fleet Trucking - 111 East Mary St., Bristol, VA 24201 Solids Processing - 215 North Industrial Drive Industrial Park Bristol, TN 37620	VA TN				
Petromax, Ltd.	301 Prestley Avenue, Carnegie, PA 15106	PA	Approved for lubricants, coolants, pipeline pressure fluids, transmission fluids, oil, and oily water. PA Residual Waste Processing and Transfer Facility Permit # 301294 PA DEP Facility ID 30-23918 NPDES Stormwater Permit # PAR706105 EPA ID # PAD98268458 CWT Discharge Permit # P2-0102	Adam Hall 412-279-9040 412-276-2011 Fax: 412-279-9041 Cell: 412-554-0233 ahall@petromaxltd.com		
Spirit Services, Inc.	15801 Lockwood Road, Williamsport, MD 21795	Multi. State	Approved for non-haz water treatment of oil & water mix. Also offer transportation and solidification services. Capable of other types of waste disposal and handling with prior Environmental and Supply Chain approval.	1-866-670-9034 Joe Staton 717-360-7916 Office: 301-223-1251 Fax: 301-223-1253 jstaton@spiritservices.com		
	401 Industrial Drive, Franklin, OH 45005	он		Corporate Number: 734-442-2353		
Valicor Environmental Services LLC	1045 Reed Dr, Monroe, OH 45050	ОН	Approved for non-haz water treatment of oil & water	www.valicor.com or Steve Atkinson		
(Formerly United Wastewater)	515 N. 8th Ave, Huntington, WV 25201	wv	mix, oil, oil filters, and antifreeze only.	937-746-7944		
1	11807 Reading Rd, Cincinnati, OH 45241	ОН		304-522-8028 SAtkinson@valicor.com		

Note: Facilities approved for disposal/treatment of oily water mixtures only unless otherwise indicated.

Landfill	Location		Municipal Contact Information Solid Waste	
Cumberland Plateau Regional Authority - Buchanan County	Buchanan County	VA	х	They transfer municipal waste to Advanced Disposal – Tennessee Landfill Eco Safe MSW Landfill (See above)
Fazewell County (TC) Landfill 1475 Lynn Hollow Rd, North Tazewell, VA 24630	Route 649 Gratton, VA 24651	VA	х	(276) 988-4003 or Chris Hurley: 276-988-4310 or Megan Hurley mhurely@tazewellcounty.org (276)-988-1200
Buchanon County Landfill	Oakwood, VA 24631	VA	x	Customer Service: (276) 498-4403

Note: Waste Management and Republic Services landfills should be utilized instead of these Municipal Solid Waste Landfills when possible.

RECEIVED Office of Oil and Gas

OCT 1 8 2019

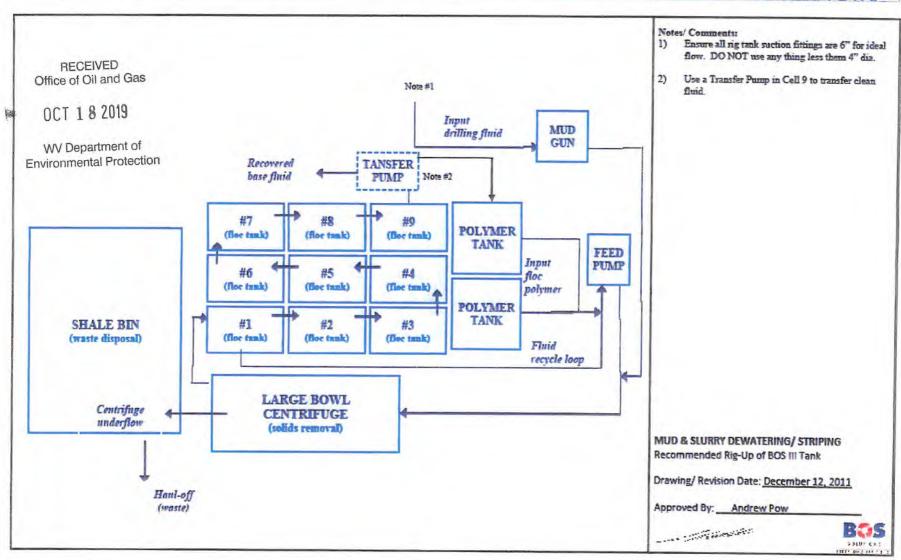
Specialty Recycling			Waste Services	Contacts
Company Name	Location		Provided	Contacts
laSar Recycling, Inc.	183 Edgeworth Ave. East Palestine, OH 44413	ОН	Recycle a full range of commodities including liners, fibers, plastics (#1–#7), glass, paper, ferrous metals and non-ferrous metals.	(330) 426-2538 [inquiries] (330) 426-6243 [sales] sales@jasarrecycling.com
Ultra-Poly Corporation	Berwick, PA; Portland, PA; transfer facility in Weirton, WV	PA	Polyethylene and polypropylene oil and gas waste plastic (liners, etc.).	Joe Barcelona jbarcelona@untra-poly.com 412-495-5962

RECEIVED Office of Oil and Gas

OCT 1 8 2019

FLOW CHART MUD AND SLURRY DEWATERING RECOMMENDED RIG UP



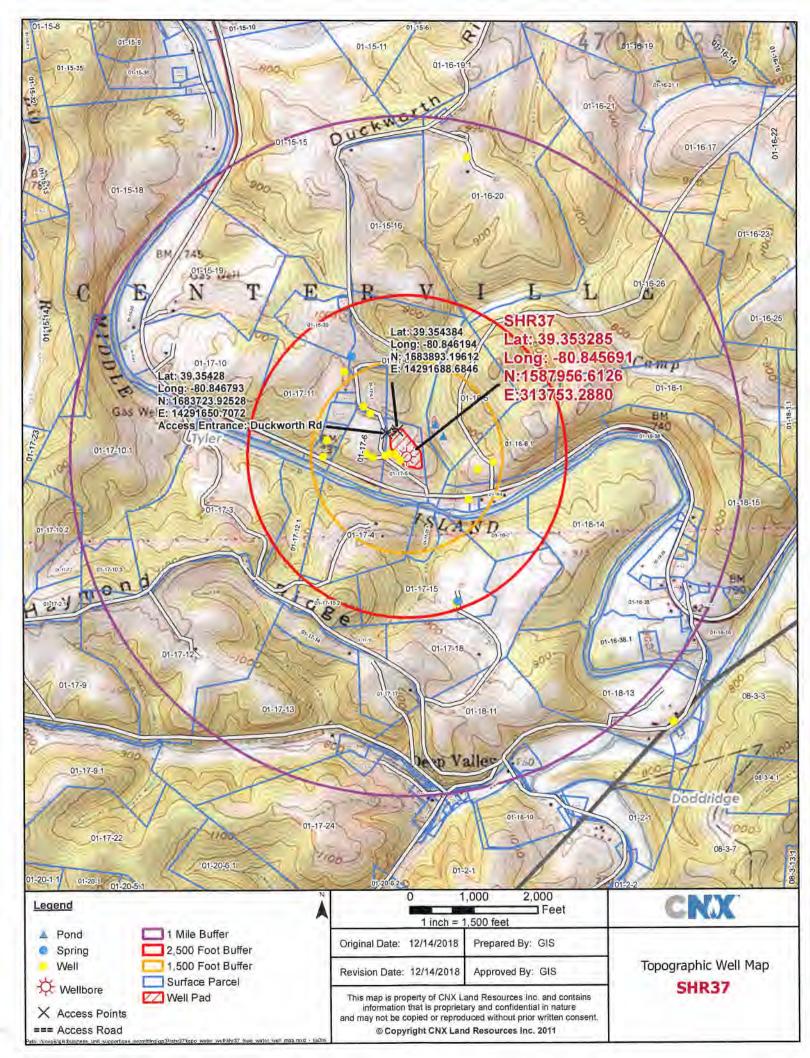




Site Safety Plan for Well SHR37FHSM CNX Gas Company, LLC.









SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

SEE PAGE 3 FOR SURFACE OWNERS AND LESSORS

SURFACE HOLE LOCATION (SHL) UTM 17-NAD83 N:4355980.52 E:513313.40

NAD83, W NORTH N:313595.959 E:1588046.215 LAT/LON DATUM-NAD83 LAT:39*21'11.402" LON:80*50'43.727"

APPROX. LANDING POINT UTM 17-NAD83 N:4356020.54 E:513235.66

NAD83, WV NORTH N:313731.555 E:1587793.276 LAT/LON DATUM-NAD83 LAT:39'21'12.705" LON:80'50'46.973" BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83 N:4359663.59 E:511912.85 NAD83, W NORTH N:325758.749 E:1583651.974 LAT/LON DATUM-NAD83 LAT:39°23'10.950" LON:80°51'42.011"



SEE.

<u>s.s.</u>

located

99

topo

map

8,009 f 3,435 f

_feet _feet

west

으 으

Longitude: Longitude:

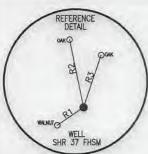
80 50 00





CIVIL* ENVIRONMENTAL* CONSULTING* FIELD SERVICES 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330 PHONE (304) 624-4108* FAX (304) 624-7631

600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330 PHONE (304) 624-4108- FAX (304) 624-7831			MINIMUM MANAGER AND
FILE #: SHR 37 FHSM DRAWING #: SHR 37 FHSM SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: 1/2500	I,THE UNDERSIG PLAT IS CORRECT TO TH BELIEF AND SHOWS ALL LAW AND THE REGULATION THE DEPARTMENT OF E Signed:	NED, HEREBY CERTIFY THAT THIS E BEST OF MY KNOWLEDGE AND THE INFORMATION REQUIRED BY DNS ISSUED AND PRESCRIBED BY ENVIRONMENTAL PROTECTION.	No. 2000 STATE OF VIRGINIA
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 ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304 Well Type: Oil Waste Disposal Gas Liquid Injection WATERSHED: HEADWATERS MIDDLE ISLAN COUNTY/DISTRICT: TYLER / CEI SURFACE OWNER: CNX GAS COM	□ Production □ Do □ Storage □ Sh ID CREEK NTERVILLE	DATE: OCTOBER 3, OPERATOR'S WELL #:	95 02.665 UNTY PERMIT 828.57'±
PLUG OFF OI	ONVERT DRILL DE	EPER REDRILL FRACTURE REFORATE NEW FORMATION PI	RE OR STIMULATE X
TARGET FORMATION:	MARCELLUS J	ESTIMATED DEPTH: TVD: 6,3	302'± TMD: 19,480'±
WELL OPERATOR CNX GAS COMPA Address 1000 CONSOL ENERGY DRIVE City CANONSBURG State PA		DESIGNATED AGENT ANTHONY Address 1000 CONSOL ENERGY DRIVE City CANONSBURG State PA	



SHR 37 FHSM PAGE 2 OF 3



SHR 37 FHSM PAGE 3 OF 3

	SURFACE OWNER	LESSOR	DIST-TM/PAR
1	CNX GAS COMPANY	ELEANOR V. EARNHEART AND DEAN A. EARNHEART, W/H	1-17/5
		CLELLA BOICE, WIDOW	1000
		LUELLA I. MCCONNELL, WIDOW	
		AGNES GODWIN, WIDOW	
		NANCY P. MCCLAIN AND RALPH E. MCCLAIN, W/H	
		GEORGIA P. SNYDER, DIVORCED	
		BRADIE PIPES AND GOLDIE PIPES, H/W	
		PURSIE PIPES AND NORMA J. PIPES, H/W	
		DOROTHY BELLE WELLS AND BYRON WELLS, W/H	
	Manager and the second	MYRNA MORGAN AND DAVID MORGAN, H/W	Land Control of the
2	GAIL WILLIAMSON	ELEANOR V. EARNHEART AND DEAN A. EARNHEART, W/H	P/0 1-17/6
8	The second secon	CLELLA BOICE, WIDOW	
		LUELLA I. MCCONNELL, WIDOW	
		AGNES GODWIN, WIDOW	
		NANCY P. MCCLAIN AND RALPH E. MCCLAIN, W/H	
		GEORGIA P. SNYDER, DIVORCED	
		BRADIE PIPES AND GOLDIE PIPES, H/W	
		PURSIE PIPES AND NORMA J. PIPES, H/W	
		DOROTHY BELLE WELLS AND BYRON WELLS, W/H	
		MYRNA MORGAN AND DAVID MORGAN, W/H	
	WEST MERCHANIST THE STATE OF TH	REVA ROWLAND AND RONALD ROYCE ROWLAND	15.74
3	WEST VIRGINIA DIVISION OF NATURAL RESOURCES		N/A
0		ARTIS HOPE JACK PARKER, ATTORNEY-IN-FACT FOR	1-15/38
	TIMOTHY R. PRATT	COLEN C. JACK	1-15/39
	ELDEN L. , RODNEY DEAN & TIMOTHY RAY PRATT		1-17/11
	THOMAS D. II & CONNIE S. SNYDER		1-17/11.1
	ROGNEY D. PRATT		1-17/11.2
	WAYNE C. & RHONDA G. MUMBAUER		1-17/11.3
	WAYNE C. & RHONDA G. MUMBAUER		1-17/11.4
	STATE OF WEST VIRGINIA		1-17/11.5
	FORREST G. POWELL		1-17/11.6
	ROGER L. & MARJORIE P. WILLIAMS		1-17/11.7
	JASON L. & REBECCA M. PRATT		1-17/11.8
4	RONALD ROYCE AND REVA D. ROWLAND	ELEANOR V. EARNHEART AND DEAN A. EARNHART, W/H	P/0 1-17/6.
7	RONALD ROIGE AND REVA D. RONDAND	CLELLA BOICE, WIDOW	170 1 1770.
/		LUELLA I. MCCONNELL, WIDOW	
		AGNES GODWIN, WIDOW	
		NANCY P. MCCLAIN AND RALPH E. MCCLAIN, W/H	
		GEORGIA P. SNYDER, DIVORCED	
		BRADIE PIPES AND GOLDIE PIPES, H/W	
		PURSIE PIPES AND NORMA J. PIPES, H/W	
		DOROTHY BELLE WELLS AND BYRON WELLS, W/H	
		MYRNA MORGAN AND DAVID MORGAN, W/H	1
	and the second second	REVA ROWLAND AND RONALD ROYCE ROWLAND	
2	JAMES ROBERT BAGLEY	JACOB C. COTTRILL, ATTORNEY-IN-FACT	1-15/15
-	The state of the s	FOR CHARLES D. COTTRILL HEIRS;	
		JACOB C. COTTRILL AND SHIRLEY A. COTTRILL, H/W	
4	SANDRA SUE CLARK & CLARENCE D. CLARK &	SANDRA SUE CLARK AND CLARENCE DUANE CLARK, H/W	1-15/10
7	JEFFREY G. CLARK & KEVIN SCOTT CLARK	AND MILDRED GREGG	
	DEFFICE G. CLARK & REVIN SCOTT CLARK	SANDRA SUE CLARK AND CLARENCE DUANE CLARK, H/W	
		AND MILDRED GREGG	
		DAVID C. GREGG	1 15/74
3	ROY DEAN ASH & MARY CARPENTER	ROY DEAN ASH	1-15/3.1
		MARY FRANCES CARPENTER	4 45 /5 5
4		DOMINION ENERGY TRANSMISSION, INC.	1-15/5.8
5	DOMINION TRANSMISSION	DOMINION ENERGY TRANSMISSION, INC.	1-15/5.7
7	ROBERT W. GRAHAM	ERNEST LANTZ	P/0 1-15/2
		RONALD LEE ASH	1 400
		RALPH ARNOLD ASH	
	the state of the s	RANDALL DALE ASH AND DORETTA LYNN ASH	
4	VADA SUE KISSNER	VADA SUE KISSNER	1-12/20
	VADA SUE KISSNER	ELKHORN MINERAL, LLC	1-12/20.3
6		ELKHORN MINERAL, LLC	1-12/20.4
77	KEVIN KISSNER	VADA SUE KISSNER	1-12/20.1
		VADA SUE KISSNER	1-12/20.5
8		SANDRA L. SPENCE	1-12/18
10	ROBERT C. & JAMES L. SINCLAIR		12/10
	ROSE MCGARTH & JAMES T. EDGAR	BARBARA J. DRUCHNIAK	
		PATTY L. BUTERBAUGH	-
		RICHARD B. SMITH	
		CHARLES ALAN MCCULLOUGH AND FREDA MCCULLOUGH	
		DONALD BURL SMITH	
		RONALD CARLETON MOORE JR.	
		CHERYL ANN CALKINS	
		BENNY EDWIN SMITH	
			1
		ROY LEE SMITH	
		ROY LEE SMITH	
		JEREMY J. LOPEZ	
	MARK WILLIAM PIERSON TRUSTEE		P/0 1-12/2

API WELL#: 47 95 02465
STATE COUNTY PERMIT



OCTOBER 3, 2019

WW-6A1	
(5/13)	

Operator's Well No.	SHR37FHSM

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	C	Country I was a second	Danale	Daal-/Dasa
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

See attached

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

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

RECEIVED
Office of Oil and Gas

By: S

Sarah Weigand

Its:

Manager Upstream Permitting

OCT 1 8 2019

Page 1 of

Attachment - Form WW-6A-1 for SHR37FHSM

	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	<u>Grantee, Lessee, etc</u>	Royalty	Book/Page
1	1-17-5	269278000	Eleanor V. Earnheart and Dean A. Earnheart, w/h	Sefco Enterprises, Inc.	Not less than 1/8	267/74
			Clella Boice, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/76
			Luella I. McConnell, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/78
			Agnes Godwin, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/80
			Nancy P. McClain and Ralph E. McClain, w/h	Sefco Enterprises, Inc.	Not less than 1/8	267/82
			Georgia P. Snyder, divorced	Sefco Enterprises, Inc.	Not less than 1/8	267/84
			Bradie Pipes and Goldie Pipes, his wife	Sefco Enterprises, Inc.	Not less than 1/8	267/86
			Pursie Pipes and Norma J. Pipes, husband and wife	Sefco Enterprises, Inc.	Not less than 1/8	267/88
			Dorothy Belle Wells and Byron Wells, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/90
			Myrna Morgan and David Morgan, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/640
1			Sefco Enterprises, Inc.	Eastern American Energy Corporation	Assignment	285/650
			Eastern American Energy Corporation	Seneca-Upshur Petroleum, Inc.	Assignment	354/757
			Seneca-Upshur Petroleum, Inc.	Seneca-Upshur Petroleum, LLC	Assignment	381/540
			Seneca-Upshur Petroleum, LLC	Antero Resources Appalachian Corporation	Assignment	402/132
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	wvsos
			Title of the source of the sou	CNX Gas Company, LLC	Traine Shange	425/701
1			Antero Resources Corporation	Noble Energy Inc.	Assignment	427/564
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273 ×
ract ID	Tax Map & Parcel	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
		<u>#</u>				
2	1-17-6	266300000	Eleanor V. Earnheart and Dean A. Earnheart, w/h	Sefco Enterprises, Inc.	Not less than 1/8	267/74
			Clella Boice, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/76
			Luella I. McConnell, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/78
			Agnes Godwin, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/80
			Nancy P. McClain and Raiph E. McClain, w/h	Sefco Enterprises, Inc.	Not less than 1/8	267/82
			Georgia P. Snyder, divorced	Sefco Enterprises, Inc.	Not less than 1/8	267/84
			Bradie Pipes and Goldie Pipes, his wife	Sefco Enterprises, Inc.	Not less than 1/8	267/86
			Pursie Pipes and Norma J. Pipes, husband and wife	Sefco Enterprises, Inc.	Not less than 1/8	267/88
			Dorothy Belle Wells and Byron Wells, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/90
			Myrna Morgan and David Morgan, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/640
			Sefco Enterprises, Inc.	Eastern American Energy Corporation	Assignment	285/650
			Eastern American Energy Corporation	Seneca-Upshur Petroleum, Inc.	Assignment	354/757
			Seneca-Upshur Petroleum, Inc.	Seneca-Upshur Petroleum, LLC	Assignment	381/540
			Seneca-Upshur Petroleum, LLC	Antero Resources Appalachian Corporation	Assignment	402/132
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	wvsos
				CNX Gas Company, LLC		425/701
			Antero Resources Corporation	Noble Energy Inc.	Assignment	427/564
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
			Reva Rowland and Ronald Royce Rowland	CNX Gas Company, LLC	Not less than 1/8	661/312 1
ract ID	Tax Map & Parcel	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
Ţ	Middle Island	#				
3	Creek	N/A	West Virginia Division of Natural Resources	Antero Resources Corporation		553/295
3						
	C.C.	N/A	Antero Resources Corporation	CNX Gas Company, LLC	Not less than 1/8 Assignment	629/658
	ace.	·	Antero Resources Corporation	· · · · · · · · · · · · · · · · · · ·	·	
act ID	Tax Map & Parcel	Title Opinion QLS	Antero Resources Corporation	· · · · · · · · · · · · · · · · · · ·	·	
ract ID		Title Opinion QLS	Antero Resources Corporation	CNX Gas Company, LLC	Assignment	629/658
act ID	<u>Tax Map & Parcel</u> 1-15-38 1-15-39	Title Opinion QLS	Antero Resources Corporation	CNX Gas Company, LLC	Assignment Royalty	629/658 2 Book/Page
act ID	<u>Tax Map & Parcel</u> 1-15-38 1-15-39 1-17-11	Title Opinion QLS	Antero Resources Corporation	CNX Gas Company, LLC	Assignment	629/658
	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through	Title Opinion QLS	Antero Resources Corporation <u>Grantor, Lessor, etc</u>	CNX Gas Company, LLC <u>Grantee, Lessee, etc</u>	Assignment Royalty	629/658
	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through	Title Opinion QLS	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-In-Fact for Colen C. Jack	CNX Gas Company, LLC <u>Grantee, Lessee, etc</u> J&J Enterprises	Assignment Royalty Not less than 1/8	800k/Page 257/620 282/296 354/757
	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through	Title Opinion QLS	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-in-Fact for Colen C. Jack J&J Enterprises	CNX Gas Company, LLC <u>Grantee, Lessee, etc</u> J&J Enterprises Eastern American Energy Corporation	Assignment Royalty Not less than 1/8 Assignment Assignment Assignment	800k/Page 257/620 282/296 354/757 381/540
	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through	Title Opinion QLS	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-In-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation	Grantee, Lessee, etc Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation	Royalty Not less than 1/8 Assignment Assignment Assignment Assignment Assignment	629/658 - Book/Page 257/620 282/296 354/757 381/540 402/132
	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through	Title Opinion QLS	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-In-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc.	CNX Gas Company, LLC Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC	Assignment Royalty Not less than 1/8 Assignment Assignment Assignment	800k/Page 257/620 282/296 354/757 381/540
	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through	Title Opinion QLS	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-in-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation	Grantee, Lessee, etc Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation CNX Gas Company, LLC	Royalty Not less than 1/8 Assignment Assignment Assignment Assignment Assignment	257/620 282/296 354/757 381/540 402/132
	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through	Title Opinion QLS	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-In-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC	Grantee, Lessee, etc Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation	Royalty Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Name Change	800k/Page 257/620 282/296 354/757 381/540 402/132 WVSOS
10	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through 11.8	Title Opinion QLS	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-In-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc.	Grantee, Lessee, etc Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc.	Royalty Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment	800k/Page 257/620 282/296 354/757 381/540 402/132 WVSOS
10	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through 11.8	Title Opinion QLS # 263403000 Title Opinion QLS	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-In-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc	Grantee, Lessee, etc Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC	Royalty Not less than 1/8 Assignment Assignment Assignment Assignment Name Change Assignment Assignment	800k/Page 257/620 282/296 354/757 381/540 402/132 WVSOS 425/701 550/273 Book/Page
10	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through 11.8	Title Opinion QLS	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-In-Fact for Colen C. Jack J& Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Eleanor V. Earnheart and Dean A. Earnheart, w/h	Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Sefco Enterprises, Inc.	Royalty Not less than 1/8 Assignment Assignment Assignment Assignment Name Change Assignment Assignment Assignment Name Change	257/620 282/296 354/757 381/540 402/132 WVSOS 425/701 550/273 Book/Page 267/74
10	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through 11.8	Title Opinion QLS # 263403000 Title Opinion QLS	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-In-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow	Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Sefco Enterprises, Inc. Sefco Enterprises, Inc.	Royalty Not less than 1/8 Assignment Assignment Assignment Assignment Name Change Assignment Assignment Assignment Assignment Not less than 1/8 Not less than 1/8	800k/Page 257/620 282/296 354/757 381/540 402/132 WVSOS 425/701 550/273 800k/Page 267/74 267/76
10	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through 11.8	Title Opinion QLS # 263403000 Title Opinion QLS	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-in-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Eleanor V. Earnheart and Dean A. Earnheart, w/h Ciella Boice, widow Luella I. McConnell, widow	Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Sefco Enterprises, Inc. Sefco Enterprises, Inc.	Royalty Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Name Change Assignment	257/620 282/296 354/757 381/540 402/132 WVSOS 425/701 550/273 Book/Page 267/74 267/76
10	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through 11.8	Title Opinion QLS # 263403000 Title Opinion QLS	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-In-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow	Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Sefco Enterprises, Inc. Sefco Enterprises, Inc. Sefco Enterprises, Inc. Sefco Enterprises, Inc.	Royalty Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Name Change Assignment Assi	800k/Page 257/620 22/296 354/757 381/540 402/132 WVSOS 425/701 550/273 800k/Page 267/74 267/76 267/78
10	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through 11.8	Title Opinion QLS # 263403000 Title Opinion QLS	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-In-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, w/h	Grantee, Lessee, etc Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Sefco Enterprises, Inc.	Royalty Not less than 1/8 Assignment Assignment Assignment Assignment Name Change Assignment Assignment Assignment Name Change Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8	257/620 282/296 354/757 381/540 402/132 WYSOS 425/701 550/273 Book/Page 267/74 267/76 267/76 267/80 267/80
10	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through 11.8	Title Opinion QLS # 263403000 Title Opinion QLS	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-in-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, w/h Georgia P. Snyder, divorced	Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Sefco Enterprises, Inc.	Royalty Not less than 1/8 Assignment Assignment Assignment Assignment Name Change Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8	257/620 282/296 354/757 381/540 402/132 WVSOS 425/701 550/273 800k/Page 267/74 267/76 267/78 267/80 267/82
10	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through 11.8	Title Opinion QLS # 263403000 Title Opinion QLS	Artis Hope Jack Parker, Attorney-in-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Eleanor V. Earnheart and Dean A. Earnheart, w/h Ciella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, w/h Georgia P. Snyder, divorced Bradle Pipes and Goldie Pipes, his wife	Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Sefco Enterprises, Inc.	Royalty Not less than 1/8 Assignment Assign	257/620 282/296 354/757 381/540 402/132 WVSOS 425/701 550/273 Book/Page 267/76 267/78 267/80 267/84 267/84
10	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through 11.8	Title Opinion QLS # 263403000 Title Opinion QLS	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-In-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, w/h Georgia P. Snyder, divorced Bradle Pipes and Goldle Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife	Grantee, Lessee, etc Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Sefco Enterprises, Inc.	Royalty Not less than 1/8 Assignment Assign	800k/Page 257/620 282/296 354/757 381/540 402/132 WVSOS 425/701 550/273 800k/Page 267/74 267/76 267/80 267/82 267/84 267/86 267/84
10 Fract ID	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through 11.8 Tax Map & Parcel 1-17-6.1	Title Opinion QLS # 263403000 Title Opinion QLS	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-In-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, w/h Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife Dorothy Belle Wells and Byron Wells, her husband	Grantee, Lessee, etc Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Sefco Enterprises, Inc.	Royalty Not less than 1/8 Assignment Assignment Assignment Assignment Name Change Assignment Assignment Assignment I Assignment As	257/620 282/296 354/757 381/540 402/132 WVSOS 425/701 550/273 Book/Page 267/74 267/76 267/78 267/80 267/84 267/84 267/88 267/88
10 11 11 11 11 11 11 11 11 11 11 11 11 1	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through 11.8 Tax Map & Parcel 1-17-6.1	Title Opinion QLS # 263403000 Title Opinion QLS # 266299000	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-in-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, ILC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, w/h Georgia P. Snyder, divorced Bradle Pipes and Goldle Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife Dorothy Belle Wells and Byron Wells, her husband Myrna Morgan and David Morgan, her husband	Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Sefco Enterprises, Inc.	Royalty Not less than 1/8 Assignment Royalty Not less than 1/8	800k/Page 257/620 282/296 354/757 381/540 402/132 WVSOS 425/701 550/273 800k/Page 267/74 267/76 267/88 267/88 267/88 267/89 267/89
10.	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through 11.8 Tax Map & Parcel 1-17-6.1	Title Opinion QLS # 263403000 Title Opinion QLS # 266299000	Artis Hope Jack Parker, Attorney-in-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Eleanor V. Earnheart and Dean A. Earnheart, w/h Ciella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, w/h Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife Dorothy Belle Wells and Byron Wells, her husband Myrna Morgan and David Morgan, her husband Sefco Enterprises, Inc.	Grantee, Lessee, etc Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Grantee, Lessee, etc Sefco Enterprises, Inc.	Royalty Not less than 1/8 Assignment Royalty Not less than 1/8	800k/Page 257/620 282/296 354/757 381/540 402/132 WVSOS 425/701 550/273 800k/Page 267/74 267/76 267/78 267/80 267/82 267/84 267/88 267/80 267/84 267/80 267/640 285/650
10, ract ID	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through 11.8 Tax Map & Parcel 1-17-6.1	Title Opinion QLS # 263403000 Title Opinion QLS # 266299000	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-In-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, w/h Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife Pursle Pipes and Norma J. Pipes, husband and wife Dorothy Belle Wells and Byron Wells, her husband Myrna Morgan and David Morgan, her husband Sefoo Enterprises, Inc. Eastern American Energy Corporation	Grantee, Lessee, etc Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, ILC Antero Resources Appalachian Corporation Antero Resources Corporation CNX Gas Company, ILC Noble Energy Inc. CNX Gas Company, ILC Grantee, Lessee, etc Sefto Enterprises, Inc.	Royalty Not less than 1/8 Assignment Assignment Assignment Assignment Name Change Assignment Assignment Assignment Assignment I Name Change Assignment Assignment Assignment Royalty Not less than 1/8 Assignment Assignment	800k/Page 257/620 282/296 354/757 381/540 402/132 WVSOS 425/701 550/273 800k/Page 267/74 267/76 267/78 267/80 267/82 267/84 267/80 267/640 285/650 354/757
10 ract ID 11	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through 11.8 Tax Map & Parcel 1-17-6.1 RECEIVED e of Oil and	Title Opinion QLS # 263403000 Title Opinion QLS # 266299000	Artis Hope Jack Parker, Attorney-in-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Eleanor V. Earnheart and Dean A. Earnheart, w/h Ciella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, w/h Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife Dorothy Belle Wells and Byron Wells, her husband Myrna Morgan and David Morgan, her husband Sefco Enterprises, Inc.	Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Sefco Enterprises, Inc.	Royalty Not less than 1/8 Assignment Royalty Not less than 1/8 Assignment Assignment Assignment	800k/Page 257/620 282/296 354/757 381/540 402/132 WVSOS 425/701 550/273 800k/Page 267/74 267/76 267/78 267/80 267/84 267/86 267/88 267/80 267/84 267/86 354/757 381/540
10 ract ID 11	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through 11.8 Tax Map & Parcel 1-17-6.1 RECEIVED e of Oil and	Title Opinion QLS # 263403000 Title Opinion QLS # 266299000	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-In-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, w/h Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife Pursle Pipes and Norma J. Pipes, husband and wife Dorothy Belle Wells and Byron Wells, her husband Myrna Morgan and David Morgan, her husband Sefoo Enterprises, Inc. Eastern American Energy Corporation	Grantee, Lessee, etc Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, ILC Antero Resources Appalachian Corporation Antero Resources Corporation CNX Gas Company, ILC Noble Energy Inc. CNX Gas Company, ILC Grantee, Lessee, etc Sefto Enterprises, Inc.	Royalty Not less than 1/8 Assignment Royalty Not less than 1/8 Assignment Assignment Assignment Assignment	800k/Page 257/620 282/296 354/757 381/540 402/132 WVSOS 425/701 550/273 800k/Page 267/74 267/76 267/78 267/80 267/82 267/84 267/86 267/88 267/84 267/86 267/84 267/86 267/84 267/86 267/84 267/86 267/84 267/86 267/84 267/86 267/84 267/86 267/84 267/86 267/84 267/86 267/84 267/86 267/84 267/86 267/84 267/86 267/84 267/86 267/84 267/86 267/84 267/86 267/84
10 Fract ID 11 Fract ID Control ID	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through 11.8 Tax Map & Parcel 1-17-6.1	Title Opinion QLS # 263403000 Title Opinion QLS # 266299000	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-In-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, w/h Georgia P. Snyder, divorced Bradle Pipes and Goldie Pipes, his wife Purste Pipes and Roorma J. Pipes, husband and wife Dorothy Belle Wells and Byron Wells, her husband Myrna Morgan and David Morgan, her husband Sefco Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc.	Grantee, Lessee, etc Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Sefco Enterprises, Inc. Sefco Enterpris	Royalty Not less than 1/8 Assignment Royalty Not less than 1/8 Assignment Assignment Assignment	800k/Page 257/620 282/296 354/757 381/540 402/132 WVSOS 425/701 550/273 800k/Page 267/74 267/76 267/78 267/80 267/82 267/84 267/88 267/90 267/88 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS
10 ract ID 11	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through 11.8 Tax Map & Parcel 1-17-6.1 RECEIVED e of Oil and	Title Opinion QLS # 263403000 Title Opinion QLS # 266299000	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-in-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, ILC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, w/h Georgia P. Snyder, divorced Bradle Pipes and Goldie Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife Dorothy Belle Wells and Byron Wells, her husband Myrna Morgan and David Morgan, her husband Myrna Morgan and David Morgan, her husband Sefoo Enterprises, inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, ILC	Grantee, Lessee, etc Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Sefco Enterprises, Inc.	Royalty Not less than 1/8 Assignment Assignment Assignment Assignment Name Change Assignment Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Not	257/620 282/296 354/757 381/540 402/132 WVSOS 425/701 550/273 Book/Page 267/74 267/76 267/78 267/84 267/84 267/84 267/86 267/84 267/84 267/86 267/84 267/84 267/86 267/84 267/80 267/84 285/650 354/757 381/540 402/132 WVSOS 425/701
10 Iract ID 11 Office OC	Tax Map & Parcel 1-15-38 1-15-39 1-17-11 1-17-11.1 through 11.8 Tax Map & Parcel 1-17-6.1 RECEIVED e of Oil and	Title Opinion QLS # 263403000 Title Opinion QLS # 266299000	Antero Resources Corporation Grantor, Lessor, etc Artis Hope Jack Parker, Attorney-in-Fact for Colen C. Jack J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, ILC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, w/h Georgia P. Snyder, divorced Bradle Pipes and Goldie Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife Dorothy Belle Wells and Byron Wells, her husband Myrna Morgan and David Morgan, her husband Myrna Morgan and David Morgan, her husband Sefoo Enterprises, inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, ILC	Grantee, Lessee, etc Grantee, Lessee, etc J&J Enterprises Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Sefco Enterprises, Inc. Sefco Enterpris	Royalty Not less than 1/8 Assignment Royalty Not less than 1/8 Assignment Assignment Assignment Assignment	800k/Page 257/620 282/296 354/757 381/540 402/132 WVSOS 425/701 550/273 800k/Page 267/74 267/76 267/78 267/80 267/82 267/84 267/88 267/90 267/88 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS

7 of 4

			Reva Rowland and Ronald Royce Rowland	CNX Gas Company, LLC	Not less than 1/8	661/312
	Tax Map & Parcel	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
17	1-17-6.1	266299000	Eleanor V. Earnheart and Dean A. Earnheart, w/h	Sefco Enterprises, Inc.	Not less than 1/8	267/74
			Clella Boice, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/76
			Luella I. McConnell, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/78
			Agnes Godwin, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/80
			Nancy P. McClain and Ralph E. McClain, w/h	Sefco Enterprises, Inc.	Not less than 1/8	267/82
			Georgia P. Snyder, divorced	Sefco Enterprises, Inc.	Not less than 1/8	267/84
			Bradie Pipes and Goldie Pipes, his wife	Sefco Enterprises, Inc.	Not less than 1/8	267/86
			Pursie Pipes and Norma J. Pipes, husband and wife	Sefco Enterprises, Inc.	Not less than 1/8	267/88
			Dorothy Belle Wells and Byron Wells, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/90
			Myrna Morgan and David Morgan, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/640
			Sefco Enterprises, Inc.	Eastern American Energy Corporation	Assignment	285/650
			· ·	Seneca-Upshur Petroleum, Inc.	Assignment	354/757
				Seneca-Upshur Petroleum, LLC	Assignment	381/540
			Seneca-Upshur Petroleum, LLC	Antero Resources Appalachian Corporation	Assignment	402/132
			· ·	Antero Resources Corporation	Name Change	wvsos
			• • • • • • • • • • • • • • • • • • • •	CNX Gas Company, LLC	rame enange	425/701
				Noble Energy Inc.	Assignment	427/564
!				CNX Gas Company, LLC	Assignment	550/273
			Reva Rowland and Ronald Royce Rowland	CNX Gas Company, LLC	Not less than 1/8	661/312
		This Osisios OLS	·	can das company, ecc	Not less than 170	001/312
	Tax Map & Parcei	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
18	1-17-6	266300000		Sefco Enterprises, Inc.	Not less than 1/8	267/74
!				Sefco Enterprises, Inc.	Not less than 1/8	267/76
				Sefco Enterprises, Inc.	Not less than 1/8	267/78
İ			=	Sefco Enterprises, Inc.	Not less than 1/8	267/80
			· · · · · · · · · · · · · · · · · · ·	Sefco Enterprises, Inc.	Not less than 1/8	267/82
1				Sefco Enterprises, Inc.	Not less than 1/8	267/84
			Bradie Pipes and Goldie Pipes, his wife	Sefco Enterprises, Inc.	Not less than 1/8	267/86
1				Sefco Enterprises, Inc.	Not less than 1/8	267/88
			Dorothy Belle Wells and Byron Wells, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/90
			• •	Sefco Enterprises, Inc.	Not less than 1/8	267/640
			Sefco Enterprises, Inc.	Eastern American Energy Corporation	Assignment	285/650
			Eastern American Energy Corporation	Seneca-Upshur Petroleum, Inc.	Assignment	354/757
			Seneca-Upshur Petroleum, Inc.	Seneca-Upshur Petroleum, LLC	Assignment	381/540
			Seneca-Upshur Petroleum, LLC	Antero Resources Appalachian Corporation	Assignment	402/132
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	WVSOS
				CNX Gas Company, LLC		425/701
			Antero Resources Corporation	Noble Energy Inc.	Assignment	427/564
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
			Reva Rowland and Ronald Royce Rowland	CNX Gas Company, LLC	Not less than 1/8	661/312 /
_ :						
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
Tract ID	Tax Map & Parcel		Grantor, Lessor, etc Jacob C. Cottrill, Attorney-In-Fact for Charles D. Cottrill Heirs;		Royalty	Book/Page
	Tax Map & Parcel		Jacob C. Cottrill, Attorney-In-Fact for Charles D. Cottrill Heirs;		Royalty Not less than 1/8	<u>Book/Page</u> 258/220
Tract ID	тах мар & Рагсе	#	Jacob C. Cottrill, Attorney-In-Fact for Charles D. Cottrill Heirs;			
	тах мар & Рагсе	#	Jacob C. Cottrill, Attorney-In-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w	J & J Enterprises, Inc.	Not less than 1/8	258/220
	тах мар & Рагсе	#	Jacob C. Cottrill, Attorney-In-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises	J & J Enterprises, Inc. Eastern American Energy Corporation	Not less than 1/8 Assignment	258/220 282/296
	тах мар & Рагсе	#	Jacob C. Cottrill, Attorney-In-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America	Not less than 1/8 Assignment Assignment	258/220 282/296 371/528
	тах мар & Рагсе	#	Grantor, Lessor, etc Jacob C. Cottrill, Attorney-In-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation	Not less than 1/8 Assignment Assignment Assignment	258/220 282/296 371/528 398/416
	тах мар & Рагсе	#	Grantor, Lessor, etc Jacob C. Cottrill, Attorney-in-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation	Not less than 1/8 Assignment Assignment Assignment	258/220 282/296 371/528 398/416
	тах мар & Рагсе	#	Grantor, Lessor, etc Jacob C. Cottrill, Attorney-In-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment Assignment	258/220 282/296 371/528 398/416 420/316
22	1-15-15	# 266749000 Title OpInion QLS	Jacob C. Cottrill, Attorney-In-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc.	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment	258/220 282/296 371/528 398/416 420/316 427/564 550/273
22	тах мар & Рагсе	# 266749000	Jacob C. Cottrill, Attorney-In-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment	258/220 282/296 371/528 398/416 420/316 427/564 550/273
22	1-15-15 Tax Map & Parcel	# 266749000 Title Opinion QLS #	Jacob C. Cottrill, Attorney-In-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc.	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment	258/220 282/296 371/528 3398/416 420/316 427/564 550/273 Book/Page
22	1-15-15	# 266749000 Title OpInion QLS	Jacob C. Cottrill, Attorney-In-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co.	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment	258/220 282/296 371/528 398/416 420/316 427/564 550/273 Book/Page 265/415 279/88
22	1-15-15 Tax Map & Parcel	# 266749000 Title Opinion QLS #	Jacob C. Cottrill, Attorney-In-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co.	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment	258/220 282/296 371/528 398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417
22	1-15-15 Tax Map & Parcel	# 266749000 Title Opinion QLS #	Jacob C. Cottrill, Attorney-In-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co.	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8	258/220 282/296 371/528 398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90
22	1-15-15 Tax Map & Parcel	# 266749000 Title Opinion QLS #	Grantor, Lessor, etc Jacob C. Cottrill, Attorney-in-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Anvil Oil Company	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Name Change	258/220 282/296 371/528 3398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded
22	1-15-15 Tax Map & Parcel	# 266749000 Title Opinion QLS #	Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Greg	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co.	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8	258/220 282/296 371/528 398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90
22	1-15-15 Tax Map & Parcel	# 266749000 Title Opinion QLS #	Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oil and Gas Co.	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Anvil Oil Company	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Name Change	258/220 282/296 371/528 398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774
22	1-15-15 Tax Map & Parcel	# 266749000 Title Opinion QLS #	Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oil and Gas Co.	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc.	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Name Change	258/220 282/296 371/528 3398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded
22	1-15-15 Tax Map & Parcel	# 266749000 Title Opinion QLS #	Grantor, Lessor, etc Jacob C. Cottrill, Attorney-in-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oil and Gas Co. Anvil Oil Company	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Name Change Assignment	258/220 282/296 371/528 398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774
22	1-15-15 Tax Map & Parcel	# 266749000 Title Opinion QLS #	Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oll and Gas Co. Antero Resources Corporation Antero Resources Appalachian Corporation Moble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oll and Gas Co. Anvil Oil Company Antero Resources Corporation	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc.	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Name Change Assignment Assignment	258/220 282/296 371/528 3398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774 468/769
22	1-15-15 Tax Map & Parcel	# 266749000 Title Opinion QLS #	Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oll and Gas Co. Antero Resources Corporation Antero Resources Appalachian Corporation Moble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oll and Gas Co. Anvil Oil Company Antero Resources Corporation	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc.	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Name Change Assignment Assignment Assignment Assignment Assignment Assignment Assignment Not less than 1/8	258/220 282/296 371/528 398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774 468/769 550/273 265/407
22	1-15-15 Tax Map & Parcel	# 266749000 Title Opinion QLS #	Grantor, Lessor, etc Jacob C. Cottrill, Attorney-in-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc.	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Name Change Assignment Assignment Assignment	258/220 282/296 371/528 398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774 468/769 550/273
22	1-15-15 Tax Map & Parcel	# 266749000 Title Opinion QLS #	Grantor, Lessor, etc Jacob C. Cottrill, Attorney-in-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. David C. Gregg	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Anvil Oil Co., Inc.	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Name Change Assignment Assignment Assignment Assignment Assignment Assignment Assignment Not less than 1/8	258/220 282/296 371/528 398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774 468/769 550/273 265/407
22	1-15-15 Tax Map & Parcel	# 266749000 Title Opinion QLS #	Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oll and Gas Co. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc.	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Anvil Oil Co., Inc. Anvil Oil & Gas Co., Inc.	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Name Change Assignment Assignment Assignment Assignment Assignment Assignment Assignment	258/220 282/296 371/528 3398/416 420/316 427/564 550/273 800k/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774 468/769 550/273 265/407 WVSOS
22	1-15-15 Tax Map & Parcel	# 266749000 Title Opinion QLS #	Grantor, Lessor, etc Jacob C. Cottrill, Attorney-in-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. David C. Gregg Anvil Oil Co., Inc. Anvil Oil & Gas Co., Inc.	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNK Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Anvil Oil Co., Inc. Anvil Oil & Gas Co., Inc. Anvil Oil & Gas Co., Inc. Anvil Oil Company	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Name Change Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment	258/220 282/296 371/528 3398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774 468/769 550/273 265/407 WVSOS WVSOS
22	1-15-15 Tax Map & Parcel	# 266749000 Title Opinion QLS #	Grantor, Lessor, etc Jacob C. Cottrill, Attorney-in-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. David C. Gregg Anvil Oil Co., Inc. Anvil Oil & Gas Co., Inc.	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Anvil Oil Co., Inc. Anvil Oil Co., Inc. Anvil Oil Company Antero Resources Corporation	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Name Change Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment	258/220 282/296 371/528 3398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774 468/769 550/273 265/407 WVSOS WVSOS
22	1-15-15 Tax Map & Parcel	# 266749000 Title Opinion QLS #	Jacob C. Cottrill, Attorney-in-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. David C. Gregg Anvil Oil Co., Inc. Anvil Oil & Gas Co., Inc. Anvil Oil Company	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Anvil Oil Co., Inc. Anvil Oil & Gas Co., Inc. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Anvil Oil Co., Inc. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Name Change Assignment Assignment Assignment Assignment Assignment Assignment Assignment Not less than 1/8 Name Change Name Change Assignment	258/220 282/296 371/528 3398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774 468/769 550/273 265/407 WVSOS WVSOS WVSOS 445/774
22	1-15-15 Tax Map & Parcel	# 266749000 Title Opinion QLS # 266291000	Grantor, Lessor, etc Jacob C. Cottrill, Attorney-in-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. David C. Gregg Anvil Oil Co., Inc. Anvil Oil & Gas Co., Inc. Anvil Oil & Gas Co., Inc. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc.	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Anvil Oil Co., Inc. Anvil Oil Co., Inc. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Noble Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Name Change Assignment Assignment Not less than 1/8 Name Change Assignment	258/220 282/296 371/528 3398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774 468/769 550/273 265/407 WVSOS WVSOS WVSOS 445/774 468/769
Tract ID	1-15-15 Tax Map & Parcel 1-15-10	# 266749000 Title Opinion QLS #	Grantor, Lessor, etc Jacob C. Cottrill, Attorney-in-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. David C. Gregg Anvil Oil Co., Inc. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc.	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation CNK Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Anvil Oil Co., Inc. Anvil Oil Co., Inc. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Name Change Assignment Assignment Not less than 1/8 Name Change Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment	258/220 282/296 371/528 3398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774 468/769 550/273 265/407 WVSOS WVSOS 445/774 468/769 550/273
Tract ID	1-15-15 Tax Map & Parcel 1-15-10 Tax Map & Parcel	# 266749000 Title Opinion QLS # 266291000	Grantor, Lessor, etc Jacob C. Cottrill, Attorney-in-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. David C. Gregg Anvil Oil Co., Inc. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation CNK Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Anvil Oil Co., Inc. Anvil Oil & Gas Co., Inc. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC CNX Gas Company, LLC Grantee, Lessee, etc	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Name Change Assignment Assignment Not less than 1/8 Name Change Assignment	258/220 282/296 371/528 3398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774 468/769 550/273 265/407 WVSOS WVSOS 445/774 468/769 550/273 6806/Page
Tract ID	1-15-15 Tax Map & Parcel 1-15-10	# 266749000 Title Opinion QLS # 266291000	Grantor, Lessor, etc Jacob C. Cottrill, Attorney-in-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. David C. Gregg Anvil Oil Co., Inc. Anvil Oil & Gas Co., Inc. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Roy Dean Ash	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Anvil Oil Co., Inc. Anvil Oil & Gas Co., Inc. Anvil Oil & Gas Co., Inc. Anvil Oil & Gas Co., Inc. CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Grantee, Lessee, etc	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Name Change Assignment	258/220 282/296 371/528 3398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774 468/769 550/273 265/407 WVSOS WVSOS 445/774 468/769 550/273 Book/Page 659/712
Tract ID	1-15-15 Tax Map & Parcel 1-15-10 Tax Map & Parcel	# 266749000 Title Opinion QLS # 266291000	Grantor, Lessor, etc Grantor, Lessor, etc Grantor, Lessor, etc Sade Suc Carrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. David C. Gregg Anvil Oil Co., Inc. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Roy Dean Ash Mary Frances Carpenter	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Anvil Oil Co., Inc. Anvil Oil Co., Inc. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Resources, LLC Recon Resources, LLC Recon Resources, LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Name Change Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Not less than 1/8 Name Change Assignment	258/220 282/296 371/528 3398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774 468/769 550/273 265/407 WVSOS WVSOS WVSOS WVSOS 445/774 468/769 550/273 Book/Page 659/712 659/706
Tract ID	1-15-15 Tax Map & Parcel 1-15-10 Tax Map & Parcel	# 266749000 Title Opinion QLS # 266291000	Grantor, Lessor, etc Jacob C. Cottrill, Attorney-in-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. David C. Gregg Anvil Oil Co., Inc. Anvil Oil & Gas Co., Inc. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Roy Dean Ash	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Anvil Oil Co., Inc. Anvil Oil & Gas Co., Inc. Anvil Oil & Gas Co., Inc. Anvil Oil & Gas Co., Inc. CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Grantee, Lessee, etc	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Name Change Assignment	258/220 282/296 371/528 3398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774 468/769 550/273 265/407 WVSOS WVSOS 445/774 468/769 550/273 Book/Page 659/712
Tract ID	1-15-15 Tax Map & Parcel 1-15-10 Tax Map & Parcel	# 266749000 Title Opinion QLS # 266291000 Title Opinion QLS # 291198000	Grantor, Lessor, etc Grantor, Lessor, etc Jacob C. Cottrill, Attorney-in-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Annan Oil and Gas Co. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. David C. Gregg Anvil Oil Co., Inc. Anvil Oil Co., Inc. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Roy Dean Ash Mary Frances Carpenter Recon Resources, LLC	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Anvil Oil Co., Inc. Anvil Oil Co., Inc. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Resources, LLC Recon Resources, LLC Recon Resources, LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Name Change Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Not less than 1/8 Name Change Assignment	258/220 282/296 371/528 3398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774 468/769 550/273 265/407 WVSOS WVSOS WVSOS WVSOS 445/774 468/769 550/273 Book/Page 659/712 659/706
Tract ID Tract ID 43	1-15-15 Tax Map & Parcel 1-15-10 Tax Map & Parcel 1-15-3.1	# 266749000 Title Opinion QLS # 266291000	Jacob C. Cottrill, Attorney-in-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. David C. Gregg Anvil Oil Co., Inc. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Roy Dean Ash Mary Frances Carpenter Recon Resources, LLC	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Anvil Oil Co., Inc. Anvil Oil Co., Inc. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Rotic Grantee, Lessee, etc Grantee, Lessee, etc Recon Resources, LLC Recon Resources, LLC CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Name Change Assignment Assignment Not less than 1/8 Name Change Assignment	258/220 282/296 371/528 3398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774 468/769 550/273 265/407 WVSOS WVSOS WVSOS WVSOS 445/774 468/769 550/273 Book/Page 659/712 659/706
Tract ID Tract ID Tract ID	1-15-15 Tax Map & Parcel 1-15-10 Tax Map & Parcel 1-15-3.1 Tax Map & Parcel	# 266749000 Title Opinion QLS # 266291000 Title Opinion QLS # 291198000	Jacob C. Cottrill, Attorney-in-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. David C. Gregg Anvil Oil Co., Inc. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Roy Dean Ash Mary Frances Carpenter Recon Resources, LLC Grantor, Lessor, etc	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Anvil Oil Co., Inc. Anvil Oil Co., Inc. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Recon Resources Corporation CNX Gas Company, LLC Recon Resources Corporation CNX Gas Company, LLC Grantee, Lessee, etc Recon Resources, LLC CNX Gas Company LLC Grantee, Lessee, etc	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Name Change Assignment Assignment Assignment Assignment Assignment Assignment Not less than 1/8 Name Change Assignment Royalty Not less than 1/8 Assignment	258/220 282/296 371/528 3398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774 468/769 550/273 265/407 WVSOS WVSOS WVSOS 445/774 468/769 550/273 Book/Page 659/712 659/706 665/593
Tract ID Tract ID 43	1-15-15 Tax Map & Parcel 1-15-10 Tax Map & Parcel 1-15-3.1	# 266749000 Title Opinion QLS # 266291000 Title Opinion QLS 291198000	Jacob C. Cottrill, Attorney-in-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. David C. Gregg Anvil Oil Co., Inc. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Roy Dean Ash Mary Frances Carpenter Recon Resources, LLC	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Anvil Oil Co., Inc. Anvil Oil Co., Inc. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Rotic Grantee, Lessee, etc Grantee, Lessee, etc Recon Resources, LLC Recon Resources, LLC CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Name Change Assignment Assignment Not less than 1/8 Name Change Assignment	258/220 282/296 371/528 3398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774 468/769 550/273 265/407 WVSOS WVSOS WVSOS 445/774 468/769 550/273 Book/Page 659/712 659/706 665/593
Tract ID Tract ID Tract ID	1-15-15 Tax Map & Parcel 1-15-10 Tax Map & Parcel 1-15-3.1 Tax Map & Parcel	# 266749000 Title Opinion QLS # 266291000 Title Opinion QLS # 291198000	Grantor, Lessor, etc Grantor, Lessor, etc Jacob C. Cottrill, Attorney-in-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America Antero Resources Appalachian Corporation Noble Energy, Inc. Grantor, Lessor, etc Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred Gregg Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. David C. Gregg Anvil Oil & Gas Co., Inc. Anvil Oil & Gas Co., Inc. Anvil Oil Company Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Roy Dean Ash Mary Frances Carpenter Recon Resources, LLC Grantor, Lessor, etc Dominion Energy Transmission, Inc.	J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Manna Oil and Gas Co. Manna Oil and Gas Co. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Anvil Oil Co., Inc. Anvil Oil Co., Inc. Anvil Oil Company Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Recon Resources Corporation CNX Gas Company, LLC Recon Resources Corporation CNX Gas Company, LLC Grantee, Lessee, etc Recon Resources, LLC CNX Gas Company LLC Grantee, Lessee, etc	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Name Change Assignment Assignment Assignment Assignment Assignment Assignment Not less than 1/8 Name Change Assignment Royalty Not less than 1/8 Assignment	258/220 282/296 371/528 3398/416 420/316 427/564 550/273 Book/Page 265/415 279/88 265/417 279/90 Unrecorded 445/774 468/769 550/273 265/407 WVSOS WVSOS WVSOS 445/774 468/769 550/273 Book/Page 659/712 659/706 665/593

3 + 4

55	1-15-5.7	293318000	Dominion Energy Transmission, Inc.	CNX Gas Company LLC	Not less than 1/8	632/237
Tenet ID	Tax Map & Parcel	Title Opinion QLS	Access Ac	A Court Mercent Man	522/	
Hectio	Tax Mah & Larcel	#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
57	1-15-2	279175000	Ernest Lantz	The Coastal Corporation	Not less than 1/8	279/244
			Ronald Lee Ash	The Coastal Corporation	Not less than 1/8	278/554
			Ralph Arnold Ash	The Coastal Corporation	Not less than 1/8	278/556
			Randall Dale Ash and Doretta Lynn Ash	The Coastal Corporation	Not less than 1/8	278/558
			The Coastal Corporation	Pardee Gas Company	Merger	WVSOS
			Pardee Gas Company	Pardee Exploration Company	Deed	301/416
			Pardee Exploration Company	Pardee Resources Group, Inc.	Merger	8/580
			Pardee Resources Group, Inc.	Pardee Minerals, LLC	Merger	wvsos
			Pardee Minerals, LLC	Antero Resources Appalachian Corporation	Assignment	416/465
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	WVSOS
			Antero nesources Apparachian est portation	CNX Gas Company, LLC	Name Change	WV303
			Antero Resources Corporation	Noble Energy Inc.	Assignment	468/769
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
			Noble Ellergy, Inc.	Civa Gas company, LLC	Assignment	550/2/5
		Title Opinion QLS				
Tract ID	Tax Map & Parcel	#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
74	1-12-20	267434000	Vada Sue Kissner	CNX Gas Company LLC	Not less than 1/8	See Attached
	-,	201,10,1000	Total Dat Master	City and Company and	Hot less than 2/0	See Attached
E 22		Title Opinion QLS				
Tract ID	Tax Map & Parcel	#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
75	1-12-20.3	267434000	Elkhorn Mineral, LLC	CNX Gas Company LLC	Not less than 1/8	659/745
, -		207 /2 /000		and desired the second	1100,000 2101,070	0007.10
		Title Opinion QLS				
Tract ID	Tax Map & Parcel	#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
76	1-12-20.4	267434000	Elkhorn Mineral, LLC	CNX Gas Company LLC	Not less than 1/8	659/745
					3331 0050 1100 540	200,0,0
200.6		Title Opinion QLS			120000	2.04
Tract ID	Tax Map & Parcel	#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
77	1-12-20.1	267434000	Vada Sue Kissner	CNX Gas Company LLC	Not less than 1/8	See Attached
200		Title Opinion QLS	Stranger Commencer	Calculate a Section Co.	6	Barrie Barrier
Tract ID	Tax Map & Parcel	#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
78	1-12-20.5	267434000	Vada Sue Kissner	CNX Gas Company LLC	Not less than 1/8	See Attached
Territo	T	Title Opinion QLS	Comment to the	Country Design into	Royalty	Book/Page
Tract ID	Tax Map & Parcel	#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	
80	1-12-18	266282000	Sandra L. Spence	Antero Resources Corporation	Not less than 1/8	444/333
			Barbara J. Druchniak	Antero Resources Corporation	Not less than 1/8	444/335
			Patty L. Buterbaugh	Antero Resources Corporation	Not less than 1/8	444/337
			Richard B. Smith	Antero Resources Corporation	Not less than 1/8	444/339
				CNX Gas Company, LLC		
			Antero Resources Corporation	Noble Energy Inc.	Assignment	468/769
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
			Charles Alan McCullough and Freda McCullough	Noble Energy, Inc.	Not less than 1/8	480/843
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
				And the second s		
			Donald Burl Smith	CNX Gas Company, LLC	Not less than 1/8	639/318
			Ronald Carleton Moore Jr.	CNX Gas Company LLC	Not less than 1/8	653/215
			Cheryl Ann Calkins	CNX Gas Company LLC	Not less than 1/8	653/230
			Benny Edwin Smith	CNX Gas Company LLC	Not less than 1/8	653/225
			Roy Lee Smith	CNX Gas Company LLC	Not less than 1/8	653/220
			Jeremy J. Lopez	CNX Gas Company LLC	Not less than 1/8	See Attached
			Mariah F. Rittman	CNX Gas Company LLC	Not less than 1/8	See Attached
			The state of the s	21-A1 521 1200 00H 4.201		
33.25	Carte Contract	Title Opinion QLS	action from the	\$1.4-\$1.50 A	20.00	Deal/Dass
Tract ID	Tax Map & Parcel	#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
87	1-12-21.1	267434000	Elkhorn Mineral, LLC	CNX Gas Company LLC	Not less than 1/8	659/745
-	2.70.70.5		TO SECURE OF THE PARTY OF THE P			

RECEIVED
Office of Oil and Gas

OCT 1 8 2019

WV Department of Environmental Protection 40+4



Sarah Weig Manager Upstream Permitting Work: 724-485-3244 Email: SarahWeigand@cnx.com

0x9met 02665 1000 CONSOL Energy Drive Canonsburg, PA 15317-6506 724-485-4000 cnx.com

September 26, 2019

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

RE: Road Letter - SHR37 Well Pad Drilling Applications

To Whom It May Concern:

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

If any further information or correspondence is required, please contact me at (724) 485-3244 or SarahWeigand@cnx.com.

Sincerely, Jard Weigarel

Sarah Weigand

RECEIVED Office of Oil and Gas

OCT 1 8 2019

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

Date of Notic	ce Certification: / 8 - 16 - 19	API No.	47	
		Operator	's Well No. SHR	37FHSM
			Name: SHR37	
Notice has l				
Pursuant to th	ne provisions in West Virginia Code §	22-6A, the Operator has provided the r	equired parties v	vith the Notice Forms listed
	tract of land as follows:			
State:	West Virginia	UTM NAD 83 Easting:	513313.40	
County:	Tyler	Nortning		
District: Quadrangle:	Centerville West Union	Public Road Access:	Duckworth Ridge	Road (CR 58/2)
Watershed:	Headwaters Middle Island Creek	Generally used farm name:	CNX	
watersneu.	neadwaters Middle Island Creek			
prescribed by it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and sled the owners of the surface described equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen or	every permit application filed under thall contain the following information: (seed in subdivisions (1), (2) and (4), subtion sixteen of this article; (ii) that the rivey pursuant to subsection (a), section for this article were waived in writing been been proof of and certify to the secretary.	(14) A certification (b), section (b), section (c), secti	on from the operator that (i) ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice vner; and Pursuant to West
	West Virginia Code § 22-6A, the Oprator has properly served the require	erator has attached proof to this Notice d parties with the following:	Certification	OOG OFFICE USE
*PLEASE CHI	ECK ALL THAT APPLY			ONLY
	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECASEISMIC ACTIVITY WAS CONDU		RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	TEY or NO PLAT SURVEY WAS	CONDUCTED	☐ RECEIVED
☐ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAUTION NOTICE OF ENTRY FOR PLAT SUR WAS CONDUCTED or		☐ RECEIVED/ NOT REQUIRED
		WRITTEN WAIVER BY SURF (PLEASE ATTACH)	ACE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION			□ RECEIVED
■ 5. PUE	BLIC NOTICE	RECEIVED Office of Oil and Gas		☐ RECEIVED
■ 6. NO	TICE OF APPLICATION	OCT 1 8 2019		☐ RECEIVED
		WV Department of		

Required Attachments:

Environmental Protection

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.

Certification of Notice is hereby given:

THEREFORE, I <u>Sapah Weeganol</u>, 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:	Sarah Weigand Daude U.	elcano		Canonsburg, PA 15317
Its:	Manager Upstream Permitting	9	Facsimile:	
Telephone:	724-485-3244		Email:	SarahWeigand@CNX.com
	NOTARY SEAL		ibed and swo	Total Slenny Notary Public spires September 23, 2020

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 deepprivacyofficer@wv.gov.

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL
Todd Fleming, Notary Public
Cecil Twp., Washington County
My Commission Expires Sept. 23, 2020
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

RECEIVED
Office of Oil and Gas

OCT 1 8 2019

47 0 9 0 2 6 6 5
API NO. 47OPERATOR WELL NO. SHR37FHSM
Well Pad Name: SHR37

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: 10-16-19 Date Permit Application Filed: 10-17-19 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) REGISTERED ☐ PERSONAL ✓ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner, W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: CQAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name. CNX Gas Company LLC Name: CNX Gas Company LLC Address: 1000 Consol Energy Drive Address: 1000 Consol Energy Drive Canonsburg, PA 15317 Canonsburg, PA 15317 COAL OPERATOR Name: Name: Address: Address: ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) ☑ SURFACE OWNER OF WATER WELL Name: AND/OR WATER PURVEYOR(s) Address: Name: See attached. Name: Address: Address: ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD □ SURFACE OWNER(s) (Impoundments or Pits) Name: Name: Address: Address: *Please attach additional forms if necessary

API NO. 47- 47 0 9 * 0 2 6 6 5 OPERATOR WELL NO. SHR37FHSM

Well Pad Name: SHR37

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

API NO. 47-____OPERATOR WELL NO. SHR37FHSM
Well Pad Name: SHR37

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

API NO. 47-		
OPERATOR W	ELL NO.	SHR37FHSM
Well Pad Name:	SHR37	

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

RECEIVED
Office of Oil and Gas

™ OCT 1 8 2019

API NO. 47-____OPERATOR WELL NO. SHR37FHSM
Well Pad Name: SHR37

Notice is her	eby given by:
---------------	---------------

Well Operator: CNX Gas Company, LLC

Telephone: 724-485-3244

Email: SarahWeigand@CNX.com

Sud Weigenel

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 deprivacyofficer@wv.gov.

Subscribed and sworn before me this 8 day of october 2019

Foder Plemeny

Notary Public

My Commission Expires

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL
Todd Fleming, Notary Public
Cecil Twp., Washington County
My Commission Expires Sept. 23, 2020
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

RECEIVED Office of Oil and Gas

OCT 1 8 2019

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

CNX RESOURCES CORPORATION 1000 CONSOL ENERGY DRIVE CANONSBURG, PA 15317

RYAN & CARRIE L DAVIS 730 THRUST DRIVE VASS, NC 28394

RIKI NICOLE DUNCAN (RILEY) %100 SHAW AVENUE HAMLIN, WV 25523

DANNY CARL & PATRICIA J HARRIS 16269 MIDDLE ISLAND ROAD WEST UNION, WV 26456

EDWIN D & PATRICIA L MULVAY 3665 SHORT RUN ROAD PENNSBORO, WV 26415

FORREST G. POWELL PO BOX 91 ALMA, WV 26320

ELDEN L, RODNEY DEAN, & TIMOTHY RAY PRATT 873 DUCKWORTH RIDGE ROAD ALMA, WV 26320

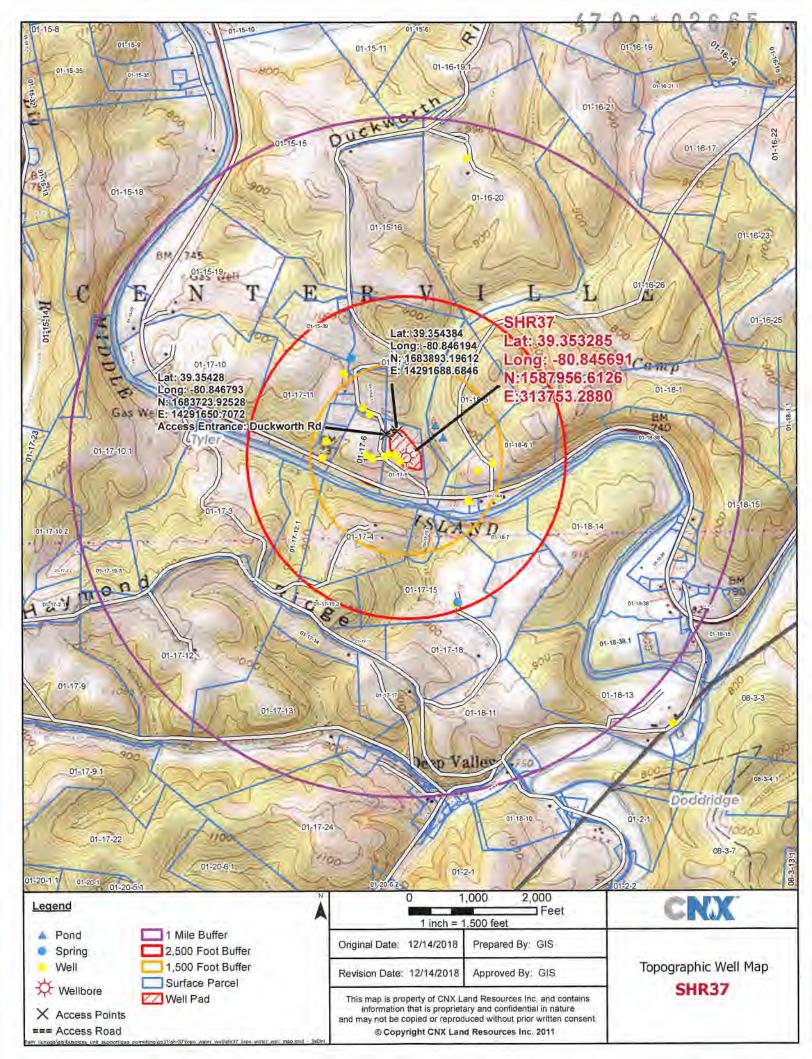
RODNEY D. PRATT 365 DUCKWORTH RIDGE ROAD ALMA, WV 26320

RONALD ROYCE & REVA D. ROWLAND 358 DUCKWORTH RIDGE ROAD ALMA, WV 26320

GAIL WILLIAMSON 195 DUCKWORTH RIDGE ROAD ALMA, WV 26320

DOUG LANTZ 1376 MIDWAY ROAD BELINGTON, WV 26250 RECEIVED
Office of Oil and Gas

OCT 1 8 2019



WW-6A5 (1/12) Operator Well No. SHR37FHSM 6 5

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

	of Notice			o later than the filing opplication Filed:	late of permit	аррисацоп.
Deliv	ery meth	od pursuant to West Virg	ginia Code §	22-6A-16(c)		
	CERTIE	IED MAIL		HAND		
_		N RECEIPT REQUESTED)	DELIVERY		
						and the second second second second second
return the pl requir drillin dama; (d) Th of not	receipt in receipt in lanned opered to be a long of a house to the he notices tice.	requested or hand delivery, peration. The notice requi- provided by subsection (b), orizontal well; and (3) A p e surface affected by oil and s required by this section sl	give the surfared by this so section ten o proposed surfa gas operation all be given t	ace owner whose land ubsection shall include if this article to a surfa- ace use and compens are to the extent the da to the surface owner a	will be used for le: (1) A copy ace owner whose ation agreement mages 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
		by provided to the SURF				
(at the		listed in the records of the	sheriff at the	time of notice): Name:		
	L CNY Gas	Company II C				
Name	CNX Gas					
Name Addre Canon Notic Pursu	ess: 1000 c asburg, PA 15 ee is here	consol Energy Drive 5317 by given: est Virginia Code § 22-6A-	16(c), notice	Address	e undersigned	well operator has developed a planned
Name Addre Canon Notic Pursu opera State: Coun Distri	ess: 1000 consburg, PA 15 ee is here tant to We tion on to ty:	consol Energy Drive 5317 by given: est Virginia Code § 22-6A- the surface owner's land for West Virginia Tyler Centerville	16(c), notice the purpose of	Address is hereby given that th of drilling a horizonta UTM NAD 8 Public Road a	e undersigned well on the tra Easting: Northing:	act of land as follows: 513313.40 4355980.52 Duckworth Ridge Road (CR 58/2)
Name Addre Canon Notic Pursu opera State: Coun Distri	ess: 1000 c asburg, PA 15 e is here ant to We tion on t ty: ict: rangle:	consol Energy Drive 5317 by given: est Virginia Code § 22-6A- he surface owner's land for West Virginia Tyler Centerville West Union	16(c), notice the purpose of	Address is hereby given that th of drilling a horizonta UTM NAD 8	e undersigned well on the tra Easting: Northing:	act of land as follows: 513313.40 4355980.52
Name Addre Canon Notic Pursu opera State: Coun Distri Quad Water	ess: 1000 c asburg, PA 15 ee is here ant to Wa tion on t ty: ict: rangle: rshed:	by given: est Virginia Code § 22-6A- he surface owner's land for West Virginia Tyler Centerville West Union Headwaters Middle Island Creek	16(c), notice the purpose of	Address is hereby given that th of drilling a horizonta UTM NAD 8 Public Road a	e undersigned well on the tra Easting: Northing:	act of land as follows: 513313.40 4355980.52 Duckworth Ridge Road (CR 58/2)
Name Addre Canon Notice Pursu opera State: Coun Distri Quad Water This Pursu to be horize surfac inforn heade	ess: 1000 consburg, PA 15 e is here tant to We tion on to ty: ty: tet: rangle: rangle: rshed: Notice Si tant to We provided ontal wel to affecte mation re	by given: est Virginia Code § 22-6A- he surface owner's land for West Virginia Tyler Centerville West Union Headwaters Middle Island Creek hall Include: est Virginia Code § 22-6A- d by W. Va. Code § 22-6A- d by W. Va. Code § 22-6A- d by oil and gas operation lated to horizontal drilling located at 601 57th Street	-16(c), this not A-10(b) to a since use and constant to the external may be obtained.	Address is hereby given that the of drilling a horizonta UTM NAD 8 Public Road A Generally use office shall include: (1) surface owner whose ompensation agreement the damages are comined from the Secret	e undersigned well on the tra Basting: Northing: Access: d farm name: A copy of this land will be at containing an empensable undersy, at the WV	act of land as follows: 513313.40 4355980.52 Duckworth Ridge Road (CR 58/2)
Name Addre Canon Notic Pursu opera State: Coun Distri Quad Water This Pursu to be horize surfac inform headc gas/p	ess: 1000 consburg, PA 15 e is here ant to Wo tion on to ty: ict: rangle: rangle: rshed: Notice Si ant to W provided ontal well ce affecte mation re quarters, ages/defa	by given: est Virginia Code § 22-6A- he surface owner's land for West Virginia Tyler Centerville West Union Headwaters Middle Island Creek hall Include: est Virginia Code § 22-6A- d by W. Va. Code § 22-6A- d by W. Va. Code § 22-6A- d by oil and gas operation elated to horizontal drilling located at 601 57 th Street mult.aspx.	-16(c), this not A-10(b) to a since use and constant to the external may be obtained.	Address is hereby given that the of drilling a horizonta UTM NAD 8 Public Road A Generally use office shall include: (1) surface owner whose ompensation agreement the damages are comined from the Secret	e undersigned well on the tra Basting: Northing: Access: d farm name: A copy of this land will be at containing an empensable undersy, at the WV	act of land as follows: 513313.40 4355980.52 Duckworth Ridge Road (CR 58/2) CNX code section; (2) The information required used in conjunction with the drilling of a noffer 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-
Name Addre Canon Notice Pursu opera State: Coun Distri Quad Water This Pursu to be horize surfac inform heade gas/p	ess: 1000 consburg, PA 15 ee is here than to Work to w	by given: est Virginia Code § 22-6A- he surface owner's land for West Virginia Tyler Centerville West Union Headwaters Middle Island Creek hall Include: est Virginia Code § 22-6A- d by W. Va. Code § 22-6A- d by W. Va. Code § 22-6A- d by oil and gas operation elated to horizontal drilling located at 601 57 th Street mult.aspx.	-16(c), this not A-10(b) to a since use and constant to the external may be obtained.	Address is hereby given that the of drilling a horizonta UTM NAD 8 Public Road a Generally use on the shall include: (1) surface owner whose ompensation agreement the damages are comined from the Secret leston, WV 25304 (1)	e undersigned well on the tra Basting: Northing: Access: d farm name: A copy of this land will be at containing at the WV 304-926-0450	act of land as follows: 513313.40 4355980.52 Duckworth Ridge Road (CR 58/2) CNX 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-ypdive

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.

RECEIVED Office of Oil and Gas

OCT 1 8 2019

WW-6RW (1-12)

CNX # 294099 001

API NO. 47	
OPERATOR WELL NO.	See Exhibit A
Well Pad Name: SHR 37	

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

work. Please be advised that well work permits are valid	plying for a permit from the State for twenty-four (24) months.	e of West Virginia to conduct oil or gas well
Well Location Restrictions Pursuant to West Virginia Code § 22-6A-12(a), Wells any existing water well or developed spring used for he located within six hundred twenty-five feet of an occupilarger used to house or shelter dairy cattle or poultry dwellings or agricultural buildings that existed on the daprovided in section ten of this article or a notice of intentarticle was provided, whichever occurs first, and to any object with the consent of the surface owner transmitted to clerk of the county commission for the county in which variance by the secretary from these distance restrictions or practices to be employed during well site construction conditions the department requires to ensure the safety articulate insurance, bonding and indemnification, as well as	uman or domestic animal consunted dwelling structure, or a building husbandry. This limitation is apute a notice to the surface owner to drill a horizontal well as providedling under construction prior the department and recorded in a such property is located. Furth upon submission of a plan which in, drilling and operations. The value protection of affected persons and protection of affected persons and districted persons are districted persons and districted persons and districted persons are districted persons and districted persons are districted persons and districted persons and districted persons are districted persons and districted persons and districted persons are districted persons and districted persons are districted persons and districted persons and districted persons are districted persons and distr	nption. The center of well pads may not be ng two thousand five hundred square feet or pplicable to those wells, developed springs, of planned entry for surveying or staking as ided in subsection (b), section sixteen of this to that date. This limitation may be waived the real property records maintained by the ermore, the well operator may be granted a hidentifies the sufficient measures, facilities wariance, if granted shall include terms and
_	WAIVER	
I, Timethy Sumick, hereby state that I have reprovisions listed above, and that I have received copies of WW-6A and attachments consisting of pages one (1) throrequired, and the well plat, all for proposed well work on State: West Virginia	rad the Instructions to Persons Na f a Notice of Application, an App ugh, including the the tract of land as follows: UTM NAD 83 Easting:	lication for a Well Work Permit on Form
County: Tyler District: Centerville	UTM NAD 83 Northing: Public Road Access:	4356027.9910 m
Quadrangle: West Union	Generally used farm name:	Duckworth Ridge Road (CR 58/2) CNX
Watershed: Meadwaters Middle Island Creek I further state that I have no objection to the planned work issued on those materials and I therefore waive all well sit WELL SITE RESTRICTIONS BEING WAIVED *Please check all that apply EXISTING WATER WELLS DEVELOPED SPRINGS DWELLINGS AGRICULTURAL BUILDINGS	FOR EXECU Signature: Print Name: Date: FOR EXECU	Virginia Code § 22-6A-12(a). TION BY A NATURAL PERSON TION BY A CORPORATION, ETC. LUX GAS Campagy LLC
Well Operator: CNX GAS COMPANY LLC	Signature:	m/ster
3y: Raymond Hoon 1s: Permitting Supervisor	Telephone: 724-485-3540	
COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL Douglas E. Smith, Notary Public Cecil Twp., Washington County My Commission Expires Dec. 6, 2020 UE USER PENNSYLVANIA ASSOCIATION OF INTABIES	Dougs & Smith	17 day of December Notary Public
	ommission Expires	0-40 dD

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

WW-6RW Well Location Restriction Waiver

EXHIBIT A

SHR37HSM

Operator Well No.

SHR37DHSM SHR37EHSM SHR37FHSM SHR37GHSM SHR37HHSM SHR37IHSM SHR37KHSM SHR37KHSM SHR37MHSM SHR37NHSM SHR37OHSM SHR37PHSM

SHR37QHSM SHR37RHSM

SAVANAH SYLLACK CAMPRELL DEVELOPMENT 2006 E CARSON STREET PITTSBURGH, PA 15203-1902

Neil A Archer II
TYLER County 10:31:59 AM
Instrument No 1191946
Date Recorded 12/18/2018
Document Type OG
Pages Recorded 2
Book-Page 627-619
Recording Fee \$5.00
Additional \$6.00

RECEIVED Office of Oil and Gas

OCT 1 8 2019



Sarah Weigand Manager Upstream Permitting Work: 724-485-3244 Email: SarahWeigand@cnx.com CNX Center 1000 CONSOL Energy Drive Canonsburg, PA 15317-6506 724-485-4000 cnx.com

October 4, 2019

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

Parole Welganel

RE: SHR37FHSM Waiver Request

To Whom It May Concern:

CNX Gas Company LLC (CNX) as surface and coal owner of the SHR37FHSM drill tract hereby waives the right to receive the Notice of Intent to Drill. An executed Voluntary Statement of No Objection form has been included with this application.

If any further information or correspondence is required, please contact me at (724) 485-3244 or SarahWeigand@cnx.com .

Sincerely,

Sarah Weigand

RECEIVED
Office of Oil and Gas

OCT 1 8 2019

WW-6AW (1-12)

API NO. 47-		
OPERATOR	WELL NO.	SHR37FHSM
Well Pad Nar	ne: SHR37	

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

VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

State:	the well plat, all for proposed well work on the tra	ITM NAD 83 Easting:	513313.40	
County: District:	Tyler	Northing: Public Road Access:	4355980.52 Duckworth Ridge Road	
Quadrangle:		Generally used farm name:		
Watershed:	Middle Island Creek	senerally used farm hame.	ONA Gas Company	
*Please check	the box that applies	FOR EXECUT	TION BY A NATURAL PERSON	
*Please check	the box that applies	Signature: Print Name:		
*Please check SURFAC	the box that applies CE OWNER	Signature: Print Name: Date:		
*Please check SURFAC SURFAC SURFAC	the box that applies CE OWNER CE OWNER (Road and/or Other Disturbance)	Signature: Print Name: Date: FOR EXECUT Company: CNX G	TION BY A CORPORATION, ETC.	
*Please check SURFAC SURFAC SURFAC COAL C	the box that applies CE OWNER CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits)	Signature: Print Name: Date:	TION BY A CORPORATION, ETC.	

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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

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

December 14, 2018

Jill M. Newman Deputy Commissioner

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

Subject: DOH Permit for the SHR-37 Well Pad, Tyler County shr37fhsm Well Site

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2018-0949 for the subject site to CNX Gas Company for access to the State Road for the well sites 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 October 1, 2018.

RECEIVED
Office of Oil and Gas

OCT 1 8 2019

WV Department of Environmental Protection Very Truly Yours,

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

Jary K. Clayton

Cc: Shannon Miller

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

RECEIVED
Office of Oil and Gas

OCT 1 8 2019



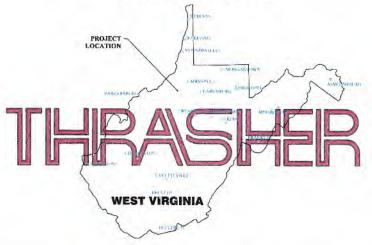
CNX RESOURCES CORPORATION

SHIRLEY 37 WELL PAD AS-BUILT

ENTRANCE LOCATION

NAD 83 - LAT: 39° 21' 15.32"; LONG: 80° 50' 48.62" NAD 27 - LAT: 39° 21' 15.02"; LONG: 80° 50' 49.24"

CENTERVILLE DISTRICT,
TYLER COUNTY, WEST VIRGINIA
DATE: JULY 02, 2019





LOCATION MA

I hereby certify that I am a licensed engineer in the state of West Virginia. This As-Built certifies, to the best of my knowledge, information and belief; the Well Pad constructed by Anderson Excavating in Tyler County, MV on behalf of CNX Resources Corporation, has been constructed in general conformance to the plans and specifications and, in my professional opinion, is in compliance with applicable laws, codes, and ordinances.



	SHEET INDEX					
DWG#	DRAWING NAME					
1	COVER SHEET					
2	PLAN VIEW					
3	PLAN VIEW WITH ORTHO					
4	ACCESS ROAD PROFILE					

Know what's below.
Call before you dig.

Note: Drawing was created on 22x34 paper. 11x17 drawings are half scale. Refer to scale bar for proper scaling.

THE MYOPMAIN'S CONTANTS METERS IN THE SOLF PRODUCTY OF THE THRASHER COOP INC. REPRODUCTION OF THESE DOCUMENTS IN WHOLE ON IN-PART, TOR ANY RESON MITHOUT PRICE WOTTON PERMISSION, IS STRICKLY PROCESSING. CONVIGUE TOOL IN IT. MINISTER SHOULD BE CONVIGUE TOOL IN IT.	2	fac:	(0.25-19	.956/03 A86,6,1
	1	OEC	13-2-19	JPDATED ANNULT
	MO	120	DATE	WINGSTON

WVDEP OOG

ACCEPTED AS-BUILT

10	b.	N	A	M
1	Þ	×	W.	R
10	AERON DICOM DAKIN	OL EN	PHOTEL	UPIVE

\$C448:144	
DRIVING CHIE	DATE STEEP'S
O-ECKED WIZ-	DATE STARTS
REVENUE: RM	CATE INDICA
BUNCYDATE	
SURVEYOR	
PRODUCES IN-	

T	HRASHER	
	12126 WASON DIXON HOHINAY BURTON WV 26562	
PAGE AND THE PAGE	man a state of con-	- 1

	FHASE No.
	CONTRACT NO.
	PROJECT He
_	050 10300

CNX F	RESOURCES	CORF	ORATION
	SHIRLEY	37 SIT	E
	PAD AS	-BUILT	
TYLER	COUNTY.	WEST	VIRGINIA
	COVER	SHEET	

