

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

Permit approval for SHR 37 GHSM Re: 47-095-02669-00-00

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 GHSM

Farm Name:

CNX GAS COMPANY

U.S. WELL NUMBER: 47-095-02669-00-00

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.

API NO. 47	1,2
OPERATOR W	ELL NO. SHR37GHSM
Well Pad Nar	me: SHR37

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

1) Well Operator:	CNX Ga	s Compan	y, LLC	494458046	Tyler	Centervi West Union	
				Operator ID	County	District Quadrangle	
2) Operator's Wel	l Number:	SHR37GH	ISM	Well I	Pad Name: Sh	HR37	
3) Farm Name/Su	rface Own	er: CNX GAS	S COMPAN	IY LLC Public R	toad Access:	DUCKWORTH RIDGE RO	AD
4) Elevation, curre	ent ground:	828'	El	levation, propose	ed post-constri	action: 828'	
	n) Gas _	Х	_ Oil	Uı	nderground Sto	orage	
(b)If Gas	Shallow	Х	Deep			
	1	Horizontal	X			Oak)
6) Existing Pad: Y	es or No		Yes			ye	> ,
 Proposed Targe Target formation 						d Pressure(s): 16 nation pressure ~4000 psi	29/20
8) Proposed Total	Vertical D	epth: 630	2' /				
9) Formation at To				s Shale (will not	t penetrate Or	nondaga)	
10) Proposed Tota	al Measured	d Depth:	19,922' ∨	(
11) Proposed Hor	izontal Leg	Length:	13,137' 🗸				
12) Approximate	Fresh Wate	er Strata De	pths:	92', 126', 144	', 148', 150', 1	76', 220'	
				Offset water we	Il information		
13) Method to De	termine Fre	esh Water L	epths:	Sliger Marer Me	il illiornation		
13) Method to De 14) Approximate			- P		an innormation		
14) Approximate	Saltwater D	Depths: 17	48', 2458	' <i>J</i>		', 526', 618', 955', 992', 10	44'
14) Approximate	Saltwater D Coal Seam	Depths: 17 Depths: N	48', 2458 lo mineal	ble coal seams	; trace @ 154		44'
14) Approximate	Saltwater D Coal Seam Depth to Po d well locar	Depths: 17 Depths: N Depths: N Depths: Voice tion contain	48', 2458 lo mineat d (coal mi	ble coal seams ine, karst, other)	; trace @ 154 : None antic		44'
14) Approximate15) Approximate16) Approximate17) Does Propose	Saltwater December 1 Coal Seam Depth to Pod well locator adjacent	Depths: 17 Depths: Nossible Voice tion contains to an active	48', 2458 lo mineal d (coal mineal a coal sear	ble coal seams ine, karst, other)	; trace @ 154 : None antic	pated	44'
14) Approximate 15) Approximate 16) Approximate 17) Does Proposed directly overlying	Saltwater December 1 Coal Seam Depth to Pod well locator adjacent	Depths: 17 Depths: Nossible Voice tion contains to an active	d (coal mineal coal sear	ble coal seams ine, karst, other)	; trace @ 154 : None antic	pated	44'
14) Approximate 15) Approximate 16) Approximate 17) Does Proposed directly overlying	Saltwater E Coal Seam Depth to Po d well locat or adjacent de Mine Int	Depths: 17 Depths: Nossible Voice tion containst to an active fo: Name:	d (coal mine) coal searce mine?	ble coal seams ine, karst, other)	; trace @ 154 : None antic	pated	44'

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WW-6B	
(04/15)	

API NO. 47		
OPERATOR WELL	NO.	SHR37GHSM
Well Pad Name:	SHR37	7

18)

CASING AND TUBING PROGRAM

TYPE			FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS		
Conductor	20	New	L/S	L/S <94.0 J-55 54.5	100	100 √	96 / CTS
Fresh Water	13.375	New	J-55		54.5	400	400 🗸
Coal	13.375	New	J-55	54.5	400	400 √	278/CTS
Intermediate	9.625	New	J-55	36.0	2600	2600 🗸	834 / CTS
Production	5.5	New	P-110	20.0	19,922	19,922	4083 / TOC @ 2100'
Tubing	2.375	New	J-55	4.7		TBD	N/A
Liners	N/A						

90B 10/29/2019

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor 20 24	24	0.375	N/A	N/A	Type 1	1.18	
Fresh Water 13.375 17.5 Coal 13.375 17.5		0.380	2730	<500	Class A	1.19	
		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:			

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WW-6B	
(10/14)	

API NO. 47	
OPERATOR WELL NO.	SHR37GHSM
Well Pad Name: SHR3	7

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.

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*Note: Attach additional sheets as needed.

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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.

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DRILLING WELL PLAN

SHR-37G-HSM (Marcellus HZ)

Marcellus Shale Horizontal

Tyler County, WV

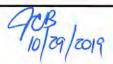
							Tylet County, WV						
					SH	R-37G-H	ISM SHL	N 31	3572.85, E 1619503	.52 (NAD27)			
Ground Elevation		828 GL E	levation		SI	SHR-37G-HSM LP		N 313940.85, E 1619943.56 (NAD27)					
Azimuth		341°			SHR-37G-HSM BHL			N 326362.09, E 1615666.59 (NAD27)					
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	MD	TVD	MUD	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		Set through fresh water zones			
	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	joint from shoe to surface Bow spring centralizers	Ensure the hole is clean at section TD	Cemented to surface No known mineable coal seams			
			Fresh Water Casing	400	400		TOC @ surface		1				
			No mineable coal zones		N/A	111			Arralize every 3rd not from shoe to surface Soap the hole as needed and ensure the hole is clean at section TD Soap the hole as needed and ensure the hole is clean at section TD Casing to be Injury and Ber Once at TD, circulate at max flowrate with max rotation until shakers clean-up (typically requires multiple bottoms-up) Once on bottom with casing, circulate a minimum of one circulate and circulate at max flowrate with max rotation until shakers clean-up (typically requires multiple bottoms-up)	Set through potential salt water zones Cemented to surface Casing to be set below the Big Injun and Berea and into Devonia			
			Big Lime		1683		10.000						
	12-1/4"	9-5/8" 36.0# J-55 LTC	Big Injun		1748	AIR/	15.6 ppg Class A + 0% to 2% CaCl2 + 1/4 pps Flake 20% OH Excess Yield = 1.19	Centralize every 3rd joint from shoe to surface					
			Price	E/C/	1888								
1.0			Weir		2018								
			Berea	- 1	2238		TOC @ surface	Bow spring centralizers					
100			Gordon		2458								
100			Intermediate Casing	2600	2600								
	1 - 1		Warren		3153		10.00						
	8-3/4"		Benson		4733	J	45 0 Class A U						
	Tangent		Alexander		4978	AIR	15.0 ppg Class A or H with additives (retarder,						
			Cashaqua		5978		suspension agent, gas block, defoamer, fluid	Controller averaging		Note: Actual centralizer placeme			
		5-1/2" 20.0#	Middlesex	100	6083		loss, extender, etc.)	from shoe to TOC		may be changed due to hole conditions			
10 10		P-110 VAR	West River		6123		10% OH Excess	Cinale piece/daid have					
1			Burkett	V	6193		Yield = 1.10	centralizers		Note: Actual cement blends may vary slightly depending upon			
	8-1/2" Curve		Tully	1	6223	12,0-12,8	TOC @ >= 500' above			service company utilized			
	& Lateral		Hamilton	1	6243	ppg SOBM	9-5/8" shoe						
			Marcellus		6261								
			Production Casing	19922	6302			. 1					

LP @ +/- 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)

+/- 13137' Lateral

TD @ +/- 6302' TVD



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 < Rhodes, Jacob K < Jacob K < a href="mailto:Jacob.K.Rhodes@wv.gov">Jacob

Simmons, Walter G < Walter.G.Simmons@wv.gov>; Kees, Kelly L < Kelly.L.Kees@wv.gov>; 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.

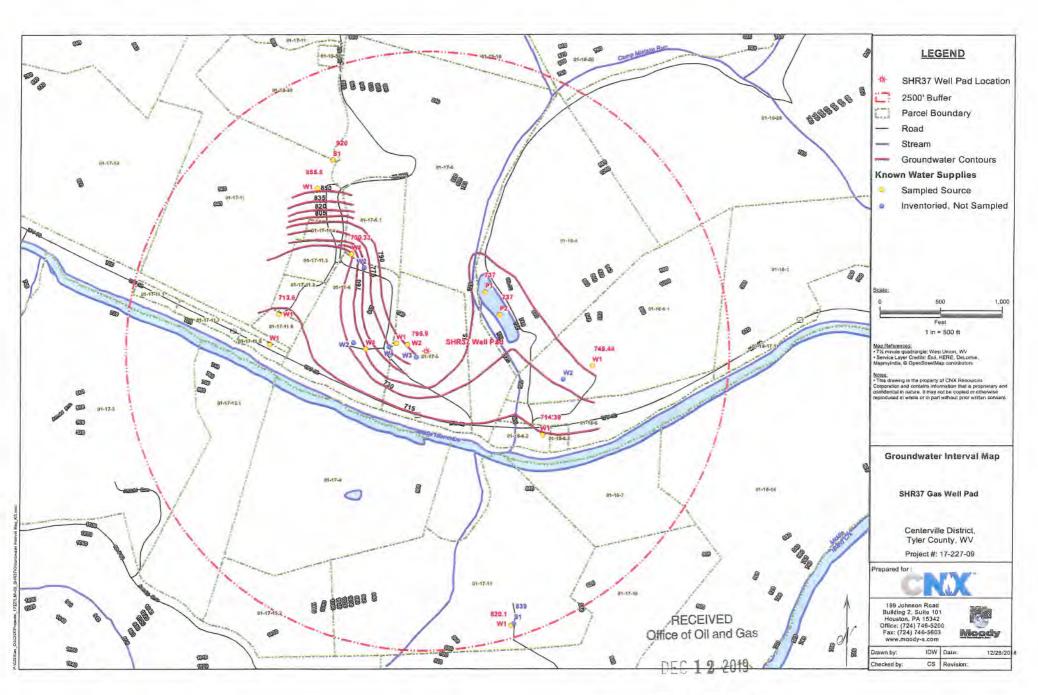
Everything looks good in terms of the WW-6B and the casing plan.

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

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WV Department of Environmental Protection

National Flood Hazard Layer FIRMette

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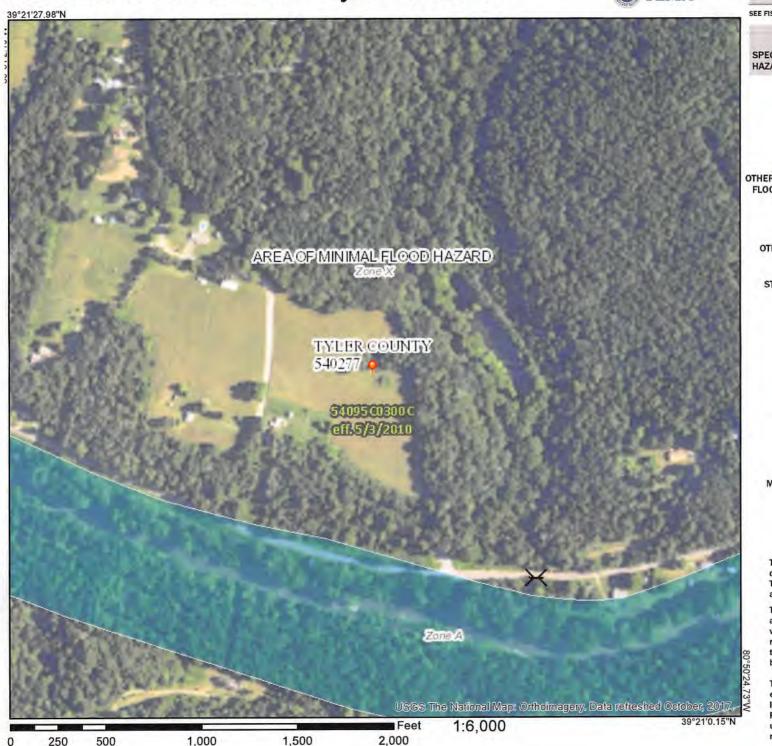


Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD Regulatory Floodway HAZARD AREAS 0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone) **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes, Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X **Effective LOMRs** OTHER AREAS Area of Undetermined Flood Hazard Zone GENERAL - - - Channel, Culvert, or Storm Sewer STRUCTURES | | | Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance **Water Surface Elevation Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary** -- -- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature **Digital Data Available** No Digital Data Available MAP PANELS Unmapped 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).

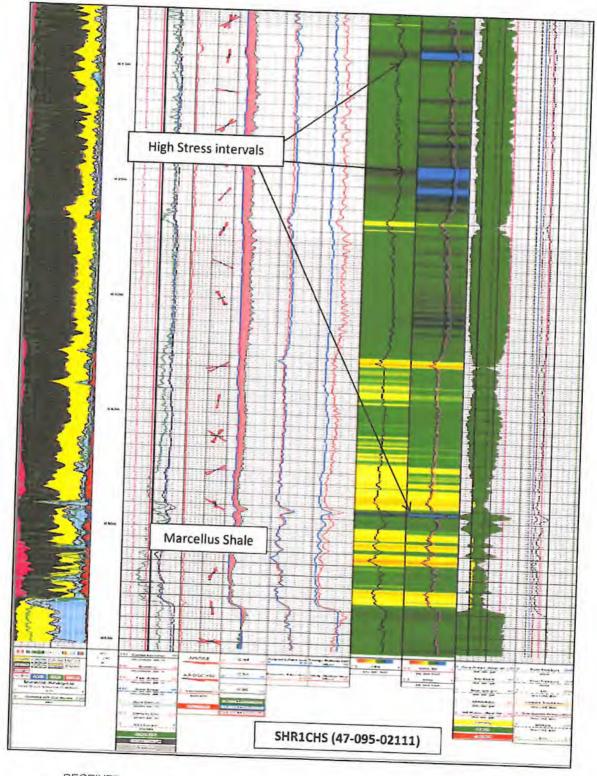
The Marcellus Shale of the Shirley area is found at an approximate True Vertical Depth (TVD) of 6500'. In the Shirley area, there are very few producing formations between the Big Injun and the Benson Sand. Most wells are either approximately 2000' or 5000' deep. Although there are a significant number 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.

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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.

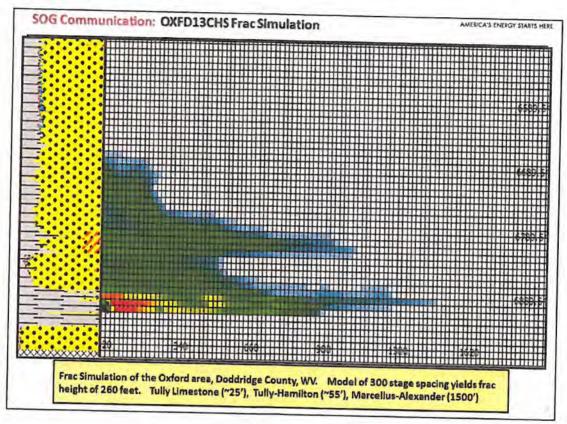


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Figure 2. Stratigraphic intervals of high stress should serve as adequate frac barriers for a Marcellus frac. The frac modeling example below is from the Oxford area of western Doddridge County, where the Marcellus and adjacent shallower shales are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



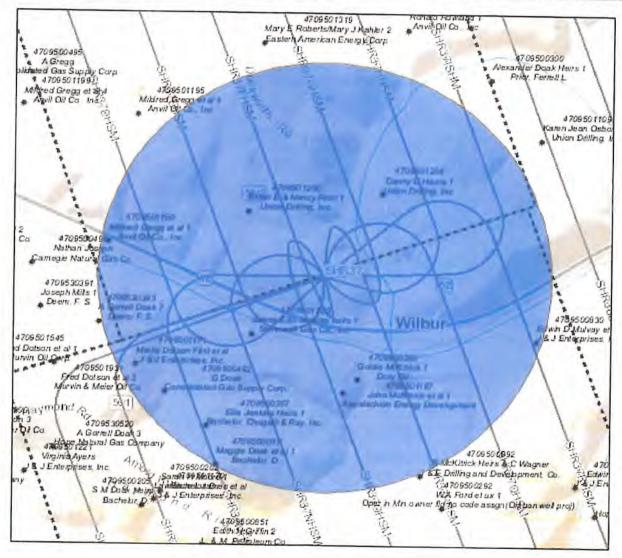
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Figure 3. All wells within a 2640' buffer around the SHR37 pad center have been reviewed and listed below.

API	_	COUNTY	LATITUDE	LONGITUDE	OPERATOR	STATUS	WELL NAME	lwei vol	PLUG DATE	TO	1 222	i di anticata i	. 2000	
4709500492	WV	Tyler	39.34947695	-80.85201064	Consolidated Gas Supply Corp.	Gas	G Doak	ALCEL IND	PLUG DATE		FMTD	ELEVATION	FIELD_NAME	COMMENTS
4709500992	WV	Tyler	39.34683572	-80.84205087	J & E Drilling and Development, Co.			-		1916	Squaw	862	Unnamed	Ground Leve
4709501200	WV	Tyler	39.35527799	-\$0.84883673	Union Drilling, Inc.		R McKitrick Heirs & C Wagner			5014	Benson	960	Wilbut	Ground Level
4709500280	WV	Tyler	39.34991182	-80.84453982		Gas	Elden E & Nancy Pratt	1		4927	Benson	633	Wilbur	Ground Level
4709501167	WV	Tyler	39.34947683	-80.845099E	Duty Oil	Dry	Goldie McKitrick	1	9/22/1959	945	Ist Cow En/Moundsvie	816	Wilbur	Ground Level
4709530393	WV	Tyler			Appalachian Energy Development	Gas	John McKitrick et al	1		4966	Benson	818	Wilbur	Ground Level
4709500037	wv	-	39.35169904	-80.85462559	Deem, F. S.	Gas	A Gorrell Doak	7		2110	Big injun (undiff)	1052	Stanley	
		Tyler	39.34715688	-80.84995569	Bachelor, D.	Dry	Maggie Doak et al	1	10/4/1935	1193	1st Cow Rn/Moundsvie	1109		Ground Level
4709501204	WV	Tyler	39.3558579	-80.84360685	Union Drilling, Inc.	Gas	Dariny C Harris	1	207-72000	4919				Field Topo Ma
4709500257	WV	Tyler	39.34838191	-80.85035268	Bachelor, Choguill & Ray, Inc.	Dry	Ellis Jenkins Heirs	1	4/11/1958		Benson	771	Wilbur	Ground Level
4709501223	WV	Tyler	39.35136192	-80.84864873	Stonewall Gas Co., Inc.	Gas	James Ellis Jenkins heirs	1	4/11/1250	1103	1st Cow Rn/Moundsvie	1098	Wilbur	Ground Level
4709501171	WV	Tyler	39.35034699	-80.85313162	J&J Enterprises, Inc.	Gas	Mattie Dotson Flint et al	1		4954	Benson	150	Wilbur	Ground Level
4709500830	WV	Tyler	39 35118671	-80.83757999	J & J Enterprises, Inc.			-		5469	Alexander	948	Wilbur	Ground Level
4709501150	WV	Tyler	39.35426206	-80 85425361		Gas.	Edwin D Mulvay et ux			5136	Alexander	800	Wilbur	Ground Level
		1	22:22-10200	-80.63453301	Anvil Oil Co., Inc	Gas	Mildred Gregg et al	1		4795	Benson	719	Wilbur	Ground Level



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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	STATE		LATITUDE		OPERATOR.	STATUS	WELL NAME	WEIL NO	PLUG DATE	1 70	FNITO	ELEVATION	A marriage
4709501442		Tyler	39.33517	-60.8336774		Canceled Permit		1114	PEOG DATE	0			COMMENT
470957D102		Tyler	35.5753024		Carnegie Natural Gas Co	Ger	Laure Conaway	1	-	0		804	-
701703451	WV	Doddridge		-80.5336774		Canceled Permit	and a second			0		735	Ground Lev
701771455			39.3308663	-80,63576	Hope Natural Gas Company	not available	Elles Thomas			0		804	
4701704570		Doddridge		-80,8393069	unknown	not evel lable	McKendry Dotson 1		-	0		E71	
709530890	77.5	Tyler	39.3383578		Hope Natural Gas Company	not evallable	Robert Doek	1 1		_		958	
701771456	_	Doddr dge	39 5569755	-80.8299341	unknown	not avelleble	McCutchan-Haines 1	1		0		1116	Spirit Leve
4709500044	WV	Tyler	59.5951758	-80.8557597	unknown	not available	B.S.Smith		-	0		930	
701704186	-		59.8257924	-80.8418618	Ritchie Petroleum Corp.	not available	Erake Samuel 1	1	-	0		816	Ground Lev
701771447	WV	Doddridge	59.5211421	-80.833294	Hope Natural Gas Company	not available	Lawrence James	-		0		1051	
701701082	WV	Doddridge	59.5220222	-BO.B34267	Prior, Ferrell L DBA Prior Oil Company	not svallable		+		0		B65	
701771448	WV	Doddridge	59,3207062	-80 8396799	unknown	not available	W H Pigott 3 S Yepter	-	-	0		930	
701703945	WV	Doddridge	39.53317	-80.8336774		tion available	Syepter	-		0		751	
701771455	WV	Doddridge	59.3572634	-80 S3352	Hope Natural Gas Company	and as a stable	4000		-	0		804	
709550160	WV	Tyler	59.3281125	-50 8464037	Hope Construction & Refining	not evertable	Wagner	-		0		746	
701771498	WV	Doddridge	39.3301403	-80.835294	unknown	not evallable	E M Jackson	7		0		1115	Ground Leve
701771429	WV	Doddridge	89 9252054	-50,8460267	unknown		8 Hendershot 1	-		0		762	
701771427	WV	Doddridge	99.5230282	-BO.8376269	Oper in Min.owner fid.no code assgn(Orphan well proj)	not available	Cisco Dotson			0		989	-
709500292	WV	Tyler	99.3458127	-50 8411859	Oper in Min.owner fld.no code assgn(Orphan well proj)	not available	Mary Montgomery 1			0		790	
701771428	WV	Doddridge	39.3257864	-BD 8411736	unincyn	not available	W A Ford et us	1		0		841	Spirit Level
701709402	WV	Doddridge	59.55517	-80 8556774	DUNDONU - III	not everiable	Cisco Dotson 1			0		1040	
701750895	WV.	Doddridge	39 3211415	-BD 8400528	unknown					0		BD4	
709501493	WV	Tyler	39.33317	-20.8336774	CURINDING MANAGED	not available	5 Yeatar			0		786	
701704399	WV	Doddridge		-80.839E774						0		B04	
701771425	WV		39.5228854	-80.843786E	31.0					0		804	1200
709501159	WV	Tyle:	39.33317	-80.8336774	nimm unknown manus	not available	Arlington Dotson 2			0		819	
701703943	WV	Doddridge	39.53317	-80.8336774						0		804	
701730182	WV		59.3159643	-BD.8422938						0		804	
701771454	WV		39.5527524	-80.8593059	Philadelphia Oil Co.	not available	F Dotson	5		0		840	
709530159	wv	Tyler	99.5286925	-BO.B481707	Hope Natural Gas Company	not available	Wagner			0		252	
701771451	WV		39.3295605	-80.6445558	Hope Construction & Refining	not available	E M Jackson	1		0		1197	Souris Level
701703944	wv	Duddridge	39.55517	+50 8356774		not evallable	Alfred Dotson 1			0		1087	- SP 1110 BX 141
09505470	WV	Ritzhie	39.35517	-BC.8336774						0		804	
709500290	wv		39.3499110	-80.8445398						0		804	
09500715	WV			-80.8587489	Duty Oil	Dry	Goldie McKitrick	1	9/22/1959	945	1st Cow Rn/Moundsyle	519	Ground Leve
09500202	WV			-50.8521136	industrial Gas Associates	Dry	W Paul McCutchen	5	abandoned	945	Lo Front Sa/Front Sa	780	Ground Leve
09500205	WV				Eachelor, D	Dry	Sarah H Moore	1	8/14/1951	1096	1st Cow Rn/Moundsvie	1054	Ground Leve
D95D0267	WV			-80.8528375	Bachélor, D.	Dry	5 M Doel Heirs	1	11/29/1951	1100	Mehonig Ss/Big Dunk	1056	Ground Leve
09500057	WV	-	2514.142.44	46.414551	Bachelor, Choguill & Ray, Inc.	Dry	Ellis Jenkins Heirs	1	4/9/1958	1103	1st Cow Rn/Moundsvie	1098	Ground Leve
01701070	WV			-90.8499557	Bathelor, D.	Dry	Maggie Dook et al	1	11/4/1935	1193	1st Cow Rn/Moundayle	1109	Field Topo Ma
01750056			59.3210802	·\$0.8390849	Prior, Ferrell LDBA Prior Oil Company	Oil	D Garner 1			1792	Big injun (undiff)	729	Ground Leve
D8500300	WV		39.3336704	-80,53464	Hope Natural Gas Company	Gas	Austin Doak		-	1800	Big injun (undiff)	759	Ground Leve
01700014	-		39.3595159	-80.839415	Prior, Ferreli L	Gas	Alexander Doal Heirs	1		1836	Big injun (undiff)	785	Ground Leve
	_	-	89.5228924	-80.8457855	Foley DII & Gas	Oil and Ges	Arthur Yester	1 2		1845	Big injun (undiff)	775	
09500288	WV		59.5394627	-80,8472267	Oper in Min owner fid no code assgn(Orphan well proj)	Cas	Dale Ash	1		1849	Big Injun (undiff)		Ground Leve
01701092				-90.8412965	Hickman, Charles L	Dry w/ D&G Show	Arlington Dotson Hrs 3	1	1964	1865	Big injun (undiff)	857	Ground Leve
01750101			59.3320285	-80.88464	Deem, F. S.	Dil and Gas	Henderson Walton	1	4304	1880		750	Ground Leve
D173D445				90.8426675	Clifton Oll & Gas	Oil and Gas	McKendry Dotson	2	-	1882	Big Injun (undiff)	802	Ground Leve
09500593	WV.	Tyler	39.3857067	-SD.8628425	Mann Drilling	Dil	H B Smith & Ash	1		1900	Big Injun (undiff) Big Injun (undiff)	B20 B05	Ground Level

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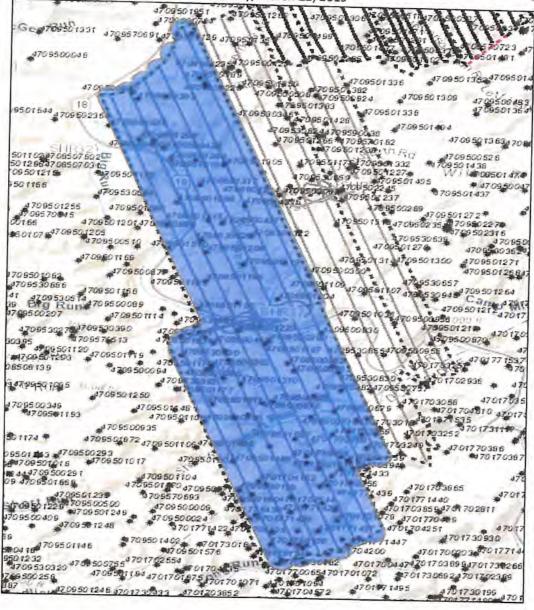


7 Tel 27 Tel 2	_	_			, iucjuu	V, IVIGICII	12. 2019					THE RESERVE OF THE PERSON NAMED IN
470957018		Tyler	39,3869136	-80.8544647	Philedelphia Company, The	1	1			-		ANA P
470950049		Tyler	39.349477	-80.8520106		Gts	W N Moore		1901	Sig Injun (undiff)	850	Ground Level
470170020		Doddridge	39 3321735	-80.832953	P & M OH Co.	Gas	G Doek		1916	5gupw	862	Ground Level
470953052		Tyler	39.364170		Pittsburgh & WV Gas	Dry w/ O&G Show	Control Control	1	1916	Big injun (undiff)	883	Ground Level
470173016		Doddridge	89.5324633	-80.6314391	Hope Natural Gas Company	Ges w/ Oil Show	The same of the sa	1	1925	Sig injun (undiff)	898	Ground Level
470175115		Daddridge	39.3266563	-80.8393059	Hickman, Charles L	Gas	E A Hendershat		1930	Big Injun (undiff)	870	Ground Level
470175027		Doddridge	39,3272425	-80.8478967	Hope Construction & Refining	Oil and Gas	Cisco Dotson	1	1973	Big Injun (undiff)	961	Ground Level
4701701069		Doddridge	59.3185952	-80.8393859	Prior, Ferrell L DBA Prior Oil Company	Oll w/ Gas Show	7.0911112-022		1978	Squaw	958	Ground Level
470175010		Doddridge	39.3520284		Deem, F. S.	Oil w/ Gas Show	W H Pigott Hrs 1		1985	Big Injun (und(ff)	1010	Ground Leve
4701750256		Doddridge	59,5390824	-80,8525411	Clifton Oll & Gas	Oil and Gas	Okey Washburn		1967	Sig Injun (undiff)	826	Berometer
4709500428		Tyler	39.3767876		Warren Drilling Co. (John R. Warren)	Ges w/ Oil Show	Lewis Maswell Heirs	1	1010	Big Injun (undiff)	1053	Ground Level
4709530520		Tyler	39.347639	-80.8565055	Hope Natural Gas Company	Gas w/ Dil Show		1	2052	Weir	720	Ground Leve
4709550393	WY	Tyler	59,551699	-80.8546256	Deem, f. S.	Gas w/ Oil Show	A Gorrell Doal	5	2105	Big injun (undiff)	1072	
4701702359	wv	Doddridge	39 3365394	-80 8318811		Gas	A Gorrell Dock	7	2110	Big Injun (und ff)	1082	Ground Level
4701702356	WV		39.3294574		industrial Gas Associates	Oil and Gas	LG Hammer 1		2300	Weir	915	Ground Level
4709500679	·wv	Tyler	39.3402015		industrial Gas Associates	Oll and Gas	N Shepherd 1		2303	Weir	_	Ground Level
4701702514	WV	Doddridee	39.3270163	-80.8370789	Industrial Gas Associates	Oll and Gas	Hattle Bradford	2	2315	Weir	920	Ground Level
4709500851	WV		39.3445459	-80.8505147	industrial Gas Associates	Oil and Gas	Paul James 1		2590	Weir	780	Ground Level
4709500676	Wy	Tyler	59.3411227	-80.8452958	L & M. Petroleum Co.	Ges	Edith H Griffin	2	2465		1000	Ground Level
4709530600	wv		39.3422726	-80.8383759	Industrial Gas Associates	Oll and Gas	Paul McCutchen	1	2466	Berea Ss Fifty-foot	1010	Ground Level
4709501931	wv		39.3503471		Hope Natural Gas Company	Gas	W P Bradford	-	2495		950	Ground Level
4701701079	wv		39.5246812	-80.8563066 -80.834929	Murvin & Meler Off Co.	Dry W/ Gas Show	Fred Dotson et al	2	2531	Gantz	562	Ground Level
4709500220	WV		39.3861746	-80,834929 -80,8539507	Prior, Ferrell L DBA Prior Oil Company	Dry	Elizabeth Thomas 1	-	2553	Beres Ss	999	Kelly Bushing
4709500400	WV		39.3779476		Oper in Min.owner fid no code assen(Orphan well proj)	Dry w/ O&G Show	Okey F & Ora Nelson Moore	1	2605	Big Injun (undiff)	771	Ground Level
4709530930	WV		39.3456086	-80,8604265	Quaker State Oil Refining Co.	Dry w/ o&G show	Dale Ash Jr	1	2610	Gordon	752	Ground Level
4709500813	wv		39.3661344	-80.835201	Hope Natural Gas Company	Gas	William Smith			Well	816	Ground Level
4709501150	WV			-90.8585535	L & M. Petroleum Co	Gas w/ Orl Show	Frank Dillion	1	3400	Fifth	745	Ground Level
4709501298	WV			-BD 8542536	Anvil Oil Co., Inc	Gas	Mildred Gregg et al	1		Warren First	810	Ground Level
4709501817	wv		39.3753365	-50.6581836	Coastal Corp. The	Gas	Randall & Dorette Ash	1	4795	Benson	715	Ground Level
4709501167	WV		89.3715094	-80.8543587	Coastal Corp, The	Gas	Duane & Sandra Clark	8	4858	Benson	729	Ground Leve
4709501210	wv		39.3494768	-50,9450998	Appa schian Energy Development	Gas	John McKitrick et al		4855	Benson	737	Ground Level
4709501204	WV		39.3628183	-80,8583655	Anvil Dil Co. Inc	Gas	David Gregg et al	1	4866	Senson	818	Ground Level
4709501304	-		39.5558575	-80,9436069	Union Drilling, inc.	Gas	Danny C Harris	6	4892	Benson	745	Ground Level
4709501304	WV		39.9738402	-80,8459519	Coastal Corp. The	Gas	Duane Clark et al	1	4919	Benson	778	Ground Level
	WV			-80.8624815	Coastal Corp. The	Gas w/ Oil Show	Reigh Ash et us	1	4923	Benson	758	Ground Level
4709501200	WV			-50,8455367	Union Drilling, Inc	Gas		2	4927	Benson	727	Ground Leve
4701703558			39,3368604	-80.835761	Stonewall Gas Co., Inc.	Gas	Elden E & Nancy Pratt	1	4927	Benson	533	Ground Level
4709501225	WV			-80.8486487	Stonewall Ges Co., Inc.	Ges	Char Stinespring		4951	Benson	532	Ground Level
4709501816	WY			-80.8452798	Eastern American Energy Corp.	Gas	James Ellis Jenkins heirs	1	4954	Benson	850	Ground Level
709501855	WY			-90,8537017	DAC, Inc	Gas	Mary E Roberts/Mary J Kahler	5	4954	Benson	993	Ground Level
4709501224	WY	Tyler	39.361075	-90.8426739	Anvil Oil Co., Inc		More A Mossulia et un	1	4955	Benson	877	Ground Level
						Ges	Ronald Rowland	1	5010	Senson	963	Ground Level

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100	D. FT	-
0	NU	-

470950131	5 WV	Tyler	30 366970	3 -80.8529497	, idesua	, iviarch	12, 2019						TUNE
470950099		Tyler	39.346535		Eastern American Energy Corp.	Gas						-	FIG.
470950130	5 WV	Tyler	59.374710		1 & E Drilling and Development, Co.	Ges	Mary E Roberts/Mary J Kahler	2	11	5014	Benson	917	I command
470950120		Tyler			Coastal Corp. The	Gas w/ O: I Show	R McKitrick Heirs & C Wagner	-		5014	Benson	960	Ground Le
470950120		Tyler	39.334975	4000	Stonewall Gas Co., Inc.	Gas		7	1	5016	Benson	930	Ground Le
70170279		Doddridge	39,361383		Anvit Oil Co., Inc		Charter D Stinespring	- 2		5056	Benson		Ground L
70950078					J& JEnterprises, Inc.	Gas	David C Greez et al	- 5		5068	Benson	1007	Ground Le
70950132		Tyler	39,343074		1 & J Enterprises, Inc.	GES	L Shepherd			5070	Alexander	991	Sround Le
70950131		Tyler	59.364704		Eastern American Energy Corp.	Gas	Delmer Mulvay			5100	Alexander	900	Ground Le
70950132		Tyles	39.540920		Eastern American Energy Corp.	Gas	Mary E Roberts/Mary J Kehler	1		5127	Benson	750	Ground Le
	-	Tyler	39.5841627		Coestel Corp. The	Ges	Le grence & Theims James	4		5150		910	Ground Le
709500830			39,3511867		J & J Enterprises, Inc.	Gas w/ Oil Show	George W & Carolyn Moore	100		5153	Alexander	800	Ground Le
70950131	-		39.3606431	-80,5482778	Eastern American Energy Corp.	Gts	Edwin D Mulvey et us			5136	Benson	965	Ground Le
701705835	-	Doddridge	39.3536705	-80.8593089	Stonewall Ges Co., Inc.	Gas	Mary E Roberts/Mary J Kahler	- 2		5141	Alexander	800	Ground Le
709501669		Tyler	39.5390357	-80.8490197		Gas	Charter Stinespring 3	-	1		Benson	995	Ground Le
709501495		Tyler	39.3327536		DAC, Inc.	Ges	Leonard & Renie Smith	1	1	5150	Benson	1042	Ground Le
01704124	WV	Doddridge	39.3246325	-90.8467757	Nugent & Sons, Inc.	Ges	Marice J Carlisle/Raiph Thacker	1	-	5175	Benson	1051	Ground Le
01702964	WV	Doddridge	39.3261573	-80.835354	Key Oll Co.	Gas	Samule J Brake 2	-	-	5180	Alexander	907	Ground Le
01703016	WV	Doddridge	59.5593254	-50.8312561	J & J Enterprises, Inc.	Gas	Lannié James	-	-	5216	Alexander	902	Ground Le
09501557	wv		39.3361355		1 & J Enterprises, Inc	Ges	W P McCutchen	-	-	5267	Alexander	985	Ground Le
01703389	WV	Doddridge		-80.831994	Key Oil Co	Gas w/ Oll Show	Robert E Burgess Sr	-		5505	Alexander	920	Ground Le
01704161		Doddridge		-80.836521	J & J Enterprises, Inc.	Ges	Lijames	1	-	5321	Alexander	1020	Ground Le
09500920	wv		39.5846178		Key Dil Co.	Ges	Lonnie James 1	_	-	5322	Alexander	966	6/bund Le
01704200	wv	Doddr)dge			Triad Hunter, LLC	Gas	Kenneth Sincleir			5836	Alexander	962	Ground Le
01703249		Doddridge			Murvin Oil Corp.	Gas				5337	Alexander	790	Ground Le
01704126		Doddridge			J & J Enterprises, Inc.	Gas	Car (G James 1			555D	Alexander	1045	Ground Lev
9500925	wv				Key Oll Co.	Gas	W P Bush et ux			5363	Benson	965	Ground Lev
1704128		-	39.5414527	-80,8439705	J & J Enterprises, Inc.	Gas	Carroll Shepherd 2			5375	Alexander	1030	Ground Les
9501171	WV		9.8278224		Kéy Oli Ca.	Gas	W Paul McCutchen			5428	Alexander	1025	Ground Lev
9501510	WV		39.350347	-90.8531516) & J Enterprises, Inc.	561	Samuel J Brake 1			5436	Alexander	1075	Ground Lev
9500831	-			-80.8482757	Eastern American Energy Corp.		Mattle Dotson Flint et al			5469	Alexander	948	
9501170	WV		9.5465506	-\$0.836D01	J & J Enterprises, Inc.	Ges	Lawrence L.A. Theima & James	5		5490	Alexender	1065	Ground Lev
	WV.	Tyler	9.5459969	-80 5528526	J & J Enterprises, Inc.	Ges	Edwin D Mulvay	2		5512	Alexander	840	Ground Lev
1704162		Doddridge 3		-80.8456567	Key Dill Co	Ges	Lawrence L James et al			5550	Alexander		Ground Lev
9501195	WV		9.3583231	-80,9531836	Anvil Oil Co., Inc	Ges	Lonnie James 2			5552	Alexander	1052	Ground Lev
9501086	WV	Tyler S	9.3693444	-80,8572466	Kepeo, Inc.	GRS	Mildred Gregg et al	5		5578	Braffier	1170	Ground Lev
9500427	WV	Tyler 3			Doming their delicate	Gas	Theims Ferguson et al			5656	Rhinestreet Sh	925	Ground Levi
					Guarer State Oil Retining Co. 0	ry w/ O&G Show	C D Cottruil	-1	9/17/1953		neithestreet Sh	729	Ground Leve
								-	-121/1933	5219		957	Ground Leve

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API Number 47 -

Operator's Well No. SHR37GHSM

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

Operator Name CNX Gas Company, LLC OP Code 494458046	
Watershed (HUC 10) Headwaters Middle Island Creek Quadrangle West Union	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No No If so, please describe anticipated pit waste: no pits	
Will a synthetic liner be used in the pit? Yes No If so, what ml.? NA	
Proposed Disposal Method For Treated Pit Wastes:	
Land Application Underground Injection (UIC Permit Number 47-001-00561, 47-097-01514, 47-097-01613, 34 Reuse (at API Number Pens3 and Pens21 wells API TBD Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain No Pits	-013-2-0609)
Will closed loop system be used? If so, describe: Yes	Julyalana
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Versual are hort apaddisurfaced.	to curve lock-off point (KOP).
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	rve KOP to lateral TD
Additives to be used in drilling medium? Bactericide, Polymers, and Weighting Agents	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Land Application of soil conductor cuttings only, all other cuttings will be take	en to an approved Landfill
Difficultings disposal inclined. Leave in pit, faildfiff, felloved offsite, etc.	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A	rejected at any
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A -Landfill or offsite name/permit number? See attached. Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall	rejected at any l also disclose ON PERMIT issued understand that the for other applicable submitted on this ely responsible for
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A -Landfill or offsite name/permit number? See attached. Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall where it was properly disposed. I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTIO on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. It provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information application form and all attachments thereto and that, based on my inquiry of those individuals immediate obtaining the information, I believe that the information is true, accurate, and complete. I am aware that the penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature	rejected at any l also disclose ON PERMIT issued understand that the for other applicable submitted on this ely responsible for here are significant
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A -Landfill or offsite name/permit number? See attached. Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall where it was properly disposed. I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTIO on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. It provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information application form and all attachments thereto and that, based on my inquiry of those individuals immediate obtaining the information, I believe that the information is true, accurate, and complete. I am aware that the penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Company Official (Typed Name) Sarah Weigand	rejected at any l also disclose ON PERMIT issued understand that the for other applicable submitted on this ely responsible for here are significant
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A -Landfill or offsite name/permit number? See attached. Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall where it was properly disposed. I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTIO on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. It provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information application form and all attachments thereto and that, based on my inquiry of those individuals immediate obtaining the information, I believe that the information is true, accurate, and complete. I am aware that the penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature	rejected at any l also disclose ON PERMIT issued understand that the for other applicable submitted on this ely responsible for

Lime according to pH te	ent: Acres Disturbed 1	5.57 Prevegetation	рН 0.0					
Fertilizer type 10-20-	Tons/acre or to corre	ect to pH 7.0						
refunzer type ==	-20							
Fertilizer amount 500		lbs/acre						
Mulch hay or straw	v @ 2	Tons/acre						
		Seed Mixtures						
Тетр	porary	Perr	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					
provided). If water from the pit acreage, of the land application	will be land applied, in area.	nd application (unless engineered plans inc clude dimensions (L x W x D) of the pit, a	luding this info have b nd dimensions (L x W					
Maps(s) of road, location, pit ar provided). If water from the pit acreage, of the land application Photocopied section of involved Plan Approved by:	will be land applied, in area.	clude dimensions (L x W x D) of the pit, a	luding this info have be and dimensions (L x W)					
provided). If water from the pit acreage, of the land application Photocopied section of involved	will be land applied, in area. d 7.5' topographic sheet	clude dimensions (L x W x D) of the pit, a	luding this info have be ind dimensions (L x W).					
provided). If water from the pit acreage, of the land application Photocopied section of involved Plan Approved by:	will be land applied, in area. d 7.5' topographic sheet	clude dimensions (L x W x D) of the pit, a	luding this info have be ind dimensions (L x W).					
provided). If water from the pit acreage, of the land application Photocopied section of involved Plan Approved by:	will be land applied, in area. d 7.5' topographic sheet	clude dimensions (L x W x D) of the pit, a	luding this info have be ind dimensions (L x W).					
provided). If water from the pit acreage, of the land application Photocopied section of involved Plan Approved by:	will be land applied, in area. d 7.5' topographic sheet	clude dimensions (L x W x D) of the pit, a	luding this info have be ind dimensions (L x W).					
provided). If water from the pit acreage, of the land application Photocopied section of involved Plan Approved by:	will be land applied, in area. d 7.5' topographic sheet	clude dimensions (L x W x D) of the pit, a	luding this info have be ind dimensions (L x W).					

WV Department of Environmental Protection

TENORM Transfer/ Treatment/Downblending Facility	Location		Accepted Waste Streams	Contact Information
austin Master Services - reatment. Downblending, and Transfer acility	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 Pottstown PA, 19464 Ph:(585) 704-2744 Fax: 484 624-5506
Selmont Solids Control				
Buckeye Solids, Recycling, and Lab	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) un-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-inc.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 Memert 740-255-0357 heavymudmasters@gmail.com Billing Address: 739 Southgate Pkwy, Cambridge Ohio 43725
	38 Technology Dr Triadelphia, WV 26059	wv	Non-radioactive material, low level radioactive material (NORM/TENORM) material handling, storage, downblending, transport/loading to rail, tank	Office: 740-341-6396 Kylie Feldner
PETTA Enterprises LLC	713 North Third Street, Cambridge	он	eleaning, 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.	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
occur - 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@securlle.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 RI	ESOUI	RCES CORPORATION - HSE APPROVED HAZARDOUS WASTE DISPOSAL FACILITIES			
Hazardous Disp	osal Facility		Accepted Waste Streams	Contact Information		
Disposal Facility	Facility Location		Accepted Waste Distantia			
Waste Management	Model City	NY	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		

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Republic Services (Allied Wa Industrial Landfills	aste)		Gas Spe	cific Waste	Streams				Other Accepte	l Waste Stream	ns				
Landfill	Location		Drill *	Waste Liners	Waste Brine	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Sludge	Friable Asbestos	Non-Friable Asbestos	Process Waste	Solidification Services	Municipal Solid Waste	Contact Information
Republic Services - Benson Va	Frankfort	IKY	X	X	Dink	X	X	X	X	X	X	X	Services	X X	
Republic Services - Blue Ridge		KY	X	X		X	X	X	X	X	X	X		X	
Republic Services - Morehead		KY	X	X		X	X	X	X	X	X	X		X	1
Republic Services - Green Vall		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		PA				X	X	X	X	Y	X		1	X	1
Republic Services - Brunswick		VA				X	X	X	X	X	X	X		X	1
Republic Services - King and C		VA				X	X	X	X	X	X	X		X	1
Republic Services - Old Domin		VA				X	X	X	X	X	X	X		X	1
Republic Services - Sycamore		WV				X	X	X	X		- 0	X		X	
Republic Services - Short Cree		wv	x	x		X	X	X	X		-	Y		X	1
	Washington	PA	X	X		X	X	X	X	The same of		Ŷ	X Y	X	
	South Park	PA	X	X			X	X	X		-	X	X	X	
	Elizabeth	PA	X	X	-	X	X	X	X			X	X	X	Customer Service: 1 (866) 909-4458
WM - Valley Landfill	Irwin	PA	X	X		X	X	X Y	X	X	X	X	X		A
	Blairsville	PA	X	X		X	X	X	_ ^	A	^	^	Λ.	X	Mark A. Thomas: 412-522-0610
WM - Evergreen Landfill WM - Meadowfill Landfill	Bridgeport	WV	x	X	-	X	X	X	X	X	X	X	X		
	Parkersburg	WV	X	X		X	X	X	X	Α	A	X		X	mthoma15@wm.com
		WV				X	X	X			-	X	X	X	
	Clarksburg		X	X		X		X Y	X	- 17	11	X		X	Tom Farnsworth: C- 330-204-4244
WM - American Landfill	Waynesburg	OH	X	X		- 11	X		X	X	X	X	X	X	F-866-477-6117
	Glenford	OH	X	X		X	X	X	X	X	X	X	X		
WM - Mahoning Landfill	New Springfield	ОН	X	X		X	λ	Λ			X	X		X	
Noble Environmental Landfill (Former Westmoreland Waste)	111 Conner Lane, Belle Vernon, PA 15012	PA	х	х		X	x	х		х	х			х	Customer Service: (724) 929-7694
MAX Environmental (Bulger Facility)	Bulger, PA 15019	PA	х	х		х	x	x	х				x	х	Corporate Office: 412.343.4900
(Durger 1 deliny)		1													C-1 C-1
Apex Sanitary landfill (Apex Environmental)	11 County Road 78 Amsterdam, Ohio 43903	он	x	x		x	x	х	x				x	X	Landfill Office: (740) 543-4389 Joe Teterick: 740-275-2887 joet@els-company.com
Rumpke, Mt. Sterling	30 Larison Rd.	rv	х	X		Х	X	х		x	x			X	Landfill Contact: (859) 498-1572
(Rumpke Consolidated)	Jeffersonville, KY 40337													A	Carl Walter: 513-623-2471
Laurel Ridge Landfill (Waste Connections of KY)	3612 E State Highway 552 Lily, KY 40740	KY	x	x		x	X	х		х	x	x		x	(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	х		x	x	х	x						Ph 724-892-2199 Fax 724-437-7378 Donald Henrichs @AdvancedDisposal.com
Advanced Disposal - Greentree LF	Greentree Landfill; 635 Toby Rd.: Kersey, PA	PA	х	х		x	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. Accepts drilling wastes but profile for disposal is not currently completed.

Waste stream accepted by facility. Waste stream is not or may not be accepted by facility. Contact facility directly to verify waste streams accepted. New PADEP rules regarding. "TENORM" testing requirement are pending.

Notes:

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

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Unconventional or C	onventional Brine/I		r Dis		Accepted Waste Streams	Contact Information		
Company Name	Permit	Location		Coordinates	207-12 702-207			
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	2				
	VAS2D930BBUC	Buchanan Co.	VA	- 6				
CNX Resources Corporation	VAS2D926BBUC	Buchanan Co.	VA		CNX Owned UIC SWIWs: Frac water, brine,	Contact Ops Groups		
CNX Gas)	VAS2D970BRUS	Russell Co.	VA	- 8	produced water	Contact opp Group.		
	34-013-2-0609 UIC #609	Barnsville, Bellmont Co.	ОН	4				
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			39.226075 -81.761403		Jeff Harper		
Central Environmental Services	34-009-2-3823	Troy Township, Athens County, Ohio	ОН	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: 304.588.0936		
Environmental Energy Services LLC (Force, Inc.) - Pattison 1-D	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		

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 Kieinski 814-574-9701 mkieinski@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
	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

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Specialty Recycling			Waste Services	Contacts		
Company Name	Location		Provided			
Enviro Clean Services, Inc.	515 Industrial Blvd Wooster, OH 44691	ОН	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		
Everclear 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		
Necessary Oil Co.	Main Office - 1300 Georgia Avenue Bristol, TN 37620-4048	TN				
	Fleet Trucking Management NTC Acquisition Company - PO Box 875 Bristol, VA 24201	VA				
	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	VA				
	Solids Processing - 215 North Industrial Drive Industrial Park Bristol, TN 37620	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 # PAD982684458 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		
(Formerly United Wastewater)	515 N. 8th Ave, Huntington,	wv	mix, oil, oil filters, and antifreeze only.	Steve Atkinson 937-746-7944		
	WV 25201 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 Solid Waste	Contact Information
umberland Plateau Regional Authority - Buchanan County	Buchanan County	VA	х	They transfer municipal waste to Advanced Disposal – Tennessee Landfill Eco Safe MSW Landfill (See above)
Tazewell County (TC) Landfill 1475 Lynn Hollow Rd, North Tazewell, VA 24630	Route 649 Gratton, VA 24651	VA	x	(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	х	Customer Service: (276) 498-4403

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

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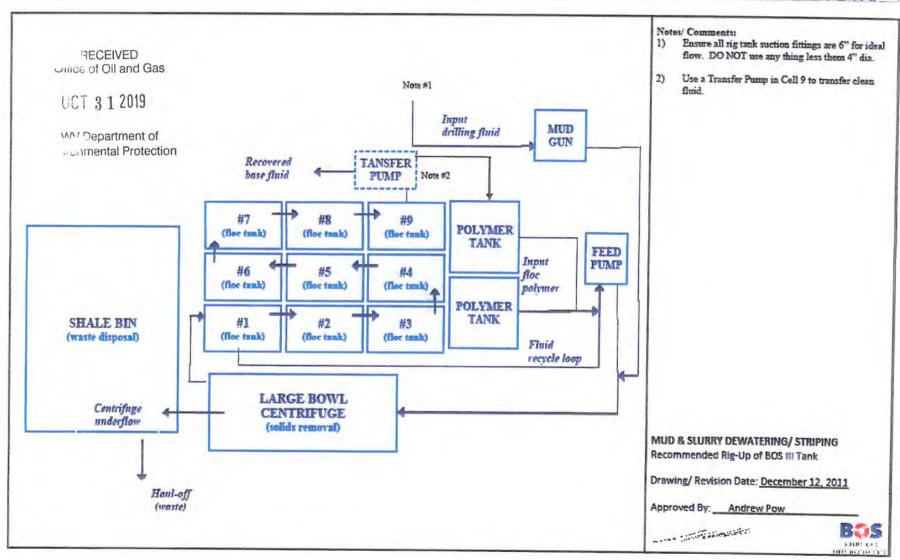
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S	pecialty Recycling		Waste Services	Contacts	
Company Name	Location		Provided	Contacts	
aSar Recycling, Inc.	183 Edgeworth Ave. East Palestine, OH 44413	ОН	Recycle a full range of commodities including liners, fibers, plastics (#1-#7), glass, paper, ferrous metals and non-ferrous metals.	(330) 426-2538 [inquiries] (330) 426-6243 [sales] sales@jasarrecycling.com	
Jltra-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	

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FLOW CHART MUD AND SLURRY DEWATERING RECOMMENDED RIG UP







Sarah Weigand Manager Upstream Permitting Work: 724-485-3244 Ernäll: sarahweigand@cnx.com CNX Center 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

SHR37GHSM - 95-02669

SHR37HHSM

SHR37IHSM

SHR37KHSM

SHR37LHSM

SHR37MHSM

SHR37NHSM

SHR370HSM (API 47-095-02588)

SHR37PHSM

SHR37QHSM

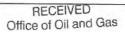
SHR37RHSM

Sincerely,

Darch Weigand

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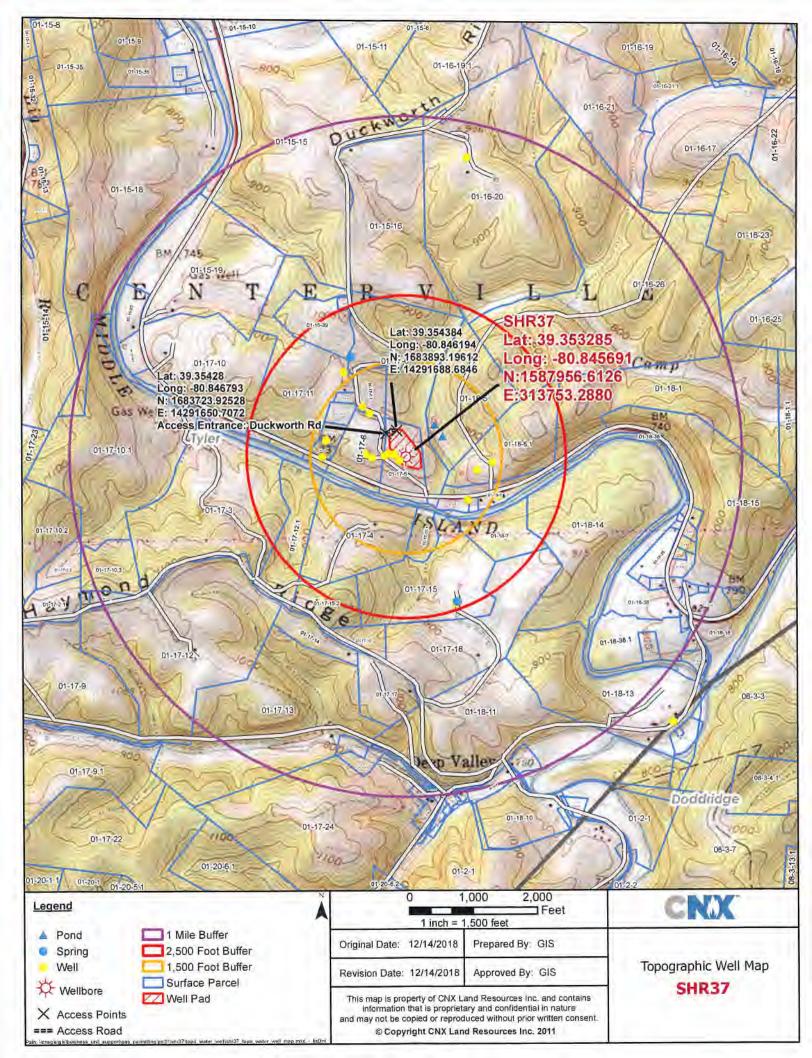
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Site Safety Plan for Well SHR37GHSM CNX Gas Company, LLC.





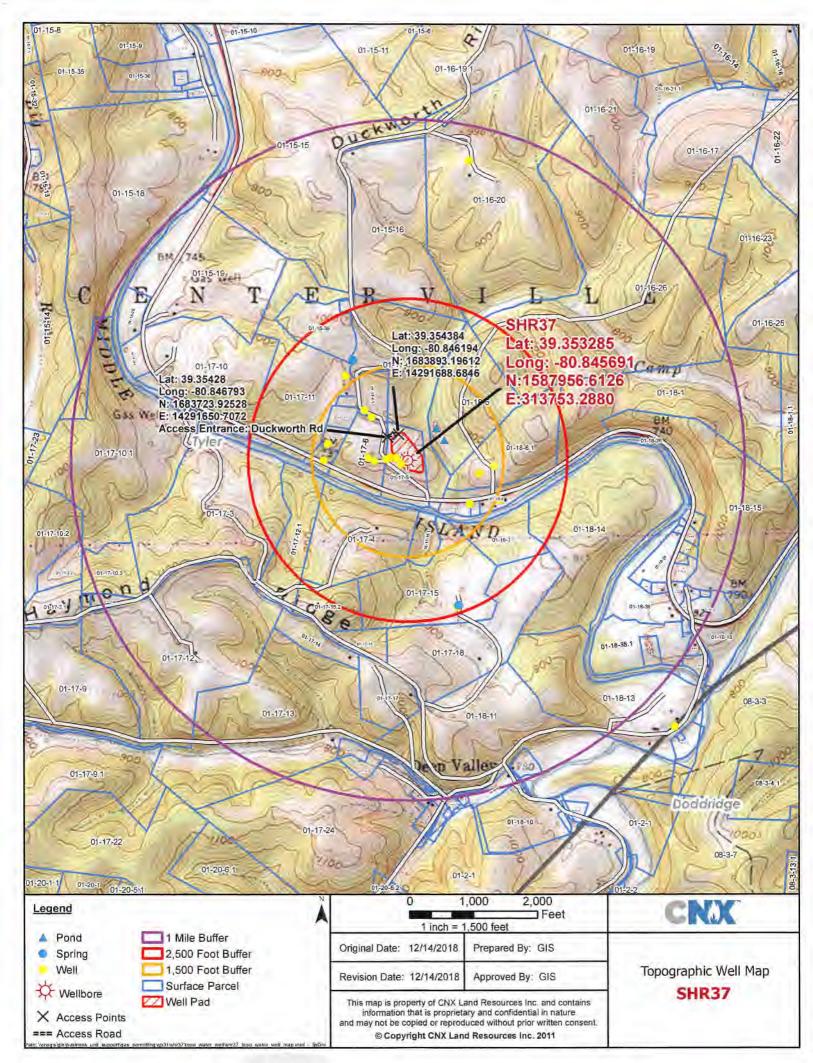


Landowners within 1 mile

Tax ID	Owner as shown on Tyler Co. Tax Site	Property Address	Property City	Property State	Property Zip Code	Owner Phone Number (Best Found)
01-17-10.7	No Results Shown on Tax Site for this Parcel		ALMA	WV	26320	
01-17-31.4	No Results Shown on Tax Site for this Parcel		PENNSBORO	WV	26415	
NO. 70 A	Arnolds Creek Christian					
01-18-9	Church	ARNOLDS CRK	PENNSBORO	WV	26415	(304) 455-4348
01-17-13	George W. Ash	ROUTE 56/2	ALMA	WV	26320	(304) 873-2060
01-16-19.1	James E, Ash	ROUTE 58/2	ALMA	WV	26320	304-758-2498
	Samuel V. Ash Denise Rule					
01-17-4	c/o Samuel Ash	M I C 184	ALMA	WV	26320	(973) 402-9625
01-17-5	CNX Gas Company LLC	DUCKWORTH RIDGE RD	ALMA	WV	26320	724-485-4000
01-17-5	Shirley J. Bembry	ROUTE 56/1	ALMA	WV	26320	(304) 758-4459
01-17-15.2	Shirley J. Bernbry	KOUTE 56/1	ALIVIA	VVV	20320	
01-18-26.1	Everett Carmichael	MIC STATE ROUTE	ALMA	WV	26320	(304) 223-6454 (304) 280-8755
01-18-24.1	Everett Carmichael	18	ALMA	WV	26320	duplicate
01-18-25	Everett Carmichael	MIC	ALMA	WV	26320	duplicate
01-15-20	Sandra Sue Clark	ROUTE 18	ALMA	WV	26320	(304) 758-2226
		8859 MIDDLE				3, 4, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
01-17-10.1	Sandra Sue Clark	ISLAND RD	ALMA	WV	26320	duplicate
01-17-10.2	Sandra Sue Clark	ROUTE 74/1	ALMA	WV	26320	duplicate
01-17-10.3	Sandra Sue Clark	ROUTE 74/1	ALMA	WV	26320	duplicate
01-17-10.5	Sandra Sue Clark	ROUTE 56/1	ALMA	WV	26320	duplicate
01-17-12	CNG Transmission Corporation	ROUTE 56/1	ALMA	WV	26320	(304) 889-3142
01-18-22	Jay Glenn Collins et al c/o Nina Molnar	MIC	ALMA	WV	26320	(304) 873-1935 Nina
	Mary Monnie Collins					
01-18-15	Delverna McKiterict	MIC	ALMA	WV	26320	(304) 527-2794
01-17-15.1	Ryan & Carrie L. Davis	473 GARDEN WAY	ALMA	WV	26320	(910) 245-4750 - Carrie
		473 GARDEN				
01-18-7	Ryan & Carrie L. Davis	WAY	ALMA	WV	26320	duplicate
01-17-15	Ryan & Carrie L. Davis	ROUTE 74/1	ALMA	WV	26320	duplicate
01-18-33	Madelene K. Doll	ROUTE 18	ALMA	WV	26320	(304) 873-1897
01-18-31	Fred M. Dotson Jr.		ALMA	WV	26320	(540) 937-5997
	Fred M. Dotson Jr. &					
01-18-38	Linnea B. Dotson	MIC	ALMA	WV	26320	duplicate
01-18-1	Fred M. Dotson Jr.	ROUTE 52/1	ALMA	WV	26320	duplicate
01-17-3	Kevin O. Dotson et al	ROUTE 56/1	ALMA	WV	26320	(904) 591-8276
01-18-24	Joseph J. Duff	ROUTE 18	ALMA	WV	26320	304-494-8501
01-18-27	Joseph J. Duff	MIC	ALMA	WV	26320	duplicate
01-17-14	Anita K. Elkins & Mark B. Gooch	ROUTE 56/1	ALMA	WV	26320	(540) 672-0969

	e de in e					
01-18-6	Federal Home Loan Mortgage Corp Harry R. & Vonda K.	ROUTE 18	ALMA	WV	26320	(703) 903-2000
01-17-16	Galloop	ROUTE 56/1	ALMA	WV	26320	(304) 387-1941
01-17-10	Jason A. & Kandace R. Glasscock	15127 MIDDLE				
01-17-10	Danny & Patricia Harris	ISLAND RD ROUTE 18	ALMA ALMA	WV	26320	(304) 758-4975
01-18-5	Danny & Patricia Harris			WV	26320	(304) 873-1540
01-18-36		MISTAKE CP	ALMA	WV	26320	duplicate
01-10-30	Michael T. Headley	ROUTE 18	ALMA	WV	26320	(304) 873-1746
		M I C DEEP VALLEY-RT 18				
01-18-37	T.L. & Howard Headley	JUNCTI	ALMA	WV	26320	(304) 873-1410
01-17-24.1	Ronald & Frances Hurst	SHORT R	PENNSBORO	WV	26415	(304) 873-3565
01-17-13.1	Ronald & Frances Hurst	ROUTE 56	PENNSBORO	WV	26415	duplicate
11.41.11	John Jacenkiw Sr. & Tina B. Jacenkiw John Jacenkiw Jr. & Candice	Same seri	Jacin	4550		
01-15-18	R. Jacenkiw	ROUTE 18/10	ALMA	WV	26320	(304) 758-4554
04 45 45	Mary J. Kahler (Life)	N R ROBERTS		150.5	00000	004 750 0400
01-15-15	c/o James Bagley	RUN	ALMA	WV	26320	304-758-2498
04.45.40	Mary J. Kahler (Life)	DOLLTE FO	01000	1407	00000	discharge.
01-15-16	c/o James Bagley	ROUTE 58/2	ALMA	WV	26320	duplicate
01-17-28	John G. Kelley	ROUTE 56	PENNSBORO	WV	26415	(304) 873-1837
01-17-31	Kevin L. Kelley	ROUTE 56	PENNSBORO	WV	26415	(304) 873-1567
01-17-30	Kevin L. & Lynne A. Kelley Kevin L. & Lynne E.	3004 SHORT RUN RD	PENNSBORO	WV	26415	duplicate
01-17-31.1	Kelley	ROUTE 56	PENNSBORO	WV	26415	duplicate
01-18-28	Phil Koontz Leonard	M I C R 18 DEEP INTERSE VLY	ALMA	WV	26320	(336) 237-9905
01-17-17	Tracy H. & Crystal D. Mann	ROUTE 56/1	ALMA	WV	26320	(304) 349-5741
01-18-38.2	Robert C. & Christina J. Mason	MIC	ALMA	WV	26320	304-873-2947
	Ralph Paul & Ida May					
01-18-11.1	McCutchan Ralph Paul McCutchan	ROUTE 56	ALMA	WV	26320	(304) 873-1889
01-18-11	(Life)	ROUTE 56	ALMA	WV	26320	duplicate
01-17-2.2	Roy Alfred Meredith	ROUTE 74/1	ALMA	WV	26320	(304) 863-3658
01-17-24	Jeffrey Allen Milligan	ROUTE 56/2	PENNSBORO	WV	26415	(678) 776-2215
01-18-20	Jon M. Montgomery	MIC	ALMA	WV	26320	(740) 595-3271
01-15-14	George Moore et al c/o Linda Lou Moore	ROUTE 74	ALMA	WV	26320	(304) 758-2258
01-18-13	Edwin D. & Patricia L. Mulvay	3665 SHORT RUN RD	ALMA	WV	26320	304-873-2467
01-18-14	Edwin D. & Patricia L. Mulvay	3665 SHORT RUN RD	ALMA	WV	26320	duplicate
01-18-18	Edwin D. & Patricia L. Mulvay	ROUTE 18	ALMA	WV	26320	duplicate
	Harlond D. & Myra R.					(304) 873-2084
01-17-18	Mulvay	ROUTE 74/1	ALMA	WV	26320	(304) 673-2004
01-17-11.3	Wayne C. & Ronda Mumbauer	DUCKWORTH RIDGE RD	ALMA	WV	26320	(304) 758-4393
01-17-11.4	Wayne C. & Ronda Mumbauer	DUCKWORTH RIDGE RD	ALMA	WV	26320	duplicate

01-18-29	Jacob Myer Jerry D. & Christina D.	ROUTE 18	ALMA	WV	26320	(304) 873-1755
01-18-26	Myer Jerry D. & Christina D.	HC 74 BOX 40	ALMA	WV	26320	(304) 873-1755
01-18-26.2	Myer	ROUTE 18	ALMA	WV	26320	duplicate
01-17-27	Clifton Nicholson et al	ROUTE 56	PENNSBORO	WV	26415	304-855-6189
01-18-38.1	Thomas R. & Sharon L. Nutter	MIC	ALMA	WV	26320	(304) 873-1642
	Thomas R. & Sharon L.				Cessor	
01-18-35	Nutter	DEEP VLY	ALMA	WV	26320	duplicate
01-18-6.3	Franklin D. & Wanda L. Parsons		ALMA	WV	26320	(304) 873-3043
01-17-11.6	Forrest G. Powell	MIC	ALMA	WV	26320	(304) 873-1819
9.1.1.1.10	Elden L. Pratt & Christine	111.0	, icini,		20020	(604) 616 1616
01-15-38	Lasure Elden L. Pratt; Dean	ROUTE 58/2	ALMA	WV	26320	304-758-2354
	Rodney & Timothy Ray	MIDDLE CREEK				
01-17-11	Pratt	IS	ALMA	WV	26320	(304) 758-2272
01-17-11.2	Rodney D. Pratt	JOSEPH MLS	ALMA	WV	26320	(304) 758-2513
01-15-39	Timothy R. Pratt	HC 69 BOX 9A	ALMA	WV	26320	(304) 758-2272
01-15-19	David J. Price	ROUTE 18	ALMA	WV	26320	(304) 349-4666
01-18-6.2	Riki Nicole Riley	ROUTE 18	ALMA	WV	26320	(304) 873-3840
01-16-20.1	Ronald & Reva Rowland	BCM	ALMA	WV	26320	(304) 873-1272
01-16-20	Ronald & Reva Rowland	ROUTE 58/2	ALMA	WV	26320	duplicate
01-17-6.1	Ronald & Reva Rowland	MIC	ALMA	WV	26320	duplicate
01-17-2.4	Andrew E. Smith	ROUTE 74/1	ALMA	WV	26320	301-967-4078
01-17-11.1	Thomas D. Snyder II & Connie S. Snyder	NR JOSEPHS MLS	ALMA	WV	26320	(215) 885-7069
	George F. & Kathleen S.	MIDDLE ISLAND				
01-17-10.6	Sprowls	CRK	ALMA	WV	26320	(304) 367-1000
01-17-11.5	State of West Virginia William L. & Kelly F.	MIC	ALMA	WV	26320	n/a
01-18-8	Stringham	ROUTE 56	PENNSBORO	WV	26415	(304) 873-1370
01-18-32	Kevin Douglas Swisher	ROUTE 18	ALMA	WV	26320	(304) 370-2113
01-16-26	D. Ralph Thacker & Maurice J. Carlisle	20021 THACKER DR	ALMA	WV	26320	(304) 432-4441 (304) 416-2770 (304) 432- 7616
01-16-26	UKNOWN OWNER 000001 The Tax Site listed no	DR	ALMA	VVV	20320	7010
01-18-17.1	owner for this parcel James R. Underwood Sr. & James R. Jr. & Mitzie	ROUTE 18	ALMA	WV	26320	n/a
01-17-12.2	Johnson James R. Underwood Sr. & James R. Jr. & Mitzie		ALMA	WV	26320	(304) 863-8136
01-17-12.1	Johnson Clifford A. & Toby A.	ROUTE 56/1	ALMA	WV	26320	duplicate
01-18-23	Weekley	MIC	ALMA	WV	26320	(304-873-1770
01-18-30	James C. & Patricia L. Williams	ROUTE 18	ALMA	WV	26320	570-568-0029
01-17-11.7	Roger L. & Marjorie P. Williams	16207 MIDDLE ISLAND RD	ALMA	WV	26320	(304) 776-7293
01-17-6	Gail Williamson	MIDDLE CREEK IS	ALMA	WV	26320	(304) 873-1954



BHL is located on topo map _ 10,404 feet south of Latitude: 39 25 00 7,940 feet south of Latitude: 39 22 30 SHL is located on topo map

PAGE FOR PLAT TO LENGTH DUE OF LATERAL

SEE PAGE 3 FOR SURFACE OWNERS AND LESSORS



SURFACE HOLE LOCATION (SHL) UTM 17-NAD83 N:4355984.19 E:513318.27 NAD83. WV NORTH N:313607.742 E:1588062.376 LAT/LON DATUM-NAD83 LAT:39'21'11.521" LON:80'50'43.524"

APPROX. LANDING POINT UTM 17-NAD83 N:4356093.18 E:513435.69 NAD83, WY NORTH N:313958.970 E:1588453.683 LAT/LON DATUM-NAD83 LAT:39°21'15.050" LON:80°50'38.610" BOTTOM HOLE LOCATION (BHL) UTM 17-NAD83 N:4359855.56 E:512069.56 NAD83, W NORTH N:326380.126 E:1584176.733 LAT/LON DATUM-NAD83 LAT:39'23'17.170" LON:80'51'35.448"



2.2

located located

99

topo

map

7,494 f 3,419 f

feet

west

9,9

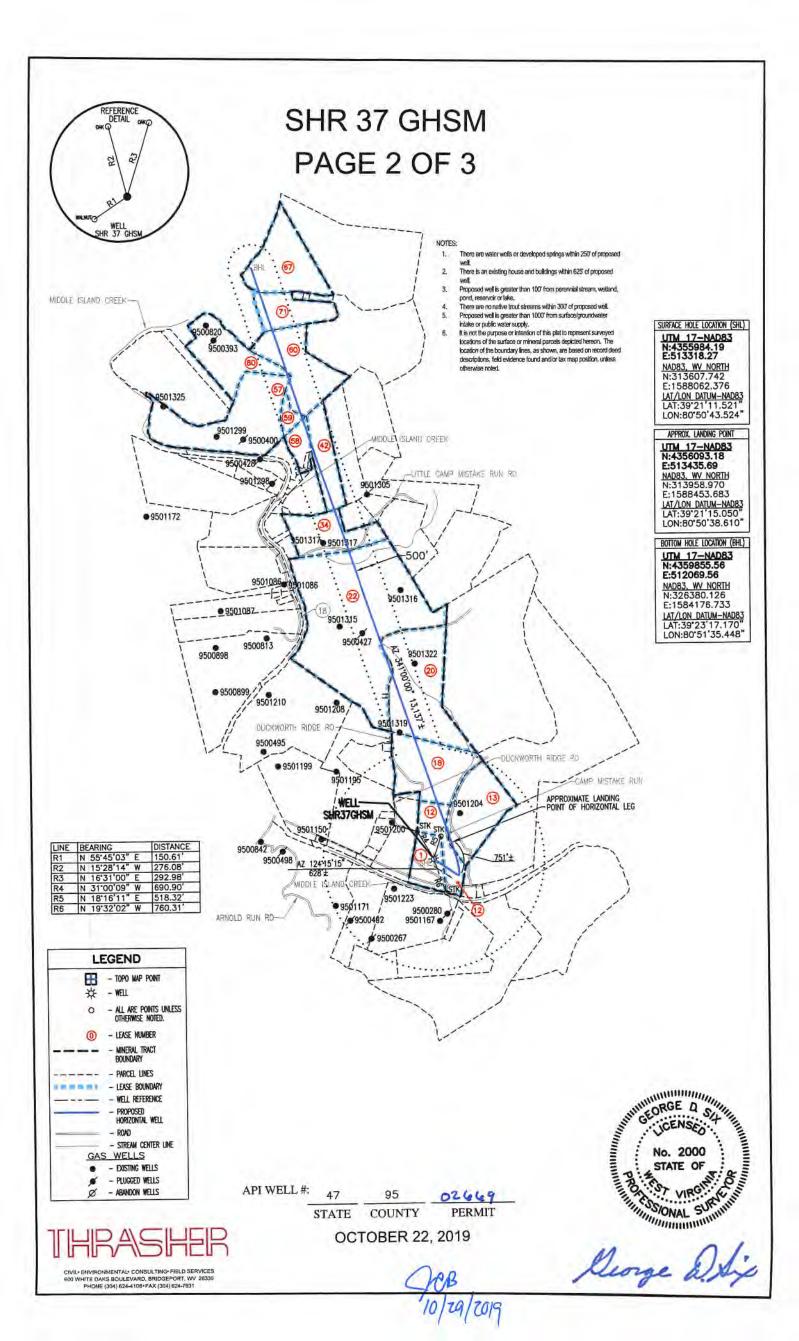
Longitude: Longitude:

80 50

88



600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330 PHONE (304) 624-4108-FAX (304) 624-7831			annumum,
FILE #: SHR 37 GHSM DRAWING #: SHR 37 GHSM SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE OF ELEVATION: THOMAS 1408 PM	PLAT IS CORRECT TO THE BELIEF AND SHOWS ALL THE LAW AND THE REGULATION: THE DEPARTMENT OF ENV. Signed:	S ISSUED AND PRESCRIBED BY IRONMENTAL PROTECTION.	No. 2000 STATE OF VIRGINIA
THUMAS 1496.61	_ (L.L.S.: P.S. No. 2000	PLACE SEAL HERE
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAP WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304	A STATE OF THE STA	OPERATOR'S WELL#: API WELL#: 47	SHR 37 GHSM
Well Type: Oil Waste Disposal Gas Liquid Injection	Storage X Shall	ow	90
WATERSHED: HEADWATERS MIDDLE ISL			
COUNTY/DISTRICT: TYLER / C SURFACE OWNER: CNX GAS CO		ACREAGE:	
PLUG OFF C	CONVERT DRILL DEEP	ER REDRILL FRACTU	RE OR STIMULATE X
TARGET FORMATION:	MARCELLUS ES	TIMATED DEPTH: TVD: 6,	302'± TMD: 19,922'±
WELL OPERATOR CNX GAS COMF Address 1000 CONSOL ENERGY DRIVE City CANONSBURG State PA	ANY LLC DE	SIGNATED AGENT ANTHONY dress 1000 CONSOL ENERGY DRIVE	r Kendziora



SHR 37 GHSM 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		
	2	CLELLA BOICE, WIDOW			
		LUELLA I. MCCONNELL, WIDOW			
		AGNES GODWIN, WIDOW	1		
		NANCY P. MCCLAIN AND RALPH E. MCCLAIN, W/H	1		
		GEORGIA P. SNYDER, DIVORCED			
		BRADIE PIPES AND GOLDIE PIPES, H/W	1		
		PURSIE PIPES AND NORMA J. PIPES, H/W			
		DOROTHY BELLE WELLS AND BYRON WELLS, W/H			
		MYRNA MORGAN AND DAVID MORGAN, H/W			
12	GAIL WILLIAMSON	ELEANOR V. EARNHEART AND DEAN A. EARNHEART, W/H	P/0 1-17/6		
18	ONE WEEDINGOON	CLELLA BOICE, WIDOW	1-17/6		
,,,		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	1		
		MYRNA MORGAN AND DAVID MORGAN, W/H			
		REVA ROWLAND AND RONALD ROYCE ROWLAND	Harry Inc.		
13	DANNY CARL & PATRICIA J. HARRIS	ELEANOR V. EARNHEART AND DEAN A. EARNHEART, W/H	1-18/5		
	The state of the s	CLELLA BOICE, WIDOW	1000		
		LUELLA I. MCCONNELL, WIDOW			
		AGNES GODWIN, WIDOW			
		NANCY P. MCCLAIN AND RALPH E. MCCLAIN,	W/H		
		GEORGIA P. SNYDER, DIVORCED	1		
		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	/		
20	MARY J. KAHLER (LIFE)	JACOB C. COTTRILL, ATTORNEY-IN-FACT FOR	1-15/16		
20	MART J. RAPLER (LIFE)	CHARLES D. COTTRILL HEIRS; JACOB C. COTTRILL AND	1-13/10		
			Annah and		
-	THEN I THURSE (USE)	SHIRLEY A. COTTRILL, H/W	4 4E /4E		
22	MARY J. KAHLER (LIFE)	JACOB C. COTTRILL, ATTORNEY-IN-FACT FOR	1-15/15		
		CHARLES D. COTTRILL HEIRS;			
		JACOB C. COTTRILL AND SHIRLEY A. COTTRILL, H/W			
34	SANDRA SUE CLARK & CLARENCE D. CLARK &	SANDRA SUE CLARK AND CLARENCE DUANE CLARK, H/W	1-15/10		
	JEFFREY G. CLARK & KEVIN SCOTT CLARK	AND MILDRED GREGG			
	to the control of the control of the control of	SANDRA SUE CLARK AND CLARENCE DUANE CLARK, H/W			
		AND MILDRED GREGG			
		DAVID C. GREGG			
42	ROY DEAN ASH & MARY F. CARPENTER	ROY DEAN ASH	1-15/3		
	100000000000000000000000000000000000000	MARY FRANCES CARPENTER	1		
57	ROBERT W. GRAHAM	ERNEST LANTZ	1-15/2		
7	THE PARTY OF THE P	RONALD LEE ASH	COLUMN TO THE REAL PROPERTY.		
		RALPH ARNOLD ASH			
		RANDALL DALE ASH AND DORETTA LYNN ASH			
58	BILL L. LITTLETON	D. RALPH THACKER AND J. MAURICE CARLISL	1-JF6/5		
59		ANN ELAINE JONES CASEY AND ERNEST LEE CASEY, W/H	P/O 1-12/24		
60	THE OLD DI, ON IL GOODIT D. MOUNT	The same same rate branch the same, my ti	7		
67	JASON ELDER	ORA NELSON MOORE AND MARY EDNA MOORE, H/W	1-12/21		
31	GENEVA (DENNISON) FOUT LIFE	AND OLETHA MOORE, WIDOW"	1-12/21.3		
		ROSEMARY EAGLE	1-12/21.4		
	ADAM S. FORRESTER	NOSEMANI EAGLE	1-12/21.4		
74	GENEVA (DENNISON) FOUT LIFE	WILLIAM DACIL AND MADEN DACIL II AN	1-12/21.1		
	MARK WILLIAM PIERSON TRUSTEE	WILLIAM BASIL AND KAREN BASIL, H/W			
80	ROBERT C. & JAMES L. SINCLAIR	SANDRA L. SPENCE	1-12/18		
		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	1		
		JEREMY J. LOPEZ	1		
		DELICIMIT OF FOLEY	4		
		MARIAH F. RITTMAN			

SURFACE HOLE LOCATION (SHL)

UTM 17—NADB3
N:4355984.19
E:513318.27
NADB3, WY NOTH
N:313607.742
E:1588062.376
LAT/LON DATUM—NADB3
LAT:39'21'11.521"
LON:80'50'43.524"

APPROX. LANDING POINT

UTM 17—NAD83

N:4356093.18
E:513435.69
NAD83, WN NORTH
N:313958.970
E:1588453.683
LAT/LON DATUM—NAD83
LAT:39'21'15.050"
LON:80'50'38.610"

BOTTOM HOLE LOCATION (BHL)

UTM 17—NADB3
N:4359855.56
E:512069.56
NADB3, W. NORTH
N:326380.126
E:1584176.733
LAT/LON DATUM-NADB3
LAT:39°23'17.170"
LON:80°51'35.448"

API WELL#: 47 95 OLGG 9

STATE COUNTY PERMIT



OCTOBER 22, 2019

BHL is located on topo map 10,404 feet south of Latitude: 39 25 00 7,940 feet south of Latitude: 39 22 30

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:4355984.19 E:513318.27 NAD83, WV NORTH N:313607.742 E:1588062.376 LAT/LON DATUM-NAD83 LAT:39'21'11.521" LON:80'50'43.524"

APPROX. LANDING POINT UTM 17-MADB3
N:4356093.18
E:513435.69
NADB3, W. NORTH
N:313958.970
E:1588453.683
LAT/LON DATUM-NADB3
LAT:39'21'15.050"
LON:80'50'38.610"

BOTTOM HOLE LOCATION (BHL) UTM 17-NAD83 N:4359855.56 E:512069.56 NAD83, W NORTH N:326380.126 E:1584176.733 LAT/LON DATUM-NAD83 LAT:39'23'17.170" LON:80'51'35.448"



SEE SEE

2. CO.

located

on

topo

7,494 feet **3,419** feet

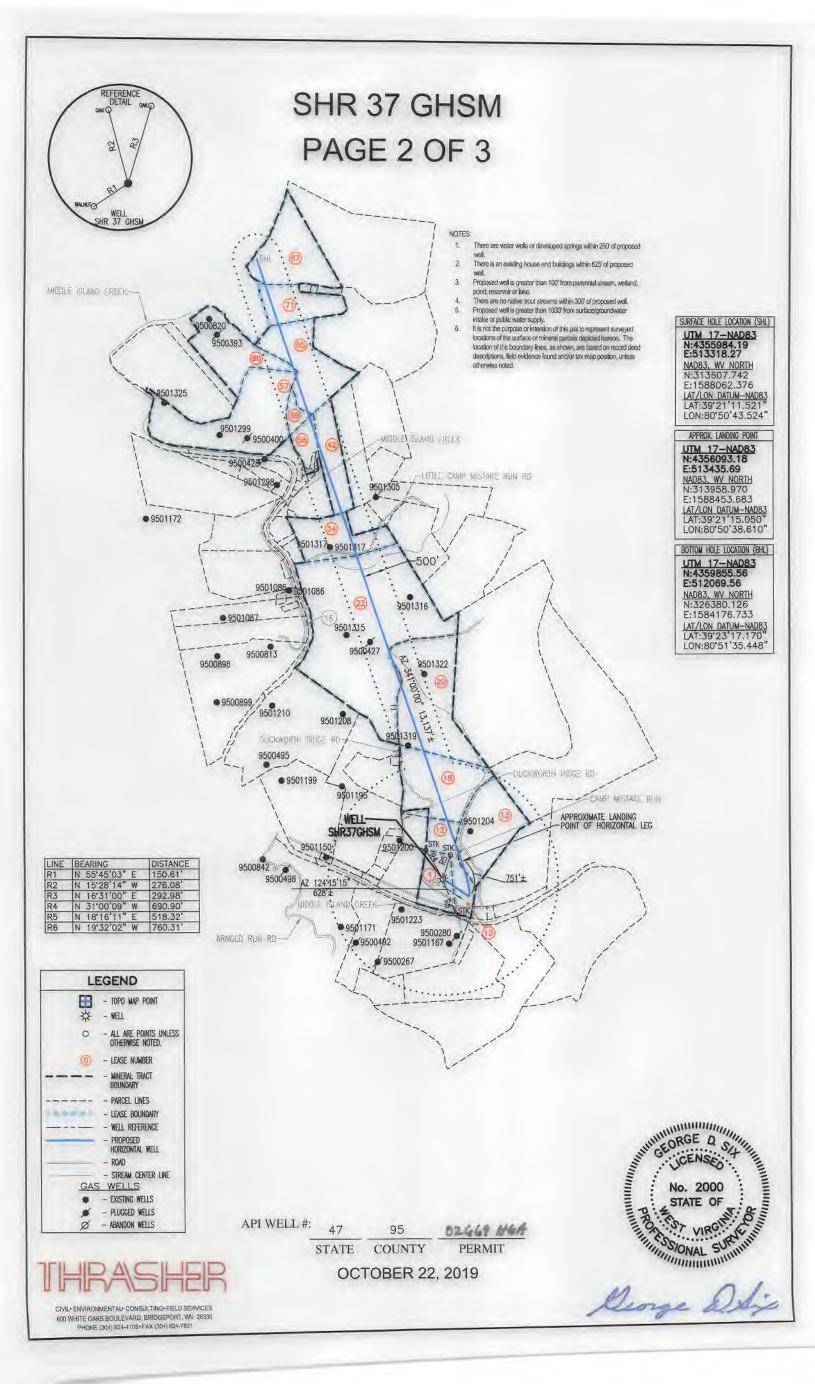
west

t of Longitude: t of Longitude:

80 50 88



600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330 PHONE (304) 624-4108-FAX (304) 624-7631			minimum,
FILE#: SHR 37 GHSM DRAWING#: SHR 37 GHSM SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'	I,THE UNDERS PLAT IS CORRECT TO BELIEF AND SHOWS AI LAW AND THE REGULA THE DEPARTMENT OF Signed: R.P.E.:	SIGNED, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AN LL THE INFORMATION REQUIRED IN TIONS ISSUED AND PRESCRIBED ENVIRONMENTAL PROTECTION.	"mmmmmm"
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS		DATE: OCTOBER	R 22, 2019
WVDEP	S. A. E.	OPERATOR'S WELL #:	SHR 37 GHSM
OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304		API WELL #: 47	The state of the s
Well Type: Oil Waste Disposal Gas Liquid Injection WATERSHED: HEADWATERS MIDDLE ISLAN	Storage X	Deep Shallow ELEVATION:	COUNTY PERMIT 828.57'±
COUNTY/DISTRICT: TYLER / CE		QUADRANGLE: WEST	
		ACREA	
SURFACE OWNER: CNX GAS COM			
PLUG OFF OI CLEAN OUT	ONVERT DRILL D LD FORMATION P & REPLUG OTHER	DEEPER REDRILL FRA ERFORATE NEW FORMATION [CHANGE (SPECIFY):	CTURE OR STIMULATE X PLUG & ABANDON
TARGET FORMATION:	MARCELLUS	_ ESTIMATED DEPTH:T	/D: 6,302'± TMD: 19,922'±
WELL OPERATOR CNX GAS COMPA		DESIGNATED AGENT AN	THONY KENDZIORA
Address 1000 CONSOL ENERGY DRIVE	-1 A 1 AF747	Address 1000 CONSOL ENERGY	DRIVE te PA Zip Code 15317
City CANONSBURG State PA	Zip Code 1531/	City CANONSBURG Sta	te PA Zip Code 15517



SHR 37 GHSM 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		
	200 000 000 000 000	MYRNA MORGAN AND DAVID MORGAN, H/W		
12	GAIL WILLIAMSON	ELEANOR V. EARNHEART AND DEAN A. EARNHEART, W/H	P/0 1-17/6	
18		CLELLA BOICE, WIDOW		
		LUELLA I. MCCONNELL, WIDOW	h	
		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 REVA ROWLAND AND RONALD ROYCE ROWLAND		
17	DANNY CARL & PATRICIA J. HARRIS	ELEANOR V. EARNHEART AND DEAN A. EARNHEART, W/H	1-18/5	
0	DANINI CARL & PAIRICIA J. FIARRIS	CLELLA BOICE, WIDOW	1-10/3	
		LUELLA I. MCCONNELL, WIDOW		
		AGNES GODWIN, WIDOW		
		NANCY P. MCCLAIN AND RALPH E. MCCLAIN,	W/H	
		GEORGIA P. SNYDER, DIVORCED	7.11	
		BRADIE PIPES AND GOLDIE PIPES, H/W		
		PURSIE PIPES AND NORMA J. PIPES, H/W		
		DOROTHY BELLE WELLS AND BYRON WELLS, V	V/H	
		MYRNA MORGAN AND DAVID MORGAN, W/H	· · ·	
20	MARY J. KAHLER (LIFE)	JACOB C. COTTRILL, ATTORNEY-IN-FACT FOR	1-15/16	
20	MANT O. NATIEEN (EILE)	CHARLES D. COTTRILL HEIRS; JACOB C. COTTRILL AND	1 10/10	
		SHIRLEY A. COTTRILL, H/W		
22	MARY J. KAHLER (LIFE)	JACOB C. COTTRILL, ATTORNEY-IN-FACT FOR	1-15/15	
	Mari 07 10412211 (211 2)	CHARLES D. COTTRILL HEIRS;	3 - 3 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	
		JACOB C. COTTRILL AND SHIRLEY A. COTTRILL, H/W		
34	SANDRA SUE CLARK & CLARENCE D. CLARK &	SANDRA SUE CLARK AND CLARENCE DUANE CLARK, H/W	1-15/10	
	JEFFREY G. CLARK & KEVIN SCOTT CLARK	AND MILDRED GREGG		
	New Control of the Co	SANDRA SUE CLARK AND CLARENCE DUANE CLARK, H/W		
		AND MILDRED GREGG		
		DAVID C. GREGG		
42	ROY DEAN ASH & MARY F. CARPENTER	ROY DEAN ASH	1-15/3	
		MARY FRANCES CARPENTER		
57	ROBERT W. GRAHAM	ERNEST LANTZ	1-15/2	
		RONALD LEE ASH		
		RALPH ARNOLD ASH		
		RANDALL DALE ASH AND DORETTA LYNN ASH		
58	BILL L. LITTLETON	D. RALPH THACKER AND J. MAURICE CARLISL		
59	HAROLD D., JR. & SUSAN D. MOORE	ANN ELAINE JONES CASEY AND ERNEST LEE CASEY, W/H	P/0 1-12/24	
60			10/01	
67		ORA NELSON MOORE AND MARY EDNA MOORE, H/W	1-12/21	
	GENEVA (DENNISON) FOUT LIFE	AND OLETHA MOORE, WIDOW"	1-12/21.3	
	ADAM S. FORRESTER	ROSEMARY EAGLE	1-12/21.4	
	GENEVA (DENNISON) FOUT LIFE	WILLIAM DADII AND KADEN DADII (LAN	1-12/10	
	MARK WILLIAM PIERSON TRUSTEE	WILLIAM BASIL AND KAREN BASIL, H/W	1-12/21.1	
30	ROBERT C. & JAMES L. SINCLAIR	SANDRA L. SPENCE	1-12/16	
		BARBARA J. DRUCHNIAK PATTY L. BUTERBAUGH	1	
			1	
		RICHARD B. SMITH		
		CHARLES ALAN MCCULLOUGH AND FREDA MCCULLOUGH DONALD BURL SMITH		
		RONALD CARLETON MOORE JR.		
			1	
		CHERYL ANN CALKINS	+	
		BENNY EDWIN SMITH	-	
		ROY LEE SMITH JEREMY J. LOPEZ	1	
		LUPREMIT VI. LUPREZ	1	
		MARIAH F. RITTMAN		

SURFACE HOLE LOCATION (SHL) UTM 17-NAD83 N:4355984.19 E:513318.27 NAD83, W NORTH N:313607.742 E:1588062.376 LAT/LON DATUM-NAD83 LAT:39'21'11.521" LON:80'50'43.524"

APPROX. LANDING POINT APPROX. LANDING POINT

UTM 17-NAD83
N:4356093.18
E:513435.69
NAD83. W NORTH
N:313958.970
E:1588453.683
LAT/LON DATUM-NAD83
LAT:39'21'15.050"
LON:80'50'38.610"

BOTTOM HOLE LOCATION (BHL) BOTTOM HOLF LOCATION (BHL)

UTM 17-NAD83
N:4359855.56
E:512069.56
NAD83. WY NORTH
N:326380.126
E:1584176.733
LAT/LON DATUM-NAD83
LAT:39'23'17.170"
LON:80'51'35.448"

API WELL#: 47 95

02469 HEAT



STATE COUNTY

PERMIT



OCTOBER 22, 2019

Onorotor's	Wall Ma	SHR37GHSM
Operator's	Well No	OF INOT OF ION

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

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

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

Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See attached

RECEIVED
Office of Oil and Gas

OCT 3 1 2019

WV Department of Environmental Protection

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

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

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

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

Well Operator: CNX Gas Company, LLC

By: Sarah Weigand

Its: Manager Upstream Permitting

Page 1 of 4

Attachment - Form WW-6A-1 for SHR37GHSM

Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	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 Weils and Byron Wells, her husband Myrna Morgan and David Morgan, 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	Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc.	Assignment	285/650
			Seneca-Upshur Petroleum, Inc.	Seneca-Opsnur Petroleum, Inc. Seneca-Upshur Petroleum, LLC	Assignment Assignment	354/757 381/540
			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
	r		Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
	•					
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
12	1-17-6	266300000	Eleanor V. Earnheart and Dean A. Earnheart, w/h	Sefco Enterprises, Inc.	Not less than 1/8	267/74
			Ciella 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	267/90 267/640
			Myrna Morgan and David Morgan, her husband Sefco Enterprises, Inc.	Sefco Enterprises, Inc. Eastern American Energy Corporation	Not less than 1/8 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 Man & Parcel	Title Opinion QLS	Grantor, Lessor, etc		Rovalty	Book/Page
	Tax Map & Parcel	<u>#</u>	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
Tract ID	Tax Map & Parcel		Eleanor V. Earnheart and Dean A. Earnheart, w/h	<u>Grantee, Lessee, etc</u> Sefco Enterprises, Inc.	Not less than 1/8	267/74
		<u>#</u>	Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow	<u>Grantee, Lessee, etc</u> Sefco Enterprises, inc. Sefco Enterprises, inc.	Not less than 1/8 Not less than 1/8	267/74 267/76
		<u>#</u>	Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow	<u>Grantee, Lessee, etc</u> Sefco Enterprises, Inc. Sefco Enterprises, Inc. Sefco Enterprises, Inc.	Not less than 1/8 Not less than 1/8 Not less than 1/8	267/74 267/76 267/78
		<u>#</u>	Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow	Grantee, Lessee, etc Sefco Enterprises, inc. Sefco Enterprises, inc. Sefco Enterprises, inc. Sefco Enterprises, inc.	Not less than 1/8 Not less than 1/8	267/74 267/76
		<u>#</u>	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	<u>Grantee, Lessee, etc</u> Sefco Enterprises, Inc. Sefco Enterprises, Inc. Sefco Enterprises, Inc.	Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8	267/74 267/76 267/78 267/80
		<u>#</u>	Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow	Grantee, Lessee, etc Sefco Enterprises, Inc.	Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8	267/74 267/76 267/78 267/80 267/82
		<u>#</u>	Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ratph E. McClain, w/h Georgia P. Snyder, divorced	Grantee, Lessee, etc Sefco Enterprises, inc.	Not less than 1/8 Not less than 1/8	267/74 267/76 267/78 267/80 267/82 267/84 267/86 267/88
		<u>#</u>	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 Pursie Pipes and Norma J. Pipes, husband and wife Dorothy Belle Wells and Byron Wells, her husband	Grantee, Lessee, etc Sefco Enterprises, Inc.	Not less than 1/8	267/74 267/76 267/78 267/80 267/82 267/84 267/86 267/88 267/90
		<u>#</u>	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	Grantee, Lessee, etc Sefco Enterprises, Inc.	Not less than 1/8	267/74 267/76 267/78 267/80 267/82 267/84 267/86 267/88 267/90 267/640
		<u>#</u>	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 Ratph 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 Sefco Enterprises, Inc.	Grantee, Lessee, etc Sefco Enterprises, Inc. Eastern American Energy Corporation	Not less than 1/8 Assignment	267/74 267/76 267/78 267/80 267/82 267/84 267/86 267/88 267/90 267/640 285/650
		<u>#</u>	Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ratph 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. Eastern American Energy Corporation	Grantee, Lessee, etc Sefco Enterprises, Inc.	Not less than 1/8 Assignment Assignment	267/74 267/76 267/78 267/80 267/82 267/84 267/86 267/88 267/90 267/640 285/650 354/757
		<u>#</u>	Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ratph E. McClain, w/h Georgia P. Snyder, divorced Bradle Pipes and Goldle 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 Serico Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc.	Grantee, Lessee, etc Sefco Enterprises, Inc. Senca-Upshur Petroleum, Inc. Senca-Upshur Petroleum, ILC	Not less than 1/8 Assignment Assignment Assignment	267/74 267/76 267/78 267/80 267/82 267/84 267/86 267/88 267/90 267/640 285/650
		<u>#</u>	Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ratph 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. Eastern American Energy Corporation	Grantee, Lessee, etc Sefco Enterprises, Inc.	Not less than 1/8 Assignment Assignment	267/74 267/76 267/78 267/80 267/82 267/84 267/86 267/86 267/90 267/640 285/650 354/757 381/540
		<u>#</u>	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 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 Sefco Enterprises, inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, ILC	Grantee, Lessee, etc Sefco Enterprises, Inc. Lastern American Energy Corporation Seneca-Upshur Petroleum, ILC Antero Resources Appalachian Corporation	Not less than 1/8 Assignment Assignment Assignment Assignment	267/74 267/76 267/78 267/80 267/82 267/84 267/86 267/86 267/90 267/640 285/650 354/757 381/540 402/132
		<u>#</u>	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 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 Sefco Enterprises, inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, ILC	Grantee, Lessee, etc Sefco Enterprises, Inc. Council Enterprises, Inc.	Not less than 1/8 Assignment Assignment Assignment Assignment	267/74 267/76 267/78 267/80 267/82 267/84 267/86 267/86 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701 427/564
13		<u>#</u>	Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ratph E. McClain, w/h Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife Pursie Pipes and Goldie 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. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation	Grantee, Lessee, etc Sefco Enterprises, Inc. American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, ILC Antero Resources Corporation Antero Resources Corporation CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment	267/74 267/76 267/78 267/80 267/82 267/84 267/86 267/88 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701
13	1-18-5	# 263458000	Grantor, Lessor, etc 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 Sefco Enterprises, Inc. 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 Sefco Enterprises, Inc. Castern 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	Not less than 1/8 Assignment	267/74 267/76 267/78 267/80 267/82 267/84 267/86 267/86 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701 427/564 550/273
13	1-18-5	# 263458000 Title Opinion QLS #	Grantor, Lessor, etc Ileanor 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 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. 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 Sefco Enterprises, Inc. Castern 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	Not less than 1/8 Assignment Royalty	267/74 267/76 267/78 267/80 267/82 267/84 267/86 267/86 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701 427/564 550/273
13	1-18-5	# 263458000	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 Ratph 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 Sefco Enterprises, Inc. 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 Sefco Enterprises, Inc. Compart American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, ILC Antero Resources Appalachian Corporation Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Sefco Enterprises, Inc.	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Name Change	267/74 267/76 267/78 267/80 267/82 267/84 267/86 267/86 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701 427/564 550/273
13	1-18-5	# 263458000 Title Opinion QLS #	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 Ratph E. McClain, w/h Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife Pursle Pipes and Goldie Pipes, his wife Pursle Pipes and Norma J. Pipes, husband and wife Dorothy Belie Wells and Byron Wells, her husband Myrna Morgan and David Morgan, her husband Sefoc Enterprises, inc. 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	Grantee, Lessee, etc Sefco Enterprises, Inc. Compart Petroleum, Inc. Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Sefco Enterprises, Inc. Sefco Enterprises, Inc.	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Name Change Assignment Assignment Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8	267/74 267/76 267/78 267/80 267/82 267/84 267/86 267/88 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701 427/564 550/273 Book/Page 267/74 267/76
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13	1-18-5	# 263458000 Title Opinion QLS #	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 Ratph E. McClain, w/h Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife Pursle 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 Sefco Enterprises, inc. 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 Raiph E. McClain, w/h	Grantee, Lessee, etc Sefco Enterprises, Inc. Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, ILC Antero Resources Corporation Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Sefco Enterprises, Inc.	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Name Change Assignment Assig	267/74 267/76 267/78 267/80 267/82 267/84 267/86 267/88 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701 427/564 550/273 Book/Page 267/74 267/76 267/78 267/80 267/82
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13	1-18-5	# 263458000 Title Opinion QLS #	Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ratph 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. Eastern American Energy Corporation Seneca-Upshur Petroleum, inc. Seneca-Upshur Petroleum, inc. Seneca-Upshur Petroleum, inc. 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 Raiph 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 Sefco Enterprises, inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, Inc.	Grantee, Lessee, etc Sefco Enterprises, Inc. Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, ILC Antero Resources Appalachian Corporation Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Sefco Enterprises, Inc.	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Name Change Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Not less than 1/8 Assignment Assignment Assignment	267/74 267/76 267/78 267/80 267/82 267/84 267/86 267/88 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701 427/564 550/273 Book/Page 267/74 267/76 267/80 267/82 267/84 267/86 267/88 267/80 267/88 267/90 267/640 285/650 354/757 381/540 402/132
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13	1-18-5	# 263458000 Title Opinion QLS #	Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ratph 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. Eastern American Energy Corporation Seneca-Upshur Petroleum, inc. Seneca-Upshur Petroleum, inc. Seneca-Upshur Petroleum, inc. 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 Raiph 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 Sefco Enterprises, inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, Inc.	Grantee, Lessee, etc Sefco Enterprises, Inc. Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, ILC Antero Resources Appalachian Corporation Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Sefco Enterprises, Inc. Sefco Ente	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Name Change Assignment Assignment Not less than 1/8	267/74 267/76 267/78 267/80 267/82 267/84 267/86 267/88 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701 427/564 550/273 Book/Page 267/74 267/76 267/78 267/86 267/88 267/80 267/84 267/86 267/88 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS

			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
		_	Jacob C. Cottrill, Attorney-In-Fact for Charles D. Cottrill Heirs;			
20	1-15-16	266749000	Jacob C. Cottrill and Shirley A. Cottrill, h/w	J & J Enterprises, Inc.	Not less than 1/8	258/222
			J&J Enterprises	Eastern American Energy Corporation	Assignment	282/296
			Eastern American Energy Corporation	Energy Corporation of America	_	371/528
			Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	
			Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	398/416
			Energy corporation of America	The state of the s	Assignment	420/316
			Antoro Posourosa Annologhian Companation	CNX Gas Company, LLC		
			Antero Resources Appalachian Corporation	Noble Energy Inc.	Assignment	427/564
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
Tract ID	Tax Map & Parcel	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
		#				Marin Tana
			Jacob C. Cottrill, Attorney-In-Fact for Charles D. Cottrill Heirs;			
22	1-15-15	266749000	Jacob C. Cottrill and Shirley A. Cottrill, h/w	J & J Enterprises, Inc.	Not less than 1/8	258/220
			J&J Enterprises	Eastern American Energy Corporation	Assignment	282/296
			Eastern American Energy Corporation	Energy Corporation of America	Assignment	371/528
			Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	398/416
			Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	420/316
				CNX Gas Company, LLC		
			Antero Resources Appalachian Corporation	Noble Energy Inc.	Assignment	427/564
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
Tract ID	Tax Map & Parcel	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
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1			Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred			265/415
34	1-15-10	266291000	Gregg	Manna Oil and Gas Co.	Not less than 1/8	279/88
1			Sandra Sue Clark and Clarence Duane Clark, h/w and Mildred			265/417
			Gregg	Manna Oil and Gas Co.	Not less than 1/8	279/90
			Manna Oil & Gas Co.	Anvil Oil Company	Name Change	Unrecorded
			Anvil Oil Company	Antero Resources Corporation	Assignment	445/774
				CNX Gas Company, LLC		
			Antero Resources Corporation	Noble Energy Inc.	Assignment	468/769
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
			David C. Gregg	Anvil Oil Co., Inc.	Not less than 1/8	265/407
			Anvil Oil Co., Inc.	Anvil Oil & Gas Co., Inc.	Name Change	wvsos
			Anvil Oil & Gas Co., Inc.	Anvil Oil Company	Name Change	wvsos
			Anvil Oil Company	Antero Resources Corporation	Assignment	445/774
				CNX Gas Company, LLC	_	
			Antero Resources Corporation	Noble Energy Inc.	Assignment	468/769
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
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		Title Opinion QLS			- · · · · · ·	n 1 /n
Tract ID	Tax Map & Parcel	#	Grantor, Lessor, etc	Grantee, Lessee, etc	<u>Royalty</u>	Book/Page
42	1-15-3	259015000	Roy Dean Ash	Recon Resources, LLC	Not less than 1/8	659/712
			Mary Frances Carpenter	Recon Resources, LLC	Not less than 1/8	659/709
			Recon Resources, LLC	CNX Gas Company LLC		665/593
			Recon Resources, LLC	CNX Gas Company LLC	Assignment	665/593
_ 1		Title Opinion QLS			Assignment	
Tract ID	Tax Map & Parcel	Title Opinion QLS		CNX Gas Company LLC <u>Grantee, Lessee, etc</u>		665/593 /
	Tax Map & Parcel	<u>Title Opinion QLS</u> # 279175000			Assignment	
Tract ID 57		<u>#</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	Assignment Royalty	Book/Page
		<u>#</u>	<u>Grantor, Lessor, etc</u> Ernest Lantz Ronald Lee Ash	Grantee, Lessee, etc The Coastal Corporation	Assignment Royalty Not less than 1/8	<u>Book/Page</u> 279/244
		<u>#</u>	<u>Grantor, Lessor, etc</u> Ernest Lantz Ronald Lee Ash Ralph Arnold Ash	Grantee, Lessee, etc The Coastal Corporation The Coastal Corporation The Coastal Corporation	Assignment <u>Royalty</u> Not less than 1/8 Not less than 1/8	<u>Book/Page</u> 279/244 278/554
		<u>#</u>	<u>Grantor, Lessor, etc</u> Ernest Lantz Ronald Lee Ash Ralph Arnold Ash Randall Dale Ash and Doretta Lynn Ash	Grantee, Lessee, etc The Coastal Corporation The Coastal Corporation	Royalty Not less than 1/8	Book/Page 279/244 278/554 278/556
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Tract ID	1-15-2 Tax Map & Parcel 1-15-5 Tax Map & Parcel	# 279175000 Title Opinion QLS # 293316000 Title Opinion QLS #	Grantor, Lessor, etc Ernest Lantz Ronald Lee Ash Ralph Arnold Ash Randall Dale Ash and Doretta Lynn Ash The Coastal Corporation Pardee Gas Company Pardee Exploration Company Pardee Exploration Company Pardee Minerals, LLC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc D. Ralph Thacker and J. Maurice Carlisle, Jr. Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Antero Resources Corporation Noble Energy, Inc.	Grantee, Lessee, etc The Coastal Corporation Pardee Gas Company Pardee Exploration Company Pardee Exploration Company Pardee Minerals, LLC Antero Resources Appalachian Corporation Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Antero Resources Appalachian Corporation Antero Resources Corporation CNX Gas Company, LLC CNX Gas Company, LLC ONX Gas Company, LLC Grantee, Lessee, etc Anvil Oil Company Anvil Oil Company Anvil Oil & Gas Co., Inc. Justin L. Henderson Karen M. Henderson	Royalty Not less than 1/8 Merger Deed Merger Merger Assignment Name Change Assignment Royalty Not less than 1/8 Name Change Assignment Royalty Not less than 1/8 Name Change	Book/Page 279/244 278/554 278/555 278/556 278/556 278/558 WVSOS 301/416 8/580 WVSOS 416/465 WVSOS 468/769 550/273 Book/Page 433/398 WVSOS 468/769 550/273 Book/Page 272/252
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Tract ID	1-15-2 Tax Map & Parcel 1-15-5 Tax Map & Parcel	# 279175000 Title Opinion QLS # 293316000 Title Opinion QLS #	Grantor, Lessor, etc Ernest Lantz Ronald Lee Ash Ralph Arnold Ash Randall Dale Ash and Doretta Lynn Ash The Coastal Corporation Pardee Gas Company Pardee Exploration Company Pardee Exploration Company Pardee Minerals, LLC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc D. Ralph Thacker and J. Maurice Carlisle, Jr. Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Antero Resources Corporation Noble Energy, Inc.	Grantee, Lessee, etc The Coastal Corporation Pardee Gas Company Pardee Exploration Company Pardee Exploration Company Pardee Minerals, LLC Antero Resources Appalachian Corporation Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC Grantee, Lessee, etc Antero Resources Appalachian Corporation Antero Resources Corporation CNX Gas Company, LLC CNX Gas Company, LLC ONX Gas Company, LLC Grantee, Lessee, etc Anvil Oil Company Anvil Oil Company Anvil Oil & Gas Co., Inc. Justin L. Henderson Karen M. Henderson	Assignment Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Merger Deed Merger Merger Assignment Name Change Assignment Royalty Not less than 1/8 Name Change Assignment Royalty Not less than 1/8 Name Change	Book/Page 279/244 278/554 278/555 278/556 278/556 278/558 WVSOS 301/416 8/580 WVSOS 416/465 WVSOS 468/769 550/273 Book/Page 433/398 WVSOS 468/769 550/273 Book/Page 272/252 WVSOS

Karen M. Henderson Belinda Biafore CNX Gas Company, LLC Assignment 638/500 / Tract ID Tax Map & Parcel Title Opinion QLS Grantor, Lessor, etc Grantee, Lessee, etc Royalty Book/Page 1-12-24 259214000 Ann Elaine Jones Casey and Ernest Lee Casey, w/h Anvil Oil Company 272/252 Not less than 1/8 **Anvil Oil Company** Anvil Oil & Gas Co., Inc. Name Change wvsos Justin L. Henderson Karen M. Henderson Anvil Oil & Gas Co., Inc. Belinda Biafore 497/758 Assignment 197/430 Justin L. Henderson Karen M. Henderson LWT Justin L.M. Henderson, II aka Dr. Justin L.M. Henderson II Sarah Anne Elston Golda C. Perando Karen M. Henderson Belinda Biafore CNX Gas Company, LLC Assignment 638/500 Tract ID Tax Map & Parcel Title Opinion QLS Grantor, Lessor, etc Book/Page Grantee, Lessee, etc. Royalty 1-12-21 1-12-21.3 1-12-21.4 Ora Nelson Moore and Mary Edna Moore, husband and wife, and Oletha Moore, widow 267/637 1-12-10 259026000 Clarence W. Mutschelknaus Not less than 1/8 Rosemary Eagle Clarence W. Mutschelknaus Not less than 1/8 273/80 Clarence W. Mutschelknaus **Bluestone Energy Partners** Assignment 376/822 Bluestone Energy Partners Antero Resources Bluestone, LLC Merger 379/537 Antero Resources Bluestone, LLC **Antero Resources Corporation** Merger wvsos CNX Gas Company LLC Assignment 433/7 Antero Resources Corporation Noble Energy, Inc. 550/273 CNX Gas Company LLC Assignment Noble Energy Inc. Tract ID Tax Map & Parcel Title Opinion QLS Grantor, Lessor, etc Grantee, Lessee, etc Royalty Book/Page 279/110 71 1-12-21.1 259217000 William Basil and Karen Basil, h/w **Drilling Appalachian Corporation** Not less than 1/8 281/569 **Drilling Appalachian Corporation** Reilly Industries, Inc. 324/439 Drilling Appalachian Corporation North American Search Associates, Inc. Assignment Dominion Appalachian Development Properties, 322/190 **Drilling Appalachian Corporation** Assignment Reilly Industries, Inc. Dominion Appalachian Development, Inc. Assignment 324/338 North American Search Associates, Inc. Dominion Appalachian Development Properties, L.L.C. Merger 🗸 9/206 Dominion Appalachian Development, Inc. CNX Gas Company, LLC Tract ID Tax Map & Parcel Title Opinion QLS Grantee, Lessee, etc Royalty Book/Page Grantor, Lessor, etc <u>#</u> 266282000 Not less than 1/8 444/333 **Antero Resources Corporation** 1-12-18 Sandra L. Spence 80 Antero Resources Corporation Not less than 1/8 444/335 Barbara J. Druchniak Patty L. Buterbaugh **Antero Resources Corporation** Not less than 1/8 444/337 444/339 Richard B. Smith **Antero Resources Corporation** Not less than 1/8 CNX Gas Company, LLC 468/769 Antero Resources Corporation Noble Energy Inc. Assignment 550/273 CNX Gas Company, LLC Assignment Noble Energy, Inc. Not less than 1/8 480/843 Charles Alan McCullough and Freda McCullough Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company, LLC Assignment 550/273 639/318 CNX Gas Company, LLC Not less than 1/8 **Donald Burl Smith** 653/215 Ronald Carleton Moore Jr. CNX Gas Company LLC Not less than 1/8 653/230 Chervi Ann Calkins CNX Gas Company LLC Not less than 1/8 Not less than 1/8 653/225 Benny Edwin Smith CNX Gas Company LLC Not less than 1/8 653/220 **CNX Gas Company LLC**

CNX Gas Company LLC

CNX Gas Company LLC

Justin L.M. Henderson, II aka Dr. Justin L.M. Henderson II

Sarah Anne Elston Golda C Perando

Roy Lee Smith

Jeremy J. Lopez

Mariah F. Rittman

666/52

See Attached 1

Not less than 1/8

Not less than 1/8



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

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 Charleston, 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,

Sarah Weigand

RECEIVED
Office of Oil and Gas

Darar Weiganel

OCT 3 1 2019

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

Date of Notic	ce Certification: \ \ \ \ \ - 30 - \ \ \ \ \ \ \	API No.	47	
		Operato	r's Well No. SHR	37GHSM
T.			l Name: SHR37	
Notice has b			1	
		22-6A, the Operator has provided the	required parties v	with the Notice Forms listed
	tract of land as follows:			
State:	West Virginia	UTM NAD 83 Easting:	513318.267	
County: District:	Tyler Centerville	Northing Public Road Access:	2: 4355984.189 Duckworth Ridge	Pood (CD 59/2)
Quadrangle:	West Union	Generally used farm name		- Noau (CN 30/2)
Watershed:	Headwaters Middle Island Creek	Generally used farm name	. 0117	
watershea.	Treatment made toland creek			
it has provide information re of giving the requirements Virginia Code	ed the owners of the surface describ equired by subsections (b) and (c), see surface owner notice of entry to sur of subsection (b), section sixteen of	nall contain the following information: ed in subdivisions (1), (2) and (4), so ction sixteen of this article; (ii) that the rvey pursuant to subsection (a), section this article were waived in writing be ender proof of and certify to the secretary.	ubsection (b), see requirement was on ten of this arti- by the surface ov	ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wner; and Pursuant to West
Pursuant to that the Ope	West Virginia Code § 22-6A, the Operator has properly served the required	erator has attached proof to this Notice I parties with the following:	e Certification	OOG OFFICE USE
*PLEASE CHI	ECK ALL THAT APPLY			ONLY
	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BEC SEISMIC ACTIVITY WAS CONDU		☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	EY or 🔳 NO PLAT SURVEY WAS	CONDUCTED	☐ RECEIVED
☐ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECONDTICE OF ENTRY FOR PLAT SUWAS CONDUCTED or		□ RECEIVED/ NOT REQUIRED
		WRITTEN WAIVER BY SURI (PLEASE ATTACH)	FACE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION	PE0=::-		☐ RECEIVED
■ 5. PUI	BLIC NOTICE	RECEIVED Office of Oil and Gas	3	☐ received
■ 6. NO	TICE OF APPLICATION	OCT 3 1 2019		☐ RECEIVED
		WV Department of		The second state of the second

Required Attachments:

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

Environmental Protection

Certification of Notice is hereby given:

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

Well Operator: CNX Gas Company, LLC Address: 1000 Consol Energy Drive By: Sarah Weigand Canonsburg, PA 15317 Its: Facsimile: Manager Upstream Permitting Telephone: 724-485-3244 Email: SarahWeigand@CNX.com Subscribed and sworn before me this NOTARY SEAL Commonwealth of Pennsylvania - Notary Seal Notary Public JACOB C YOUNG - Notary Public Washington County My Commission Expires Jun 4, 2022

My Commission Expire

Oil and Gas Privacy Notice:

Commission Number 1333900

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.

> RECEIVED Office of Oil and Gas

OCT 3 1 2019

API NO. 47-		
OPERATOR WE	ELL NO.	SHR37GHSM
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 la	ter than the filing date of permit application.		
ulagli 0	10/2/19		
Date of Notice: 019119 Date Permit Application Filed	1:10/31 1		
Notice of:			
☑ PERMIT FOR ANY ☐ CERTIFICATE OF	F APPROVAL FOR THE		
WELL WORK CONSTRUCTION	N OF AN IMPOUNDMENT OR PIT		
Delivery method appropriate West Viscials Code 8 22	ć 4 10/4)		
Delivery method pursuant to West Virginia Code § 22-	bA-10(b)		
☐ PERSONAL ☐ REGISTERED ☑ M	METHOD OF DELIVERY THAT REQUIRES A		
	RECEIPT OR SIGNATURE CONFIRMATION		
certificate of approval for the construction of an impoundment registered mail or by any method of delivery that requires a resediment control plan required by section seven of this article the surface of the tract on which the well is or is proposed to be to all and gas leasehold being developed by the proposed well we described in the erosion and sediment control plan submitted operator or lessee, in the event the tract of land on which the women coal seams; (4) The owners of record of the surface tract well work, if the surface tract is to be used for the placement, impoundment or pit as described in section nine of this article have a water well, spring or water supply source located within provide water for consumption by humans or domestic animal proposed well work activity is to take place. (c)(1) If more that subsection (b) of this section hold interests in the lands, the apprecords of the sheriff required to be maintained pursuant to seprovision of this article to the contrary, notice to a lien holder			
Z SURFACE OWNER(s)	COAL OWNER OR LESSEE		
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		
Name:	☐ COAL OPERATOR		
Address:	Name:		
TSUREACE OWNER(s) (B - 4 - 4/ Other Disturbence	Address:		
SURFACE OWNER(s) (Road and/or Other Disturbance	SURFACE OWNER OF WATER WELL		
Name:Address:	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:	*DI		
DECEN INC.	*Please attach additional forms if necessary		
RECEIVED			
Office of Oil and Gas			

OCT 3 1 2019

API NO, 47OPERATOR WELL NO. SHR37GHSM
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. SHR37GHSM
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

Office of Oil and Gas

OCT 3 1 2019

WV Department of

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

API NO. 47-___OPERATOR WELL NO. SHR37GHSM
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.

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OCT 3 1 2019

API NO. 47-___OPERATOR WELL NO. SHR37GHSM
Well Pad Name: SHR37

Notice is hereby given by:

Well Operator: CNX Gas Company, LLC

Telephone: 724-485-3244

Email: SarahWeigand@CNX.com

Address: 1000 Consol Energy Drive

Canonsburg, PA 15317

Facsimile:

Oil and Gas Privacy Notice:

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

Tranwealth of Pennsylvania - Notary Seal JACOB C YOUNG - Notary Public Washington County My Commission Expires Jun 4, 2022 Commission Number 1333900 Subscribed and sworn before me this add day of Oct , 2019

____ Notary Public

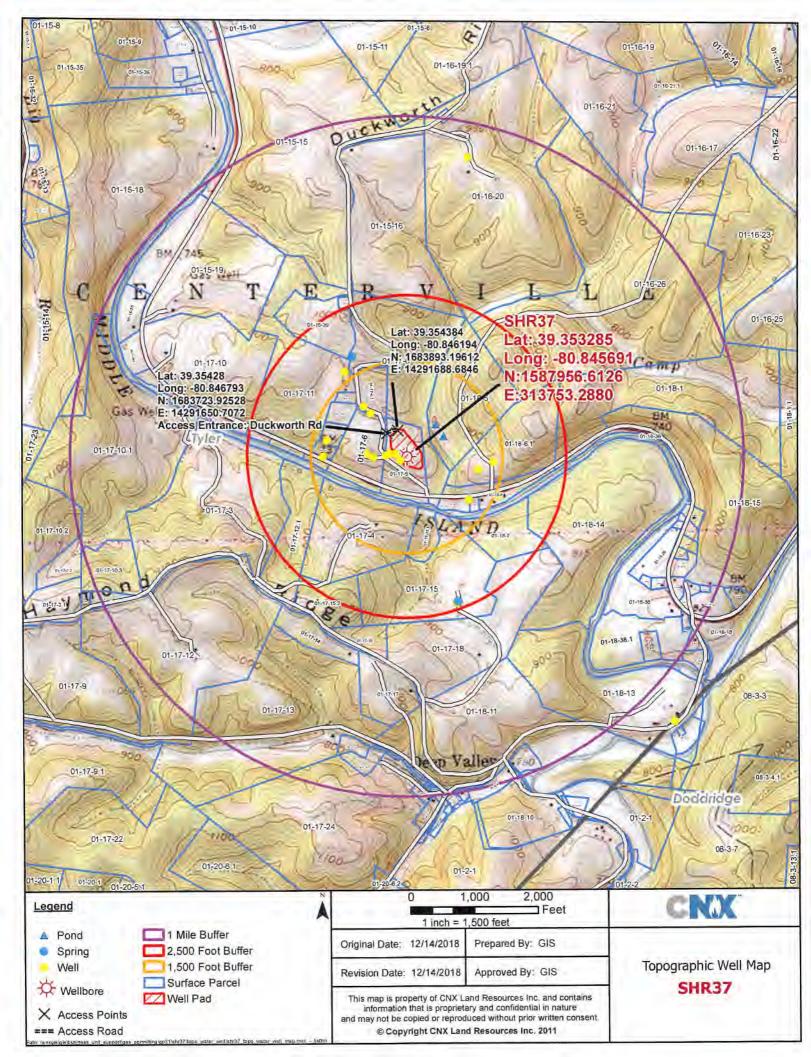
My Commission Expires

Commonwealth of Pennsylvania - Notary Seal JACOB C YOUNG - Notary Public Washington County My Commission Expires Jun 4, 2022 Commission Number 1333900

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T 3 1 2019

*/V Department of onmental Protection



WW-6A5 (1/12) Operator Well No. SHR37GHSM

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

Notice Time Date of Notic	e: 10 29 19		no later than the filing Application Filed: _/_		application.
Delivery met	hod pursuant to We	st Virginia Code §	22-6A-16(c)		
■ CERTIFIED MAIL		HAND			
	RN RECEIPT REQUI	ESTED	DELIVERY		
return receipt the planned of required to be drilling of a l damages to th (d) The notice of notice. Notice is here (at the address Name: CNX Gas	requested or hand de operation. The notice provided by subsectionizontal well; and (e surface affected by es required by this section by provided to the section by the section of the sec	livery, give the sur e required by this on (b), section ten 3) A proposed sur oil and gas operation shall be given	face owner whose land subsection shall inclu- of this article to a surf- face use and compens ons to the extent the da- to the surface owner a	I will be used for de: (1) A copy ace owner whose sation agreement amages are come at the address list	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 nt containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
Pursuant to W	est Virginia Code § 2				well operator has developed a planned
To the second of the second		and for the purpose	of drilling a horizonta	I well on the tra Easting:	ect of land as follows: 513318.267
State: County:	West Virginia Tyler		UTM NAD 8	Northing:	4355984.189
District:	Centerville		Public Road		Duckworth Ridge Road (CR 58/2)
Quadrangle:	West Union			ed farm name:	CNX
Watershed:	Headwaters Middle Island C	reek			
Pursuant to W to be provide horizontal we surface affect information r	ed by W. Va. Code ell; and (3) A propose ed by oil and gas op elated to horizontal of located at 601 57 th	§ 22-6A-10(b) to a d surface use and c erations to the exte drilling may be ob	surface owner whose compensation agreeme ent the damages are catained from the Secre	e land will be nt containing an compensable und tary, at the WV	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

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.

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OCT 3 1 2019



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

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

October 11, 2019

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

RE:

SHR37GHSM Waiver Request

To Whom It May Concern:

CNX Gas Company LLC (CNX) as surface and coal owner of the SHR37GHSM 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 .

ede theiganel

Sincerely,

Sarah Weigand

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OCT 3 1 2019

WW-6RW (1-12)

CNX # 294099001

API NO. 47-	2	
OPERATOR WELL	LNO.	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

The well ope work. Please	erator, _CNX GAS COMPANY LLC be advised that well work permits a	is applying for a perm re valid for twenty-four (it from the State (24) months.	of West Virginia to conduct oil or gas well	
Pursuant to various discarded within larger used to dwellings or provided in sarticle was proby written excelers of the evariance by the conditions the cond	water well or developed spring use n six hundred twenty-five feet of an o house or shelter dairy cattle or p agricultural buildings that existed or ection ten of this article or a notice of rovided, whichever occurs first, and onsent of the surface owner transmic county commission for the county is the secretary from these distance resi-	d for human or domestic occupied dwelling struc- noultry husbandry. This in the date a notice to the fintent to drill a horizon to any dwelling under co- titled to the department a in which such property trictions upon submission instruction, drilling and of safety and protection of a	c animal consump eture, or a building limitation is app e surface owner of the construction prior to and recorded in the is located. Furthe n of a plan which perations. The valuected persons a	dred fifty feet measured horizontally from ption. The center of well pads may not be g two thousand five hundred square feet or olicable to those wells, developed springs f planned entry for surveying or staking as ded in subsection (b), section sixteen of this to that date. This limitation may be waived he real property records maintained by the rmore, the well operator may be granted identifies the sufficient measures, facilitie ariance, if granted, shall include terms and property. The terms and conditions may	s s d e a e s d
provisions lis WW-6A and	ted above and that I have received	copies of a Notice of Ap	ons to Persons Na plication, an Appl , including the	med on Page WW-6A and the associated lication for a Well Work Permit on Form erosion and sediment control plan, if	
State:	West Virginia	UTM NA	D 83 Easting:	513285.2620 m	_
County:	Tyler		D 83 Northing:	4356027.9910 m	_
District:	Centerville	Public Ro	ad Access:	Duckworth Ridge Road (CR 58/2)	
Quadrangle:	West Union	Generally	used farm name:	CNX	_
Waterbade	Handwater Middle Island Crack			The second secon	
1 further state	that I have no objection to the plan	ned work described in the	iese materials, and	d I have no objection to a permit being	
issued on tho	se materials and I therefore waive a	Il well site restrictions li	sted under West	Virginia Code § 22-6A-12(a).	1
WELL SITE	RESTRICTIONS BEING WAIT	/ED	FOR EXECU	TION BY A NATURAL PERSON	
	all that apply		Signature:	-2-1 % -1	1
	ATT THE PART OF TH		Print Name: _		1
EXISTI	NG WATER WELLS		Date:	THE PARTY OF THE P	1
DEVEL	OPED SPRINGS		FOR EXECU	TION BY A CORPORATION, ETC.	1
G DEVEL	OI LD SI KINGD			CNX Gas Company LLC	T
DWELL	LINGS			Ly Surpick	1
			Its: Asista		Т
AGRICU	JLTURAL BUILDINGS		Date:	12(12/2018	U
		Ci-	-		_
Well Operato	T: CNX GAS COMPANY LLC	Tolo	phone: 724-485-354	m/fer	-
By: Raymond Ho		Tele	phone: 124-403-034		-
Its: Permitting St	pervisor				
Doug Ceci My Con	NWEALTH OF PENNSYLVANIA NOTARIAL SEAL plas E. Smith, Notary Public if Twp., Washington County nmission Expires Dec. 6, 2020 NVSYLVANIAASSOCIATION OF NOTARIES	Subscribed and swo	E Smit		lic
Oil and Gas P The Office of	rivacy Notice: Oil and Gas processes your personal in			one number, as part of our regulatory duties.	Yo

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulators duties. Four 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.

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EXHIBIT A

SHR37HSM

Operator Well No.

SHR37DHSM SHR37EHSM SHR37FHSM SHR37GHSM SHR37HHSM SHR37IHSM SHR37KHSM SHR37LHSM SHR37MHSM SHR37NHSM SHR37OHSM SHR37PHSM

SHR37QHSM SHR37RHSM

Neil A Archer II
TYLER County 10:31:58 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

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OCT 3 1 2019

4 7 0 9 5 0 2 6 6 9
API NO. 47OPERATOR WELL NO. SHR37GHSM
Well Pad Name: SHR37

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

VOLUMEART STATEMENT OF NO OBJE

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:	West Virginia	UTM NAD 83 East		513318.267
County:	Tyler	Northing:		4355984.189
District: Centerville		Public Road Access:		Duckworth Ridge Road CNX Gas Company
Quadrangle: Watershed:	West Union Middle Island Creek	Generally used farm name		CIVA Gas Company
Please chec	k the box that applies	FUNEAU		
		FOR EVI	CHTT	ON BY A NATURAL PERSON
Ticasc check	the box that applies			
	and a title rest			ION DI A NATURAL I LABOR
■ SURFA	CE OWNER	Signature:		
	CE OWNER CE OWNER (Road and/or Other Disturbance)	Signature:		
□ SURFA		Signature: Print Nam Date:	e:	
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□ SURFA	CE OWNER (Road and/or Other Disturbance CE OWNER (Impoundments/Pits)	Signature: Print Nam Date: FOR EXI	e:ECUTION CNX Ga	ION BY A CORPORATION, ETC. s Company, LLC
□ SURFA(□ SURFA(■ COAL (□ COAL (CE OWNER (Road and/or Other Disturbance CE OWNER (Impoundments/Pits) DWNER OR LESSEE	Signature: Print Nam Date: FOR EXI Company: By: Sarah V	e:	ION BY A CORPORATION, ETC. s Company, LLC

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

December 14, 2018

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

Jill M. Newman Deputy Commissioner

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

Subject: DOH Permit for the SHR-37 Well Pad, Tyler County shr37ghsm 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.

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WV Department of Environmental Protection Very Truly Yours,

Gary K. Clayton P.E.

Regional Maintenance Engineer Central Office Oil &Gas Coordinator

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

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WVDEP OOG

ACCEPTED AS-BUILT

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





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, WV 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



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

are half scale. Nelet to scale bal for proper scaling.		was created on 22x34 paper. 11x17 drawings Refer to scale bar for proper scaling.
	are riall scale.	terer to scale bar for proper scaling.

Know what's below. Call before you dig.



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DRAWING SMC	DATE STREETS
CHECKED WIS	DATE STREETS
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SHIP/TY BY	
A REST, Co., SANTI A REST	

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KIME .	10129 MASON DISON HIGHWAY MARTONYAY 20042 WAY MINISTER BIG 2001	

-	PHANE VIL	-
	CONTRACT No.	

CNX RESOURCES CORPORATION	
SHIRLEY 37 SITE	
PAD AS-BUILT	
TYLER COUNTY, WEST VIRGINIA	
COVER SHEET	

