

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 IHSM Re:

47-095-02664-00-00

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.

Chief

James A. Martin

SHR 37 IHSM Operator's Well Number:

CNX GAS COMPANY Farm Name:

U.S. WELL NUMBER: 47-095-02664-00-00

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

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.

WW-6B (04/15) API NO. 47-47 09 5 0 2 6 6 4

OPERATOR WELL NO. SHR37IHSM
Well Pad Name: SHR37

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

1) Well Operato	r: CNX Gas	Company	, LLC	4944	58046	Tyler	Centervill	West Union
	-			Oper	rator ID	County	District	Quadrangle
2) Operator's W	ell Number:	SHR37IHS	M		_ Well Pa	ad Name: SH	R37	
3) Farm Name/S	Surface Owner	r: CNX Gas	Compar	ny LLC	Public Ro	ad Access: D	uckworth Rid	ge Road
4) Elevation, cur	rent ground:	828'	E	levation	n, proposed	l post-constru	ction: 828'	
	(a) Gas — Other	Х	Oil _		Uno	lerground Sto	rage	
	(b)If Gas S	hallow	X		Deep	(2.00
	H	Iorizontal	X					Jes,
6) Existing Pad:	Yes or No _		Yes	3		_		79/30/2019
7) Proposed Tar Target formati				A 100 TO THE REAL PROPERTY.			Pressure(s): ation pressure	~4000 psi
8) Proposed Tot	al Vertical De	epth: 6302	r .					
9) Formation at		State of Comments		s Shale	(will not	oenetrate On	ondaga)	
10) Proposed To	tal Measured	Depth: 2	2,000'					
11) Proposed Ho	orizontal Leg	Length: 1	4,775'					
12) Approximat	e Fresh Water	r Strata Dep	oths:	92', 1	26', 144',	148', 150', 1	76', 220'	
13) Method to D	etermine Fre	sh Water D	epths:	Offset	water well	information		
14) Approximate	e Saltwater D	epths: 174	18', 2458	3'				
15) Approximat	e Coal Seam	Depths: No	o minea	ble coa	al seams;	trace @ 154'	, 526', 618', 9	55', 992', 1044'
16) Approximat	e Depth to Po	ssible Void	(coal m	ine, kar	est, other):	None anticip	oated	RECEIVED Office of Oil and Gas
17) Does Propos directly overlyin					es	1	No	OCT - 4 2019 WV Department of Environmental Protection
(a) If Yes, prov	vide Mine Inf	o: Name:						
		Depth:						
		Seam:						
		Owner	:					

WW-6B (04/15) API NO. 47-47 09 5 0 2 6 6 4

OPERATOR WELL NO. SHR37IHSM
Well Pad Name: SHR37

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	L/S	<94.0	100	100	96 / CTS
Fresh Water	13.375	New	J-55	54.5	400	400	278 / CTS
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	22,000	22,000	4559 / TOC @ 2100'
Tubing	2.375	New	J-55	4.7		TBD	N/A
Liners	N/A						

9/30/2019

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	24	0.375	N/A	N/A	Type 1	1.18
Fresh Water	13.375	17.5	0.380	2730	<500	Class A	1.19
Coal	13.375	17.5	0.380	2730	<500	Class A	1.19
Intermediate	9.625	12.25	0.352	3520	<2815	Class A	1.19
Production	5.5	8.75 x 8.5	0.361	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	RECEIVED Office of Oil and Gas
Sizes:		OCT - 4 2019
Depths Set:		WV Depart ant of Environmenta Protection

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

69/30/2019

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.

OCT - 4 2019

25) Proposed borehole conditioning procedures:

Air sections are typically vertical holes - will ensure the hole is clean at section TD prior to TOOH to runcasing (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.

*Note: Attach additional sheets as needed.

SHR37 Cement Additives

Fresh water string: Class A cement with 1%-3% CaCl2 and 1/4 pps cello-flake/LCM. Intermediate string: Class A cement with 0%-2% CaCl2 and 1/4 pps cello-flake/LCM. Production string: Class A or Class H with dry blend and/or liquid additives including retarder, suspension agent, gas block, defoamer, fluid loss control, extender, dispersant, anti-settling agent. Actual cement blends may vary slightly depending upon cementing service company utilized.

RECEIVED
Office of Oil and Gas

OCT - 42019

WV Department of Environmental Protection



DRILLING WELL PLAN

SHR-37I-HSM (Marcellus HZ)

Marcellus Shale Horizontal

Tyler County, WV

										. ,	ounty, vv v				
							SH	IR-37I-H	SM SHL	N 31	3605.21, E 1619480	.01 (NAD27)			
Grou	ınd Elev	ation		828 GL E	levation		S	HR-37I-H	ISM LP	N 314429.2, E 1621361.84 (NAD27)					
	Azimuth	1		341	0		SH	IR-37I-H	SM BHL	N 32	8399.6, E 1616551.	45 (NAD27)			
WEL	LBORE DIAG	GRAM	HOLE	CASING	GEOLOGY	MD	TVD	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS			
			24"	20" L/S	Conductor	100	100	AIR	To Surface	N/A	N/A	Stabilize surface fill/soil			
					Shallowest Fresh Water		92		15.6 ppg Class A + 1% to 3% CaCl2	Centralize every other joint from shoe to		Set through fresh water 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	surface Bow spring centralizers	Ensure the hole is clean at section TD	Cemented to surface No known mineable coal seam			
	4			N A	Fresh Water Casing	400 400			TOC @ surface	Son opining sommanization					
	1 1				No mineable coal zones		N/A								
					Big Lime		1683					Set through potential salt wat			
	Ш		9-5/8" 36.0#	Big Injun		1748		15.6 ppg Class A + 0% to 2% CaCl2	Centralize every 3rd		zones				
		12-1/4"		Price		1888	- Aut /	+ 1/4 pps Flake	joint from shoe to surface	Soap the hole as needed and ensure the hole is clean	Cemented to surface				
		83	12-114	J-55 LTC	Weir		2018		20% OH Excess Yield = 1.19 TOC @ surface	April 1985	at section TD	Casing to be set below the B Injun and Berea and into Devo Shale			
	1 1				Berea		2238			Bow spring centralizers					
- 10	0 1		1		Gordon		2458								
	M 1	10			Intermediate Casing	2600	2600								
- 2	1 1				Warren		3153								
	1 1		0.040		Benson		4733		45.0						
	M 1	8	8-3/4" Tangent		Alexander		4978	AIR	15.0 ppg Class A or H with additives (retarder,		Once at TD, circulate at max				
			2.72		Cashaqua		5978		suspension agent, gas	Controller sures falst	flowrate with max rotation until shakers clean-up	Note: Actual centralizer placem			
57	9	0		E 4/01/20 0#	Middlesex		6083		block, defoamer, fluid loss, extender, etc.)	Centralize every joint from shoe to TOC	(typically requires multiple	may be changed due to hole conditions			
30	SO THE		1	5-1/2" 20.0# P-110 VAR	West River		6123		10% OH Excess	Single-piece/rigid bow	bottoms-up)	Note: Astrol consent blands on			
office of Oil and Gas OCI 1000 1000 1000 1000 1000 1000 1000 10	88	1		Burkett		6193		Yield = 1.10	centralizers	Once on bottom with casing, circulate a minimum of one	Note: Actual cement blends m vary slightly depending upon				
	a l	8-1/2" Curve		Tully		6223	12.0-12.8	TOC @ >= 500' above		hole volume prior to	service company utilized				
7			& Lateral		Hamilton		6243	ppg SOBM	9-5/8" shoe		pumping cement				
oro font	d Gas			1	Marcellus		6261								
60	u,				Production Casing	22000	6302								

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)

+/- 14776' Lateral

TD @ +/- 6302' TVD

70/30/2019

709502664

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 < Raymond < Raymond < Lacob.K.Rhodes@wv.gov > Cc: Weigand, Sarah < Sarahweigand@cnx.com; Zachwieja, Becky < BeckyZachwieja@cnx.com; Simmons, Walter G < Walter.G.Simmons@wv.gov; Kees, Kelly L < Kees@wv.gov; Adkins, Laura L

<<u>Laura.L.Adkins@wv.gov</u>>

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.

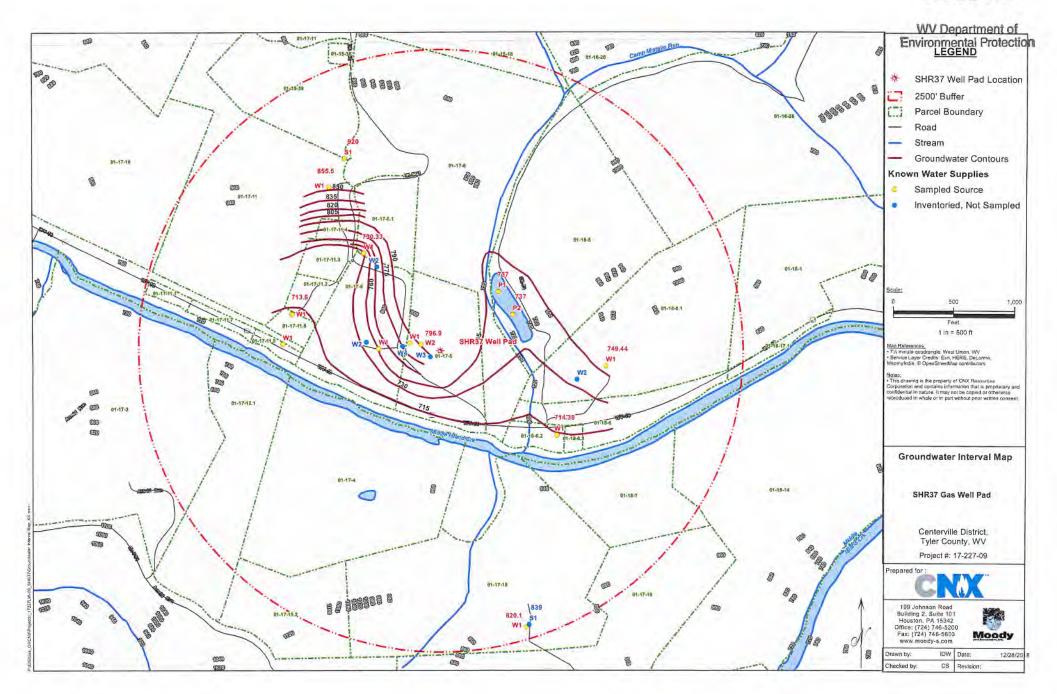
Thank you,

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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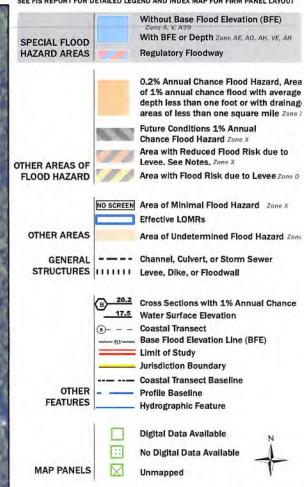


National Flood Hazard Layer FIRMette



Legend

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



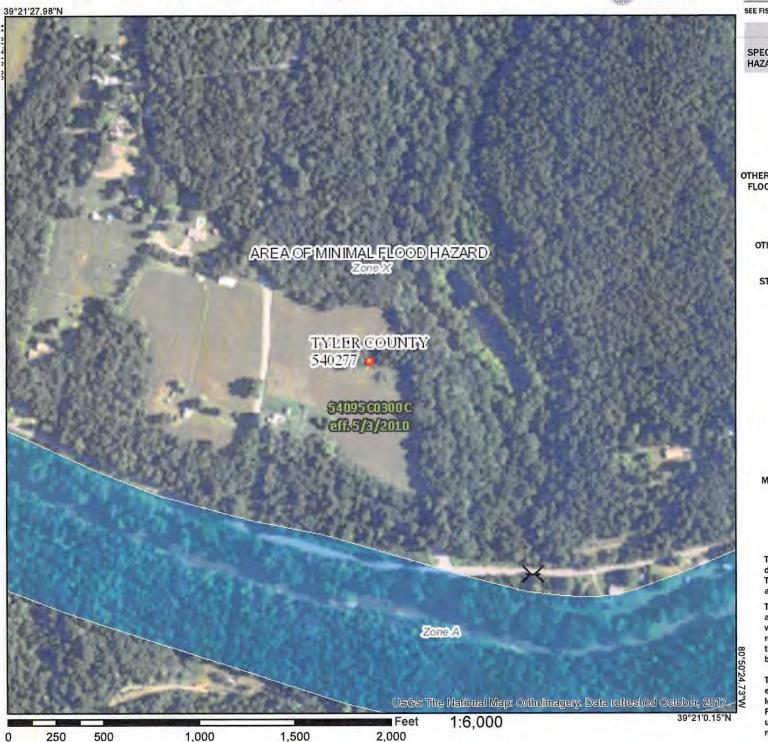
9

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.





Figure 1. Stratigraphic intervals of high stress should serve as adequate confining layers, or frac barriers, for a Marcellus frac, seen below in the SHR1C Stress Profile log.

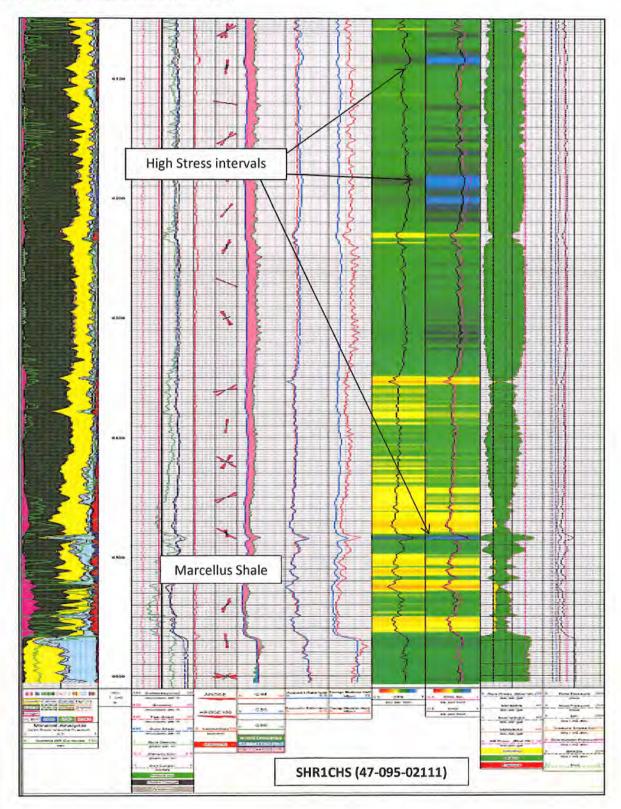




Figure 2. Stratigraphic intervals of high stress should serve as adequate frac barriers for a Marcellus frac. The frac modeling example below is from the Oxford area of western Doddridge County, where the Marcellus and adjacent shallower shales are lithologically similar to Pennsboro. Frac modeling only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

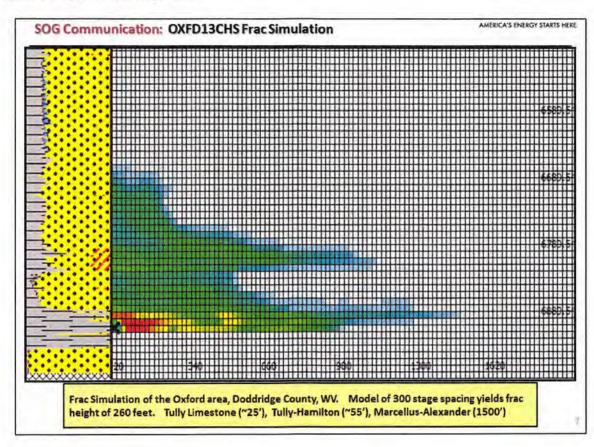




Figure 3. All wells within a 2640' buffer around the SHR37 pad center have been reviewed and listed below.

API	STATE	COUNTY	LATITUDE	LONGITUDE	OPERATOR	STATUS	WELL_NAME	WELL_NO	PLUG_DATE	TD	FMTD	ELEVATION	FIELD NAME	COMMENTS
4709500492	wv	Tyler	39.34947696	-80.85201064	Consolidated Gas Supply Corp.	Gas	G Doak			1916	Squaw	862	Unnamed	Ground Level
4709500992	WV	Tyler	39.34683572	-80.84205087	J & E Drilling and Development, Co.	Gas	R McKitrick Heirs & C Wagner			5014	Benson	960	Wilbur	Ground Level
4709501200	WV	Tyler	39.35527799	-80.84883673	Union Drilling, Inc.	Gas	Elden E & Nancy Pratt	1		4927	Benson	833	Wilbur	Ground Level
4709500280	wv	Tyler	39.34991182	-80.84453982	Duty Oil	Dry	Goldie McKitrick	1	9/22/1959	945	1st Cow Rn/Moundsvle	818	Wilbur	Ground Level
4709501167	wv	Tyler	39.34947683	-80.8450998	Appalachian Energy Development	Gas	John McKitrick et al	1		4866	Benson	818	Wilbur	Ground Level
4709530393	WV	Tyler	39.35169904	-80.85462559	Deem, F. S.	Gas	A Gorrell Doak	7		2110	Big injun (undiff)	1082	Stanley	Ground Level
4709500037	wv	Tyler	39.34715688	-80.84995569	Bachelor, D.	Dry	Maggie Doak et al	1	10/4/1935	1193	1st Cow Rn/Moundsvie	1109	Wilbur	Field Topo Map
4709501204	WV	Tyler	39.3558579	-80.84360685	Union Drilling, Inc.	Gas	Danny C Harris	1		4919	Benson	778	Wilbur	Ground Level
4709500267	WV	Tyler	39.34838191	-80.85035268	Bachelor, Choguill & Ray, Inc.	Dry	Ellis Jenkins Heirs	1	4/11/1958	1103	1st Cow Rn/Moundsvie	1098	Wilbur	Ground Level
4709501223	WV	Tyler	39.35136192	-80.84864873	Stonewall Gas Co., Inc.	Gas	James Ellis Jenkins heirs	1		4954	Benson	850	Wilbur	Ground Level
4709501171	WV	Tyler	39.35034699	-80.85313162	J & J Enterprises, Inc.	Gas	Mattie Dotson Flint et al	1000		5469	Alexander	948	Wilbur	Ground Level
4709500830	WV	Tyler	39.35118671	-80.83757998	J & J Enterprises, Inc.	Gas	Edwin D Mulvay et ux			5136	Alexander	800	Wilbur	Ground Level
4709501150	WV	Tyler	39.35426208	-80.85425361	Anvil Oil Co., Inc	Gas	Mildred Gregg et al	1		4795	Benson	719	Wilbur	Ground Level

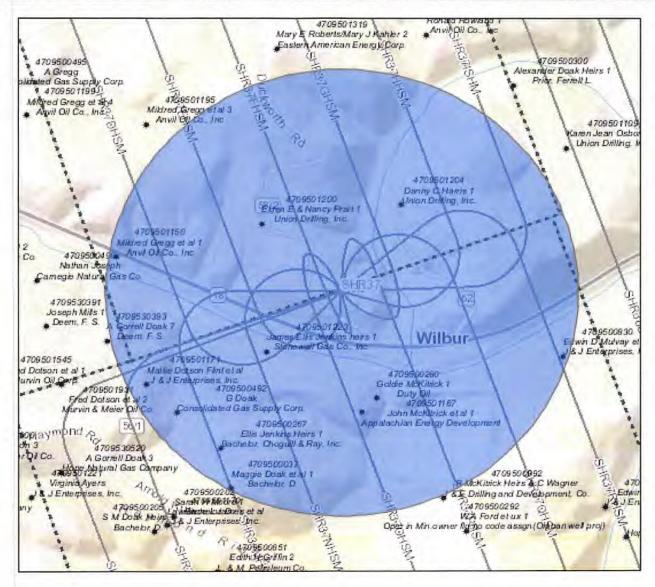




Figure 4. All wells within a 500' buffer around the SHR37 pad have been reviewed and listed below. Pink highlights mean that no data exists for the well.

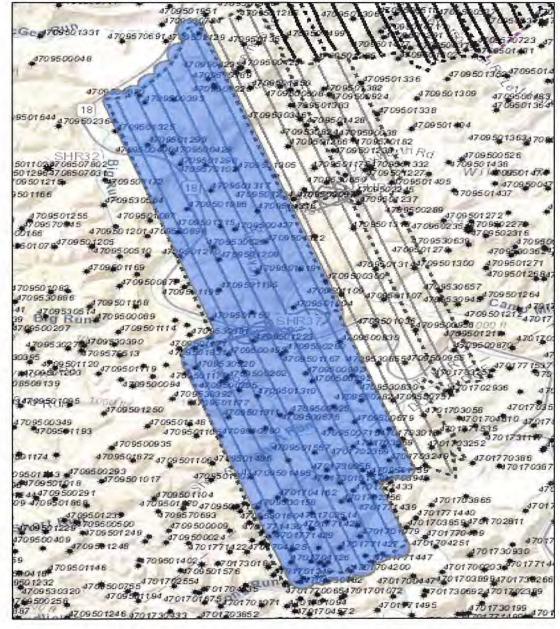
API	STATE	COUNTY	LATITUDE	LONGITUDE	OPERATOR	STATUS	WELL_NAME	WELL NO	PLUG_DATE	70	FMTD	ELEVATION	COMMENTS
709501442	WV	Tyler	39.33317	-80.8336774		Canceled Permit				0		804	
709570102	WV	Tyler	59.3753024	-80.8548587	Carnegie Natural Gas Co.	Gas	Laura Conaway	1		0		735	Ground Level
701703452	WV	Doddridge	39.33317	-80.8336774		Canceled Permit				0		804	
4701771438	WV	Doddridge	39.3308663	-80.83576	Hope Natural Gas Company	not available	Ellas Thomas			D		871	
701704570	WV	Doddridge	39.5185292	-80.8393069	unknown	not available	McKendry Dotson 1			0		958	
709530890	WV	Tyler	39.3383578	-80.8529416	Hope Natural Gas Company	not available	Robert Doak	1		0		1116	Spirit Level
4701771436	WV	Doddridge	39 3369735	-80.8299341	unknown	not available	McCutchan-Haines 1			0		930	
4709500044	WV	Tyler	59,3931738	-80.8557597	unknown	not available	B 5 Smith	1		0		816	Ground Level
701704186	WV	Doddridge	59.5257924	-90.8413618	Ritchie Petroleum Corp.	not available	Brake Samuel 1			0		1031	
701771447	WV	Doddridge	393211421	-80.833294	Hope Natural Gas Company	not available	Lawrence James			0		885	
701701082	WV	Doddridge	39.5220222	-80.854267	Prior, Ferrell L DBA Prior Oil Company	not available	W H Pigott 1			D		930	
701771448	WV	Doddridge	59 3207062	-80.8396799	unknown	not available	S Yeater			0		751	
701703945	WV	Doddridge	89.33317	-80.8336774						D		804	
701771485	WV	Doddridge	39,3372634	-80.83352	Hope Natural Gas Company	not available	Wagner			0		746	
709550160	WV	Tyler	39.3281125	-80.8464037	Hope Construction & Refining	not available	E M Jackson	7		0		1115	Ground Level
701771458	WV	Doddridge	39.3301403	-80.833294	unknown	not available	8 Hendershot 1			0		752	
701771429	WV	Doddridge	39 3252054	-80.8460267	unknown	not available	Cisco Dotson			0		989	
701771427	WV	Doddridge	59.3230282	-80.8376269	Oper in Min.owner fld,no code assgn(Orphan well proj)	not available	Mary Montgomery 1			0		790	
4709500292	WV	Tyler	59.3458127	-80.8411859	Oper in Min.owner fld,no code essgn(Orphan well proj).	not available	W A Ford et us	_ 1		0		841	Spirit Level
701771428	WV	Doddridge	39.3257864	-80.8411758	unknown	not available	Cisco Dotson 1			0		1040	
701703402	WV	Doddridge	39.33517	-8D.8336774					A	0		804	
701780535	wv	Doddridge	39.3211415	-80.8400528	unknown	not available	5 Yester			D		785	
709501493	WV	Tyler	39.33317	-80.8336774						0		804	
701704399	WV	Doddridge	39 33317	-80.8356774						0		804	
701771425	WV	Doddridge	39.3228834	-80.8437868	unknown	not available	Arlington Dotson 2	X		D		819	
709501159	WV	Tyler	39.35517	-80.8556774						0		804	
701709943	WV	Doddridge	39.33317	-80.8336774						0		804	
701750182	wv	Doddridge	39.5189643	-80.8422938	Philadelphia Oil Co.	not available	F.Dotson			0		840	
701771434	wv	Doddridge	39.3327524	-80.8593059	Hope Natural Gas Company	not available	Wagner			0		984	
709530158	wv	Tyler	39,3286925	-80.8482707	Hope Construction & Refining	not available	E M Jackson	3		0		1197	Spirit Level
701771431	WV	Doddridge	39.5295605	-80.8445338	unknown	not available	Alfred Dotson 1			0		1087	
701703944	WV	Doddridge	59.55317	-80.8536774						0		804	
708505470	WV	Ritchie	39.33917	-80.8336774						0		804	
4709500280	wv	Tyler	39.5499118	-80.8445398	Duty Oil	Dry	Goldie McKitrick	1	9/22/1959	945	1st Cow Rn/Moundsvie	818	Ground Level
709500715	WV	Tyler	39.3393255	-80.8587489	Industrial Gas Associates	Dry	W Paul McCutchan	3	abandoned	948	Lo Front Ss/Front Ss	780	Ground Level
709500202	WV	Tyler	59.3462759	-80.8521136	Bachelor, D.	Dry	Sarah H Moore	1	8/14/1951	1096	1st Cow Rn/Moundsvie	1084	Ground Level
709500205	wv	Tyler	39.3458049	-80.8528376	Bachelor, D.	Dry	5 M Doak Heirs	1	11/29/1951	1100	Mahonig Sa/Big Dunk	1036	Ground Level
4709500267	wv	Tyler	39.5483819	-80.8503527	Bachelor, Chaguill & Ray, Inc.	Dry	Ellis Jenkins Heirs	1	4/9/1958		1st Cow Rn/Moundsvle	1098	Ground Level
4709500037	wv	Tyler	39.3471569	-80.8499557	Bachelor, D.	Dry	Maggie Doak et al	1	11/4/1935	1193	1st Cow Rn/Moundsyle	1109	Field Topo Ma
4701701070	WV	Doddridge	39.3210802	-80.8390849	Prior, Ferrell L DBA Prior Oil Company	Oil	D Garner 1			1792	Big Injun (undiff)	728	Ground Level
4701730056	wv	Doddridge	39.3356704	-80.83464	Hope Natural Gas Company	Gas	Austin Doak			1800	Big injun (undiff)	759	Ground Level
709500300	WV	Tyler	39.3595159	-80.839415	Prior, Ferrell L	Gas	Alexander Doal Hairs	1 - 1 -		1836	Big Injun (undiff)	785	Ground Level
701700014	wv	Doddridge	39.5228924	-80.8437888	Foley Oil & Gas	Oil and Gas	Arthur Yeater	2		1845	Big Injun (und)ff)	775	Ground Level
4709500288	wv	Tyler	39.5394627	-80.8472267	Oper in Min.owner fld.no code assgn(Orphan well proj)	Gas	Dale Ash	1		1849	Big Injun (undiff)	837	Ground Level
701701092	wv	Doddridge	39.3212313	-80.8412988	Hickman, Charles L	Dry w/ O&G Show	Arlington Dotson Hrs 3	1	1964	1865	Big Injun (undiff)	780	Ground Level
701730101	wv	Doddridge	39.5320283	-80.85464	Deem, F. S.	Oil and Gas	Henderson Walton	1	2207	1880	Big Injun (undiff)	802	Ground Level
4701730443	WV	Doddridge	59.3183963	-80.8426678	Clifton Oil & Gas	Oil and Gas	McKendry Dotson	2		1882	Big Injun (undiff)	820	Ground Level
4709500393	WV	Tyler	39.3183963	-80.8628425	Menn Drilling	Oil	H B Smith & Ash	1		1900	Big injun (undiff)	805	Ground Level



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4709570189	WV	Tyler	39.3869136	-80.8544647	Philadelphia Company, The	Gas	W N Moore		1901	Big Injun (undiff)	830	Ground Level
4709500492	WV	Tyler	59.349477	-80.8520106	Consolidated Gas Supply Corp.	Gas	G Dook		1916	Squaw	862	Ground Level
4701700204	WV	Doddridge	39.3321733	-80.832933	P & M OII Co.	Dry w/ O&G Show	Harley Talkignton	1.	1916	Big Injun (undiff)	893	Ground Level
4709530526	WV	Tyler	39.3641702	-80.8538826	Pittsburgh & WV Gas	Gas w/ Oil Show	Nosh & Laura Duckworth	2	1923	Big Injun (undiff)	888	Ground Level
4701730160	WV	Doddridge	39.3524633	-80.8314391	Hope Natural Gas Company	Gas	E A Hendershot		1950	Big Injun (und)ff)	870	Ground Level
4701751194	WV	Doddridge	39.3266563	-80.8393059	Hickman, Charles L.	Oil and Gas	Cisco Dotson	1	1975	Big Injun (undiff)	961	Ground Level
4701730277	WV	Doddridge	59.3272425	-90,8478967	Hope Construction & Refining	Oll w/ Gas Show	Austin Doak		1978	Squaw	938	Ground Level
4701701065	WV	Doddridge	39.3185952	-80.8393839	Prior, Ferrell L DBA Prior Oil Company	Oil w/ Gas Show	W H Pigott Hrs 1		1985	Big Injun (undiff)	1010	Ground Level
4701750102	WV	Doddridge	39.3520284	-80.8376279	Deem, F. S.	Oil and Gas	Okey Washburn		1987	Big Injun (undiff)	826	Barometer
4701750286	WV	Doddridge	59.3390824	-80.8525411	Clifton Oil & Gas	Gas w/ Oil Show	Lewis Maxwell Heirs	1	2010	Big Injun (undiff)	1055	Ground Level
4709500428	WV	Tyler	39.3767876	-80.8591176	Warren Drilling Co. (John R. Warren)	Gas w/ Oil Show	Dale Ash	1	2052	Weir	720	Ground Level
4709580520	wv	Tyler	39.347639	-80.8563055	Hope Natural Gas Company	Gas w/ DI) Show	A Gorrell Doak	3	2105	Big Injun (undiff)	1072	Ground Level
4709530898	WV	Tyler	39.351699	-80.8546256	Deem, F. S.	Gas	A Gorrell Doak	7	2110	Big Injun (undiff)	1082	Ground Level
4701702559	WV	Doddridge	59.3568394	-80.8518811	Industrial Gas Associates	Oil and Gas	LG Hammer 1		2500	Weir	918	Ground Level
4701702556	WV	Doddridge	39.3294574	-80.8575199	Industrial Gas Associates	Oil and Gas	N Shepherd 1		2503	Welr	920	Ground Level
4709500679	WV	Tyler	39.3402015	-80.835698	Industrial Gas Associates	Oil and Gas	Hattle Bradford	2	2315	We)r	780	Ground Level
4701702514	WV	Doddridge	39.3270163	-90.8370789	Industrial Gas Associates	Oil and Gas	Paul James 1	- 11.	2380	Weir	1000	Ground Level
4709500851	wv	Tyler	39.3445459	-80.8505147	L & M. Petroleum Co.	Gas	Edith H Griffin	2	2465	Berea 5s	1010	Ground tevel
4709500676	wv	Tyler	59.3411227	-80.8452958	Industrial Gas Associates	Oil and Gas	Paul McCutchan	1	2466	Fifty-foot	950	Ground Level
4709530600	WV	Tyler	39.3422726	-80.8383759	Hope Natural Gas Company	Gas	W P Bradford		2495	Gantz	862	Ground Level
4709501931	WV	Tyler	39.3503471	-80.8563066	Muryin & Meler Oil Co.	Dry w/ Gas Show	Fred Dotson et al	2	2531	Berea 5s	989	Kelly Bushing
4701701079	wv	Doddridge	39,3246812	-80.834929	Prior, Ferrell L DBA Prior Oil Company	Dry	Elizabeth Thomas 1		2553	Big Injun (undiff)	771	Ground Level
4709500220	WV	Tyler	39.3861746	-80.8539307	Oper in Min.owner fld,no code assgn(Orphan well proj)	Dry w/ O&G Show	Okey R & Ore Nelson Moore	1	2605	Gordon	752	Ground Level
4709500400	WV	Tyler	39.3779476	-80.8604265	Quaker State Oil Refining Co.	Dry w/ D&G Show	Dale Ash Jr	1	2610	Weir	816	Ground Level
4709530830	wv	Tyler	39.3456086	-80.835201	Hope Natural Gas Company	Gas	William Smith		2922	Fifth	745	Ground Level
4709500815	WV	Tyler	39.3661544	-80.8585535	L & M. Petroleum Co.	Gas w/ Oil Show	Frank Dillon	1	3400	Warren First	810	Ground Level
4709501150	WV	Tyler	39.3542621	-80.8542536	Anvil Oil Co., inc	Gas	Mildred Gregg et al	1	4795	Benson	719	Ground Level
4709501298	WV	Tyler	39.3753365	-90.8581836	Coastal Corp, The	Gas	Randall & Doretta Ash	1	4858	Benson	729	Ground Level
4709501317	WV	Tyler	39.3718094	-80.8542587	Coastal Corp, The	Gas	Duane & Sandra Clark	8	4859	Benson	787	Ground Level
4709501167	WV	Tyler	39.3494768	-80.8450998	Appalachian Energy Development	Gas	John McKitrick et al	1	4866	Benson	B18	Ground Level
4709501210	WV	Tyler	59.3628185	-80.8583655	Anvil Oil Co., Inc	Gas	David Gregg et al	6	4892	Benson	746	Ground Level
4709501204	wv	Tyler	59.3558579	-80.8436069	Union Drilling, Inc.	Gas	Danny C Harris	1	4919	Benson	778	Ground Level
4709501304	wv	Tyler	39.5738402	-80.8458519	Coastal Corp, The	Ges	Duane Clark et al	1	4923	Benson	758	Ground Level
4709501299	WV	Tyler	39.3780926	-80.8624815	Coastal Corp, The	Gas w/ Oil Show	Ralph Ash et ux	2	4927	Benson	727	Ground Level
4709501200	WV	Tyler	39.355278	-80.8488367	Union Drilling, Inc.	Ges	Elden E & Nancy Pratt	1	4927	Benson	833	Ground Level
4701703559	wv	Doddridge	39.3368604	-80.835761	Stonewall Gas Co., Inc.	Gas	Char Stinespring		4951	Benson	832	Ground Level
4709501223	WV	Tyler	39.3513619	-80.8485487	Stonewall Gas Co., Inc.	Gas	James Ellis Jenkins heirs	1	4954	Benson	B50	Ground Level
4709501316	wv	Tyler	39.3690542	-80.8482788	Eastern American Energy Corp.	Gas	Mary E Roberts/Mary J Kahler	3	4954	Benson	839	Ground Level
4709501335	wv	Tyler	39.5857786	-80.8537017	DAC, Inc.	Gas	Marc A Massullo et ux	1	4955	Benson	877	Ground Level
4709501224	wv	Tyler	39.361078	-80.8426739	Anvil Oil Co., Inc	Gas	Ronald Rowland	1	5010	Benson	863	Ground Level







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4709501315	WV	Tyler	39,3668793	-80,8529497	Eastern American Energy Corp.	Gas	Mary E Roberts/Mary J Kahler	2		5014	Benson	917	Ground Level
4709500992	WV	Tyler	39,3468357	-80.8420509	J & E Drilling and Development, Co.	Gas	R McKitrick Heirs & C Wagner			5014	Benson	960	Ground Level
4709501305	WV	Tyler	39.3747104	-80.8508957	Coastal Corp, The	Gas w/ Oll Show	Mildred Gregg	7		5016	Benson	830	Ground Level
4709501207	WV	Tyler	39.3349756	-80.8441638	Stonewall Gas Co., Inc.	Gas	Charter D Stinespring	- 2		5056	Benson	1007	Ground Level
4709501208	WV	Tyler	39.3623832	-80.8531347	Anvil Oil Co., Inc	Gas	David C Gregg et al	5		5068	Benson	891	Ground Level
4701702787	WV	Doddridge	39.5231243	-80.8403488	J & J Enterprises, Inc.	Gas	L Shepherd			5070	Alexander	900	Ground Level
47095007B2	WV	Tyler	39.3430745	-80.834818	J & J Enterprises, Inc.	Gas	Delmer Mulvay			5100	Alexander	750	Ground Level
4709501322	WV	Tyler	39.3647041	-80.8471578	Eastern American Energy Corp.	Gas	Mary E Roberts/Mary J Kehler	1		5127	Benson	910	Ground Level
4709501311	WV	Tyler	39,3409208	-80.8520086	Eastern American Energy Corp.	Gas	Lawrence & Thelma James	4		5130	Alexander	800	Ground Level
4709501328	WV	Tyler	39.3841827	-80.8589336	Constal Corp, The	Gas w/ Oil Show	George W & Carolyn Moore	-1-		5133	Benson	965	Ground Level
4709500830	WV	Tyler	39.3511867	-80.83758	J & J Enterprises, Inc.	Gas	Edwin D Mulvay et ux			5136	Alexander	800	Ground Level
4709501319	WV	Tyler	39.3606431	-80.8482778	Eastern American Energy Corp.	Gas	Mary E Roberts/Mary J Kahler	2		5141	Benson	993	Ground Level
4701703829	WV	Doddridge	39.3336705	-80.8393089	Stonewall Gas Co., Inc.	Gas	Charter Stinespring 3			5150	Benson	1042	Ground Level
4709501669	WV	Tyler	39.3390357	-80.8490197	DAC, Inc.	Gas	Leonard & Renie Smith	1		5175	Benson	1051	Ground Level
4709501495	WV	Tyler	39.3327536	-80.8490187	Nugent & Sons, Inc.	Gas	Marice J Carlisle/Ralph Thacker	2		5180	Alexander	807	Ground Level
4701704124	WV	Doddridge	39.3246325	-80.8467757	Key Oil Co.	Gas	Samule J Brake 2			5216	Alexander	902	Ground Level
4701702964	WV	Doddridge	39.3261573	-80.835354	J & J Enterprises, Inc.	Gas	Lonnie James			5267	Alexander	985	Ground Level
4701703018	WV	Doddridge	39.3393254	-80.8312561	J & J Enterprises, Inc.	Ges	W P McCutchen			5805	Alexander	920	Ground Level
4709501557	WV	Tyler	39.3361355	-80.8408029	Key Oil Co.	Gas w/ Oll Show	Robert E Burgess 5r	1		5521	Alexander	1020	Ground Level
4701703389	WV	Doddridge	39.3223121	-80.831994	J & J Enterprises, Inc.	Gas	Lijames			5321	Alexander	866	Ground Level
4701704161	WV	Doddridge	39,3295633	-80.836321	Key Oil Co.	Gas	Lonnie James 1			5336	Alexander	962	Ground Level
4709500820	WV	Tyler	39.5846178	-80,8634185	Triad Hunter, LLC	Gas	Kenneth Sinclair			5537	Alexander	790	Ground Level
4701704200	WV	Doddridge	39.3198462	-80.8561359	Murvin Oil Corp.	Gas.	Carl G James 1			5850	Alexander	1045	Ground Level
4701703249	WV	Doddridge	39.3349753	-80.8312541	J & J Enterprises, Inc.	Gas	W P Bush et ux			5363	Benson	963	Ground Level
4701704126	WV	Doddridge	39.3211513	-80.8439748	Key Oil Co.	Gas	Carroll Shepherd 2			5375	Alexander	1030	Ground Level
4709500925	WV	Tyler	39.3414527	-80.8439708	J & J Enterprises, Inc.	Gas	W Paul McCutchen			5428	Alexander	1025	Ground Level
4701704123	WV	Doddridge	39.5278224	-80.8411748	Key Oil Co.	Gas	Samuel J Brake 1			5436	Alexander	1078	Ground Level
4709501171	WV	Tyler	39.350347	-80.8531316	J & J Enterprises, Inc.	Gas	Mattie Dotson Flint et al			5469	Alexander	948	Ground Level
4709501310	WV	Tyler	59.5458208	-80.8482737	Eastern American Energy Corp.	Ges	Lawrence L & Thelma E James	3		5490	Alexander	1065	Ground Level
4709500831	WV	Tyler	39.3465506	-80.836001	J & J Enterprises, Inc.	Gas	Edwin D Mulvay			5512	Alexander	840	Ground Level
4709501170	WV	Tyler	39.3459969	-80.8523826	J & J Enterprises, Inc.	Gas	Lawrence L James et al			5530	Alexander	1052	Ground Level
4701704162	wv	Doddridge	39.5299975	-80.8456567	Key Oil Co.	Gas	Lonnie James Z			5532	Alexander	1170	Ground Level
4709501195	wv	Tyler	39.3583231	-80,8531336	Anvil Oil Co., Inc	Gas	Mildred Gregg et al	3		5578	Brallier	923	Ground Level
4709501086	WV	Tyler	39.3693444	-80.8572466	Kepco, Inc.	Gas	Theims Ferguson et al			5656	Rhinestreet Sh	729	Ground Level
4709500427	WV	Tyler	39.3664922	-80.8511807	Quaker State Oil Refining Co.	Dry w/ O&G Show	C D Cottrtill	1	9/17/1955	6816		957	Ground Level

API Number 47 -

Operator's Well No. SHR37iHSM

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CNX Gas Company, LLC OP Code 494458046	
Watershed (HUC 10) Headwaters Middle Island Creek Quadrangle West Union	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes Will a pit be used? Yes No V	No
If so, please describe anticipated pit waste:	
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, 34-013-2-0609)
Reuse (at API Number Pens3 and Pens21 wells API TBD	
Off Site Disposal (Supply form WW-9 for disposal location)	
Other (Explain No Pits	ACB.
The state of the s	49/20/2019
Will closed loop system be used? If so, describe: Yes	1/30/2011
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Horizontal: synthetic oil-based mud (SO	from spudizurface to curve kick-off point (KOP).
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Bactericide, Polymers, and Weighting Agents	
Per DEPGOODUGE Land a	pplication of soil
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. conductor cuttings on	y. All other cultings
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A	1000
-Landfill or offsite name/permit number? See attached.	
	A contractor of the action
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associate West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permit where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POT on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Prote provisions of the permit are enforceable by law. Violations of any term or condition of the general per law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the info application form and all attachments thereto and that, based on my inquiry of those individuals in obtaining the information, I believe that the information is true, accurate, and complete. I am aware penalties for submitting false information, including the possibility of fine or imprisonment.	ction. I understand that the mit and/or other applicable ormation submitted on this amediately responsible for
Salpacky Alt	DECEIVED GAS
Company Official Signature	RECEIVED Gas
Company Official (Typed Name) Erika Whetstone	ncT -4 2019
Company Official Title Manager - Permitting	WV Deparament of
	WV Deparamental Protect
Subscribed and swom before me this day of October , 2017	new v
Gacol C Young Notary Public	Commonwealth of Pennsylvania - Notary Sec JACOB C YOUNG - Notary Public
My commission expires 6/4/2622	Washington County My Commission Expires Jun 4, 2022 Commission Number 1333900

Operator's Well No. SHR37iHSM

Proposed Revegetation Treatm	nent: Acres Disturbed 1	5.57 Prevegetation	pH 6.5
Lime according to pH	test Tons/acre or to corre	ct to pH 7.0	
Fertilizer type 10-2	0-20	_	
Fertilizer amount 50	0	lbs/acre	
Mulch hay or stra	w @ 2	Tons/acre	
		Seed Mixtures	
Ten	nporary	Peri	manent
Seed Type Orchard Grass	lbs/acre 25	Seed Type Orchard Grass	lbs/acre 25
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15
Ladino Clover	10	Ladino Clover	10
Attach: Maps(s) of road, location, pit a	t will be land applied, inc n area.	d application (unless engineered plans include dimensions (L x W x D) of the pit, a	luding this info have been nd dimensions (L x W), a
Attach: Maps(s) of road, location, pit a provided). If water from the pi acreage, of the land application	t will be land applied, inc n area.	clude dimensions (L x W x D) of the pit, a	luding this info have been nd dimensions (L x W), a
Attach: Maps(s) of road, location, pit a provided). If water from the pi acreage, of the land application Photocopied section of involve	t will be land applied, inc n area.	clude dimensions (L x W x D) of the pit, a	luding this info have been nd dimensions (L x W), a
Attach: Maps(s) of road, location, pit a provided). If water from the piacreage, of the land application of involved the provided section of involved the provided by:	t will be land applied, inc n area.	clude dimensions (L x W x D) of the pit, a	luding this info have been nd dimensions (L x W), a
Attach: Maps(s) of road, location, pit a provided). If water from the piacreage, of the land application of involved the provided section of involved the provided by:	t will be land applied, inc n area.	clude dimensions (L x W x D) of the pit, a	luding this info have been nd dimensions (L x W), a
Attach: Maps(s) of road, location, pit a provided). If water from the piacreage, of the land application of involved the provided section of involved the provided by:	t will be land applied, inc n area.	clude dimensions (L x W x D) of the pit, a	luding this info have been nd dimensions (L x W), a
Attach: Maps(s) of road, location, pit a provided). If water from the piacreage, of the land application of involved the provided section of involved the provided by:	t will be land applied, inc n area.	clude dimensions (L x W x D) of the pit, a	luding this info have been nd dimensions (L x W), a
Attach: Maps(s) of road, location, pit a provided). If water from the piacreage, of the land application of involved the provided section of involved the provided by:	t will be land applied, inc n area.	clude dimensions (L x W x D) of the pit, a	nd dimensions (L x W), a
Attach: Maps(s) of road, location, pit a provided). If water from the piacreage, of the land application of involved the provided section of involved the provided by:	t will be land applied, incon area. ed 7.5' topographic sheet. Cogni Blanco	clude dimensions (L x W x D) of the pit, a	Office Office



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

SHR37HHSM

SHR37IHSM - 47-095-02664

SHR37KHSM

SHR37LHSM

SHR37MHSM

SHR37NHSM

SHR37OHSM (API 47-095-02588)

SHR37PHSM

SHR37QHSM

SHR37RHSM

Sincerely,

Erika Whetstone

Office of Oil and Gas

OCT - 4 2019

WV Department of Environmental Protection

Disclaimer: Vendors have been approved for the below category by ENV. UPDATED AGREEMENT with	MECH MIST BE CONFIDMEN
Discialment, vendors have been approved for the below category by ENV. UPDATED AGREEMENT with	HMSCM MUST BE CONFIRMED

Republic Services (Allied \	Vaste)		Can Smar	ific Waste	Céntaine		ARDOUS WA		-	-					
ndustrial Landfills				VD - W - 10 P	Streams			(Hiter Accepte	d Waste Stream	TES				
Landfill	Location		Drill * Cuttings	Waste	Waste Brine	Contaminated Soil (Including Petroleum)	Construction &	Industrial Waste	Sludge	Friable Astestos	Non-Friable	Process Waste	Solidification Services	Municipal	Contact Information
McLean County	Bloomington	IL.	X	X		X	X	X	X	CISOS AGO	Contraction	X	244/1463	Solid Waste	-
RC/Coles County	Charleston	IL	X	х	1	Х	X	Х	X	X	X	X		X	
Brielward Disposal	Danville	IL	х	X	-	X	X	х	X	X	X	X	_	X	1
outhern Illinois Regional	De Soto	IL						1		-	-	A		X	4
ee County	Dixon	IL	X	Х	-	X	X	X	X	X	x	х	-	X	1
Jpper Rock Island	East Moline	IL	X	Х		х	X	х	X	X	X	X		- A	
Bond County	Greensville	IL	X	Х	No.	Х	X	х	X	X	X	X	-	X	
llinois	Hoopeston	IL	X	X		X	X	X	X	X	X	X	-	X	
andComp	LaSalle	IL	X	х		X	X	X	X	X	Y	X		X	317-921-1667 or 480-627-2700
Atchfield-Hillsboro	Litchfield	IL	X	X	1	X	X	X	- X	X	Ŷ	X	-		
Invirontech	Morris	IL	X	Х		X	X	X	X	X	Ŷ	X	-	X	1-800-634-0215
Avingston	Pontiac	IL	X	х		X	X	X	Y	- ^-	x	X		- A	
Coxene	Roxana	IL	X	X		X	X	X	X	X	x	X	x	X	
anjamon Valley	Springfield	IL.	X	X	-	X	X	Y	X	Y	X	X	^	X	
lenson Valley	Frankfort	KY	Х	X		X	X	X	X	X	x	x		X	
line Ridge	Irvine	KY		X	1	X	X	X	X	X	x	X		X	
forebead	Morehead	KY	X	X		X	X	X	X	X	X	- A		X	
From Valley	Rush	KY	X	X		X	X	X	X	X	X		-	X	
Therokee Run	Bellefontaine	OH				X	X	X	X	^		X	X	X	
Villiams County	Bryan	OH				X	X	X	X	V	X	X		X	
County Environmental	Carey	OH		1		X	X	X		^	X	X		Х	
Celina	Celina	OH		- 7		X	X	X	X	-	X		-	Х	
Carbon-Limestone*	Lowellville	OH	x	X		X	x	Ŷ	X		^	X	-	Х	
Countywide Landfill**	East Sparts	OH		X		X	x	X	_^		1	X	X		Jack Palermo:
orain County	Oberlin	OH				X	X	X	X		-	- 12	-	х	work: 330-536-8013
akland Marsh	Shiloh	HO					X	X	X	X		Х		X	cell: 330-806-9660
mperial	Imperial	PA				X	X	X	X	X	X			Х	
onesto/n	Morgantown	PA				X	X	^	X	A Y		-		х	Barbara Harsanye:
Irunswick	Lawrenceville	VA				X	X	x	X	X	X	X		Х	work: 330-536-8013 x 120
Cing and Queen	Little Plymouth	VA				X	X	Ŷ	X	X	X	Х		Х	
old Dominson	Richmond	VA				X	X	X	^_	X	X	Х		х	cell: 330-423-7267
ycamore	Hurricane	WV				X	Y	- A	X	A	A	X		х	
hart Creek	Wheeling (Short Creek)	wv		Х		X	X	X	X			Х		х	
arter Valley	Church Hill	TN					^	Α		-		X		X	

office of Oil and Gas

Office of Oil and Gas

OCT - 4 2019

WV Department of Environmental Protection

Waste Management Industrial Landfills			Gas Spec	iffe Waste	Streams			-	Other Accepte	d Waste Stream	ms				
Landfill	Location		Drill * Cuttings	Waste Liners	Waste Brine	Contaminated Soil	Construction & Demolition Waste	Industrial Waste	Studge	Friable Asbestos	Non-Friable Asbestos	Process Wante	Solidification	Municipal	Contact Information
Arden Landfill	Washington	PA		X		X	X	X	X	Aguratus	Assestos	X	Services	Solid Waste	
South Hills (Arnoni)	South Park	PA		X			X	X	X			X	X	X	
Celly Run Valley Landfill	Elizabeth	PA		X		X	Х	Х	Х			X	X	X	4
	Irwin	PA		X		X	X	X	X	X	X	X	x	X	
Vergreen Landfill Charleston Landfill	Blairsville	PA	Х	X		X	X	Х					^	X	
	Charleston	WV	x	X		X	x	х					_		Scott Allen: 412-604-2256
Kanawha County)	1011	and the same of	177					Α.	x		1	x		x	U.C. Transfer Co. Co.
orthwestern Landfill	Bridgeport Parketsburg	WV		х		X	X	Х	Х	X	X	X	X	х	
&S Grading Landfill	Clarksburg	WV.		X		X	X	X	Х			X	X	X	1
merican Landfill	Wasnesburn			Х	-	X	X	X	X			X		X	
uburban RDF	Glenford	OH		X	-	X	X	X	Х	X	X	X	X	X	
oshocton Landfill***	Coshocton	OH		X		X	X	X	Х	X	X	Х	X		Patty Landolt: 262-532-8001
daboreng Landfill	New Springfield	OH		A	-	X	X	X					-	х	John Miller: 1-800-963-4776
Applicants (Canada)	This stemmasin	TOR!	\triangle	^_		X	X	X			X	X	1	X	30mi (4mici, 1-000-303-4770
		_													
dditional Landfills			Gas Spec	lfic Waste	Streams			(Other Accepte	d Waste Stress	us				
Landfill	Location		Drill* Cuttings	Waste	Waste Brine	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Studge	Friable Asbestos	Non-Friable	Process	Solidification	Municipal	Contact Information
Vestmoreland Waste	111 Conner Lane,	PA	x	х		х	х	X			Asbestos	Waste	Services	Solld Waste	Mike Home: 412-552-4427
WWLC Group)	Belle Vernon, PA 15012				L	^	Α.	X	х	x	X		X	X	
AX Environmental	200 Max Drive,	PA	x	х				rain a					-		Mark Thomas: 724-929-7694
Bulger Facility	Bulger PA 15010	LA.	^			X	х	Х	X				X	X	C-10-1 445 545 445
AX Environmental	233 MAX Lane	PA	X	x		х	4		100				-		Carl Spadaro: 412-343-4900
Yukon Facility)	Yuken, PA 15698	1			in a	Α	X	х	X	_			X	х	cell: 412-445-9789
apex Sanitary landfill	11 County Road 78	OH	x	x							1	_			
Apex Environmental)	Amsterdam, Ohio 43903	Ola	^	^		х	X	х	X				X		Joe Teterick: 740-275-2887
tumpke, Mt. Sterling	30 Larison Rd,	KY	X	-	(7.							oet/a els-company.com
Rumpke Consolidated	Jeffersonville, KY 40337	KY	A	X	9	X	х	X		X	x			x	Carl Walter: 513-623-2471
aurel Ridge Landfill	3612 B State Highway	1		2.00							-				
Waste Connections of KY)	552 Tily, KY 40740	KY	X	х	1	х	X	X		х	x	x		x	Bruce Crouch: Work: 606-864-7996
	Chestnut Valloy													^	Cell: 606-219-0261
	1184 McClellandtown			-0.1											
	Rd, McClellandtown, PA	PA	X	X		x	X	x	х	43					
	15458			100			222			- 4			1	x	
	13436	-								1					450.500.00
Advanced Disposal	Greentree Landfill; 635		77												Tony Labenne
rioranceo Disposes	Toby Rd.; Kersey, PA	PA	X	X		x	x	x	x	-			1	42	6184 Route 219, Brockway, PA 1582
	. sof Man, Melbey, FA										1			X	814-590-9906
	Mostoller Landfill; 7035				-			-							
	Glades Pike Rd.;	PA	x	х		x	x	x	x						

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. 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.

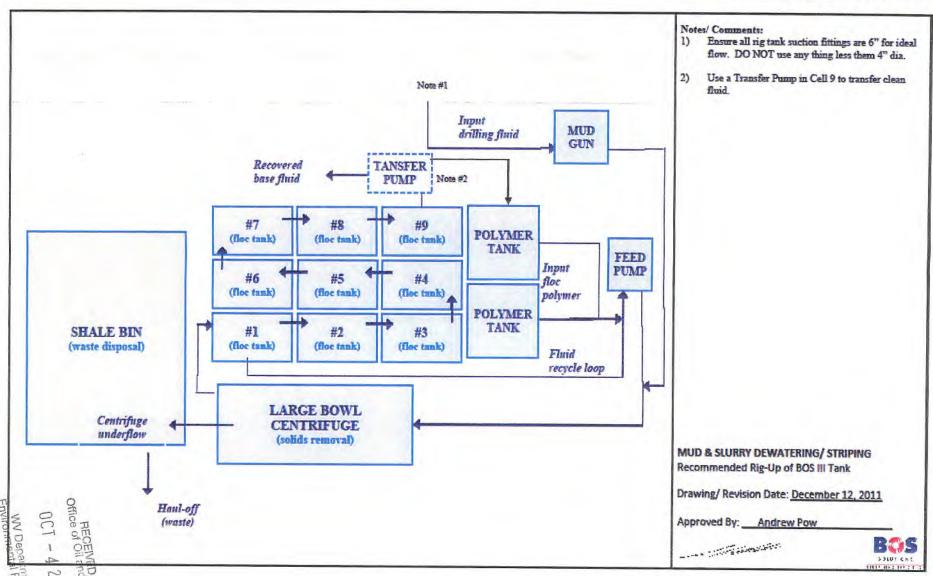
Notes:

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

WV Department of Environmental Protection RECEIVED Gas OCT - 4 2019

FLOW CHART MUD AND SLURRY DEWATERING RECOMMENDED RIG UP





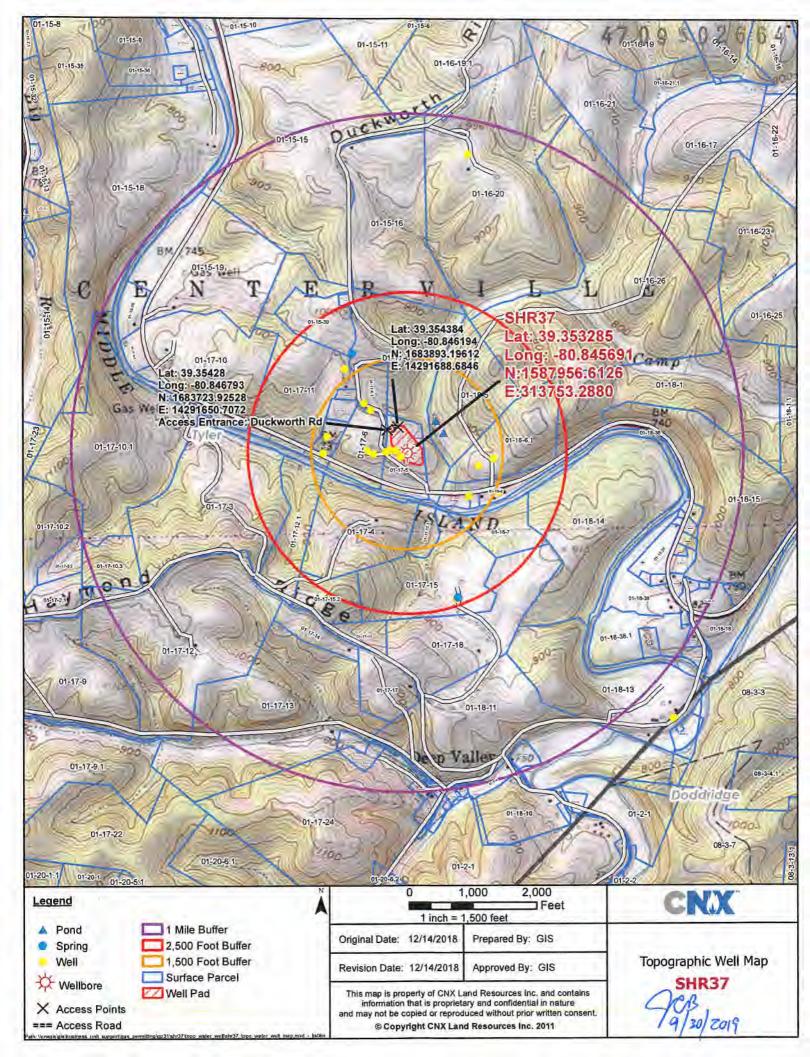


Site Safety Plan for Well SHR37IHSM **CNX Gas Company, LLC.**



OCT - 4 2019

JCB 9/30/19



SEE E

2. 2.

located located

99

topo

map

6,591 f

feet

west

으

Longitude: Longitude:

80.50

18

.mmmmmm,

BHL is located on top SHL is located on top

BHL is located on topo map 8,336 feet south of Latitude: 39 25 00 SHL is located on topo map 7,908 feet south of Latitude: 39 22 30

EE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

SEE PAGE 3 FOR SURFACE OWNERS AND LESSORS

SURFACE HOLE LOCATION (SHL)

UTM 17—NADB3
N:4355993.93
E:513310.94
NADB3, WY NORTH
N:313640.103
E:1588038.866
LAT/LON DATUM—NADB3
LAT:39'21'11.838"
LON:80'50'43.829"

APPROX. LANDING POINT

UTM 17—NADB3
N:4356254.54
E:513880.05
NADB3, WY NORTH
N:314464.140
E:1589920.686
LAT/LON DATUM—NADB3
LAT:39'21'20.259"
LON:80'50'20.031"

BOTTOM HOLE LOCATION (BHL)

UTM 17-NADB3
N:4360486.16
E:512343.53
NADB3, WY NORTH
N:328434.443
E:1585110.320
LAT/LON DATUM-NADB3
LAT:39'23'37.612"
LON:80'51'23.953"





THRASHER

CIVIL* ENVIRONMENTAL* CONSULTING* FIELD SERVICES 800 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 28330 PHONE (304) 624-4105*FAX (304) 624-7831

			- OF - 11.
FILE#: SHR 37 IHSM	I,THE UND	ERSIGNED, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AT SALL THE INFORMATION REQUIRED ULATIONS ISSUED AND PRESCRIBED OF ENVIRONMENTAL PROTECTION.	HIS WILLIAM CENSES THE
DRAWING #: SHR 37 IHSM	BELIEF AND SHOWS	S ALL THE INFORMATION REQUIRED	BY No. 2000
SCALE: 1" = 2000'	THE DEPARTMENT	ULATIONS ISSUED AND PRESCRIBED OF ENVIRONMENTAL PROTECTION.	STATE OF
MINIMUM DEGREE OF ACCURACY: 1/2500	Signed:	eorge Dije	STATE OF VIRGINIA
PROVEN SOURCE U.S.G.S. MONUM THOMAS 1498	MENT R.P.E.:	L.L.S.: P.S. No. 200	00 PLACE SEAL HERE
(+) DENOTES LOCATION OF WELI UNITED STATES TOPOGRAPHIC N	WINIFE	DATE: SEPTEMB	ER 20, 2019
WVDEP OFFICE OF OIL & GAS	E in	OPERATOR'S WELL#	: SHR 37 IHSM
601 57TH STREET		API WELL #: 47	95 02664
CHARLESTON, WV 25304	The De Constituti	STATE	COUNTY PERMIT
Well Type: Oil Waste Dispo	osal X Production	Deep	77711
☐ Gas ☐ Liquid Injec	tion Storage	X Shallow	
WATERSHED: HEADWATERS MIDDLE	ISLAND CREEK	ELEVATION:	828.57'±
COUNTY/DISTRICT: TYLER	/ CENTERVILLE	QUADRANGLE: WES	T UNION, W 7.5'
SURFACE OWNER: CNX GA	S COMPANY	ACREA	GE: 18±
OIL & GAS ROYALTY OWNER: EL	EANOR V. & DEAN A. EARNHEAR	RT, ET AL ACREA	GE: 1058.068±
		L DEEPER REDRILL FRA	A Company of the Comp
PLUG OF	FF OLD FORMATION	PERFORATE NEW FORMATION [☐ PLUG & ABANDON ☐
CLEAN	OUT & REPLUG 🗌 OTHE	ER CHANGE (SPECIFY):	
TARGET FORMATION:	MARCELLUS	ESTIMATED DEPTH:T	/D: 6,302'± TMD: 22,000'±
WELL OPERATOR CNX GAS C			
Address 1000 CONSOL ENERGY DRIV	/E	Address 1000 CONSOL ENERGY	
City CANUNSBURG State	PA Zip Code 1551/	City CANONSBURG Sta	te PA Zip Code 1551/

4709502664 REFERENCE DETAIL SHR 37 IHSM PAGE 2 OF 3 WELL SHR 37 IHSM NOTES er wells or developed springs within 250' of proposed There is an existing house and buildings within 625 of proposed There are no native trout streams within 300' of propose Proposed well is greater than 1000' from surface/ground ROSS RUN ROL SURFACE HOLE LOCATION (SHL) intake or public water supply.
It is not the purpose or intention of this plat to repre ROSS RUN RD It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted heroon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless UTM 17-NAD83 N:4355993.93 E:513310.94 NAD83, WY NORTH N:313640.103 E:1588038.866 LAT/LON DATUM-NAD83 LAT:39'21'11.838" LON:80'50'43.829" ROSS RUN RD -500 APPROX. LANDING POINT UTM 17-NAD83 N:4356254.54 E:513880.05 NAD83, WV NORTH N:314464.140 E:1589920.686 9501266 LAT/LON DATUM-NAD83 LAT:39°21'20.259" LON:80°50'20.031" 9501238 BOTTOM HOLE LOCATION (BHL) 9501227 UTM 17-NAD83 N:4360486.16 E:512343.53 NAD83. WY NORTH N:328434.443 E:1585110.320 9501305 LITTLE CAMP MISTAKE RUN RD 9501226 95000977 Ø 9501486 LAT/LON DATUM-NAD83 LAT:39'23'37.612" LON:80'51'23.953" 9502245 9501234 9501237 950 316 9500289 9501254 BEARING S 40'46'04" W N 12'06'23" W N 23'15'18" E S 45'10'33" W 9500876 9501318 9501322 9501208 950131 9501319 -DUCKWORTH RIDGE R 9500300 18 AMP MISTAKE RUN 9501195 9501107 9501204 9501 08 -APPROXIMATE LANDING POINT OF HORIZONTAL LEG 9501200 9501150 9500842 9500498 9501036 9500956 LEGEND 9501223 9500830 9501171 WELL. B - TOPO WAP POINT 9500492 SHR37IHSM 9500280 - WELL 华 \$9500267 ALL ARE POINTS UNLESS OTHERWISE NOTED. 0 9500037 - LEASE NUMBER - MINERAL TRACT BOUNDARY Ø9500292 - PARCEL LINES - LEASE BOUNDARY No. 2000
STATE OF VIRGINIA WELL REFERENCE PROPOSED HORIZONTAL WELL - ROAD - STREAM CENTER LINE
GAS WELLS - EXISTING WELLS - PLUGGED WELLS - ABANDON WELLS API WELL #: 47 02664 STATE COUNTY PERMIT **SEPTEMBER 20, 2019** Beorge Dis CIVIL* ENVIRONMENTAL* CONSULTING* FIELD SERVIC 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 263 PHONE (304) 624-4108* FAX (304) 624-7831

SHR 37 IHSM PAGE 3 OF 3

1	SURFACE OWNER CNX GAS COMPANY	LESSOR ELEANOR V. EARNHEART AND DEAN A. EARNHEART, W/H	DIST-TM/PAR
		CLELLA BOICE, WIDOW	1-11/5
		LUELLA I. MCCONNELL, WIDOW	
	19	AGNESS GODWIN, WIDOW NANCY P. MCCLAIN AND RALPH E. MCCLAIN, W/H	
		GEORGIA P. SNYDER, DIVORCED	
		BRADIE PIPES AND GOLDIE PIPES, H/W	j
		PURSIE PIPES AND NORMA J. PIPES, H/W	
		DOROTHY BELLE WELLS AND BYRON WELLS, W/H	
12	GAIL WILLIAMSON	MYRNA MORGAN AND DAVID MORGAN, W/H ELEANOR V. EARNHEART AND DEAN A. EARNHEART, W/H	P/0 1-17/6
12	GAIL WILLIAMSON	CLELLA BOICE, WIDOW	170 1-1770
		LUELLA I. MCCONNELL, WIDOW	
		AGNES GODWIN, WIDOW	
		NANCY P. MCCLAIN AND RALPH E. MCCLAIN, W/H GEORGIA P. SNYDER, DIVORCED	
		BRADIE PIPES AND GOLDIE PIPES, H/W	
	119	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	
13	DANNY CARL & PATRICIA J. HARRIS	ELEANOR V. EARNHEART AND DEAN A. EARNHEART, W/H	1-18/5
, -	STATE STATE OF THE	CLELLA BOICE, WIDOW	, ,,,,,
		LUELLA I. MCCONNELL, WIDOW	
		AGNES GODWIN, WIDOW	
		NANCY P. MCCLAIN AND RALPH E. MCCLAIN, W/H GEORGIA P. SNYDER. DIVORCED	
		BRADIE PIPES AND GOLDIE PIPES, H/W	
		PURSIE PIPES AND NORMA J. PIPES, H/W	
		DOROTHY BELLE WELLS AND BYRON WELLS, W/H	
14	DANNY & PATRICIA J. HARRIS	MYRNA MORGAN AND DAVID MORGAN, W/H ELEANOR V. EARNHEART AND DEAN A. EARNHEART, W/H	1-18/61
1.7	DANTE & FAIRIUM V. IMBRIG	CLELLA BOICE, WIDOW	10/0.1
		LUELLA I. MCCONNELL, WIDOW	V.
		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	
10	D. DALBIL THICKED A. CARLING I. MAUDIOF ID	MYRNA MORGAN AND DAVID MORGAN, W/H	D/0 1 10/00
16	D. RALPH THACKER & CARLISE J. MAURICE JR.	CHARLES W. HENDERSON AND DOROTHY M. HENDERSON, H/W CHARLES W. HENDERSON, POWER OF ATTORNEY	P/U 1-10/20
		FOR THE A. I. DOAK HEIRS	
		JOHN A. CONKLIN AND JEAN CONKLIN, H/W	
		GEORGE B. CONKLIN AND BETTY M. CONKLIN, H/W	
		BETTY L. CONKLIN ROBERT LEE REED	
	10	LEWIS H. REED AND CAROL J. REED, H/W	
		KATHY PRANGER	
		VIRGINIA O'REAR AND RALPH O'REAR, W/H	
		ROBERT H. MELVIN	
		BETTY L. MELVIN MARY S. LARTZ AND WILLIAM LARTZ, W/H	
		LILLIAN CRABILL AND WILLIAM CRABILL, W/H	
		MELISSA COLL	
		ROBERT BARTHOLOMEW AND BARBARA BARTHOLOMEW, H/W	
		PHILLIP L. MELVIN JOANNE GREENMAN AND GERALD GREENMAN, H/W	
19	RONALD R. & REVA D. ROWLAND	JACOB L DILLON AND EDNA DILLON, H/W	1-16/20
	JAMES E. ASH	GAIL V. DAVISSON	P/0 1-16/19.
	100	ROSEMARY EAGLE	
		ELEANOR L. ROTH, ATTORNEY-IN-FACT FOR THE	D.
		I D AND PITTH FOLEY HEIDS	
22	JAMES ROBERT BAGLEY	J. D. AND RUTH FOLEY HEIRS JACOB C. COTTRILL. ATTORNEY-IN-FACT	1-15/15
22	JAMES ROBERT BAGLEY	J. D. AND RUTH FOLEY HEIRS JACOB C. COTTRILL, ATTORNEY—IN—FACT FOR CHARLES D. COTTRILL HEIRS;	1-15/15
		JACOB C. COTTRILL, ATTORNEY—IN—FACT FOR CHARLES D. COTTRILL HEIRS; JACOB C. COTTRILL AND SHIRLEY A. COTTRILL, H/W	
22	SANDRA SUE CLARK & CLARENCE DUANE &	JACOB C. COTTRILL, ATTORNEY-IN-FACT FOR CHARLES D. COTTRILL HEIRS;	1-15/15 P/0 1-15/11
36	SANDRA SUE CLARK & CLARENCE DUANE & JEFFREY GREGG CLARK & KEVIN SCOTT	JACOB C. COTTRILL, ATTORNEY—IN—FACT FOR CHARLES D. COTTRILL HEIRS; JACOB C. COTTRILL AND SHIRLEY A. COTTRILL, H/W MILDRED GREGG	P/0 1-15/11
	SANDRA SUE CLARK & CLARENCE DUANE &	JACOB C. COTTRILL, ATTORNEY—IN—FACT FOR CHARLES D. COTTRILL HEIRS; JACOB C. COTTRILL AND SHIRLEY A. COTTRILL, H/W MILDRED GREGG	
36	SANDRA SUE CLARK & CLARENCE DUANE & JEFFREY GREGG CLARK & KEVIN SCOTT	Jacob C. Cottrill, attorney—in—fact for charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, H/W Mildred Gregg Clarence Duane Clark and Sandra sue Clark, H/W Jeffrey G. Clark, Single Keyn S. Clark, Single	P/0 1-15/11
36	SANDRA SUE CLARK & CLARENCE DUANE & JEFFREY GREGG CLARK & KEVIN SCOTT	Jacob C. Cottrill, attorney—in—fact for charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, H/W Mildred Gregg Clarence Duane Clark and Sandra sue Clark, H/W Jeffrey G. Clark, Single Kevin S. Clark, Single John Baker, Indmidually and as attorney—in—fact	P/0 1-15/11
36 38	SANDRA SUE CLARK & CLARENCE DUANE & JEFFREY GREGG CLARK & KEVIN SCOTT DUANE CLARK, ET AL C/O DUANE & SUE CLARK	Jacob C. Cottrill, attorney—in—fact for charles d. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, H/W Mildred Gregg Glarence Duane Clark and Sandra sue Clark, H/W Jeffrey G. Clark, Single Keyin S. Clark, Single John Baker, Indmidually and as attorney—in—fact for the "Gorrell Doak Heirs"	P/0 1-15/11 1-15/6
36	SANDRA SUE CLARK & CLARENCE DUANE & JEFFREY GREGG CLARK & KEVIN SCOTT	Jacob C. Cottrill, attorney—in—fact for charles d. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, H/W MIDRED GREGG CLARENCE DUANE CLARK AND SANDRA SUE CLARK, H/W JEFFREY G. CLARK, SINGLE KEVIN S. CLARK, SINGLE JOHN BAKER, INDMDUALLY AND AS ATTORNEY—IN—FACT FOR THE "GORRELL DOAK HEIRS" ORA NELSON MOORE AND MARY EDNA MOORE, H/W	P/0 1-15/11 1-15/6
36 38	SANDRA SUE CLARK & CLARENCE DUANE & JEFFREY GREGG CLARK & KEVIN SCOTT DUANE CLARK, ET AL C/O DUANE & SUE CLARK	Jacob C. Cottrill, attorney—in—fact for charles d. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, H/W Mildred Gregg Glarence Duane Clark and Sandra sue Clark, H/W Jeffrey G. Clark, Single Keyin S. Clark, Single John Baker, Indmidually and as attorney—in—fact for the "Gorrell Doak Heirs"	P/0 1-15/11 1-15/6
36 38 39	SANDRA SUE CLARK & CLARENCE DUANE & JEFFREY GREGG CLARK & KEVIN SCOTT DUANE CLARK, ET AL C/O DUANE & SUE CLARK DUANE CLARK, ET AL C/O DUANE & SUE CLARK	JACOB C. COTTRILL, ATTORNEY-IN-FACT FOR CHARLES D. COTTRILL HEIRS; JACOB C. COTTRILL AND SHIRLEY A. COTTRILL, H/W MILDRED GREGG CLARENCE DUANE CLARK, AND SANDRA SUE CLARK, H/W JEFFREY G. CLARK, SINGLE KEVIN S. CLARK, SINGLE JOHN BAKER, INDMUDUALLY AND AS ATTORNEY-IN-FACT FOR THE "GORRELL DOAK HEIRS" ORA NELSON MOORE AND MARY EDNA MOORE, H/W OLETHA MOORE, WIDOW ROSEMARY EAGLE BRC APPLACHIAN MINERALS I, LLC	P/O 1-15/11 1-15/6 P/O 1-15/6.1
36 38 39 40 61	SANDRA SUE CLARK & CLARENCE DUANE & JEFFREY GREGG CLARK & KEVIN SCOTT DUANE CLARK, ET AL C/O DUANE & SUE CLARK DUANE CLARK, ET AL C/O DUANE & SUE CLARK DAVID & MARY ANN PRESTON (LIFE ESTATE)	JACOB C. COTTRILL, ATTORNEY—IN—FACT FOR CHARLES D. COTTRILL HEIRS; JACOB C. COTTRILL AND SHIRLEY A. COTTRILL, H/W MILDRED GREGG CLARENCE DUANE CLARK AND SANDRA SUE CLARK, H/W JEFFREY G. CLARK, SINGLE KEVIN S. CLARK, SINGLE JOHN BAKER, INDIDIVALLY AND AS ATTORNEY—IN—FACT FOR THE "GORRELL DOAK HEIRS" ORA NELSON MOORE AND MARY EDNA MOORE, H/W OLETHA MOORE, WIDOW ROSEDMARY EAGLE BRC APPALACHIAN MINERALS I, LLC JAMES R. ASH AND FRANCIS M. ASH, H/W	P/O 1-15/11 1-15/6 P/O 1-15/6.1
36 38 39	SANDRA SUE CLARK & CLARENCE DUANE & JEFFREY GREGG CLARK & KEVIN SCOTT DUANE CLARK, ET AL C/O DUANE & SUE CLARK DUANE CLARK, ET AL C/O DUANE & SUE CLARK DAVID & MARY ANN PRESTON (LIFE ESTATE) RYAN J. & SUSAN J. LIND	JACOB C. COTTRILL, ATTORNEY—IN—FACT FOR CHARLES D. COTTRILL HEIRS; JACOB C. COTTRILL AND SHIRLEY A. COTTRILL, H/W MILDRED GREGG CLARENCE DUANE CLARK, SINGLE JEFFREY G. CLARK, SINGLE KEWIN S. CLARK, SINGLE JOHN BAKER, INDMIDUALLY AND AS ATTORNEY—IN—FACT FOR THE "GORRELL DOAK HEIRS". ORA NELSON MOORE AND MARY EDNA MOORE, H/W OLETHA MOORE, WIDOW ROSEMARY EAGLE BRC APPALACHIAN MINERALS I, LLC JAMES R. ASH AND FRANCIS M. ASH, H/W ORA NELSON MOORE AND MARY EDNA MOORE, H/W, ORA NELSON MOORE AND MARY EDNA MOORE, H/W,	P/0 1-15/11 1-15/6 P/0 1-15/6.1 P/0 1-15/4 1-12/23 &
36 38 39 40 61	SANDRA SUE CLARK & CLARENCE DUANE & JEFFREY GREGG CLARK & KEVIN SCOTT DUANE CLARK, ET AL C/O DUANE & SUE CLARK DUANE CLARK, ET AL C/O DUANE & SUE CLARK DAVID & MARY ANN PRESTON (LIFE ESTATE)	JACOB C. COTTRILL, ATTORNEY—IN—FACT FOR CHARLES D. COTTRILL HEIRS; JACOB C. COTTRILL AND SHIRLEY A. COTTRILL, H/W MILDRED GREGG CLARENCE DUANE CLARK AND SANDRA SUE CLARK, H/W JEFFREY G. CLARK, SINGLE KEVIN S. CLARK, SINGLE JOHN BAKER, INDMIDUALLY AND AS ATTORNEY—IN—FACT FOR THE "OORRELL DOAK HEIRS" ORA NELSON MOORE AND MARY EDNA MOORE, H/W OLETHA MOORE, WIDOW ROSEDMATY EAGLE BRC APPALACHAN MINERALS I, LLC JAMES R. ASH AND FRANCIS M. ASH, H/W ORA NELSON MOORE AND MARY EDNA MOORE, H/W, AND OLETHA MOORE, WIDOW	P/O 1-15/11 1-15/6 P/O 1-15/6.1
36 38 39 40 61	SANDRA SUE CLARK & CLARENCE DUANE & JEFFREY GREGG CLARK & KEVIN SCOTT DUANE CLARK, ET AL C/O DUANE & SUE CLARK DUANE CLARK, ET AL C/O DUANE & SUE CLARK DAVID & MARY ANN PRESTON (LIFE ESTATE) RYAN J. & SUSAN J. LIND	JACOB C. COTTRILL, ATTORNEY—IN—FACT FOR CHARLES D. COTTRILL HEIRS; JACOB C. COTTRILL AND SHIRLEY A. COTTRILL, H/W MILDRED GREGG CLARENCE DUANE CLARK, SINGLE JEFFREY G. CLARK, SINGLE KEWIN S. CLARK, SINGLE JOHN BAKER, INDMIDUALLY AND AS ATTORNEY—IN—FACT FOR THE "GORRELL DOAK HEIRS". ORA NELSON MOORE AND MARY EDNA MOORE, H/W OLETHA MOORE, WIDOW ROSEMARY EAGLE BRC APPALACHIAN MINERALS I, LLC JAMES R. ASH AND FRANCIS M. ASH, H/W ORA NELSON MOORE AND MARY EDNA MOORE, H/W, ORA NELSON MOORE AND MARY EDNA MOORE, H/W,	P/0 1–15/11 1–15/6 P/0 1–15/6.1 P/0 1–15/4 1–12/23 &
36 38 39 40 61 63	SANDRA SUE CLARK & CLARENCE DUANE & JEFFREY GREGG CLARK & KEVIN SCOTT DUANE CLARK, ET AL C/O DUANE & SUE CLARK DUANE CLARK, ET AL C/O DUANE & SUE CLARK DUANE CLARK, ET AL C/O DUANE & SUE CLARK DAVID & MARY ANN PRESTON (LIFE ESTATE) RYAN J. & SUSAN J. LIND GENEVA (DENNISON) BULLMAN LIFE	JACOB C. COTTRILL, ATTORNEY—IN—FACT FOR CHARLES D. COTTRILL HEIRS; JACOB C. COTTRILL AND SHIRLEY A. COTTRILL, H/W MILDRED GREGG CLARENCE DUANE CLARK AND SANDRA SUE CLARK, H/W JEFFREY G. CLARK, SINGLE KEVIN S. CLARK, SINGLE JOHN BAKER, INDIVIDUALLY AND AS ATTORNEY—IN—FACT FOR THE "ORRELL DOAK HEIRS" ORA NELSON MOORE AND MARY EDNA MOORE, H/W OLETHA MOORE, WIDOW ROSEMARY EAGLE BRC APPALACHAN MINERALS I, LLC JAMES R. ASH AND FRANCIS M. ASH, H/W ORA NELSON MOORE AND MARY EDNA MOORE, H/W, AND OLETHA MOORE, WIDOW ROSEMARY EAGLE BILLY KENNETH FOUTS AND MARYANNE B. FOUTS, H/W ERWIN LAWRENCE FOUTS	P/0 1-15/61 P/0 1-15/6.1 P/0 1-15/6.1 P/0 1-15/4 1-12/23 & 1-12/23.1
36 38 39 40 61 63	SANDRA SUE CLARK & CLARENCE DUANE & JEFFREY GREGG CLARK & KEVIN SCOTT DUANE CLARK, ET AL C/O DUANE & SUE CLARK DUANE CLARK, ET AL C/O DUANE & SUE CLARK DUANE CLARK, ET AL C/O DUANE & SUE CLARK DAVID & MARY ANN PRESTON (LIFE ESTATE) RYAN J. & SUSAN J. LIND GENEVA (DENNISON) BULLMAN LIFE	Jacob C. Cottrill, attorney—in—fact for charles d. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, H/W MILDRED GREGG CLARENCE DUANE CLARK AND SANDRA SUE CLARK, H/W JEFFREY G. CLARK, SINGLE KEVIN S. CLARK, SINGLE KEVIN S. CLARK, SINGLE JOHN BAKER, INDIDIVALLY AND AS ATTORNEY—IN—FACT FOR THE "GORRELL DOAK HEIRS" ORA NELSON MOORE AND MARY EDNA MOORE, H/W OLETHA MOORE, WIDOW ROSEMARY EAGLE BRC APPALACHAN MINERALS I, LLC JAMES R. ASH AND FRANCIS M. ASH, H/W ORA NELSON MOORE AND MARY EDNA MOORE, H/W, AND OLETHA MOORE, WIDOW ROSEMARY FAGLE BILLY KENNETH FOUTS AND MARIANNE B. FOUTS, H/W	P/0 1-15/61 P/0 1-15/6.1 P/0 1-15/6.1 P/0 1-15/4 1-12/23 & 1-12/23.1

API WELL#: 47

STATE COUNTY



SEPTEMBER 20, 2019



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:4355993.93 E:513310.94 E.513510.3 NAD83, WV NORTH N:313640.103 E:1588038.866 LAT/LON DATUM-NAD83 LAT:39'21'11.838" LON:80'50'43.829"

APPROX. LANDING POINT APROX. IANDING PUIN UTM. 17—NAD8.3 N:4356254.54 E:513880.05 NAD83. W. NORTH N:314464.140 E:158920.686 LAT/LON. DATUM—NAD83 LATI:39"21"20.259" LON:80"50"20.031" BOTTOM HOLE LOCATION (BHL) UTM 17-NAD83 N:4360486.16 E:512343.53 E:312343.3, WV NORTH N:328434.4443 E:1585110.320 LAT/LON DATUM-NAD83 LAT:39°23'37.612" LON:80°51'23.953"





SEE SEE

2.0

located

99

topo

6,591 f

_feet

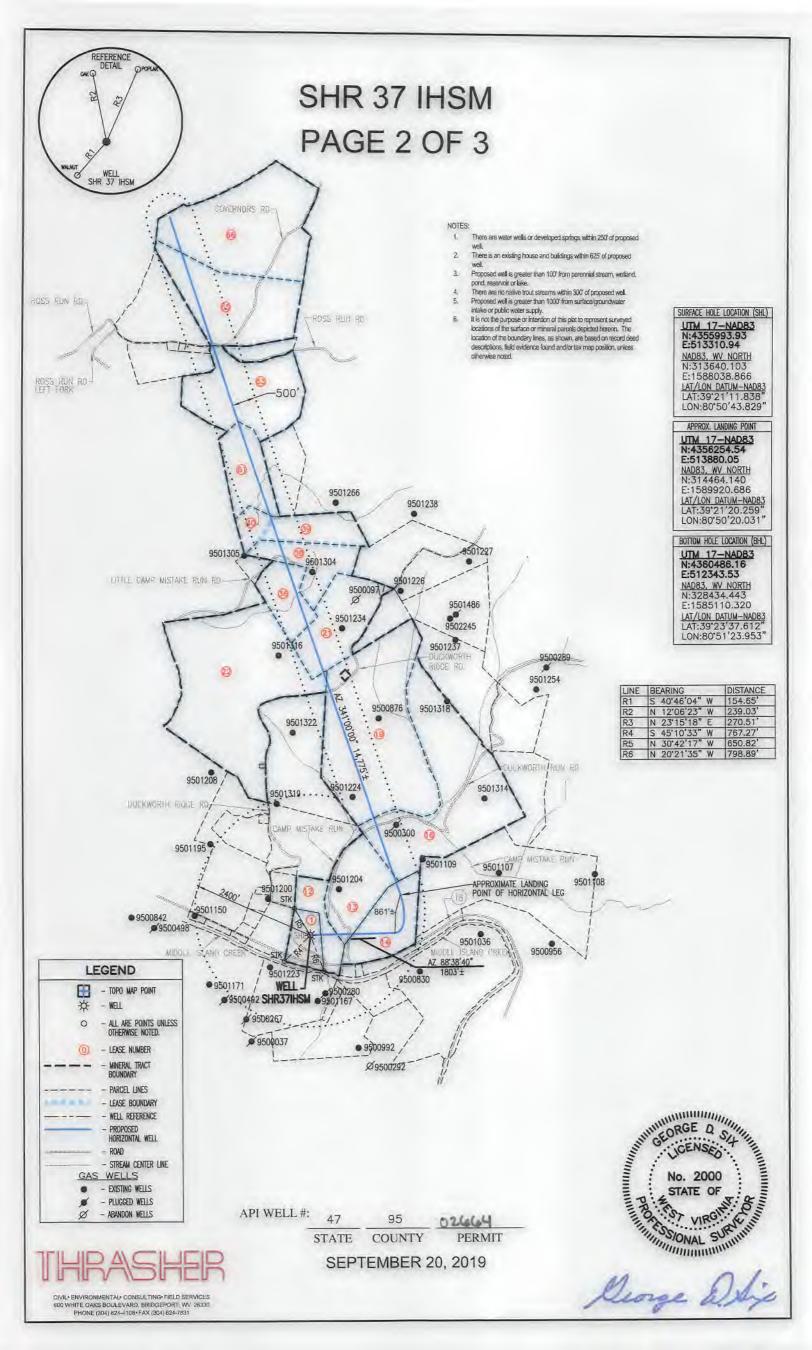
west

9,9

Longitude: Longitude:

80 50 88

600 WHITE DAKS BOULEVARD, BRIDGEPOAT, WV 26330 PHONE (304) 624-4108-FAX (304) 624-7831			minimum,
FILE #: SHR 37 IHSM DRAWING #: SHR 37 IHSM SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'	I,THE UNDE PLAT IS CORRECT TO BELIEF AND SHOWS LAW AND THE REGU THE DEPARTMENT OF Signed: R.P.E.:	RSIGNED, HEREBY CERTIFY THAT THIS THE BEST OF MY KNOWLEDGE AND ALL THE INFORMATION REQUIRED BY LIATIONS ISSUED AND PRESCRIBED BY OF ENVIRONMENTAL PROTECTION. L.L.S.: P.S. No. 2000	No. 2000 STATE OF ONE OF THE O
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304 Well Type: Oil Waste Disposal	TA	DATE: SEPTEMBER OPERATOR'S WELL #: API WELL #: 47 STATE C STATE C	20, 2019 SHR 37 IHSM
WATERSHED: HEADWATERS MIDDLE ISLAND	CREEK	ELEVATION:	828.57'±
COUNTY/DISTRICT: TYLER / CEN			
SURFACE OWNER: CNX GAS COM		ACREAGE	
PLUG OFF OL CLEAN OUT &	DNVERT DRILL D FORMATION D REPLUG DOTHE	DEEPER REDRILL FRACTI PERFORATE NEW FORMATION RCHANGE (SPECIFY):	PLUG & ABANDON
TARGET FORMATION:			
WELL OPERATOR CONTOL ENERGY DRIVE	IY LLC	DESIGNATED AGENT ANTHO Address 1000 CONSOL ENERGY DRI	NY KENDZIORA VE
Address 1000 CONSOL ENERGY DRIVE City CANONSBURG State PA	Zip Code 15317	The state of the s	PA Zip Code <u>15317</u>



SHR 37 IHSM PAGE 3 OF 3

1	SURFACE OWNER CNX GAS COMPANY	LESSOR ELEANOR V. EARNHEART AND DEAN A. EARNHEART, W/H	DIST-TM/PAR
		CLELLA BOICE, WIDOW	1=1/2
		LUELLA I. MCCONNELL, WIDOW AGNESS 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	
12	GAIL WILLIAMSON	ELEANOR V. EARNHEART AND DEAN A. EARNHEART, W/H	P/0 1-17/6
		CLELLA BOICE, WIDOW	
		LUELLA I. MCCONNELL, WIDOW AGNES GODWIN, WIDOW	
		NANCY P. MCCLAIN AND RALPH E. MCCLAIN, W/H	
		GEORGIA P. SNYDER, DIVORCED BRADIE PIPES AND GOLDIE PIPES, H/W	
		PURSIE PIPES AND NORMA J. PIPES, H/W	
		DOROTHY BELLE WELLS AND BYRON WELLS, W/H MYRNA MORGAN AND DAVID MORGAN, W/H	
		REVA ROWLAND AND RONALD ROYCE ROWLAND	
13	DANNY CARL & PATRICIA J. HARRIS	ELEANOR V. EARNHEART AND DEAN A. EARNHEART, W/H	1-18/5
		CLELLA BOICE, WIDOW LUELLA I. MCCONNELL, WIDOW	
		AGNES GODWIN, WIDOW	
		NANCY P. MCCLAIN AND RALPH E. MCCLAIN, W/H GEORGIA P. SNYDER, DIVORCED	
		BRADIE PIPES AND GOLDIE PIPES, H/W	
		PURSIE PIPES AND NORMA J. PIPES, H/W	
		DOROTHY BELLE WELLS AND BYRON WELLS, W/H MYRNA MORGAN AND DAVID MORGAN, W/H	
14	DANNY & PATRICIA J. HARRIS	ELEANOR V. EARNHEART AND DEAN A. EARNHEART, W/H	1-18/6.1
		CLELLA BOICE, WIDOW LUELLA I. MCCONNELL, WIDOW	
		AGNES GODWIN, WIDOW	
		NANCY P. MCCLAIN AND RALPH E. MCCLAIN, W/H GEORGIA P. SNYDER, DIVORCED	
		BRADIE PIPES AND GOLDIE PIPES, H/W	
		PURSIE PIPES AND NORMA J. PIPES, H/W	
		DOROTHY BELLE WELLS AND BYRON WELLS, W/H MYRNA MORGAN AND DAVID MORGAN, W/H	
16	D. RALPH THACKER & CARLISE J. MAURICE JR.	CHARLES W. HENDERSON AND DOROTHY M. HENDERSON, H/W CHARLES W. HENDERSON, POWER OF ATTORNEY	P/0 1-16/26
		JOHN A. CONKLIN AND JEAN CONKLIN, H/W	
		GEORGE B. CONKLIN AND BETTY M. CONKLIN, H/W	
		ROBERT LEE REED	
		LEWIS H. REED AND CAROL J. REED, H/W	
		KATHY PRANGER VIRGINIA O'REAR AND RALPH O'REAR, W/H	
		ROBERT H. MELVIN	
		BETTY L. MELVIN	
		MARY S. LARTZ AND WILLIAM LARTZ, W/H LILLIAN CRABILL AND WILLIAM CRABILL, W/H	
		MELISSA COLL	
		ROBERT BARTHOLOMEW AND BARBARA BARTHOLOMEW, H/W	
		PHILLIP L. MELVIN JOANNE GREENMAN AND GERALD GREENMAN, H/W	
19	RONALD R. & REVA D. ROWLAND	JACOB L DILLON AND EDNA DILLON, H/W	1-16/20
21	JAMES E. ASH	ROSEMARY EAGLE	P/0 1-16/19.
		ELEANOR L. ROTH, ATTORNEY-IN-FACT FOR THE	
0.0	MAKE BOREDT DIOLEY	J. D. AND RUTH FOLEY HEIRS JACOB C. COTTRILL, ATTORNEY-IN-FACT	1-15/15
22	JAMES ROBERT BAGLEY	FOR CHARLES D. COTTRILL HEIRS;	
		JACOB C. COTTRILL AND SHIRLEY A. COTTRILL, H/W	D/0 + 45/14
36	SANDRA SUE CLARK & CLARENCE DUANE & JEFFREY GREGG CLARK & KEVIN SCOTT	MILDRED GREGG	P/0 1-15/11
38	DUANE CLARK, ET AL C/O DUANE & SUE CLARK	JEFFREY G. CLARK, SINGLE	1-15/6
		KEVIN S. CLARK, SINGLE	
		JOHN BAKER, INDIVIDUALLY AND AS ATTORNEY-IN-FACT FOR THE "GORRELL DOAK HEIRS"	
39	DUANE CLARK, ET AL C/O DUANE & SUE CLARK	ORA NELSON MOORE AND MARY EDNA MOORE, H/W	P/0 1-15/6.1
		OLETHA MOORE, WIDOW ROSEMARY EAGLE	
40		BRC APPALACHIAN MINERALS I, LLC	
61	DAVID & MARY ANN PRESTON (LIFE ESTATE)	JAMES R. ASH AND FRANCIS M. ASH, H/W	P/0 1-15/4 1-12/23 &
63	RYAN J. & SUSAN J. LIND GENEVA (DENNISON) BULLMAN LIFE	ORA NELSON MOORE AND MARY EDNA MOORE, H/W, AND OLETHA MOORE, WIDOW	1-12/23.1
		ROSEMARY EAGLE	
65	GENEVA (DENNISON) BULLMAN LIFE ESTATE	BILLY KENNETH FOUTS AND MARIANNE B. FOUTS, H/W ERWIN LAWRENCE FOUTS	1-12/10
		SHEILA KAY FORRESTER AND ROBERT FORRESTER, W/H	
66		ROBERT H. TENNANT, SINGLE AND	1-12/11 & 1-12/11.1
	JAMES F. & PATRICIA A. WOOD	OPAL V. TENNANT, WIDOW	1-12/11-1

API WELL#: 47 95 02444

STATE COUNTY PERMIT



WW-6A1 (5/13)

Operator's Well No.	SHR37iHSM
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INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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

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

ramoer	Grantor, Debbor, etc.	Granice, Bessee, etc.	resjuits	200111
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Lease Name or				

See attached

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

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

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

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

Well Operator: CNX Gas Company, LLC

By: Erika Whetstone

Its: Permitting Manager

Page 1 of 5

WV Department of Environmental Protection

OCT - 4 2019

Attachment - Form WW-6A-1 for SHR37IHSM

WV Department of Environmental Protection

T4 1D						
lract 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
1			Dorothy Belle Wells and Byron Wells, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/90
1			Myrna Morgan and David Morgan, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/640
			Sefco Enterprises, Inc.	Eastern American Energy Corporation	Assignment	285/650
			Eastern American Energy Corporation	Seneca-Upshur Petroleum, Inc.	Assignment	354/757
			Seneca-Upshur Petroleum, Inc.	Seneca-Upshur Petroleum, LLC	Assignment	381/540
			Seneca-Upshur Petroleum, LLC	Antero Resources Appalachian Corporation	Assignment	402/132
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	wvsos
				CNX Gas Company, LLC		425/701
			Antero Resources Corporation	Noble Energy Inc.	Assignment	427/564
i			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273 🎷
		Title Onlaine OLG				
Tract ID	Tax Map & Parcel	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
12	1-17-6	<u>#</u> 266300000	Floorer V Foreboort and Door A Foreboort with	Cafee Patamaiana Inc		
12	1-17-0	200300000	Eleanor V. Earnheart and Dean A. Earnheart, w/h	Sefco Enterprises, Inc.	Not less than 1/8	267/74
			Ciella Boice, widow Luella I. McConnell, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/76
			•	Sefco Enterprises, Inc.	Not less than 1/8	267/78
			Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, w/h	Sefco Enterprises, Inc.	Not less than 1/8	267/80
				Sefco Enterprises, Inc.	Not less than 1/8	267/82
İ			Georgia P. Snyder, divorced Bradia Pines and Goldia Pines, bis wife	Sefco Enterprises, Inc.	Not less than 1/8	267/84
			Bradie Pipes and Goldie Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife	Sefco Enterprises, Inc.	Not less than 1/8	267/86
			Dorothy Belle Wells and Byron Wells, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/88
			Myrna Morgan and David Morgan, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/90
			Sefco Enterprises, Inc.	Sefco Enterprises, Inc.	Not less than 1/8	267/640
			Eastern American Energy Corporation	Eastern American Energy Corporation	Assignment	285/650
			Seneca-Upshur Petroleum, Inc.	Seneca-Upshur Petroleum, Inc.	Assignment	354/757
			Seneca-Upshur Petroleum, ILC	Seneca-Upshur Petroleum, LLC	Assignment	381/540
1			Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	Assignment	402/132
-			Antero Resources Apparachian Corporation	CNX Gas Company, LLC	Name Change	WVSOS
			Antero Resources Corporation	Noble Energy Inc.	A!	425/701
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment Assignment	427/564 550/273
				on our company, and	Assignment	330/273
			Reva Rowland and Ronald Royce Rowland	CNX Gas Company, LLC	Not less than 1/8	Not Yet Recorded
:					•	
Tract ID	Tax Map & Parcel	Title Opinion QLS	Granton Losson etc	Combon Louis ata	Barralle.	B1/B
1	TOX WAD OF FAILER	#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
13	1-18-5	263458000	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
			None: D. McClain and Balah E. McClain/h	Sefco Enterprises, Inc.	Not less than 1/8	
			Nancy P. McClain and Raiph E. McClain, w/h	ocido Enterprises, inc.		267/82
			Georgia P. Snyder, divorced	Sefco Enterprises, Inc.	Not less than 1/8	267/82 267/84
			Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife	Sefco Enterprises, Inc. Sefco Enterprises, Inc.	•	
			Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife	Sefco Enterprises, Inc. Sefco Enterprises, Inc. Sefco Enterprises, Inc.	Not less than 1/8 Not less than 1/8 Not less than 1/8	267/84 267/86 267/88
			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	Sefco Enterprises, Inc. 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	267/84 267/86 267/88 267/90
			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.	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	267/84 267/86 267/88 267/90 267/640
			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.	Sefco Enterprises, Inc. Eastern American Energy Corporation	Not less than 1/8 Assignment	267/84 267/86 267/88 267/90 267/640 285/650
			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	Sefco Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, 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 Assignment Assignment	267/84 267/86 267/88 267/90 267/640 285/650 354/757
			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 Sefco Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc.	Sefco Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Assignment	267/84 267/86 267/88 267/90 267/640 285/650 354/757 381/540
			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	Sefco Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, ILC Antero Resources Appalachian Corporation	Not less than 1/8 Assignment Assignment Assignment Assignment	267/84 267/86 267/88 267/90 267/640 285/650 354/757 381/540 402/132
			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 Sefco Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc.	Sefco Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation	Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Assignment	267/84 267/86 267/88 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS
			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	Sefco Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachlan Corporation Antero Resources Corporation CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment	267/84 267/86 267/88 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701
			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 Sefco Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation	Sefco Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc.	Not less than 1/8 Assignment	267/84 267/86 267/88 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701 427/564
			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	Sefco Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachlan Corporation Antero Resources Corporation CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment	267/84 267/86 267/88 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701
			Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife Dorothy Beile 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.	Sefco Enterprises, Inc. Eastern 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	Not less than 1/8 Assignment	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
Tract ID	Tax Map & Parcel	Title Opinion QLS	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 Sefco Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation	Sefco Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc.	Not less than 1/8 Assignment	267/84 267/86 267/88 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701 427/564
Tract ID	<u>Tax Map & Parcel</u> 1-18-6.1	Title Opinion QLS #	Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife Dorothy Beile 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.	Sefco Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation CNX Gas Company, LLC Noble Energy Inc. CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Royalty	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 Book/Page
	Tax Map & Parcel	Title Opinion QLS #	Georgia P. Snyder, divorced Bradle Pipes and Goldle Pipes, his wife Pursle Pipes and Norma J. Pipes, husband and wife Dorothy Beile 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	Sefco Enterprises, Inc. Eastern 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 Name Change Assignment Assignment Assignment Assignment Assignment	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
	Tax Map & Parcel	<u>Title Opinion QLS</u> # 263459000	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	Sefco Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, ILC Seneca-Upshur Petroleum, ILC Antero Resources Appalachian Corporation Antero Resources Corporation CNX Gas Company, ILC Noble Energy Inc. CNX Gas Company, ILC Grantee, Lessee, etc Sefco Enterprises, Inc. Sefco Enterprises, Inc.	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Name Change Assignment Assignment Assignment Not less than 1/8 Not less than 1/8	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
	Tax Map & Parcel	<u>Title Opinion QLS</u> # 263459000	Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife Dorothy Beile Weils and Byron Weils, 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 Clella Bolce, widow	Sefco Enterprises, Inc. Eastern 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 Name Change Assignment Assignment Assignment Assignment Assignment	267/84 267/86 267/86 267/80 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701 427/564 550/273 Book/Page 267/74 267/76 267/78
	Tax Map & Parcel	Title Opinion QLS # 263459000	Georgia P. Snyder, divorced Bradle Pipes and Goldie Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife Dorothy Beile 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 Ctella Boice, widow Luella I. McConnell, widow	Sefco Enterprises, Inc. Eastern 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. Sefco Enterprises, Inc.	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Name Change Assignment	267/84 267/86 267/86 267/80 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701 427/564 550/273 Book/Page 267/74 267/76 267/78 267/80
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	Tax Map & Parcel	<u>Title Opinion QLS</u> # 263459000	Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife Dorothy Beile 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 Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, w/h	Sefco Enterprises, Inc. Eastern 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. Sefco Enterprises, Inc. Sefco Enterprises, Inc. Sefco Enterprises, Inc.	Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Name Change Assignment Assignment Not less than 1/8	267/84 267/86 267/86 267/80 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701 427/564 550/273 Book/Page 267/74 267/76 267/78 267/80
	Tax Map & Parcel	<u>Title Opinion QLS</u> # 263459000	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, LLC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor, Lessor, etc Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Bolce, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, w/h Georgia P. Snyder, divorced	Sefco Enterprises, Inc. Eastern 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 Name Change Assignment Assignment Assignment Not less than 1/8	267/84 267/86 267/86 267/80 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701 427/564 550/273 Book/Page 267/74 267/78 267/78 267/80 267/82
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	Tax Map & Parcel	Title Opinion QLS # 263459000	Georgia P. Snyder, divorced Bradle 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 Ctella Bolce, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, w/h Georgia P. Snyder, divorced Bradle Pipes and Goldie Pipes, his wife Pursle Pipes and Goldie Pipes, his wife Pursle Pipes and Norma J. Pipes, husband Myrna Morgan and David Morgan, her husband Sefco Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, Inc.	Sefco Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, ILC Antero Resources Appalachian Corporation Antero Resources Corporation CNX Gas Company, ILC Noble Energy Inc. CNX Gas Company, ILC Grantee, Lessee, etc Sefco Enterprises, Inc.	Not less than 1/8 Assignment Royalty Not less than 1/8 Assignment Assignment	267/84 267/86 267/86 267/86 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701 427/564 550/273 Book/Page 267/74 267/74 267/76 267/80 267/80 267/88 267/90 267/88 267/90 285/650 354/757 381/540 402/132
	Tax Map & Parcel	Title Opinion QLS # 263459000	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, ILC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, inc. Grantor, Lessor, etc Eleanor V. Earnheart and Dean A. Earnheart, w/h Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, w/h Georgia P. Snyder, divorced 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.	Sefco Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, ILC Antero Resources Appalachian Corporation Antero Resources Corporation CNX Gas Company, ILC Noble Energy Inc. CNX Gas Company, ILC Grantee, Lessee, etc Sefco Enterprises, Inc. Sefco Enterprises, Inc	Not less than 1/8 Assignment Royalty Not less than 1/8 Assignment Assignment Assignment	267/84 267/86 267/86 267/86 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701 427/564 550/273 Book/Page 267/74 267/76 267/78 267/82 267/82 267/84 267/86 267/88 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS
	Tax Map & Parcel	Title Opinion QLS # 263459000	Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife Dorothy Beile 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 Ralph E. McClain, w/h Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife Pursie Pipes and Goldie Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife Dorothy Beile 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	Sefco Enterprises, Inc. Eastern 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. Sefco Enterprises, Inc	Not less than 1/8 Assignment Not less than 1/8 Assignment Assignment Assignment Name Change	267/84 267/86 267/86 267/86 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701 427/564 550/273 Book/Page 267/74 267/76 267/78 267/86 267/84 267/86 267/88 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701
	Tax Map & Parcel	Title Opinion QLS # 263459000	Georgia P. Snyder, divorced Bradle Pipes and Goldie Pipes, his wife Pursle Pipes and Goldie Pipes, his 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 Clella Bolce, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, w/h Georgia P. Snyder, divorced Bradle Pipes and Goldie Pipes, his wife Pursle 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, LLC Antero Resources Corporation	Sefco Enterprises, Inc. Eastern 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. Sefco Enterprises, Inc	Not less than 1/8 Assignment Not less than 1/8 Assignment Assignment Assignment Assignment Name Change	267/84 267/86 267/86 267/86 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701 427/564 550/273 Book/Page 267/74 267/76 267/78 267/80 267/80 267/86 267/88 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS
	Tax Map & Parcel	Title Opinion QLS # 263459000	Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife Dorothy Beile 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 Ralph E. McClain, w/h Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife Pursie Pipes and Goldie Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife Dorothy Beile 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	Sefco Enterprises, Inc. Eastern 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. Sefco Enterprises, Inc	Not less than 1/8 Assignment Not less than 1/8 Assignment Assignment Assignment Name Change	267/84 267/86 267/86 267/86 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701 427/564 550/273 Book/Page 267/74 267/76 267/78 267/86 267/84 267/86 267/88 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701

	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
			Charles W. Henderson and Dorothy M. Henderson, h/w and			
16	1-16-26	259000000	Charles W. Henderson, Power of Attorney for the A. I. Doak Heirs	J&J Enterprises	Not less than 1/8	259/588
		25500000	John A. Conklin and Jean Conklin, h/w	J&J Enterprises	Not less than 1/8	259/586
			George B. Conklin and Betty M. Conklin, h.w	J&J Enterprises	Not less than 1/8	259/584
			Betty L. Conklin	J&J Enterprises	Not less than 1/8	259/582
			J & J Enterprises	Eastern American Energy Corporation	Assignment	282/296
			Eastern American Energy Corporation	Energy Corporation of America	Assignment	371/528
1			Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	398/416
			Energy Corporation of America	Antero Resources Appalaction Corporation	Assignment	
			Antero Resources Appalachian Corporation		-	420/316
1			Antero Resources Appaiachian Corporation	Antero Resources Corporation	Name Change	WVSOS
			A-4 B C	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
i			Robert Lee Reed	Eastern American Energy Corporation	Not less than 1/8	282/87
!			Lewis H. Reed and Carol J. Reed, h/w	Eastern American Energy Corporation	Not less than 1/8	282/103
			Kathy Pranger	Eastern American Energy Corporation	Not less than 1/8	282/91
			Virginia O'Rear and Ralph O'Rear, w/h	Eastern American Energy Corporation	Not less than 1/8	282/67
			Robert H. Melvin	Eastern American Energy Corporation	Not less than 1/8	282/399
			Betty L. Melvin	Eastern American Energy Corporation	Not less than 1/8	282/79
			Mary S. Lartz and William Lartz, w/h	• • •	Not less than 1/8	•
			Lillian Crabill and William Crabill, w/h	Eastern American Energy Corporation	•	282/83
				Eastern American Energy Corporation	Not less than 1/8	282/95
į			Melissa Coll	Eastern American Energy Corporation	Not less than 1/8	282/75
			Robert Bartholomew and Barbara Bartholomew, h/w	Eastern American Energy Corporation	Not less than 1/8	282/71
			Phillip L. Melvin	Eastern American Energy Corporation	Not less than 1/8	396/498
			Joanne Greenman and Gerald Greenman, h/w	Eastern American Energy Corporation	Not less than 1/8	282/99
			Eastern American Energy Corporation	Energy Corporation of America	Assignment	371/528
			Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	398/416
			Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	420/316
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	wvsos
				CNX Gas Company, LLC	_	425/701
			Antero Resources Corporation	Noble Energy Inc.	Assignment	427/564
i			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
art ID	Tax Map & Parcel	Title Opinion QLS	Granter Losses ate	Creates Lesses ats	Paralle.	Dook/Door
		#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
19	1-16-20	258989000	Jacob L. Dillon and Edna Dillon, h/w	Royal Resources Corporation	Not less than 1/8	196/302
1			Royal Resources Corporation	Columbia Gas Transmission Corporation	Assignment	196/166
			Columbia Gas Transmission Corporation	L & M Exploration, Inc.	Unrecorded Farmout Agrmt.	See Attached
			L & M Exploration, Inc.	L & M Associates, Inc.	Unrecorded Letter Agrmt.	See Attached
			L & M Associates, Inc.	Anvil Oil Co., Inc.	Assignment	258/90
			Columbia Gas Transmission Corporation	Anvil Oil Co., Inc.	Sublease Agrmt.	265/107
			Anvil Oil Co., Inc.	Excel Energy, Inc.	Assignment	263/635
1			Excel Energy, Inc.	Anvil Oil Co. Inc	Assignment	
1			Excel Energy, Inc.	Anvil Oil & Gas Company Inc	Assignment	269/143
1			Anvil Oil Co., Inc.	Anvil Oil Co., Inc. Anvil Oil & Gas Company, Inc.	Assignment Name Change	
1				The state of the s	-	269/143
			Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas	Anvil Oil & Gas Company, Inc.	Name Change	269/143 WVSOS
1			Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc.	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc.	Name Change Assignment	269/143 WVSOS 323/383
 			Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C.	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC	Name Change Assignment Merger	269/143 WVSOS 323/383 384/191
			Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc.	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc.	Name Change Assignment	269/143 WVSOS 323/383
		Title Opinion QLS	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc.	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC	Name Change Assignment Merger Assignment Assignment	269/143 WVSOS 323/383 384/191 388/286 550/273
	Tax Map & Parcel	#	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc	Name Change Assignment Merger Assignment Assignment Royalty	269/143 WVSOS 323/383 384/191 388/286 550/273
	<u>Tax Map & Parcel</u> 1-16-19.1	Title Opinion QLS # 257259000	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation	Name Change Assignment Merger Assignment Assignment Royalty Not less than 1/8	269/143 WV5OS 323/383 384/191 388/286 550/273 ✓
		#	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson Rosemary Eagle	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc	Name Change Assignment Merger Assignment Assignment Royalty	269/143 WVSOS 323/383 384/191 388/286 550/273
		#	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson Rosemary Eagle Eleanor L. Roth, Attorney-in-Fact for the J. D. and Ruth Foley	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation Drilling Appalachian Corporation	Assignment Merger Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8	269/143 WVSOS 323/383 384/191 388/286 550/273 Book/Page 271/726 272/297
		#	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson Rosemary Eagle	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation Drilling Appalachian Corporation	Name Change Assignment Merger Assignment Assignment Royalty Not less than 1/8	269/143 WV5OS 323/383 384/191 388/286 550/273 ✓
		#	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson Rosemary Eagle Eleanor L. Roth, Attorney-in-Fact for the J. D. and Ruth Foley Heirs	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation Drilling Appalachian Corporation Dominion Appalachian Development Properties,	Assignment Merger Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8	269/143 WVSOS 323/383 384/191 388/286 550/273 Book/Page 271/726 272/297
		#	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson Rosemary Eagle Eleanor L. Roth, Attorney-in-Fact for the J. D. and Ruth Foley	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC	Assignment Merger Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8	269/143 WVSOS 323/383 384/191 388/286 550/273 ✓ Book/Page 271/726 272/297
		#	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson Rosemary Eagle Eleanor L. Roth, Attorney-in-Fact for the J. D. and Ruth Foley Heirs	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation Drilling Appalachian Corporation Dominion Appalachian Development Properties,	Assignment Merger Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8	269/143 WV50S 323/383 384/191 388/286 550/273 Book/Page 271/726 272/297
act ID		#	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson Rosemary Eagle Eleanor L. Roth, Attorney-in-Fact for the J. D. and Ruth Foley Heirs	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC	Assignment Merger Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8	269/143 WV50S 323/383 384/191 388/286 550/273 Book/Page 271/726 272/297
		#	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company; Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson Rosemary Eagle Eleanor L. Roth, Attorney-in-Fact for the J. D. and Ruth Foley Heirs Drilling Appalachian Corporation	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development	Assignment Merger Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Assignment Assignment	269/143 WVSOS 323/383 384/191 388/286 550/273 Book/Page 271/726 272/297 271/728 322/190
		#	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson Rosemary Eagle Eleanor L. Roth, Attorney-in-Fact for the J. D. and Ruth Foley Helrs Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC	Assignment Merger Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Merger Merger	269/143 WVSOS 323/383 384/191 388/286 550/273 800k/Page 271/726 272/297 271/728 322/190 384/191 384/191
		#	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson Rosemary Eagle Eleanor L. Roth, Attorney-in-Fact for the J. D. and Ruth Foley Helrs Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc.	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company	Assignment Merger Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Merger	269/143 WVSOS 323/383 384/191 388/286 550/273 Book/Page 271/726 272/297 271/728 322/190 384/191 384/191 384/191
		#	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson Rosemary Eagle Eleanor L. Roth, Attorney-in-Fact for the J. D. and Ruth Foley Heirs Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Company CNX Gas Company LLC	Assignment Merger Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Merger	269/143 WVSOS 323/383 384/191 388/286 550/273 ✓ Book/Page 271/726 272/297 271/728 322/190 384/191 384/191 384/191
		#	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company; Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson Rosemary Eagle Eleanor L. Roth, Attorney-in-Fact for the J. D. and Ruth Foley Heirs Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc.	Assignment Merger Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Merger Assignment	269/143 WVSOS 323/383 384/191 388/286 550/273 Book/Page 271/726 272/297 271/728 322/190 384/191 384/191 384/191 384/191 384/191 388/286
		#	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson Rosemary Eagle Eleanor L. Roth, Attorney-In-Fact for the J. D. and Ruth Foley Helrs Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc.	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC	Assignment Merger Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Assignment Assignment	269/143 WVSOS 323/383 384/191 388/286 550/273 Book/Page 271/726 272/297 271/728 322/190 384/191 384/191 384/191 384/191 384/191 384/191 388/286 402/704
		#	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson Rosemary Eagle Eleanor L. Roth, Attorney-in-Fact for the J. D. and Ruth Foley Helrs Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. CNX Gas Company LLC	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. CNX Gas Company LLC ONSOLE CONSOL CONSOLE	Assignment Merger Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Assignment Assignment Assignment Assignment Assignment	323/383 384/191 388/286 550/273 Book/Page 271/726 272/297 271/728 322/190 384/191 384/191 384/191 384/191 384/191 384/191 384/191 384/194 401/342
		#	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson Rosemary Eagle Eleanor L. Roth, Attorney-In-Fact for the J. D. and Ruth Foley Helrs Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc.	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. CNX Gas Company LLC Drilling Appalachian Corporation Antero Resources Corporation	Assignment Merger Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Assignment Assignment	269/143 WVSOS 323/383 384/191 388/286 550/273 Book/Page 271/726 272/297 271/728 322/190 384/191 384/191 384/191 384/191 388/286 402/704 401/342 421/138
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		#	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson Rosemary Eagle Eleanor L. Roth, Attorney-in-Fact for the J. D. and Ruth Foley Heirs Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Company LC CNX Gas Company LLC Noble Energy Inc. CNX Gas Company LLC Drilling Appalachian Corporation Antero Resources Corporation	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. CNX Gas Company LLC Drilling Appalachian Corporation Antero Resources Corporation CNX Gas Company LLC Noble Energy, Inc.	Assignment Merger Assignment Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment	269/143 WVSOS 323/383 384/191 388/286 550/273 Book/Page 271/726 272/297 271/728 322/190 384/191 384/191 384/191 384/191 384/191 384/191 384/191 384/191 384/191 427/564
	1-16-19.1	# 257259000	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company; Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson Rosemary Eagle Eleanor L. Roth, Attorney-in-Fact for the J. D. and Ruth Foley Heirs Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Roserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. CNX Gas Company LLC Drilling Appalachian Corporation Antero Resources Corporation Noble Energy Inc.	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. CNX Gas Company LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation CNX Gas Company LLC	Assignment Merger Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Merger Assignment Assignment Assignment Assignment Assignment Assignment	269/143 WVSOS 323/383 384/191 388/286 550/273 800k/Page 271/726 272/297 271/728 322/190 384/191
21	1-16-19.1	#	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company; Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson Rosemary Eagle Eleanor L. Roth, Attorney-in-Fact for the J. D. and Ruth Foley Heirs Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Roserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. CNX Gas Company LLC Drilling Appalachian Corporation Antero Resources Corporation Noble Energy Inc.	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. CNX Gas Company LLC Drilling Appalachian Corporation Antero Resources Corporation CNX Gas Company LLC Noble Energy, Inc.	Assignment Merger Assignment Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment	269/143 WVSOS 323/383 384/191 388/286 550/273 Book/Page 271/726 272/297 271/728 322/190 384/191 384/191 384/191 384/191 384/191 384/191 384/191 384/191 384/191 427/564
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21	1-16-19.1 Tax Map & Parcel	# 257259000 Title Opinion QLS #	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson Rosemary Eagle Eleanor L. Roth, Attorney-In-Fact for the J. D. and Ruth Foley Helrs Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. CNX Gas Company LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Noble Energy Inc. Grantor, Lessor, etc Jacob C. Cottrill, Attorney-In-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. CNX Gas Company LLC Drilling Appalachian Corporation Antero Resources Corporation CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC Grantee, Lessee, etc J & J Enterprises, Inc. Eastern American Energy Corporation	Assignment Merger Assignment Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Merger Assignment	269/143 WVSOS 323/383 384/191 388/286 550/273 800k/Page 271/726 272/297 271/728 322/190 384/191 384/191 384/191 384/191 384/191 388/286 402/704 401/342 421/38 425/701 427/564 550/273 800k/Page 258/220 282/296
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21	1-16-19.1 Tax Map & Parcel	# 257259000 Title Opinion QLS #	Anvil Oil Co., Inc. Justin L. Henderson, individually and d/b/a Anvil Oil and Gas Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C. CNX Gas Company, LLC Noble Energy, Inc. Grantor, Lessor, etc Gale V. Davisson Rosemary Eagle Eleanor L. Roth, Attorney-In-Fact for the J. D. and Ruth Foley Heirs Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. CNX Gas Company LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Noble Energy Inc. Grantor, Lessor, etc Jacob C. Cottrill, Attorney-In-Fact for Charles D. Cottrill Heirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation Energy Corporation of America Energy Corporation of America	Anvil Oil & Gas Company, Inc. Dominion Appalachian Development, Inc. CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. CNX Gas Company LLC Drilling Appalachian Corporation Antero Resources Corporation CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC Grantee, Lessee, etc J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation	Assignment Merger Assignment Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Assignment	269/143 WVSOS 323/383 384/191 388/286 550/273 271/726 272/297 271/728 322/190 384/191 427/564 550/273 Book/Page

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		Title Opinion QLS				
Tract ID	Tax Map & Parcel	#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
36	1-15-11	259021000	Mildred Gregg	Manna Oil & Gas Co.	Not less than 1/8	265/419
			Manna Oil & Gas Co.	Anvil Oil Company	Name Change	Unrecorded
			Anvil Oil Company Dominion Appalachian Development, Inc.	Dominion Appalachian Development, Inc. Dominion Appalachian Development, LLC	Assignment Name Change	323/383 WVSOS
			bonnion apparachan bevelopment, me.	CONSOL Gas Appalachian Development	Name Change	***************************************
			Dominion Appalachian Development, LLC	Properties LLC	Merger	384/191
			CONSOL Gas Appalachian Development Properties LLC	CONSOL Gas Reserves Inc.	Merger	384/191
			CONSOL Gas Reserves Inc. CONSOL Gas Company	CONSOL Gas Company CNX Gas Company LLC	Merger Merger	384/191 384/191
			CNX Gas Company LLC	Noble Energy Inc.	Assignment	388/286
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
Tract ID	Tax Map & Parcel	Title Opinion QLS	Grantes Lesses etc	Creates Lesses ata	Davide.	Dook (Door
Hactio	lax Map & Parcel	<u>#</u>	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
			Clarence Duane Clark and Sandra Sue Clark, h/w			
38	1-15-6	288617000	Jeffrey G. Clark, single Kevin S. Clark, single	Manna Oil & Gas Co.	Not less than 1/8	265/405
[-			Manna Oil & Gas Co.	Anvil Oil Company	Name Change	Unrecorded
			Anvil Oil Company	Antero Resources Corporation	Assignment	445/774
			Antonia Brazilia de Companya de Carrella d	CNX Gas Company LLC		
			Antero Resources Corporation Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC	Assignment Assignment	468/769 550/273
			Noble Energy, Inc.	CHA das company, LLC	Assignment	330/2/3
			John Baker, individually and as Attorney-in-Fact for the			
			"Gorrell Doak Heirs"	Anvil Oil Company	Not less than 1/8	265/413
			Anvil Oil Company	Antero Resources Corporation CNX Gas Company LLC	Assignment	445/774
			Antero Resources Corporation	Noble Energy, Inc.	Assignment	468/769
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
					-	•
Tract ID	Tax Map & Parcel	Title Opinion QLS	Grantor, Lessor, etc	Granton Losson ata	Benelte.	Dook /Door
TI ACL ID	Tax Map & Farcer	<u>#</u>		<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	Book/Page
39	1-15-6.1	259026000	Ora Nelson Moore and Mary Edna Moore, husband and wife, and Oletha Moore, widow	Clarence W. Mutschelknaus	Net less than 4 /0	207/027
33	1-13-0.1	239020000	Rosemary Eagle	Clarence W. Mutschelknaus	Not less than 1/8 Not less than 1/8	267/637 273/80
i			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
1			Antero Resources Corporation	CNX Gas Company LLC Noble Energy, Inc.	Assignment	433/7
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
		Title Onlines OLF				
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
40	1-15-6.1	259210000	BRC Appalachian Minerals I, LLC	BRC Working Interest Company, LLC	Not less than 1/8	369/300
			BRC Working Interest Company, LLC	Chesapeake Appalachia, L.L.C.	Assignment	369/784
			Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.	Assignment	378/764
i			Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties Inc.	SWN Production Company, LLC SWN Exchange Title Holder LLC	Assignment Assignment	465/463 470/668
			SWN Exchange Title Holder LLC	SWN Production Company, LLC	Merger	9/404
			SWN Production Company, LLC	CNX Gas Company LLC	•	•
			Statoil USA Onshore Properties Inc.	Noble Energy, Inc.	Assignment	518/207
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
1		Title Opinion QLS				
	Tax Wap & Parcer	<u>#</u>	<u>Grantor, Lessor, etc</u>	Grantee, Lessee, etc	Royalty	Book/Page
61	1-15-4	259008000	James R. Ash and Frances M. Ash, h/w	Anvil Oil Company	Not less than 1/8	271/712
			Anvil Oil Company Dominion Appalachian Development, Inc.	Dominion Appalachian Development, Inc. Dominion Appalachian Development, LLC	Assignment Name Change	323/383 WVSOS
			Dominion Apparachian Development, Inc.	CONSOL Gas Appalachian Development	Name Change	****
			Dominion Appalachian Development, LLC	Properties LLC	Merger	384/191
i			CONSOL Gas Appalachian Development Properties LLC	CONSOL Gas Reserves Inc.	Merger	384/191
			CONSOL Gas Reserves Inc. CONSOL Gas Company	CONSOL Gas Company CNX Gas Company LLC	Merger	384/191 384/191
			CNX Gas Company LLC	Noble Energy Inc.	Merger Assignment	388/286
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
TractID	Tax Map & Parcel	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Pausitu	Book/Page
HUCCHO		#		Grantee, Lessee, etc	Royalty	BUUK/Fake
63	1-12-23 1-12-23.1	259026000	Ora Nelson Moore and Mary Edna Moore, husband and wife, and Oletha Moore, widow	Clarence W. Mutschelknaus	Not less than 1/8	267/637
•	2-22-29-2	23302000	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 CNX Gas Company LLC	Merger	wvsos
			Antero Resources Corporation	Noble Energy, Inc.	Assignment	433/7
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
Tract in	Tax Map & Parcel	Title Opinion QLS	Grantor, Lessor, etc	Grantae Lesson etc	Pavale	Book/Page
1		#		Grantee, Lessee, etc	Royalty	
65	1-12-10		Billy Kenneth Fouts and Marianne B. Fouts, h/w Erwin Lawrence Fouts	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	649/68 649/73
			Sheila Kay Forrester and Robert Forrester, w/h	CNX Gas Company LLC RECEIVED	Not less than 1/8	649/78 🗸
				Office of Oil and Gas		•

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WV Department of Environmental Protection

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Tract ID	Tax Map & Parcel	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
	1-12-11		Robert H. Tennant, a single man and Opal V. Tennant, a			
66	1-12-11.1	243936000	widow	Anvil Oil Company	Not less than 1/8	267/56
			Justin L. Henderson d/b/a Anvil Oil Company	Anvil 1989-3 Joint Venture	Assignment	284/107
			Anvil 1989-3 Joint Venture	Dominion Appalachian Development, Inc.	Assignment	329/855
			Anvil Oil Company	Dominion Appalachian Development, Inc.	Assignment	323/383
			Dominion Appalachian Development, Inc.	Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development	Name Change	wvsos
			Dominion Appalachian Development, LLC	Properties LLC	Merger	384/191
			CONSOL Gas Appalachian Development Properties LLC	CONSOL Gas Reserves Inc.	Merger	384/191
			CONSOL Gas Reserves Inc.	CONSOL Gas Company	Merger	384/191
1			CONSOL Gas Company	CNX Gas Company LLC	Merger	384/191
			CNX Gas Company LLC	Noble Energy Inc.	Assignment	388/286
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273

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WV Department of Environmental Protection

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Erika Whetstone Permitting Manager 1000 Consol Energy Dr. Canonsburg, PA 15317 (724) 485-4035

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

RE: Road Letter - SHR37 Well Pad Drilling Applications

To Whom It May Concern:

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

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

Sincerely,

Erika Whetstone Permitting Manager

Crika & White

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WV Department of Environmental Protection

Horizontal Natural Gas Well Work Permit Application Notice By Publication

Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: TYLER STAR NEWS		
Public Notice Date: 9/18/2019, 9/25/2019		
		l work permit which disturbs three acres or more of the than two hundred ten thousand gallons of water in
Applicant: CNX GAS COMPANY LLC	Wel	Number: SHR37IHSM
Address: 1000 CONSOL ENERGY DRIVE		
CANONSBURG, PA 15317		
Business Conducted: Natural gas production		
Location -		
State: WEST VIRGINIA	County	: TYLER
District: CENTERVILLE	Quadra	ngle: WEST UNION
UTM Coordinate NAD83 Northing:	4355993.94 🗸	
UTM coordinate NAD83 Easting: Watershed: MIDDLE ISLAND CREEK	513310.95	

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit; http://tagis.dep.wv.gov/convert/llutm_conus.php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.comments@wv.gov.

Submitting Comments:

Comments may be submitted online at https://apps.dep.wv.gov/oog/comments/comments.cfm, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

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For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

OCT - 4 2019

WW-PN (11-18-2015)

Horizontal Natural Gas Well Work Permit Application Notice By Publication

Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: Tyler Star News

Public Notice Date: 09/18//2019, 09/25/2019

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period.

Applicant: CNX GAS COMPANY, LLC

Well Number: SHR37IHSM

Address: 1000 Consol Energy Drive

Canonsburg, PA 15317

Business Conducted: Natural gas production.

Location -

State: West Virginia District: Centerville County: Tyler

Quadrangle: West Union

UTM Coordinate NAD83 Northing: 4355993.94 UTM coordinate NAD83 Easting: 513310.95 A Watershed: Middle Island Creek

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus. php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit http://www.dep.wv.gov/insidedep/Pages/DEPMailingList

s.aspx to sign up.

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Submitting Comments:

Comments may be submitted online at https://apps.dep.wv.gov/oog/comments/comments.cfm, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304, Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and

For information related to horizontal drilling visit: www. dep.wv.gov/oil-and-gas/pages/default.aspx

TSN 09/18 9/28 3676

TYLER STAR NEWS

Sistersville, WV September 35, 2019
State of West Virginia, County of Tyler:
Personally appeared before the undersigned, a Notary Public,
Eric Anderson who, being duly sworn,
states that he is the manager of the Tyler Star News, a weekly
newspaper of general circulation, published at Sistersville,
County of Tyler, State of West Virginia, and that a copy of the
notice attached hereto was published forsuccessive
weeks in the Tyler Star News, beginning on the 1877 day
of September, 2019 and ending on the 257H. day
of Loplember 2019.

Subscribed and sworn to before me, a Natary Public of said

Manager, Tyler Star News

My commission expires

Printers Fee.....

OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Tonya Jenkins 814 Pleasant Lane New Martinsville, WV 26155 My Commission Expires February 15, 2023

Office of Oil and Gas

OCT - 4 2019

WW Department of Environmental Protection

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

Date of Notic	ce Certification: ito 1 2019		PI No. 47		
			perator's Well No. SH		
	ACCOUNT OF THE PARTY OF THE PAR	V	ell Pad Name: SHR3	7	
Pursuant to th	been given: ne provisions in West Virginia Code tract of land as follows:	§ 22-6A, the Operator has provid	ed the required parties	with the Notice Forms listed	
State:	West Virginia	E E	asting: 513310.94		
County:	Tyler		orthing: 4355993.93	4355993.93 Duckworth Ridge Road	
District:	Centerville	Public Road Access	: Duckworth Ridg		
Quadrangle:	West Union, WV	Generally used farm	name: CNX Gas Comp	pany, LLC	
Watershed:	Headwaters Middle Island Creek				
of this article	e § 22-6A-11(b), the applicant shall have been completed by the applica	nt.		e requirements of section te	
that the Ope	West Virginia Code § 22-6A, the O erator has properly served the require ECK ALL THAT APPLY	perator has attached proof to this ed parties with the following:	Notice Certification	OOG OFFICE USE ONLY	
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS O		☐ RECEIVED/ NOT REQUIRED	
☐ 2. NO	TICE OF ENTRY FOR PLAT SUR	VEY or NO PLAT SURVEY	WAS CONDUCTED	☐ RECEIVED	
□ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PL WAS CONDUCTED or		☐ RECEIVED/ NOT REQUIRED	
		WRITTEN WAIVER BY (PLEASE ATTACH)	SURFACE OWNER		
■ 4 NO	TICE OF PLANNED OPERATION			☐ RECEIVED	

Required Attachments:

5. PUBLIC NOTICE

6. NOTICE OF APPLICATION

4, NOTICE OF PLANNED OPERATION

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.

OCT - 4 2019

RECEIVED

☐ RECEIVED

day of October

Notary Public

Certification of Notice is hereby given:

THEREFORE,	Erika Whetstone	, have read and understand	the notice requirements within West Virginia Code § 22-						
6A. I certify tha	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								
above, to the re	equired parties through personal s	service, by registered mail	or by any method of delivery that requires a receipt or						
signature confir	mation. I certify under penalty of	law that I have personally	examined and am familiar with the information submitted						
			nquiry of those individuals immediately responsible for						
			d complete. I am aware that there are significant penalties						
for submitting fa	alse information, including the pos	ssibility of fine and impriso	onment.						
Well Operator:	CNX Gas Company LLC	Address:	1000 Consol Energy Drive						
By:	Erika Whetstone	Puluts	Canonsburg, PA 15317						
Its:	Permitting Manager	Facsimile:							
Telephone:	7244854035	Email:	erikawhetstone@cnx.com						

NOTARY SEAL	Subscribed and sworn before me this
Commonwealth of Pennsylvania - Notary Seal JACOB C YOUNG - Notary Public Washington County	Garol C Young
My Commission Expires Jun 4, 2022 Commission Number 1333900	My Commission Expires 643

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.

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

Notice Time Requir Date of Notice: 90 Notice of:			an the filing date of permit application.	
PERMIT FOR WELL WORK			PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Delivery method pu	ırsuant to West Virginia C	ode § 22-6A-1	0(b)	
☐ PERSONAL	REGISTERED	☑ METH	HOD OF DELIVERY THAT REQUIRES A	
SERVICE	MAIL	RECE	EIPT OR SIGNATURE CONFIRMATION	
sediment control plan the surface of the trace oil and gas leasehold described in the erosic operator or lessee, in more coal seams; (4) well work, if the surfa- impoundment or pit a have a water well, spr provide water for con proposed well work a subsection (b) of this records of the sheriff provision of this artic Code R, § 35-8-5.7.a	required by section seven of it on which the well is or is probeing developed by the propo- on and sediment control plan the event the tract of land on. The owners of record of the sace tract is to be used for the passed described in section nine of ring or water supply source losumption by humans or dome ctivity is to take place. (c)(1) section hold interests in the larequired to be maintained pur- le to the contrary, notice to a requires, in part, that the ope	this article, and opposed to be looked well work, submitted pursus which the well purface tract or to blacement, constituities article; (5) cated within one estic animals; and If more than through the applications and to section lien holder is not article and also or the section of the applications are the applications and the applications are the applications are the applications and the applications are	or signature confirmation, copies of the application the well plat to each of the following persons: (1) cated; (2) The owners of record of the surface tract if the surface tract is to be used for roads or other limit to subsection (c), section seven of this article; proposed to be drilled is located [sic] is known to bracts overlying the oil and gas leasehold being devertruction, enlargement, alteration, repair, removal of Any surface owner or water purveyor who is known to the thousand five hundred feet of the center of the well (6) The operator of any natural gas storage field the tenants in common or other co-owners of interest and may serve the documents required upon the perfect of the center of this code. (2) of notice to a landowner, unless the lien holder is the provide the Well Site Safety Plan ("WSSP") to the gas provided in section 15 of this rule.	The owners of record of or tracts overlying the and disturbance as (3) The coal owner, be underlain by one or eloped by the proposed or abandonment of any on to the applicant to ell pad which is used to within which the ests described in the 2) Notwithstanding any the landowner, W. Va.
☑ Application Noti	ice WSSP Notice EE	&S Plan Notic	e	
SURFACE OWN			☑ COAL OWNER OR LESSEE	
Name: CNX Gas Compa			Name: CNX Gas Company LLC Address: 1000 Consol Energy Drive	
Address: 1000 Consol I	Energy Drive	-	Canonsburg, PA 15317	
Canonsburg, PA 15317		-	COAL OPERATOR	
			Name:	
Address.		-	Address:	
D SURFACE OWN	ER(s) (Road and/or Other D	isturbance)	7 Iddi Coo.	
	Err(5) (read und or color E		SURFACE OWNER OF WATER WELL	
Address:			AND/OR WATER PURVEYOR(s)	
			Name: See attached.	
Name:			Address:	
Address:				
A A LANGE			□ OPERATOR OF ANY NATURAL GAS S	TORAGE FIELD
SURFACE OWN	ER(s) (Impoundments or Pit	s)	Name:	
			Address:	
Address:				RECEIVED Office of Oil and Gas
1957			*Please attach additional forms if necessary	Office of Oil and Gas
				OCT - 4 2019

WW-6A (8-13)

Office of Oil and Gas OPERATOR WELL NO. Well Pad Name: SHR37

Notice is hereby given:

Environment of the World of the Second of the S 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/oiland-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

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 RECEIVED
Office of Oil and Gas 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

OCT - 4 2019

WV Department of Environmental Protection

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

WW-6A (8-13)

API NO. 47OPERATOR WELLING: SHR37HSM 6 4
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.

Office of Oil and Gas

OCT - 4 2019

WV Deparament of Environmental Protection

WW-6A (8-13) API NO. 47-OPERATOR WOLDNO. SURSZIHSM 6 4 Well Pad Name: SHR37

Notice	is	hereby	given	by:
TIOCICO	*0	Her Coy	STA CIT	

Well Operator: CNX Gas Company, LLC

Telephone: 724-485-4035

Email: ErikaWhetstone@CNX.com

Address: 1000 Consol Energy Drive

Canonsburg, PA 15317

Facsimile:

Oil and Gas Privacy Notice:

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

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL
Douglas E. Smith, Notary Public
Cecil Twp.. Washington County
My Commission Expires Dec. 6, 2020

MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Subscribed and sworn before me this 27 day of September, 2019

Notary Public

My Commission Expires

12-6-2020

Office of Oil and Gas

OCT - 4 2019

Environmental Protection

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

CNX RESOURCES CORPORATION 1000 CONSOL ENERGY DRIVE CANONSBURG, PA 15317

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

RIKI NICOLE DUNCAN (RILEY) 8100 SHAW AVENUE HAMLIN, WV 25523

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

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

FORREST G. POWELL PO BOX 91 ALMA, WV 26320

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

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

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

GAIL WILLIAMSON 195 DUCKWORTH RIDGE ROAD ALMA, WV 26320

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

OCT - 4 2019

WV Department of Environmental Protection

01-15-8 01-15-10 01:15:9 01-15-11 01-16-19 Duckwarth 01-16-21 16-22 01-15-15 01-16-17 02 7893 01-15-18 01-16-20 01-15-16 01-16-23 U1=15=14] SHR37 01-16-25 Lat: 39,354384 Lat: 39.353285 Long: -80.846194 01N: 1683893.19612 E: 14291688.6846 Long: -80.845691*camp* N:1587956:6126 01-17-10 Lat: 39.35428 01-18-1 Long: -80.846793 E:313753.2880 N: 1683723.92528 Gas We E: 14291650:7072 Access Entrance: Duckworth Rd 01-17-10.1 01-18-15 01-18-14 01-17-4 01:17-2.1 01-16-38,1 01-17-18 01-17-12 01-17-9 01-18-13 01-17-13 01-18-11 01-17-9.1 01-17-24 01-17-22 01-20-6.1 01-20-1 01-20-5 01-20-1.1 1,000 2,000 Legend Feet 1 inch = 1,500 feet 1 Mile Buffer A Pond Original Date: 12/14/2018 Prepared By: GIS 2,500 Foot Buffer Spring Topographic Well Map 1,500 Foot Buffer Well Revision Date: 12/14/2018 Approved By: GIS Surface Parcel SHR37 Wellbore This map is property of CNX Land Resources Inc. and contains information that is proprietary and confidential in nature and may not be copied or reproduced without prior written consent. Well Pad X Access Points === Access Road © Copyright CNX Land Resources Inc. 2011





Erika Whetstone Permitting Manager 724-485-4035 CNX Center 1000 CONSOL Energy Drive Canonsburg, PA 15317-6506 cnx.com

Waiver Request - "SHR37IHSM"

Dear Sir or Madam:

CNX Gas Company, LLC as surface and coal owner of the SHR37IHSM 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.

Sincerely,

Erika Whetstone

CNX Gas Company, LLC

RECEIVED Office of Oil and Gas

OCT - 4 2019

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

Delivery met	hod pursuant to West Virginia Cod	le § 22-6A-16(c)		
■ CERTI	FIED MAIL	☐ HAND		
	RN RECEIPT REQUESTED	DELIVERY		
return receipt the planned of required to be drilling of a l damages to th (d) The notice of notice. Notice is here	requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section thorizontal well; and (3) A proposed the surface affected by oil and gas oper	surface owner whose land was subsection shall include; en of this article to a surface surface use and compensations to the extent the dama wen to the surface owner at the following the surface owner at the surface owner at the following the surface owner at the surface owner at the following the surface owner at the surface owne	(1) A copy cowner whose on agreement ages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information is land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter. Sted in the records of the sheriff at the time
The same of the same of the				
Name: CNX Ga	s Company LLC	Name:		
Address: 1000	Consol Energy Drive	Address:		
Address: 1000 Canonsburg, PA	Consol Energy Drive \ 15317 eby given:	Address: _		
Address: 1000 Canonsburg, PA Notice is her Pursuant to W operation on State: County: District:	Consol Energy Drive \ 15317 eby given:	Address: tice is hereby given that the cose of drilling a horizontal was ut MAD 83 Public Road Acc	vell on the tra Easting: Northing: cess:	well operator has developed a planned ct of land as follows: 513310.95 4355993.94 Duckworth Ridge Road (CR 58/2)
Address: 1000 Canonsburg, PA Notice is her Pursuant to W operation on State: County: District: Quadrangle:	consol Energy Drive 15317 eby given: /est Virginia Code § 22-6A-16(c), not the surface owner's land for the purpowest Virginia Tyler	Address: tice is hereby given that the cose of drilling a horizontal way. UTM NAD 83	vell on the tra Easting: Northing: cess:	ct of land as follows: 513310.95 4355993.94
Address: 1000 Canonsburg, PA Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	consol Energy Drive 15317 by given: Vest Virginia Code § 22-6A-16(c), not the surface owner's land for the purpowers Virginia Tyler Centerville West Union Headwaters Middle Island Creek Chall Include: Vest Virginia Code § 22-6A-16(c), third by W. Va. Code § 22-6A-10(b) to the coll; and (3) A proposed surface use an eled by oil and gas operations to the collected at 601 57th Street, SE, Cault.aspx.	Address:	ell on the tra Easting: Northing: cess: farm name: copy of this and will be a containing ar pensable und y, at the WV 04-926-0450)	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Address: 1000 Canonsburg, PA Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	consol Energy Drive 15317 eby given: /est Virginia Code § 22-6A-16(c), not the surface owner's land for the purpowest Virginia Tyler Centerville West Union Headwaters Middle Island Creek Shall Include: /est Virginia Code § 22-6A-16(c), thied by W. Va. Code § 22-6A-10(b) to the code by oil and gas operations to the celated to horizontal drilling may be located at 601 57th Street, SE, Cault.aspx. T: CNX Gas Company, LLC	Address:	rell on the tra Easting: Northing: cess: farm name: copy of this and will be u containing ar pensable und y, at the WV 04-926-0450)	ct of land as follows: 513310.95 4355993.94 Duckworth Ridge Road (CR 58/2) CNX code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Address: 1000 Canonsburg, PA Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	consol Energy Drive 15317 by given: Vest Virginia Code § 22-6A-16(c), not the surface owner's land for the purpowers Virginia Tyler Centerville West Union Headwaters Middle Island Creek Chall Include: Vest Virginia Code § 22-6A-16(c), third by W. Va. Code § 22-6A-10(b) to the coll; and (3) A proposed surface use an eled by oil and gas operations to the collected at 601 57th Street, SE, Cault.aspx.	Address:	ell on the tra Easting: Northing: cess: farm name: copy of this and will be a containing ar pensable und y, at the WV 04-926-0450)	ct of land as follows: 513310.95 4355993.94 Duckworth Ridge Road (CR 58/2) CNX code section; (2) The information required used in conjunction with the drilling of a offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-v/prive

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

WW-6RW (1-12)

CNX # 294099 001

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

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

The well operator, CNX GAS COMPANY LLC work. Please be advised that well work permits a	_ is applying for a permit from the State or re valid for twenty-four (24) months.	of West Virginia to conduct oil or gas well
Well Location Restrictions Pursuant to West Virginia Code § 22-6A-12(a), any existing water well or developed spring used located within six hundred twenty-five feet of an larger used to house or shelter dairy cattle or p dwellings or agricultural buildings that existed or provided in section ten of this article or a notice of article was provided, whichever occurs first, and by written consent of the surface owner transmit clerk of the county commission for the county i variance by the secretary from these distance rest or practices to be employed during well site conconditions the department requires to ensure the sinclude insurance, bonding and indemnification, a	occupied dwelling structure, or a building outry husbandry. This limitation is apply the date a notice to the surface owner of intent to drill a horizontal well as provide to any dwelling under construction prior to the department and recorded in the which such property is located. Further rictions upon submission of a plan which struction, drilling and operations. The variety and protection of affected persons a	g two thousand five hundred square feet or olicable to those wells, developed springs, if planned entry for surveying or staking as ided in subsection (b), section sixteen of this to that date. This limitation may be waived the real property records maintained by the rmore, the well operator may be granted a identifies the sufficient measures, facilities ariance, if granted, shall include terms and
milians management	WAIVER	
I, Timothy Surmick, hereby state that I provisions listed above, and that I have received a WW-6A and attachments consisting of pages one required, and the well plat, all for proposed well a State: West Virginia County: Tyler District: Centerville Quadrangle: West Union Watershed: Headwaters Middle Island Creek I further state that I have no objection to the plant	copies of a Notice of Application, an Appl (1) through AU, including the work on the tract of land as follows: UTM NAD 83 Easting: UTM NAD 83 Northing: Public Road Access: Generally used farm name:	station for a Well Work Permit on Point erosion and sediment control plan, if 513285.2620 m 4356027.9910 m Duckworth Ridge Road (CR 58/2) CNX I have no objection to a permit being
issued on those materials and I therefore waive al	I well site restrictions listed under West	Virginia Code § 22-0A-12(a).
WELL SITE RESTRICTIONS BEING WAIV *Please check all that apply	Signature:	TION BY A NATURAL PERSON
	Print Name:	
■ EXISTING WATER WELLS	Date:	TION BY A CORPORATION, ETC.
DEVELOPED SPRINGS	Company: (CNX Gas Company LLC
■ DWELLINGS	By: Timat	hu Surmick
AGRICULTURAL BUILDINGS	Its: Ascieta Signature: Date:	Wice President RECEIVED Office of
Well Operator: CNX GAS COMPANY LLC	Signature:	OCT - 4 7019
By: Raymond Hoon	Telephone: 724-485-354	OCT - 4 7319
Its: Permitting Supervisor		_ WV Dept _nt of
COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL Douglas E. Smith, Notary Public Cecil Twp Washington County My Commission Expires Dec. 6, 2020 MEMBER, PENNSYLVANIAASSOCIATION OF NOTARIES	Subscribed and swom before me this Subscribed and swom before me this My Commission Expires 12-	Environmental relact
Oil and Gas Privacy Notice: The Office of Oil and Gas processes your personal in personal information may be disclosed to other State a	formation, such as name, address and telepho	one number, as part of our regulatory duties. Your

or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you

have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6RW Well Location Restriction Waiver

EXHIBIT A

SHR37HSM

Operator Well No.

SHR37DHSM

SHR37EHSM

SHR37FHSM

SHR37GHSM

SHR37HHSM

SHR371HSM - 47-095-02464

SHR37KHSM

SHR37LHSM

SHR37MHSM

SHR37NHSM

SUCCUNICALIC

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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WV Department of Environmental Protection

Savanah Smilack Campbell Development 2006 E Carson Street PITTSBURGH, PA 15203-190

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

Instructions to Persons Named on Page WW-6A

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

Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

State:	the well plat, all for proposed well work on the tra		Easting	513310.95	
County:	Tyler Centerville	IIIM NADX	Northing:	4355993.94	
District:		Public Road Access: Generally used farm name:		Duckworth Ridge Road	
Quadrangle:	West Union			CNX Gas Company	
Watershed:	Middle Island Creek				
riease check	the box that applies	1	OR EXECUT	ION BY A NATURAL PERSON	
		11.3	CAR HX HC LIL	II DIN BEV A IN A LI DE AL DE BRESTIN	
	0.00000				
■ SURFA	CE OWNER	S	Signature:		
■ SURFA	0.00000	S	lignature: Print Name:		
■ SURFA	CE OWNER CE OWNER (Road and/or Other Disturbance)	S F I	Signature: Print Name: Date:		
■ SURFAC	CE OWNER CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits)	S F I	Signature: Print Name: Date: FOR EXECUT	ION BY A CORPORATION, ETC.	
SURFAC	CE OWNER CE OWNER (Road and/or Other Disturbance)) S F I	Signature: Print Name: Date:	ION BY A CORPORATION, ETC. is Company, LLC	
SURFACE SURFACE SURFACE COAL C	CE OWNER CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits)	S F I	Signature: Print Name: Date: FOR EXECUT Company: CNX Ge	ION BY A CORPORATION, ETC. ss Company, LLC	
SURFACE SURFACE SURFACE COAL COAL COAL COAL COAL COAL COAL COAL	CE OWNER CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits) OWNER OR LESSEE	S F I	Signature: Print Name: Date: FOR EXECUT Company: CNX Ga By: Erika Whetstone	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 shr37ihsm 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.

Very Truly Yours,

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

Hay K. Clayton

Cc: Shannon Miller

CNX Gas Company, LLC

CH, OM, D-6

File

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WV Department of Environmental Protection

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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CNX RESOURCES CORPORATION

SHIRLEY 37 WELL PAD AS-BUILT

ENTRANCE LOCATION

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

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





LOCATION MA

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



Know what's below.
Call before you dig.

WVDEP OOG

ACCEPTED AS-BUILT

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

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SHEET INDEX

DRAWING NAME

COVER SHEET
PLAN VIEW
PLAN VIEW WITH ORTHO

ACCESS ROAD PROFILE

