

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

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Wednesday, January 29, 2020 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

CNX GAS COMPANY LLC 1000 CONSOL ENERGY DR

CANONSBURG, PA 15370

Re:

Permit Modification Approval for SHR 37 IHSM

47-095-02664-00-00

Modified Well Bore Design and Length of Lateral for TMD of 22,205'

CNX GAS COMPANY LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Operator's Well Number: SHR 37 IHSM

Farm Name: CNX GAS COMPANY

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

Horizontal 6A New Drill

Date Modification Issued: January 29, 2020

Promoting a healthy environment.

API NO. 47-	<u> </u>	೦೩	664	MO()
	OR WELL			
Well Pa	d Name:	SHR37	7	

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

) Well Operator: CNX Gas C	Company, LLC	494458046	Tyler	Centervil	West Union
-		Operator ID	County	District	Quadrangle
2) Operator's Well Number: SF	HR37IHSM	Well P	ad Name: SHI	R37	
B) Farm Name/Surface Owner:	CNX Gas Compar	y LLC Public Ro	oad Access: D	uckworth Rid	ge Road
4) Elevation, current ground:	828' El	levation, propose	d post-construc	etion: 828'	
5) Well Type (a) Gas Other	X Oil _	Un	derground Stor	age	
(b)If Gas Sha	ıllow X	Deep			
Hor	rizontalX				
6) Existing Pad: Yes or No	Yes		_	DMY	1/17/20
7) Proposed Target Formation(s), Depth(s), Antic	cipated Thickness	and Expected	Pressure(s):	
Target formation is Marcellus S	Shale @ 6290'-633	37' TVD, 47' thick,	expected forma	ation pressure	~4000 psi
3) Proposed Total Vertical Dept	h: 6302'				
) Formation at Total Vertical D		s Shale (will not	penetrate Ond	ondaga)	
0) Proposed Total Measured D	epth: 22,205'		-		
1) Proposed Horizontal Leg Le	ength: 14,785'				
2) Approximate Fresh Water S	trata Depths:	92', 126', 144',	148', 150', 17	7 6', 220'	
13) Method to Determine Fresh	Water Depths:	Offset water wel	l information		
4) Approximate Saltwater Dep		3'			
15) Approximate Coal Seam De	pths: No minea	ble coal seams;	trace @ 154',	526', 618', 9	55', 992', 1044'
16) Approximate Depth to Poss				-	
 Does Proposed well location directly overlying or adjacent to 		ms Yes	N	lo	X
(a) If Yes, provide Mine Info:	Name:				
	Depth:				
	Seam:				
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OPERATOR WELL NO. SHR37IHSM

Well Pad Name: SHR37

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	L/S	<94.0	100	100	96 / CTS
Fresh Water	13.375	New	J-55	54.5	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	22,205	22,205	4559 / TOC @ 2100'
Tubing	2.375	New	J-55	4.7		TBD	N/A
Liners	N/A						

DMH 1/17/20

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

PACKERS

Kind:	N/A		
Sizes:			
Depths Set:			

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WW-6B	
(10/14)	

API NO. 47- <u>995</u> - 02664
OPERATOR WELL NO. SHR37IHSM
Well Pad Name: SHR37

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

Utilize conductor rig to set 20" conductor into solid rock and cement back to surface. MIRU drilling rig. Air drill 17-1/2" hole. Run and cement 13-3/8" fresh water casing. Note that there are no known mineable coal seams in this area. Air drill 12-1/4" hole. Run and cement 9-5/8" intermediate casing. Air drill 8-3/4" production hole to curve KOP (this section is typically directionally drilled with a slant/tangent profile for anti-collision and for lateral spacing). Displace hole with 12.0-12.8 ppg SOBM. Drill 8-1/2" curve from KOP to landing point. Continue drilling 8-1/2" lateral to TD (geosteer this section to remain in Marcellus target window). Perform clean-up cycle to condition well. Run and cement 5-1/2" production casing. Suspend well and skid to next well or RDMO drilling rig.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Run CBL to ~60 degrees in the curve and back to surface to determine production casing TOC. Test production casing and toe prep well. MIRU stimulation/hydraulic fracturing equipment. Fracture well by pumping required number of stages utilizing plug-and-perf method. Max anticipated treating pressure is ~11,000 psi and max anticipated treating pump rate is ~100 bpm. Number of stages and stage spacing to be finalized after drilling. After last stimulation stage, drill out frac plugs and clean-out well to PBTD. Flow back and clean-up well. Tie well into production. Run tubing when required.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 8.5
- 22) Area to be disturbed for well pad only, less access road (acres): 8
- 23) Describe centralizer placement for each casing string:

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

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

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

25) Proposed borehole conditioning procedures:

Air sections are typically vertical holes - will ensure the hole is clean at section TD prior to TOOH to run casing (may require mist and/or soap to clean the hole). For the production hole - once at TD, circulate at max flowrate with max rotation until the shakers clean-up (typically requires multiple bottoms-up). For the production casing - once on bottom with casing, circulate a minimum of one hole volume prior to pumping cement.

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*Note: Attach additional sheets as needed.



DRILLING WELL PLAN SHR-37I-HSM (Marcellus HZ) **Marcellus Shale Horizontal**

WV Department of Environmental Protection

Tyler County WV

										unty, WV						
						SH	R-37I-H	SM SHL	N 313	3605.21, E 1619480.	.01 (NAD27)					
Groui	nd Elevation		828 GL E	levation		SI	HR-37I-H	ISM LP	N 314429.2, E 1621361.84 (NAD27)							
A	zimuth		341	٥	SHR-37I-HSM BHL				N 328523.27, E 1616905.473 (NAD27)							
WELL	BORE DIAGRAM	HOLE	CASING	GEOLOGY	MD	TVD	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS					
10 SS 105 5 40 SS 105 6 40 SS 105	80 30 30 30 80 30 90 30 80 30 30 30	24"	20" L/S	Conductor	100	100	AIR	To Surface	N/A	N/A	Stabilize surface fill/soil					
5 500 600 5 500 600 6 500 600 5 500 600				Shallowest Fresh Water		92		15.6 ppg Class A + 1% to 3% CaCl2	Centralize every other joint from shoe to	Casuma the help is along at	Set through fresh water zones Cemented to surface					
6 100 100 5 100 100 6 100 100 6 100 100	** ** ** ** ** ** ** ** **	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	No known mineable coal seams					
1 200 100 100 100 100 100 100 100 100 10			Fresh Water Casing	400	400		TOC @ surface									
385	100 E			No mineable coal zones		N/A										
300 300				Big Lime		1683					Set through potential salt water					
100 mm m		9-5/8" 36.0# J-55 LTC	Big Injun		1748	k:	15.6 ppg Class A + 0% to 2% CaCl2 + 1/4 pps Flake 20% OH Excess Yield = 1.19	Centralize every 3rd joint from shoe to surface	Soap the hole as needed and ensure the hole is clean at section TD	zones Cemented to surface Casing to be set below the Big Injun and Berea and into Devonian						
	12-1/4"		Price		1888	AIR /										
	12-1/4		Weir	21	2018	8 Soap										
100 DHI	965 DEC DEC DEC DEC DE			Berea	2238		TOC @ surface	Bow spring centralizers		Shale						
100 (00)	1887 East 18							-	Gordon		2458					
700 (MI)	100 M			Intermediate Casing	2600	2600										
1000	200			Warren		3153		-								
9061	100	0.0(4)		Benson		4733		45 O man Class A or H								
1000	1000	8-3/4" Tangent		Alexander		4978	AIR	15.0 ppg Class A or H with additives (retarder,		Once at TD, circulate at max flowrate with max rotation						
1000	288 248			Cashaqua		5978		suspension agent, gas block, defoamer, fluid	Centralize every joint	until shakers clean-up	Note: Actual centralizer placeme may be changed due to hole					
206E	INST NAS		E 4/01/20 0#	Middlesex		6083	-	loss, extender, etc.)	from shoe to TOC	(typically requires multiple bottoms-up)	conditions					
1000	LIDES I		5-1/2" 20.0# P-110 VAR	West River		6123		10% OH Excess	Single-piece/rigid bow		Note: Actual cement blends ma					
1888 1880	1865 1865			Burkett		6193		Yield = 1.10	centralizers	Once on bottom with casing, circulate a minimum of one	vary slightly depending upon					
100E	100 P	8-1/2" Curve		Tully	1	6223	12.0-12.8	TOC @ >= 500' above		hole volume prior to	service company utilized					
1985 1997	200	& Lateral		Hamilton		6243	ppg SOBM	9-5/8" shoe		pumping cement						
1000 2000	100			Marcellus		6261			11							
2000	1065		1 2 2	Production Casing	22205	6302										

5-1/2" 20.0# VA-EP-P110-NY VAR (115-125 MYS, 95% RBW, API Modified BTC)



SHR37 Pad Frac - SOG Review

In accordance with WVDEP 35CSR8 Section 5.11, all known shallow oil and gas (SOG) wells have been identified within a 500' radius of the SHR37 pad. Any SOG well that falls within the Area of Review (AOR) has been reviewed and is provided in a list that includes API, Operator, Well Name, Well Number, Current Status, Total Depth, and Producing Formation at Total Depth. See following pages, including (Figures 3 and 4).

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

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

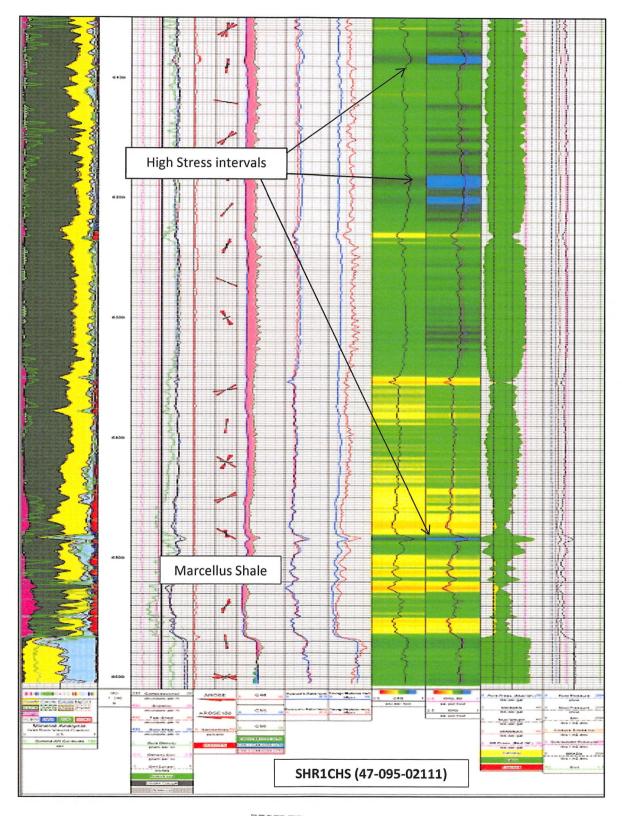
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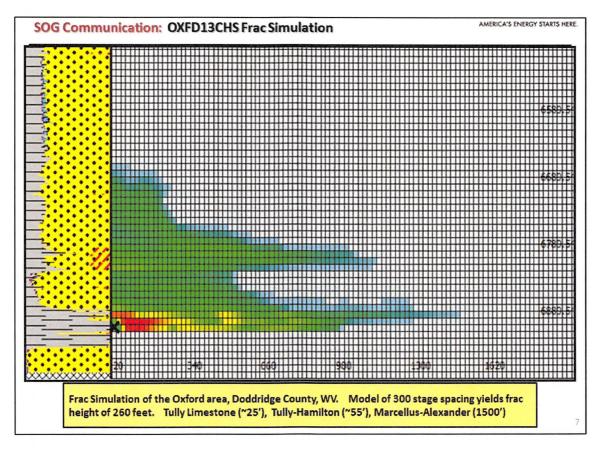
Figure 1. Stratigraphic intervals of high stress should serve as adequate confining layers, or frac barriers, for a Marcellus frac, seen below in the SHR1C Stress Profile log.



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

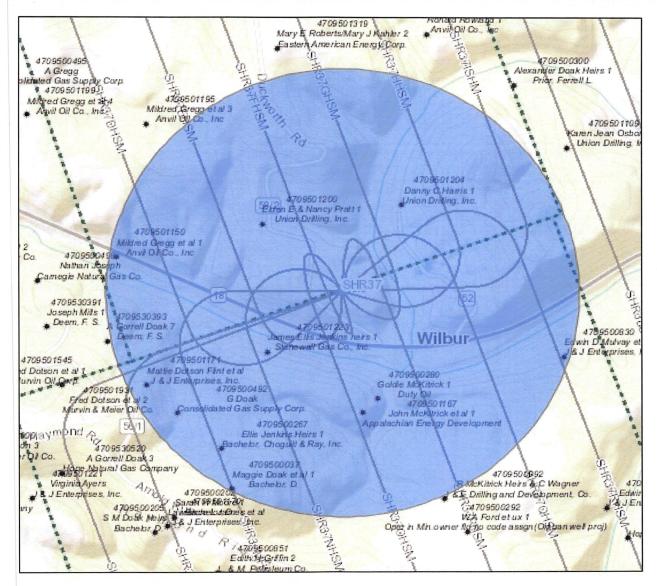


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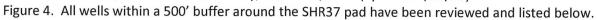
Figure 3. All wells within a 2640' buffer around the SHR37 pad center have been reviewed and listed below.

API	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		1	5014	Benson	960	Wilbur	Ground Level
4709501200	WV	Tyler	39.35527799	-80.84883573	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/Moundsvie	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/Moundsvle	1109	Wilbur	Field Topo Mar
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			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



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	Current Operator		Formation At TD						Longitude - WGS
4701700014	RITCHIE PETROLEUM CORPORATION, INC.	OIL & GAS	UNKNOWN	ACTIVE	1845	WV	DODDRIDGE	39.3229649	-80.8436159
701700022	DOMINION ENERGY TRANSMISSION, INC.	OTHER	UNKNOWN	P & A	2682	WV	DODDRIDGE	39.3203517	-80.8449222
	EQUITRANS	OTHER	UNKNOWN	P & A	1916	WV	DODDRIDGE	39.3322544	-80.8327488
701700205	EQUITRANS	OTHER	UNKNOWN	P & A	1006	WV	DODDRIDGE	39.3322544	-80.8308819
701701065	OPERATOR UNKNOWN	OTHER	UNKNOWN	ABANDONED	1985	wv	DODDRIDGE	39.3186779	-80.8392126
	PRIOR FERRELL L	OTHER	BIG INJUN (UNDIFF)		1792	WV	DODDRIDGE		
	PRIOR FERRELL L	OTHER	UNKNOWN	P & A				39.3211626	-80.8389134
	PRIOR FERRELL L DBA PRIOR OIL COMPANY	UNKNOWN			2553	WV	DODDRIDGE	39.324763	-80.8347575
			UNKNOWN	EXPIRED PERMIT		WV	DODDRIDGE	39.3220957	-80.8340947
701701092	OPERATOR UNKNOWN	OTHER	UNKNOWN	P & A	1865	WV	DODDRIDGE	39.3213126	-80.8411277
701702356	RITCHIE PETROLEUM CORPORATION, INC.	GAS	UNKNOWN	ACTIVE	2303	WV	DODDRIDGE	39.3295394	-80.837148
701702359	RITCHIE PETROLEUM CORPORATION, INC.	GAS	UNKNOWN	ACTIVE	2300	WV	DODDRIDGE	39.3369214	-80.8317096
701702514	RITCHIE PETROLEUM CORPORATION, INC.	GAS	UNKNOWN	ACTIVE	2380	WV	DODDRIDGE	39.327098	-80.8369077
701702787	GREYLOCK OPCO LLC	GAS	UNKNOWN	ACTIVE	5070	WV	DODDRIDGE	39.3232053	-80.8401779
701702964	GREYLOCK OPCO LLC	GAS	UNKNOWN	ACTIVE	5267	WV	DODDRIDGE	39.3262395	-80.8351821
701703018	GREYLOCK OPCO LLC	GAS	UNKNOWN	ACTIVE	5305	wv	DODDRIDGE	39.3393777	-80.831069
701703249	GREYLOCK OPCO LLC	GAS	UNKNOWN	ACTIVE	5363	WV	DODDRIDGE		
701703249								39.3350237	-80.831069
	ALLIANCE PETROLEUM CORPORATION	GAS	UNKNOWN	ACTIVE	5321	WV	DODDRIDGE	39.3223853	-80.8318152
701703559	ALLIANCE PETROLEUM CORPORATION	GAS	RILEY	ACTIVE	4951	WV	DODDRIDGE	39.3369107	-80.8355887
701703586	DOMINION APPALACHIAN DEVELOPMENT, INC.	GAS	UNKNOWN	ACTIVE		WV	DODDRIDGE	39.3336081	-80.8392751
701703829	ALLIANCE PETROLEUM CORPORATION	OTHER	RILEY	ACTIVE	5150	WV	DODDRIDGE	39.3337178	-80.8391352
701703859	HARPER CROSBY HOLDINGS	GAS	RILEY	ACTIVE	5091	WV	DODDRIDGE	39.3260132	-80.8288283
701704123	KEY OIL	OTHER	RILEY	ACTIVE	5436	WV	DODDRIDGE		
								39.3278993	-80.8410025
	KEY OIL	OTHER	RILEY	ACTIVE	5216	WV	DODDRIDGE	39.3247062	-80.8466018
	KEY OIL	OTHER	RILEY	ACTIVE	5375	WV	DODDRIDGE	39.3212234	-80.8438019
01704160	KEY OIL	OTHER	RILEY	ACTIVE	5320	WV	DODDRIDGE	39.3309476	-80.8306959
01704161	KEY OIL	OTHER	RILEY	ACTIVE	5336	WV	DODDRIDGE	39.3296416	-80.8361488
	KEY OIL	OTHER	RILEY	ACTIVE	5532	WV	DODDRIDGE	39.3300761	-80.845482
01704186	RITCHIE PETROLEUM CORPORATION, INC.	GAS	UNKNOWN	ACTIVE	0000	WV	DODDRIDGE	39.3258676	-80.8411893
701704200	MURVIN&MEIER OIL	OTHER	RILEY	ACTIVE	5350	WV			
					5350		DODDRIDGE	39.3199177	-80.8359615
701704570	BLACKROCK ENTERPRISES, LLC	OTHER	UNKNOWN	ACTIVE		WV	DODDRIDGE	39.3186111	-80.839135
701706872	ANTERO RESOURCES	GAS	MARCELLUS	INACTIVE		WV	DODDRIDGE	39.3199976	-80.8351167
701730056	HOPE NATURAL GAS COMPANY	GAS	UNKNOWN	INACTIVE	1800	WV	DODDRIDGE	39.3338336	-80.834296
701730101	DEEM, F S	OIL & GAS	UNKNOWN	INACTIVE	1880	WV	DODDRIDGE	39.3321917	-80.834296
01730102	DEEM, F S	OIL & GAS	UNKNOWN	INACTIVE	1987	WV	DODDRIDGE	39.3321916	-80.8372841
	HOPE NATURAL GAS COMPANY	GAS	BIG INJUN (UNDIFF)		1930	WV	DODDRIDGE	39.3326267	-80.8310949
701730182	(N/A)	OIL & GAS	BIG INJUN (UNDIFF)		1899	WV	DODDRIDGE	39.3191277	-80.8419502
701730277	HOPE CONSTRUCTION & REFINING	OIL & GAS	UNKNOWN	INACTIVE	1978	WV	DODDRIDGE	39.3274055	-80.8475533
701730286	CLIFTON OIL & GAS	OIL & GAS	UNKNOWN	INACTIVE	2142	WV	DODDRIDGE	39.3392456	-80.8321969
701730335	JJ GRAHAM AGT ET AL	OIL	UNKNOWN	INACTIVE	1795	WV	DODDRIDGE	39.3213047	-80.8397092
701730443	CLIFTON OIL & GAS	OIL & GAS	UNKNOWN	INACTIVE	1882	WV	DODDRIDGE	39.3185597	-80.8423242
701730949	DROPPLEMAN, J. P.	OIL & GAS	BIG INJUN (UNDIFF)		2012	WV	DODDRIDGE	39.3236266	-80.8466163
701731194	HICKMAN, CHARLES L.	OIL & GAS	BIG INJUN (UNDIFF)		1973	WV	DODDRIDGE	39.3268197	-80.8389621
		UNKNOWN	UNKNOWN	INACTIVE	1975	WV	DODDRIDGE	39.3184017	-80.8441893
701770063	CARTER RESOURCES								
	(N/A)	UNKNOWN	UNKNOWN	INACTIVE		WV	DODDRIDGE	39.3230466	-80.8434432
	LUCAS ENERGY	UNKNOWN	UNKNOWN	INACTIVE		WV	DODDRIDGE	39.3231918	-80.8372831
701771428	(N/A)	UNKNOWN	UNKNOWN	INACTIVE		WV	DODDRIDGE	39.3259496	-80.8408302
701771429	(N/A)	UNKNOWN	UNKNOWN	INACTIVE		WV	DODDRIDGE	39.3253686	-80.8456833
701771430	(N/A)	UNKNOWN	UNKNOWN	INACTIVE		WV	DODDRIDGE	39.3255135	-80.8471763
01771431	(N/A)	UNKNOWN	UNKNOWN	INACTIVE		WV	DODDRIDGE	39.3297235	-80.8441902
01771431	The state of the s		UNKNOWN	INACTIVE		WV	DODDRIDGE	39.3310297	-80.835416
	HOPE NATURAL GAS COMPANY	UNKNOWN							-80.835416 -80.8389621
01771434	HOPE NATURAL GAS COMPANY	UNKNOWN	UNKNOWN	INACTIVE		WV	DODDRIDGE	39.3329156	
	HOPE NATURAL GAS COMPANY	UNKNOWN	UNKNOWN	INACTIVE		WV	DODDRIDGE	39.3374266	-80.833176
	(N/A)	UNKNOWN	UNKNOWN	INACTIVE		WV	DODDRIDGE	39.3371367	-80.8295899
01771438	(N/A)	UNKNOWN	UNKNOWN	INACTIVE		WV	DODDRIDGE	39.3303037	-80.83295
01771439	BRADWATER	UNKNOWN	UNKNOWN	INACTIVE		WV	DODDRIDGE	39.3282718	-80.8301499
		UNKNOWN	UNKNOWN	INACTIVE		WV	DODDRIDGE	39.3213059	-80.83295
01771448		UNKNOWN	UNKNOWN	INACTIVE		WV	DODDRIDGE	39.3208698	-80.8393361
					1193	WV	TYLER	39.347214	-80.8497754
	BACHELOR, D.	DRY HOLE	UNKNOWN	P & A	1193				
09500044		UNKNOWN	UNKNOWN	ABANDONED		WV	TYLER	39.393234	-80.8556028
	OPERATOR UNKNOWN	OTHER	UNKNOWN	P & A	1096	WV	TYLER	39.3463571	-80.8519428
09500205	OPERATOR UNKNOWN	OTHER	UNKNOWN	P & A	1100	WV	TYLER	39.3458859	-80.8526667
09500220	OPERATOR UNKNOWN	OTHER	UNKNOWN	P & A	2605	WV	TYLER	39.3862547	-80.8537593
09500267	OPERATOR UNKNOWN	OTHER	UNKNOWN	P & A	1103	WV	TYLER	39.3484625	-80.8501812
09500280	APPALACHIAN ENERGY DEV INC	OTHER	UNKNOWN	P&A	945	WV	TYLER	39.3499714	-80.8443623
				ABANDONED		WV	TYLER	39.339544	-80.8470556
09500288		OTHER	UNKNOWN		1849				
	FLO-WELL INC	UNKNOWN	UNKNOWN	ABANDONED	1	WV	TYLER	39.345894	-80.841014
09500300	PRIOR FERRELL L	OTHER	BIG INJUN (UNDIFF)	P & A	1836	WV	TYLER	39.359597	-80.839243
		OTHER	UNKNOWN	P & A	1900	WV	TYLER	39.3837867	-80.8626716
709500400		OTHER	UNKNOWN	P & A	2610	WV	TYLER	39.3779944	-80.8602773
	OPERATOR UNKNOWN	OTHER	UNKNOWN	P&A	6816	WV	TYLER	39.3665725	-80.8510097
			UNKNOWN	P&A	2052	WV	TYLER	39.376834	-80.8589688
	APPALACHIAN ENERGY DEV INC	OTHER							
709500492	ROSS&WHARTON GAS CO	OTHER	UNKNOWN	P&A	1916	WV	TYLER	39.349536	-80.8518293
09500495	ALLIANCE PETROLEUM	OIL	2ND SALT SAND	ACTIVE	1206	WV	TYLER	39.3595508	-80.8585497
	MURVIN&MEIER OIL	OTHER	UNKNOWN	P & A		WV	TYLER	39.3536001	-80.8570563

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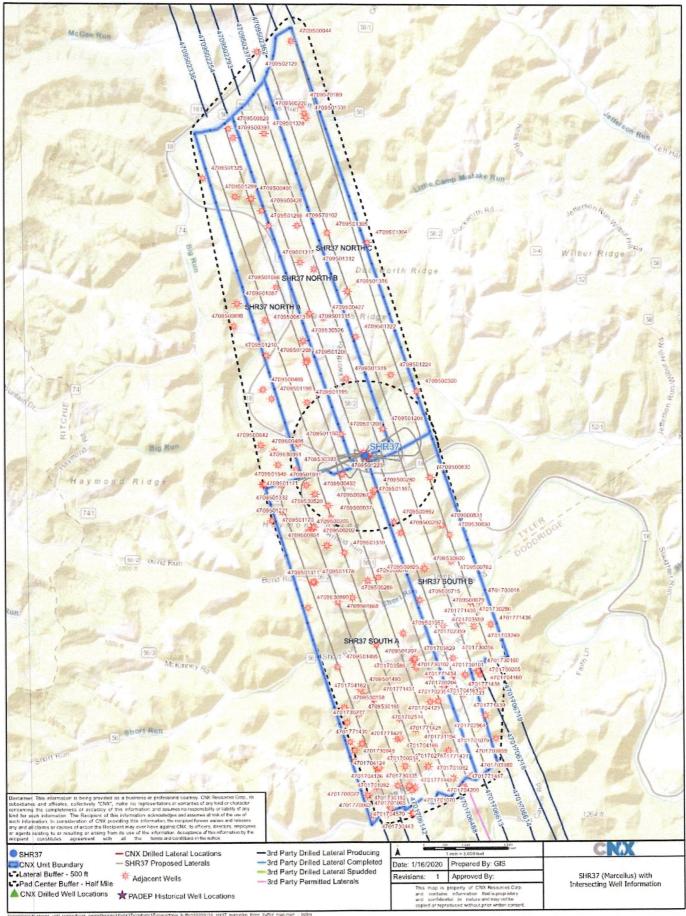


4709500676 RITCHIE PETROLEUM CORPORATION, INC. GAS UNKNOWN ACTIVE 2313 WY TYLER 47095007679 RITCHIE PETROLEUM CORPORATION, INC. GAS UNKNOWN ACTIVE 2313 WY TYLER 4709500767 INDUSTRIAL GAS/FRONTER ENERGY CO. OTHER UNKNOWN ABANDONED 948 WY TYLER 4709500873 TRIAD HUNTER GAS UKRNOWN ACTIVE 5100 WY TYLER 4709500820 TRIAD HUNTER OIL RILEY ABANDONED 5337 WY TYLER 4709500831 GREYLOCK OPCO LLC OTHER BENSON ACTIVE 5136 WY TYLER 4709500831 GREYLOCK OPCO LLC GAS UNKNOWN ACTIVE 5512 WY TYLER 4709500851 TRIAD HUNTER GAS RILEY ACTIVE 4868 WY TYLER 4709500952 GREYLOCK OPCO LLC GAS UNKNOWN ACTIVE 4952 WY TYLER 4709500952 GREYLOCK OPCO LLC GAS UNKNOWN ACTIVE 4952 WY TYLER	39.3402834 39.3393776 43.3933776 43.3933776 43.39.341566 39.3431566 39.3462713 39.3512684 43.39.3512684 43.346016 39.3446016 39.3446016 39.34460179 39.3654203 39.3469179 43.3694203 43.3469529 43.35643263 43.3460529 43.3563896 43.39.346529 43.3553421 43.3553236 43.39.346529 39.3563896 43.39.346529 39.3563896 43.39.346529 39.3563896 43.39.3553421 39.3553421 39.3559236 39.3559236 39.3559228 39.35622843 39.3622843 39.3628889 43.39.3468242 39.351423	80.8451244 -80.8355263 -80.8355263 -80.8385757 -80.8346469 -80.8583621 -80.8532702 -80.8532702 -80.8532894 -80.8587358 -80.8503357 -80.8622823 -80.8437997 -80.8418798 -80.8570554 -80.859191 -80.8540697 -80.8449227 -80.8519097 -80.8529492 -80.8529492 -80.8529492 -80.8532492 -80.8532492 -80.8532492 -80.85329497 -80.8531111 -80.8434287 -80.8531111 -80.8439894 -80.8529488
\$709500715 INDUSTRIAL GAS/FRONTIER ENERGY CO. OTHER	39.3431766 39.3431566 49.3431566 49.3431566 49.3662267 39.3846713 49.3512684 49.346632 49.3541806 49.346632 49.3446016 49.346616 49.34664203 49.3416338 49.3469179 49.3694203 49.3543263 49.3543263 49.3543263 49.354069 49.3543263 49.3566799 49.35563242 49.3559236 49	80.8385757 80.8346469 80.8583621 80.8583621 80.8583621 80.8583621 80.858358294 80.858358294 80.858357 80.8622823 80.8418798 80.8570554 80.862191 80.8549292 80.8549297 80.8522022 80.85359497 80.8529492 80.8539497 80.8534949
\$709500715 INDUSTRIAL GAS/FRONTIER ENERGY CO. OTHER	39.3431766 39.3431566 49.3431566 49.3431566 49.3662267 39.3846713 49.3512684 49.346632 49.3541806 49.346632 49.3446016 49.346616 49.34664203 49.3416338 49.3469179 49.3694203 49.3543263 49.3543263 49.3543263 49.354069 49.3543263 49.3566799 49.35563242 49.3559236 49	80.8385757 80.8346469 80.8583621 80.8583621 80.8583621 80.8583621 80.858358294 80.858358294 80.858357 80.8622823 80.8418798 80.8570554 80.862191 80.8549292 80.8549297 80.8522022 80.85359497 80.8529492 80.8539497 80.8534949
\$709500782 BRAXTON OLLGGAS GAS UNKNOWN ACTIVE 5100 WV TYLER \$709500813 TRIAD HUNTER OIL RILEY ABANDONED 5337 WV TYLER \$709500830 GREYLOCK OPCO LLC OTHER BENSON ACTIVE 5136 WV TYLER \$709500831 GREYLOCK OPCO LLC GAS UNKNOWN ACTIVE 5512 WV TYLER \$709500842 TRIAD HUNTER GAS RILEY ACTIVE 4868 WV TYLER \$709500842 TRIAD HUNTER GAS UNKNOWN ACTIVE 4868 WV TYLER \$709500842 TRIAD HUNTER GAS UNKNOWN ACTIVE 4868 WV TYLER \$709500851 TRIAD HUNTER GAS UNKNOWN ACTIVE 48952 WV TYLER \$709500985 TRIAD HUNTER GAS UNKNOWN ACTIVE 48952 WV TYLER \$709500982 GREYLOCK OPCO LLC GAS UNKNOWN ACTIVE 5428 WV TYLER \$709500982 GREYLOCK OPCO LLC GAS UNKNOWN ACTIVE 5428 WV TYLER \$709500982 GREYLOCK OPCO LLC GAS UNKNOWN ACTIVE 5666 WV TYLER \$709501086 ALLIANCE PETROLEUM CORPORATION GAS UNKNOWN ACTIVE 5666 WV TYLER \$709501086 ALLIANCE PETROLEUM CORPORATION GAS UNKNOWN ACTIVE 5686 WV TYLER \$709501087 ALLIANCE PETROLEUM CORPORATION GAS UNKNOWN ACTIVE 5833 WV TYLER \$709501160 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4795 WV TYLER \$709501161 TRIAD HUNTER GAS RILEY ACTIVE 5469 WV TYLER \$709501171 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5469 WV TYLER \$709501173 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5469 WV TYLER \$709501173 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5578 WV TYLER \$709501173 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5490 WV TYLER \$709501173 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5491 WV TYLER \$709501173 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4991 WV TYLER \$709501173 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4992 WV TYLER \$709501204 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4992 WV T	39.3431566 39.3662267 43.39.3846713 39.3512684 39.3541806 439.3541806 439.3541806 439.3541806 439.3541807 469179 439.3694203 439.3694203 439.3678232 439.3543263 439.369529 439.3543263 439.3553421 439.3559236 439.3568799 439.3559226 439.3559226 439.3559226 439.3559226 439.3628889 439.3628889 439.3628889 439.3628889 439.3628889 439.3628889 439.3628889 439.3628889 439.3628889 439.3628889 439.3628889 439.3628889 439.3628889 439.3628889 439.3628889 439.3628889 439.3628889 439.3628889 439.3552424 439.351423	80.8346469 80.8583621 80.8632702 80.8632702 80.8632702 80.8632708 80.85358294 80.8587358 80.850357 80.8622823 80.8437997 80.8418798 80.8570554 80.85191 80.8540697 80.8540697 80.8549227 80.8519097 80.8520422 80.8529492 80.8529492 80.85329492 80.85329492 80.85381911 80.853994 80.853994
\$\frac{1}{4709500813} TRIAD HUNTER	39.3662267 39.3846713 43.39.3512684 39.3466032 39.3541806 39.3446016 43.39.3446016 43.39.3469179 43.39.3469179 43.39.3469223 44.39.35543263 45.39.349536 45.39.349536 46.39.349536 47.39.35543263 48.39.35543263 49.35543263 49.35543263 49.35543263 49.35543263 49.35543263 49.35543263 49.35543263 49.3556236 49.356622 49.355622 49.355622 49.355622 49.355622 49.355622 49.355622	80.8583621 80.8632702 80.8374086 80.8374086 80.8358294 80.8587358 80.8503357 80.8622823 80.8437997 80.8418798 80.8570554 80.85191 80.8540697 80.8549697 80.852022 80.8529492 80.8529492 80.8529492 80.85344928 80.8534949 80.8534949 80.8534949 80.8534949 80.8534949 80.8534949 80.8534949 80.8534948
\$\frac{4}{7}\text{09500820} TRIAD HUNTER	39.3846713 39.3512684 43.93.3512684 43.93.346832 43.93.3468166 43.93.3416016 43.93.3415338 43.93.3469179 43.93.3694203 43.93.3678232 43.93.340529 43.93.3504069 43.93.3505386 43.93.3563896 43.93.93.93.93.93.93.93.93.93.93.93.93.93	.80.8632702 .80.8374086 .80.8358294 .80.8587358 .80.8503357 .80.8622823 .80.8418798 .80.8418798 .80.8570554 .80.86191 .80.85191 .80.852022 .80.8522022 .80.8522022 .80.8529497 .80.8529492 .80.8529492 .80.853449 .80.853449 .80.8539494 .80.8531111 .80.8434287 .80.8531111 .80.8439894 .80.8529488
\$709500830 GREYLOCK OPCO LIC	39.3512684 39.346632 439.346632 439.346636 4639.3416306 4639.3415338 439.3469179 4739.3694203 489.3694203 49.3543263 49.3543263 49.3543263 49.3460529 49.35543263 49.3554263 49.3554263 49.3554263 49.3555236 49.3555236 49.3555236 49.3555228 49.3622543 49.3555228 49.3624535 49.3628889 49.3628889 49.3628889 49.3628889 49.3554242 49.3554242 49.3554242	80.8374086 80.8358294 80.8587358 80.8507357 80.8622823 80.8417997 80.841798 80.8570554 80.8570554 80.85191 80.8540697 80.8549227 80.8522022 80.8529497 80.8529492 80.8529492 80.8534994 80.8534111 80.8434287 80.8434287 80.8531111 80.843994 80.8529488
\$709500830 GREYLOCK OPCO LLC	39.3512684 39.346632 439.346632 439.346636 4639.3416306 4639.3415338 439.3469179 4739.3694203 489.3694203 49.3543263 49.3543263 49.3543263 49.3460529 49.35543263 49.3554263 49.3554263 49.3554263 49.3555236 49.3555236 49.3555236 49.3555228 49.3622543 49.3555228 49.3624535 49.3628889 49.3628889 49.3628889 49.3628889 49.3554242 49.3554242 49.3554242	80.8374086 80.8358294 80.8587358 80.8507357 80.8622823 80.8417997 80.841798 80.8570554 80.8570554 80.85191 80.8540697 80.8549227 80.8522022 80.8529497 80.8529492 80.8529492 80.8534994 80.8534111 80.8434287 80.8434287 80.8531111 80.843994 80.8529488
\$709500813 GREYLOCK OPCO LLC GAS	39.346632 39.3541806 43.39.3446016 43.9.3656466 439.3415338 43.3469179 439.3694203 39.3694203 39.3678232 39.3543263 39.349536 439.349536 439.356329 439.35634969 439.35634969 439.35634969 439.3563496	80.8358294 80.6587358 80.8503357 80.8602823 80.8437997 80.8418798 80.85191 80.85191 80.8540697 80.852022 80.8522022 80.85229497 80.8519097 80.85486553 80.8434287 80.8531111 80.853994 80.85434287 80.8531111 80.8439894 80.8529488
\$709500842 TRIAD HUNTER	39.3541806 39.3446016 43.39.3656466 43.93.3415338 39.3469179 43.93.694203 43.93.543263 43.349536 43.349536 43.349536 43.35582896 43.35582896 43.35582896 43.3558236 43.3558226 43.355826 43.355826 43.355826 43.355826 43.355826 43.355	80.8587358 80.8503357 80.8602823 80.8437997 80.8418798 80.8570554 80.85191 80.8540697 80.8549222 80.8522022 80.8529497 80.8529492 80.8529492 80.8534949 80.8534949 80.8531111 80.8486553 80.8434287 80.8531111 80.843994 80.8529488
\$709500895	39.3446016 39.3656466 439.3656466 439.3415338 39.3469179 49.3694203 39.3678232 49.3543263 39.349536 39.3460529 49.3540069 39.341035 39.3563896 49.3555421 39.3559236 39.3559236 39.3559236 39.3622543 39.3622543 39.3622848 39.3628889 49.39.3628889	.80.8503357 .80.8622823 .80.8437997 .80.8418798 .80.8570554 .80.85191 .80.8540697 .80.8549222 .80.8522022 .80.8522022 .80.85229497 .80.8529492 .80.8529492 .80.8534949 .80.8534949 .80.8531111 .80.8434287 .80.8531111 .80.843994 .80.8529488
\$709500898 TRIAD HUNTER	39.3656466 39.3415338 43.39.3469179 44.59.3694203 39.3694203 39.3543263 39.346556 39.3460529 39.3504069 39.341035 39.3558421 39.3558421 39.3555236 439.3559236 439.3559236 439.362543 39.3622543 39.3622543 39.3628889 49.3628889 49.3628889 49.3628889 49.3628889 49.3628424 39.351423	.80.8622823 .80.8437997 .80.8418798 .80.8570554 .80.86191 .80.8540697 .80.8542022 .80.8529497 .80.8529497 .80.8519097 .80.8529492 .80.8529492 .80.85344287 .80.8531111 .80.8434287 .80.8531111 .80.8439894 .80.8529488
4709500925 GREYLOCK OPCO LLC GAS UNKNOWN ACTIVE 5428 WV TYLER 47095010960 ALLIANCE PETROLEUM CORPORATION GAS UNKNOWN ACTIVE 5656 WV TYLER 4709501087 ALLIANCE PETROLEUM CORPORATION GAS UNKNOWN ACTIVE 5656 WV TYLER 4709501167 ALLIANCE PETROLEUM CORPORATION GAS UNKNOWN ACTIVE 5833 WV TYLER 4709501167 TRIAD HUNTER GAS RILEY ACTIVE 4795 WV TYLER 4709501170 GREYLOCK OPCO LLC GAS RILEY ACTIVE 5530 WV TYLER 4709501170 GREYLOCK OPCO LLC GAS RILEY ACTIVE 5530 WV TYLER 4709501171 GREYLOCK OPCO LLC GAS RILEY ACTIVE 55469 WV TYLER 4709501178 EQUITABLE PRODUCTION COMPANY UNKNOWN UNKNOWN UNKNOWN WV TYLER 4709501178 EQUITABLE PRODUCTION COMPANY UNKNOWN UNKNOWN UNKNOWN WV TYLER 4709501195 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5578 WV TYLER 4709501200 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4993 WV TYLER 4709501201 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4919 WV TYLER 4709501204 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4919 WV TYLER 4709501205 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4919 WV TYLER 4709501206 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4919 WV TYLER 4709501207 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5066 WV TYLER 4709501208 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5066 WV TYLER 4709501209 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5066 WV TYLER 4709501201 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5066 WV TYLER 4709501202 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5068 WV TYLER 4709501203 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5068 WV TYLER 4709501204 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5068 WV TYLER 4709501205 AL	39.3415338 39.3469179 43.93.6694203 39.3678232 43.93.5643263 39.349536 43.93.3560529 39.341035 43.93.5583896 43.93.5583896 43.93.5583896 43.93.558421 43.93.5559236 43.93.3562254 39.3622543 39.3622543 39.3622543 39.36228889 49.35628889 49.35421 40.39.3550228	-80.8437997 -80.8418798 -80.8570554 -80.8570554 -80.8540697 -80.8549227 -80.8522022 -80.8522042 -80.8529497 -80.8519097 -80.8529492 -80.857429 -80.8486553 -80.8434287 -80.8531111 -80.8439894 -80.8529488
\$709500925 GREYLOCK OPCO LLC	39.3415338 39.3469179 43.93.6694203 39.3678232 43.93.5643263 39.349536 43.93.3560529 39.341035 43.93.5583896 43.93.5583896 43.93.5583896 43.93.558421 43.93.5559236 43.93.3562254 39.3622543 39.3622543 39.3622543 39.36228889 49.35628889 49.35421 40.39.3550228	-80.8437997 -80.8418798 -80.8570554 -80.8570554 -80.8540697 -80.8549227 -80.8522022 -80.8522042 -80.8529497 -80.8519097 -80.8529492 -80.857429 -80.8486553 -80.8434287 -80.8531111 -80.8439894 -80.8529488
\$\frac{4}{709501992} \] GREYLOCK OPCO LLC GAS UNKNOWN ACTIVE 5014 WV TYLER \$\frac{4}{7095010867} \] ALLIANCE PETROLEUM CORPORATION GAS UNKNOWN ACTIVE 5656 WV TYLER \$\frac{4}{7095011950} \] ALLIANCE PETROLEUM CORPORATION GAS UNKNOWN ACTIVE 5656 WV TYLER \$\frac{4}{709501150} \] ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4795 WV TYLER \$\frac{4}{709501170} \] ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4795 WV TYLER \$\frac{4}{709501171} \] ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5530 WV TYLER \$\frac{4}{709501171} \] ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5469 WV TYLER \$\frac{4}{709501171} \] ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5578 WV TYLER \$\frac{4}{709501199} \] ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4993 WV TYLER \$\frac{4}{709501199} \] ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4993 WV TYLER \$\frac{4}{709501200} \] ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4991 WV TYLER \$\frac{4}{709501200} \] ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4999 WV TYLER \$\frac{4}{709501200} \] ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4999 WV TYLER \$\frac{4}{709501200} \] ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4999 WV TYLER \$\frac{4}{709501207} \] ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5056 WV TYLER \$\frac{4}{709501207} \] ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5056 WV TYLER \$\frac{4}{709501207} \] ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5056 WV TYLER \$\frac{4}{709501207} \] ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5056 WV TYLER \$\frac{4}{709501207} \] ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5056 WV TYLER \$\frac{4}{709501207} \] ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5050 WV TYLER \$\frac{4}{709501208} \] ALLIANCE PETROLEUM CORPOR	39.3469179 39.3694203 49.3694203 49.39.3678232 39.349536 49.349536 49.3460529 49.35604069 39.341035 49.3563896 49.39.3563896 49.39.3559236 49.35592236 39.3622543 49.3559228 49.35622889 49.3628889 49.39.3628889	.80.8418798 .80.8570554 .80.85191 .80.8540697 .80.8449227 .80.8522022 .80.8529497 .80.8519097 .80.8529492 .80.857429 .80.8486553 .80.8434287 .80.8531111 .80.843994 .80.8529488
4709501086	39.3694203 39.3678232 43.39.3543263 43.39.3543263 43.3460529 43.3504069 43.3504069 43.35583896 43.3558421 43.3559236 43.3559236 43.3622543 43.3559228 43.3622543 43.3562288 43.3624535 43.3628889 43.3468242 43.9.351423	-80.8570554 -80.86191 -80.8540697 -80.8540697 -80.8522022 -80.8529497 -80.8519097 -80.8519097 -80.852492 -80.85429 -80.8486553 -80.8434287 -80.8531111 -80.8439894 -80.8529488
4709501087	39.3678232 39.3543263 39.349536 43.9.3460529 39.3504069 39.351035 39.3583896 39.3583896 39.3553421 439.3559236 439.3559236 439.3622543 39.3622543 39.3624535 39.3628889 49.3628889 49.351423	.80.86191 .80.8540697 .80.8549627 .80.8529022 .80.8529497 .80.8519097 .80.8519097 .80.8529492 .80.85429492 .80.8486553 .80.8434287 .80.8531111 .80.8439894 .80.8529488
4709501150	39.3543263 39.349536 43.39.3460529 43.3504069 43.3504069 43.35583896 43.35583896 43.35559236 43.35559236 43.3559226 43.3559228 43.3622543 43.350228 43.3628889 43.3628889 43.354242 43.3535424	-80.8540697 -80.8449227 -80.8522022 -80.85229497 -80.8529492 -80.857429 -80.857429 -80.8486553 -80.8434287 -80.8531111 -80.843994 -80.8529488
4709501150	39.349536 39.3460529 39.3504069 49.39.31035 39.35683896 39.35563421 49.39.3559236 39.3622543 39.3622543 39.3624535 39.3624535 39.3624889 49.3468242 39.351423	-80.8449227 -80.8522022 -80.8522022 -80.8519097 -80.8519097 -80.8552492 -80.857429 -80.8486553 -80.8434287 -80.8531111 -80.843994 -80.8529488
4709501167 TRIAD HUNTER	39.349536 39.3460529 39.3504069 49.39.31035 39.35683896 39.35563421 49.39.3559236 39.3622543 39.3622543 39.3624535 39.3624535 39.3624889 49.3468242 39.351423	-80.8449227 -80.8522022 -80.8522022 -80.8519097 -80.8519097 -80.8552492 -80.857429 -80.8486553 -80.8434287 -80.8531111 -80.843994 -80.8529488
4709501171 GREYLOCK OPCO LLC	39.3460529 39.3504069 43.3504035 43.358386 39.3568799 43.93553421 43.93559236 43.93559236 43.935228 43.9350228 43.93624535 43.93624535 43.935228 43.935228 43.935228 43.935228 43.935228 43.935228	-80.8522022 -80.8529497 -80.8519097 -80.852492 -80.857429 -80.8486553 -80.8434287 -80.8531111 -80.8439994 -80.8529488
4709501171	39.3504069 39.341035 439.3583896 439.3586799 39.3553421 439.3559226 439.3622543 49.3622543 49.3624535 39.3624636 49.3628689 49.34689242 39.351423	-80.8529497 -80.8519097 -80.8529492 -80.852429 -80.8486553 -80.8434287 -80.8531111 -80.8439894 -80.8529488
4709501178 EQUITABLE PRODUCTION COMPANY UNKNOWN	39.341035 39.3563896 49.3556799 39.3556421 39.3559236 39.3622543 39.3622543 39.36226889 49.3562888 49.3628889 49.3562888 49.3562888 49.3562888 49.3562888 49.3562888 49.3562888	-80.8519097 -80.8529492 -80.857429 -80.8486553 -80.8434287 -80.8531111 -80.8439894 -80.8529488
4709501195	39.3583896 -4 39.3566799 -4 39.3553421 -4 39.355236 -4 39.3622543 -4 39.3350228 -4 39.3624535 -4 39.3624889 -4 39.3469242 -4 39.351423 -4	-80.8529492 -80.857429 -80.8486553 -80.8434287 -80.8531111 -80.8439894 -80.8529488
4709501195	39.3583896 -4 39.3566799 -4 39.3553421 -4 39.355236 -4 39.3622543 -4 39.3350228 -4 39.3624535 -4 39.3624889 -4 39.3469242 -4 39.351423 -4	-80.8529492 -80.857429 -80.8486553 -80.8434287 -80.8531111 -80.8439894 -80.8529488
4709501199	39.3586799 39.3553421 43.93559236 43.93559236 43.9350228 43.9350228 43.93624535 43.9362889 43.93628424 43.9351423	-80.857429 -80.8486553 -80.8434287 -80.8531111 -80.8439894 -80.8529488
4709501201	39.3553421 -4 39.3559236 -4 39.3622543 -4 39.3550228 -4 39.3624535 -4 39.362889 -4 39.3469242 -4 39.351423 -4	-80.8486553 -80.8434287 -80.8531111 -80.8439894 -80.8529488
4709501204 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4919 WV TYLER	39.3559236 -4 39.3622543 -4 39.3350228 -4 39.3624535 -4 39.3628889 -4 39.3469242 -4 39.351423 -4	-80.8434287 -80.8531111 -80.8439894 -80.8529488
4709501206	39.3622543 39.3350228 39.3624535 39.3628889 39.3469242 39.351423	-80.8531111 -80.8439894 -80.8529488
4709501206	39.3622543 39.3350228 39.3624535 39.3628889 39.3469242 39.351423	-80.8531111 -80.8439894 -80.8529488
4709501207	39.3350228 39.3624535 39.3628889 39.3469242 39.351423	-80.8439894 -80.8529488
4709501208 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5068 WV TYLER 4709501210 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4892 WV TYLER 4709501221 GREYLOCK OPCO LLC GAS RILEY ACTIVE 5579 WV TYLER 4709501223 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4954 WV TYLER 4709501229 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5010 WV TYLER 4709501298 SCHULTZ RUN GAS COMPANY GAS RILEY ACTIVE 4858 WV TYLER 4709501298 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 4858 WV TYLER 4709501304 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 4927 WV TYLER 4709501305 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 5016 WV TYLER 470	39.3624535 -6 39.3628889 -6 39.3469242 -6 39.351423 -6	-80.8529488
4709501210 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4892 WV TYLER 4709501221 GREYLOCK OPCO LLC GAS RILEY ACTIVE 5579 WV TYLER 4709501223 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4954 WV TYLER 4709501298 SCHULTZ RUN GAS COMPANY GAS RILEY ACTIVE 5010 WV TYLER 4709501299 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 4927 WV TYLER 4709501304 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 4923 WV TYLER 4709501305 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 5016 WV TYLER 4709501310 GREYLOCK OPCO LLC GAS RILEY ACTIVE 5490 WV TYLER	39.3628889 39.3469242 39.351423 3	
4709501221 GREYLOCK OPCO LLC GAS RILEY ACTIVE 5579 WV TYLER 4709501223 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4954 WV TYLER 47095012294 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5010 WV TYLER 4709501298 SCHULTZ RUN GAS COMPANY GAS RILEY ACTIVE 4858 WV TYLER 4709501309 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 4927 WV TYLER 4709501304 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 4923 WV TYLER 4709501310 GREYLOCK OPCO LLC GAS RILEY ACTIVE 5016 WV TYLER	39.3469242 39.351423	
4709501223 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4954 WV TYLER 4709501224 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5010 WV TYLER 4709501298 SCHULTZ RUN GAS COMPANY GAS RILEY ACTIVE 4858 WV TYLER 4709501299 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 4927 WV TYLER 4709501304 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 4923 WV TYLER 4709501305 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 5016 WV TYLER 4709501310 GREYLOCK OPCO LLC GAS RILEY ACTIVE 5490 WV TYLER	39.351423	-80.8581762
4709501223 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 4954 WV TYLER 4709501224 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5010 WV TYLER 4709501298 SCHULTZ RUN GAS COMPANY GAS RILEY ACTIVE 4858 WV TYLER 4709501299 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 4927 WV TYLER 4709501304 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 4923 WV TYLER 4709501305 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 5016 WV TYLER 4709501310 GREYLOCK OPCO LLC GAS RILEY ACTIVE 5490 WV TYLER	39.351423	-80.8572429
4709501224 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5010 WV TYLER 4709501298 SCHULTZ RUN GAS COMPANY GAS RILEY ACTIVE 4858 WV TYLER 4709501299 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 4927 WV TYLER 4709501304 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 4923 WV TYLER 4709501305 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 5016 WV TYLER 4709501310 GREYLOCK OPCO LLC GAS RILEY ACTIVE 5490 WV TYLER		-80.8484688
4709501298 SCHULTZ RUN GAS COMPANY GAS RILEY ACTIVE 4858 WV TYLER 4709501299 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 4927 WV TYLER 4709501304 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 4923 WV TYLER 4709501310 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 5016 WV TYLER 4709501310 GREYLOCK OPCO LLC GAS RILEY ACTIVE 5490 WV TYLER	39.3011477	
4709501299 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 4927 WV TYLER 4709501304 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 4923 WV TYLER 4709501305 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 5016 WV TYLER 4709501310 GREYLOCK OPCO LLC GAS RILEY ACTIVE 5490 WV TYLER		-80.8424954
4709501304 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 4923 WV TYLER 4709501305 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 5016 WV TYLER 4709501310 GREYLOCK OPCO LLC GAS RILEY ACTIVE 5490 WV TYLER		-80.8580336
4709501305 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 5016 WV TYLER 4709501310 GREYLOCK OPCO LLC GAS RILEY ACTIVE 5490 WV TYLER	39.3781401	-80.8623344
4709501305 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 5016 WV TYLER 4709501310 GREYLOCK OPCO LLC GAS RILEY ACTIVE 5490 WV TYLER	39.3739202	-80.8456687
4709501310 GREYLOCK OPCO LLC GAS RILEY ACTIVE 5490 WV TYLER		-80.850709
4709501311 GREYLOCK OPCO LLC GAS RILEY ACTIVE 5130 WV TYLER		-80.8480952
The state of the s	39.340973	-80.8518288
4709501312 EASTERN AMERICAN ENERGY UNKNOWN UNKNOWN UNKNOWN WV TYLER	39.3712431	-80.852314
4709501315 GREYLOCK OPCO LLC GAS RILEY ACTIVE 5014 WV TYLER	39.3669523	-80.852763
4709501316 BRAXTON OIL&GAS GAS WARREN ACTIVE 4954 WV TYLER		-80.848095
4709501317 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 4859 WV TYLER		-80.8540691
4709501319 GREYLOCK OPCO LLC GAS WARREN ACTIVE 5141 WV TYLER	39.3607118	-80.8480959
4709501322 GREYLOCK OPCO LLC GAS RILEY ACTIVE 5127 WV TYLER	39.364776	-80.846975
4709501325 SCHULTZ RUN GAS COMPANY GAS BRADFORD ACTIVE 4851 WV TYLER	39.3798813	-80.8664481
		-80.858782
4709501332 EASTERN AMERICAN ENERGY UNKNOWN UNKNOWN UNKNOWN WV TYLER		-80.8584711
4709501335 ALLIANCE PETROLEUM CORPORATION GAS WEIR ACTIVE 4955 WV TYLER	39.3858318	-80.8535454
4709501493 EASTERN AMERICAN ENERGY UNKNOWN UNKNOWN UNKNOWN WV TYLER	39.3306746	-80.8459205
4709501495 ALLIANCE PETROLEUM CORPORATION GAS RILEY ACTIVE 5180 WV TYLER		-80.8488419
		-80.8581759
4709501557 KEY OIL OTHER RILEY ACTIVE 5321 WV TYLER		-80.8406287
4709501669 ALLIANCE PETROLEUM CORPORATION OTHER RILEY ACTIVE 5175 WV TYLER		-80.8488424
4709501931 MURVIN&MEIER OIL OTHER UNKNOWN ACTIVE 2531 WV TYLER	39.3503933 -	-80.8561428
4709502129 BOWYER, DAVID OTHER BIG INJUN (UNDIFF) ABANDONED 2711 WV TYLER	39.3921525	-80.8598681
4709502588 CNX GAS COMPANY OTHER MARCELLUS PERMITTED WV TYLER		-80.8458056
4709502664 CNX GAS COMPANY UNKNOWN MARCELLUS PERMITTED WV TYLER		-80.8455082
4709502665 CNX GAS COMPANY UNKNOWN MARCELLUS PERMITTED WV TYLER		-80.8454799
4709502666 CNX GAS COMPANY UNKNOWN MARCELLUS PERMITTED WV TYLER	39.3532445	-80.8454658
4709502667 CNX GAS COMPANY UNKNOWN MARCELLUS PERMITTED WV TYLER	39.3532552	-80.8455647
		-80.8455223
4709502669 CNX GAS COMPANY UNKNOWN MARCELLUS PERMITTED WV TYLER		-80.8454233
4709530158 HOPE CONSTRUCTION & REFINING UNKNOWN UNKNOWN INACTIVE WV TYLER		-80.8479273
4709530160 HOPE CONSTRUCTION & REFINING UNKNOWN UNKNOWN INACTIVE WV TYLER	39.3282755 -	-80.8460603
4709530391 DEEM, F S GAS BIG INJUN (UNDIFF) INACTIVE 2968 WV TYLER	39.3522959 -	-80.8565245
4709530393 DEEM, F S GAS UNKNOWN INACTIVE 2110 WV TYLER		-80.8542824
		-80.8559625
4709530526 PITTSBURGH & WV GAS OIL & GAS BIG INJUN (UNDIFF) INACTIVE 1923 WV TYLER		-80.8535394
4709530600 HOPE NATURAL GAS COMPANY GAS UNKNOWN INACTIVE 2495 WV TYLER	39.3424354 -	-80.8380321
4709530830 HOPE NATURAL GAS COMPANY GAS BIG INJUN (UNDIFF) INACTIVE 2922 WV TYLER	39.3457714 -	-80.834857
4709530890 HOPE NATURAL GAS COMPANY UNKNOWN UNKNOWN INACTIVE WV TYLER		-80.8525984
		-80.8544953
4709570189 PHILADELPHIA COMPANY, THE GAS UNKNOWN INACTIVE 1901 WV TYLER	39.3870744 -	-80.8541213

RECEIVED Office of Oil and Gas

JAN 2 2 2020

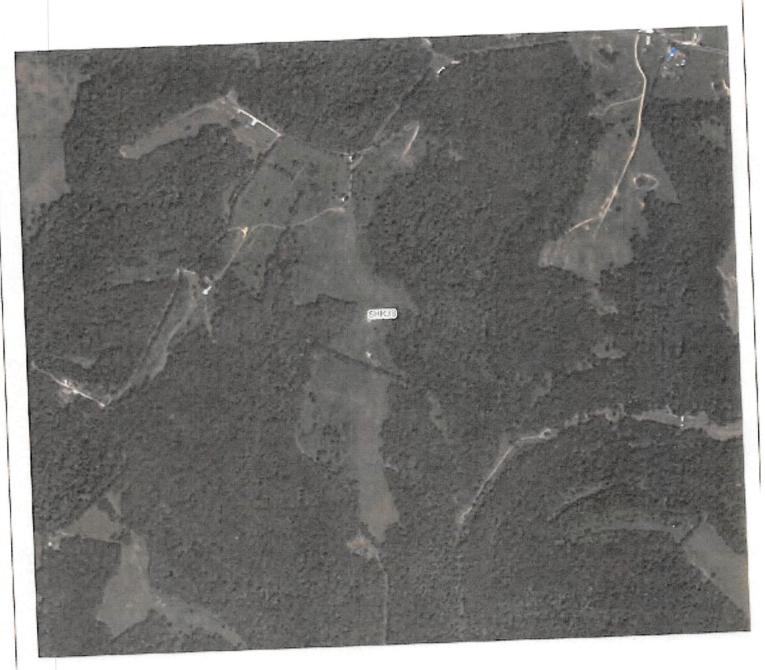






95-02664 MOD

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



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

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

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

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

See attached

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

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

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

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

	Well Operator:	CNX Gas Company, LLC
RECEIVED	By:	Raymond Hoon Land Plean
Office of Oil and Gas	Its:	Project Manager

Attachment - Form WW-6A-1 for SHR37IHSM

	Tax Map & Parcel	Title Opinion OLS	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
1			Georgia P. Snyder, divorced	Sefco Enterprises, Inc.	Not less than 1/8	267/84
			Bradie Pipes and Goldie Pipes, his wife	Sefco Enterprises, Inc.	Not less than 1/8	267/86
			Pursie Pipes and Norma J. Pipes, husband and wife	Sefco Enterprises, Inc.	Not less than 1/8	267/88
			Dorothy Belle Wells and Byron Wells, her husband	•		
			Myrna Morgan and David Morgan, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/90
			·	Sefco Enterprises, Inc.	Not less than 1/8	267/640
			Sefco Enterprises, Inc.	Eastern American Energy Corporation	Assignment	285/650
i			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
i			Antero Resources Corporation	Noble Energy Inc.	Assignment	427/564
-			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
act ID	Tax Map & Parcel	Title Opinion OLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
12	1-17-6	# 266300000	Eleanor V. Earnheart and Dean A. Earnheart, w/h	Sefco Enterprises, Inc.	Not less than 1/8	267/74
			Clella Boice, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/76
				• •	•	267/78
			Luella I. McConnell, widow	Sefco Enterprises, Inc.	Not less than 1/8	
			Agnes Godwin, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/80 267/83
i			Nancy P. McClain and Ralph E. McClain, w/h	Sefco Enterprises, Inc.	Not less than 1/8	267/82
- 1			Georgia P. Snyder, divorced	Sefco Enterprises, Inc.	Not less than 1/8	267/84
1			Bradie Pipes and Goldie Pipes, his wife	Sefco Enterprises, Inc.	Not less than 1/8	267/86
İ			Pursie Pipes and Norma J. Pipes, husband and wife	Sefco Enterprises, Inc.	Not less than 1/8	267/88
			Dorothy Belle Wells and Byron Wells, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/90
- 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
1			Seneca-Upshur Petroleum, Inc.	Seneca-Upshur Petroleum, LLC	Assignment	381/540
			Seneca-Upshur Petroleum, LLC	Antero Resources Appalachian Corporation	Assignment	402/132
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	wvsos
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CNX Gas Company, LLC	_	425/701
			Antero Resources Corporation	Noble Energy Inc.	Assignment	427/564
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
į			Reva Rowland and Ronald Royce Rowland	CNX Gas Company, LLC	Not less than 1/8	661/312
net ID	Tax Map & Parcel	Title Opinion OLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
		#				267/74
13	1-18-5	263458000	Eleanor V. Earnheart and Dean A. Earnheart, w/h	Sefco Enterprises, Inc.	Not less than 1/8 Not less than 1/8	267/76
			Clella Boice, widow	Sefco Enterprises, Inc.	·	
i			Luella I. McConnell, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/78
- 1			Agnes Godwin, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/80
1			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
i			Pursie Pipes and Norma J. Pipes, husband and wife	Sefco Enterprises, Inc.	Not less than 1/8	267/88
			•	Sefco Enterprises, Inc. Sefco Enterprises, Inc.	Not less than 1/8 Not less than 1/8	267/88 267/90
			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	267/88 267/90 267/640
			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. Eastern American Energy Corporation	Not less than 1/8 Not less than 1/8	267/88 267/90 267/640 285/650
			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. Sefco Enterprises, Inc.	Not less than 1/8 Not less than 1/8 Not less than 1/8	267/88 267/90 267/640
			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. Sefco Enterprises, Inc. Sefco Enterprises, Inc. Eastern American Energy Corporation	Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment	267/88 267/90 267/640 285/650
			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	Sefco Enterprises, Inc. Sefco Enterprises, Inc. 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 Assignment Assignment	267/88 267/90 267/640 285/650 354/757
			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. Sefco Enterprises, 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 Assignment Assignment Assignment	267/88 267/90 267/640 285/650 354/757 381/540
			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. Sefco Enterprises, Inc. Sefco Enterprises, 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 Assignment Assignment Assignment Assignment	267/88 267/90 267/640 285/650 354/757 381/540 402/132
			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. Sefco Enterprises, Inc. Sefco Enterprises, 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	Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Assignment Assignment Assignment Assignment	267/88 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS
			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. Sefco Enterprises, Inc. Sefco Enterprises, 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 Assignment Assignment Assignment Assignment	267/88 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701
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14	1-18-6.1	# 263459000	Pursie Pipes and Norma J. Pipes, husband and wife Dorothy Belle Wells and Byron Wells, her husband Myrna Morgan and David Morgan, her husband Sefco Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC Antero Resources Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Grantor. Lessor. etc 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 Belie Wells and Byron Wells, her husband Myrna Morgan and David Morgan, her husband Sefco Enterprises, Inc. Eastern American Energy Corporation Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, Inc.	Sefco Enterprises, Inc. Sefco Enterprises, Inc. Sefco Enterprises, 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 Grantee. Lessee. etc Sefco Enterprises, Inc. Sefco Enterprises, Inc	Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Royalty Not less than 1/8	267/88 267/90 267/640 285/650 354/757 381/540 402/132 WVSOS 425/701 427/564 550/273 Book/Page 267/74 267/76 267/78 267/84 267/84 267/84 267/86 267/84
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	Tax Map & Parcel	Title Opinion QLS #	Grantor. Lessor. etc	<u>Grantee. Lessee. etc</u>	Royalty	Book/Page
			Charles W. Henderson and Dorothy M. Henderson, h/w and Charles			
16	1-16-26	259000000	W. Henderson, Power of Attorney for the A. I. Doak Heirs	J&J Enterprises	Not less than 1/8	259/588
			John A. 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	Energy Corporation of America Antero Resources Appalachian Corporation	Assignment Assignment	371/528 398/416
			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
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
			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 Robert H. Melvin	Eastern American Energy Corporation	Not less than 1/8 Not less than 1/8	282/67 282/399
			Betty L. Melvin	Eastern American Energy Corporation Eastern American Energy Corporation	Not less than 1/8	282/399
			Mary S. Lartz and William Lartz, w/h	Eastern American Energy Corporation	Not less than 1/8	282/83
			Lillian Crabill and William Crabill, w/h	Eastern American Energy Corporation	Not less than 1/8	282/95
			Melissa Coll	Eastern American Energy Corporation	Not less than 1/8	282/75
			Robert Bartholomew and Barbara Bartholomew, h/w	Eastern American Energy Corporation	Not less than 1/8	282/71
			Phillip L. 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
			A-4 0	CNX Gas Company, LLC	A	425/701
			Antero Resources Corporation Noble Energy, Inc.	Noble Energy Inc. CNX Gas Company, LLC	Assignment Assignment	427/564 550/273
		Title Opinion QLS			D	0 - 1 /0
	Tax Map & Parcel	#	Grantor, Lessor, etc	Grantee. Lessee. etc	Royalty	Book/Page
•	1-16-20	258989000	Jacob L. Dillon and Edna Dillon, h/w	Royal Resources Corporation	Not less than 1/8	196/302 196/166
			Royal Resources Corporation Columbia Gas Transmission Corporation	Columbia Gas Transmission Corporation L & M Exploration, Inc.	Assignment 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
			Excel Energy, Inc.	Anvil Oil Co., Inc.	Assignment	269/143
			Anvil Oil Co., Inc.	Anvil Oil & Gas Company, Inc.	Name Change	wvsos
			to sale to the demand health delicable and diffe to A will Oil and Con-			
			Justin L. Henderson, individually and d/b/a Anvil Oil and Gas			
			Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc.	Dominion Appalachian Development, Inc.	Assignment	323/383
			Company; Karen M. Henderson, wife; Anvil Oil and Gas	Dominion Appalachian Development, Inc. CNX Gas Company, LLC	Assignment Merger	323/383 384/191
:			Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc.	• • • • • • • • • • • • • • • • • • • •	-	•
			Company; Karen M. Henderson, wife; Anvil Oil and Gas Company, Inc. Dominion Appalachian Development Properties, L.L.C.	CNX Gas Company, LLC	Merger	384/191
:JD.	Tax Map & Parcel	Title Opinion OLS	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.	CNX Gas Company, LLC Noble Energy, Inc.	Merger Assignment	384/191 388/286
1		#	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	CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc	Merger Assignment Assignment Royalty	384/191 388/286 550/273 Book/Page
	<u> Tax Map & Parcel</u> 1-16-19.1		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	CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC	Merger Assignment Assignment	384/191 388/286 550/273
1		#	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	CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee. Lessee. etc Drilling Appalachian Corporation Drilling Appalachian Corporation	Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8	384/191 388/286 550/273 Book/Page 271/726 272/297
1		#	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	CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee, Lessee, etc Drilling Appalachian Corporation	Merger Assignment Assignment Royalty Not less than 1/8	384/191 388/286 550/273 Book/Page 271/726 272/297 271/728
1		#	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	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	Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8	384/191 388/286 550/273 Book/Page 271/726 272/297
1		#	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	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,	Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8	384/191 388/286 550/273 Book/Page 271/726 272/297 271/728
ct ID		#	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	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	Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment	384/191 388/286 550/273 <u>Book/Page</u> 271/726 272/297 271/728 322/190
		#	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	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	Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Merger	384/191 388/286 550/273 <u>Book/Page</u> 271/726 272/297 271/728 322/190 384/191
		#	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	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.	Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Merger Merger	384/191 388/286 550/273 Book/Page 271/726 272/297 271/728 322/190 384/191 384/191
1		#	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.	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.	Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Merger Assignment	384/191 388/286 550/273 <u>Book/Page</u> 271/726 272/297 271/728 322/190 384/191 384/191 384/191 384/191 384/191
		#	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 Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy 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 NOSE Gas Company LLC CNX Gas Company LLC	Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Assignment Assignment Assignment	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
		#	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	CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee_Lessee_etc Drilling Appalachian Corporation Drilling Appalachian Corporation Dominion Appalachian Development Properties, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. CNX Gas Company LLC Drilling Appalachian Corporation	Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Assignment Assignment Assignment Assignment	384/191 388/286 550/273 Book/Page 271/726 272/297 271/728 322/190 384/191 384/191 384/191 384/191 384/191 402/704 401/342
		#	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 Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy 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, 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	Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Assignment Assignment Assignment	384/191 388/286 550/273 Book/Page 271/726 272/297 271/728 322/190 384/191 384/191 384/191 384/191 384/191 384/191 401/342 401/342 421/138
		#	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 CNX Gas Company LLC Noble Energy Inc. CNX Gas Company LLC Drilling Appalachian Corporation	CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee. Lessee. etc 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	Merger 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	384/191 388/286 550/273 Book/Page 271/726 272/297 271/728 322/190 384/191 384/191 384/191 384/191 388/286 402/704 401/342 421/138 425/701
1		#	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	CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee. Lessee. etc 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	Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Assignment Assignment Assignment Assignment	384/191 388/286 550/273 Book/Page 271/726 272/297 271/728 322/190 384/191 384/191 384/191 384/191 384/191 384/191 401/342 401/342 421/138
21	1-16-19.1	# 257259000	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.	CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee_Lessee_etc 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	Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment	384/191 388/286 550/273 Book/Page 271/726 272/297 271/728 322/190 384/191 384
21		#	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	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 CNX Gas Company LLC NX Gas Company LLC NX Gas Company LLC NX Gas Company LLC NX Gas Company LLC Noble Energy, Inc.	Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Merger Assignment Assignment Assignment Assignment Assignment Assignment Assignment	384/191 388/286 550/273 Book/Page 271/726 272/297 271/728 322/190 384/191 384
tiD_	1-16-19.1	# 257259000	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.	CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee_Lessee_etc 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	Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Merger Assignment	384/191 388/286 550/273 Book/Page 271/728 322/190 384/191 384
tiD_	1-16-19.1	# 257259000 Title Opinion OLS #	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 Helrs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises	CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee. Lessee. etc 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 Signatee. Lessee. etc J & J Enterprises, Inc. Eastern American Energy Corporation	Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Assignment	384/191 388/286 550/273 Book/Page 271/726 272/297 271/728 322/190 384/191 384/191 384/191 384/191 384/191 384/256 402/704 401/342 421/138 425/701 427/564 550/273 Book/Page 258/220 282/296
tilD.	1-16-19.1	# 257259000 Title Opinion OLS #	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 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 Helrs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation	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 CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC Seas Company LLC Grantee_Lessee_etc J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America	Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Assignment	384/191 388/286 550/273 Book/Page 271/726 272/297 271/728 322/190 384/191 384
tilD.	1-16-19.1	# 257259000 Title Opinion OLS #	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 CNX Gas Company LLC Noble Energy Inc. CNX Gas Company LLC Drilling Appalachian Corporation Antero Resources Corporation Noble Energy Inc. Grantor. Lessor. etc Jacob C. Cottrill, Attorney-In-Fact for Charles D. Cottrill Helirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w JBJ Enterprises Eastern American Energy Corporation Energy Corporation of America	CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee. Lessee. etc 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 Sobre Energy, Inc. CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC Noble Energy, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation	Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Merger Assignment	384/191 388/286 550/273 Book/Page 271/726 272/297 271/728 322/190 384/191 384
12 1D	1-16-19.1	# 257259000 Title Opinion OLS #	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 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 Helrs; Jacob C. Cottrill and Shirley A. Cottrill, h/w J&J Enterprises Eastern American Energy Corporation	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 Seas Company LLC Noble Energy, Inc. CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC Antero Resources Appalachian Corporation Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation	Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Assignment	384/191 388/286 550/273 Book/Page 271/726 272/297 271/728 322/190 384/191 384
ct ID_	1-16-19.1	# 257259000 Ittle Opinion OLS # 266749000	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 CNX Gas Company LLC Noble Energy Inc. CNX Gas Company LLC Drilling Appalachian Corporation Antero Resources Corporation Noble Energy Inc. Grantor. Lessor. etc Jacob C. Cottrill, Attorney-In-Fact for Charles D. Cottrill Helirs; Jacob C. Cottrill and Shirley A. Cottrill, h/w JBJ Enterprises Eastern American Energy Corporation Energy Corporation of America	CNX Gas Company, LLC Noble Energy, Inc. CNX Gas Company, LLC Grantee. Lessee. etc 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 Sobre Energy, Inc. CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC Noble Energy, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Appalachian Corporation	Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Assignment Merger Merger Merger Merger Assignment	384/191 388/286 550/273 Book/Page 271/726 272/297 271/728 322/190 384/191 384

	Tax Map & Parcel	Ħ	Grantor, Lessor, etc	Grantee. Lessee. etc	Royalty	Bo
36	1-15-11	259021000	Mildred Gregg	Manna Oil & Gas Co.	Not less than 1/8	2
			Manna Oil & Gas Co.	Anvil Oil Company	Name Change	Ur
			Anvil Oil Company	Dominion Appalachian Development, Inc.	Assignment	:
			Dominion Appalachian Development, Inc.	Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development	Name Change	
			Dominion Appalachian Development, LLC	Properties LLC	Merger	:
			CONSOL Gas Appalachian Development Properties LLC	CONSOL Gas Reserves Inc.	Merger	
			CONSOL Gas Reserves Inc.	CONSOL Gas Company	Merger	
			CONSOL Gas Company	CNX Gas Company LLC	Merger	
			CNX Gas Company LLC	Noble Energy Inc.	Assignment	
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	9
Tract ID	Tax Map & Parcel	Title Opinion OLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Вс
		#	Clarence Duane Clark and Sandra Sue Clark, h/w			_
32			Jeffrey G. Clark, single			
38	1-15-6	288617000	Kevin S. Clark, single	Manna Oil & Gas Co.	Not less than 1/8	2
!			Manna Oil & Gas Co.	Anvil Oil Company	Name Change	Un
			Anvil Oil Company	Antero Resources Corporation	Assignment	4
				CNX Gas Company LLC		
			Antero Resources Corporation Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company, LLC	Assignment	4
	PECEN/ED		Noble Ellergy, Inc.	CNA Gas Company, LLC	Assignment	5
Office	RECEIVED of Oil and G	ae	John Baker, individually and as Attorney-in-Fact for the			
	or on and d	as	"Gorrell Doak Heirs"	Anvil Oil Company	Not less than 1/8	2
		_	Anvil Oil Company	Antero Resources Corporation	Assignment	4
JΔN	N 2 2 2020	1		CNX Gas Company LLC		
3, 11	· = - LUL(,	Antero Resources Corporation	Noble Energy, Inc.	Assignment	4
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	5
WV E	Department o	of .				
Tract ID	Department onental Protection & Parcel Tax Man & Parcel	Title Opinion OLS	Grantor, Lessor, etc	Granton Larron etc	Paualin.	n.
111111111111111111111111111111111111111	TEX HOLD IX FORCE	Ħ		<u>Grantee. Lessee. etc</u>	Royalty	Bo
39	1-15-6.1	259026000	Ora Nelson Moore and Mary Edna Moore, husband and wife, and Oletha Moore, widow	Clarence W. Mutschelknaus	Not less than 1/8	2
			Rosemary Eagle	Clarence W. Mutschelknaus	Not less than 1/8	
			Clarence W. Mutschelknaus	Bluestone Energy Partners	Assignment	3
			Bluestone Energy Partners	Antero Resources Bluestone, LLC	Merger	3
			Antero Resources Bluestone, LLC	Antero Resources Corporation	Merger	١
			Antero Resources Diaestone, LLC	CNX Gas Company LLC	Meißei	
			Antero Resources Corporation	Noble Energy, Inc.	Assignment	
			Noble Energy Inc.	CNX Gas Company LLC	Assignment	5
		Title Oninion OLS				
Tract ID	Tax Map & Parcel	Title Opinion OLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Вс
61	1-15-4	259008000	James R. Ash and Frances M. Ash, h/w	Anvil Oil Company	Not less than 1/8	2
			Anvil Oil Company	Dominion Appalachian Development, Inc.		
					Assignment	3
			Dominion Appalachian Development, Inc.	Dominion Appalachian Development, LLC	Assignment Name Change	
			Dominion Appalachian Development, Inc.	Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development	Name Change	`
			Dominion Appalachian Development, Inc. Dominion Appalachian Development, LLC	Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development Properties LLC	Name Change Merger	3
			Dominion Appalachian Development, Inc. Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development Properties LLC	Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc.	Name Change Merger Merger) 3
			Dominion Appalachian Development, Inc. Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc.	Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company	Name Change Merger Merger Merger) 3 3
			Dominion Appalachian Development, Inc. Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company	Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC	Name Change Merger Merger Merger Merger) 3 3 3
			Dominion Appalachian Development, Inc. Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC	Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc.	Name Change Merger Merger Merger Merger Assignment	3 3 3 3
			Dominion Appalachian Development, Inc. Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company	Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC	Name Change Merger Merger Merger Merger	3 3 3 3
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63	1-12-23 1-12-23,1	Ħ	Dominion Appalachian Development, Inc. Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. Grantor. Lessor. etc Ora Nelson Moore and Mary Edna Moore, husband and wife, and Oletha Moore, widow Rosemary Eagle Clarence W. Mutschelknaus Bluestone Energy Partners Antero Resources Bluestone, LLC Antero Resources Corporation Noble Energy Inc.	Dominion Appalachian Development, 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 Clarence W. Mutschelknaus Clarence W. Mutschelknaus Bluestone Energy Partners Antero Resources Bluestone, LLC Antero Resources Corporation CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC	Name Change Merger Merger Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Assignment Merger Merger Assignment Assignment Assignment	3 3 3 3 3 3 5 5 Ba a 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
63	1-12-23 1-12-23.1	# 259026000	Dominion Appalachian Development, Inc. Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. Grantor. Lessor. etc Ora Nelson Moore and Mary Edna Moore, husband and wife, and Oletha Moore, widow Rosemary Eagle Clarence W. Mutschelknaus Bluestone Energy Partners Antero Resources Bluestone, LLC Antero Resources Corporation Noble Energy Inc. Grantor. Lessor. etc	Dominion Appalachian Development, 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 Grantee. Lessee. etc Clarence W. Mutschelknaus Clarence W. Mutschelknaus Bluestone Energy Partners Antero Resources Bluestone, LLC Antero Resources Corporation CNX Gas Company LLC Noble Energy, Inc.	Name Change Merger Merger Merger Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Assignment Merger Merger Assignment	3 3 3 3 3 3 5 5 Ba a 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
63	1-12-23 1-12-23.1 Tax Map & Parcel	# 259026000 Title Opinion OLS	Dominion Appalachian Development, Inc. Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. Grantor. Lessor. etc Ora Nelson Moore and Mary Edna Moore, husband and wife, and Oletha Moore, widow Rosemary Eagle Clarence W. Mutschelknaus Bluestone Energy Partners Antero Resources Bluestone, LLC Antero Resources Corporation Noble Energy Inc. Grantor. Lessor. etc Ora Nelson Moore and Mary Edna Moore,	Dominion Appalachian Development, 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 Grantee. Lessee. etc Clarence W. Mutschelknaus Clarence W. Mutschelknaus Bluestone Energy Partners Antero Resources Bluestone, LLC Antero Resources Corporation CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC CNX Gas Company LLC Grantee. Lessee. etc	Name Change Merger Merger Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Assignment Merger Merger Assignment Assignment Assignment Assignment Assignment	33 33 33 35 55 Bo
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63	1-12-23 1-12-23.1 Tax Map & Parcel 1-12-10.1	# 259026000 Title Opinion OLS # 259026000	Dominion Appalachian Development, Inc. Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. Grantor Lessor. etc Ora Nelson Moore and Mary Edna Moore, husband and wife, and Oletha Moore, widow Rosemary Eagle Clarence W. Mutschelknaus Bluestone Energy Partners Antero Resources Bluestone, LLC Antero Resources Corporation Noble Energy Inc. Grantor Lessor. etc Ora Nelson Moore and Mary Edna Moore, husband and wife, and Oletha Moore, widow Rosemary Eagle Clarence W. Mutschelknaus Bluestone Energy Partners Antero Resources Corporation Noble Energy Partners Antero Resources Bluestone, LLC Antero Resources Bluestone, LLC Antero Resources Corporation Noble Energy Inc.	Dominion Appalachian Development, 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 Grantee. Lessee. etc Clarence W. Mutschelknaus Clarence W. Mutschelknaus Bluestone Energy Partners Antero Resources Bluestone, LLC Antero Resources Corporation CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC Grantee. Lessee. etc Clarence W. Mutschelknaus Bluestone Energy Partners Antero Resources Bluestone, LLC Antero Resources Bluestone, LLC Antero Resources Bluestone, LLC Antero Resources Corporation CNX Gas Company LLC Noble Energy, Inc.	Name Change Merger Merger Merger Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Assignment Merger Merger Assignment Assignment Merger Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Merger Merger Assignment Merger Assignment Merger Assignment Merger Assignment	33 33 33 55 Real 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3
63 Tract ID 64	1-12-23 1-12-23.1 Tax Map & Parcel 1-12-10.1	# 259026000 Title Opinion OLS	Dominion Appalachian Development, Inc. Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. Grantor Lessor. etc Ora Nelson Moore and Mary Edna Moore, husband and wife, and Oletha Moore, widow Rosemary Eagle Clarence W. Mutschelknaus Bluestone Energy Partners Antero Resources Bluestone, LLC Antero Resources Corporation Noble Energy Inc. Grantor Lessor. etc Ora Nelson Moore and Mary Edna Moore, husband and wife, and Oletha Moore, widow Rosemary Eagle Clarence W. Mutschelknaus Bluestone Energy Partners Antero Resources Corporation Noble Energy Partners Antero Resources Bluestone, LLC Antero Resources Bluestone, LLC Antero Resources Corporation Noble Energy Inc.	Dominion Appalachian Development, 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 Grantee. Lessee. etc Clarence W. Mutschelknaus Clarence W. Mutschelknaus Bluestone Energy Partners Antero Resources Bluestone, LLC Antero Resources Corporation CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC Grantee. Lessee. etc Clarence W. Mutschelknaus Bluestone Energy Partners Antero Resources Bluestone, LLC Antero Resources Bluestone, LLC Antero Resources Bluestone, LLC Antero Resources Corporation CNX Gas Company LLC Noble Energy, Inc.	Name Change Merger Merger Merger Merger Assignment Assignment Royalty Not less than 1/8 Not less than 1/8 Assignment Merger Merger Assignment Assignment Merger Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Merger Merger Assignment Merger Assignment Merger Assignment Merger Assignment	3 3 3 3 3 5 5 Root 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
63 Tract ID 64	1-12-23 1-12-23.1 Iax Map & Parcel 1-12-10.1	# 259026000 Title Opinion OLS # 259026000	Dominion Appalachian Development, Inc. Dominion Appalachian Development, LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. Grantor. Lessor. etc Ora Nelson Moore and Mary Edna Moore, husband and wife, and Oletha Moore, widow Rosemary Eagle Clarence W. Mutschelknaus Bluestone Energy Partners Antero Resources Bluestone, LLC Antero Resources Corporation Noble Energy Inc. Grantor. Lessor. etc Ora Nelson Moore and Mary Edna Moore, husband and wife, and Oletha Moore, widow Rosemary Eagle Clarence W. Mutschelknaus Bluestone Energy Partners Antero Resources Bluestone, LLC Antero Resources Bluestone, LLC Antero Resources Bluestone, LLC Antero Resources Bluestone, LLC Antero Resources Corporation Noble Energy Inc.	Dominion Appalachian Development, 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 Grantee. Lessee. etc Clarence W. Mutschelknaus Clarence W. Mutschelknaus Bluestone Energy Partners Antero Resources Bluestone, LLC Antero Resources Corporation CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC Grantee. Lessee. etc Clarence W. Mutschelknaus Bluestone Energy Partners Antero Resources Bluestone, LLC Antero Resources Bluestone, LLC Antero Resources Corporation CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC Noble Energy, Inc. CNX Gas Company LLC	Merger Merger Merger Merger Merger Assignment Assignment Royalty Not less than 1/8 Assignment Merger Merger Assignment Merger Assignment	33 33 33 33 33 55 80 80 80 80 80 80 80 80 80 80 80 80 80
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	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	Name Change	wvsos
				CONSOL Gas Appalachian Development		
			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
			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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2 FOR PLAT DUE

SEE PAGE 3 FOR SURFACE OWNERS AND LESSORS

SURFACE HOLE LOCATION (SHL) UTM 17-NAD83 N:4355993.93 E:513310.94 E:513510.94 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 UTM 17—NADB3 1:4356254.54 E:513880.05 NADB3, WW NORTH N:314464.140 E:1589920.686 LAT/LON DATUM—NADB3 LAT:39'21'20.259" LON:80'50'20.031"

APPROX. DEFLECTION POINT UTM 17-NAD83 N:4357391.42 E:513467.24 N:318217.443 E:1588628.316 LAT/LON DATUM-NAD83 LAT:39*21'57.162" LON:80*50'37.198"

BOTTOM HOLE LOCATION (BHL) UTM 17-NAD83 N:4360525.64 E:512450.85 NAD83, WV NORTH N:328558.125 E:1585464.642 LAT/LON DATUM-NAD83 LAT:39'23'38.887" LON:80'51'19.467"



6,238 f 3,443 f feet feet west 99 Longitude: 80°50 80°50 100

SEE

R.S.

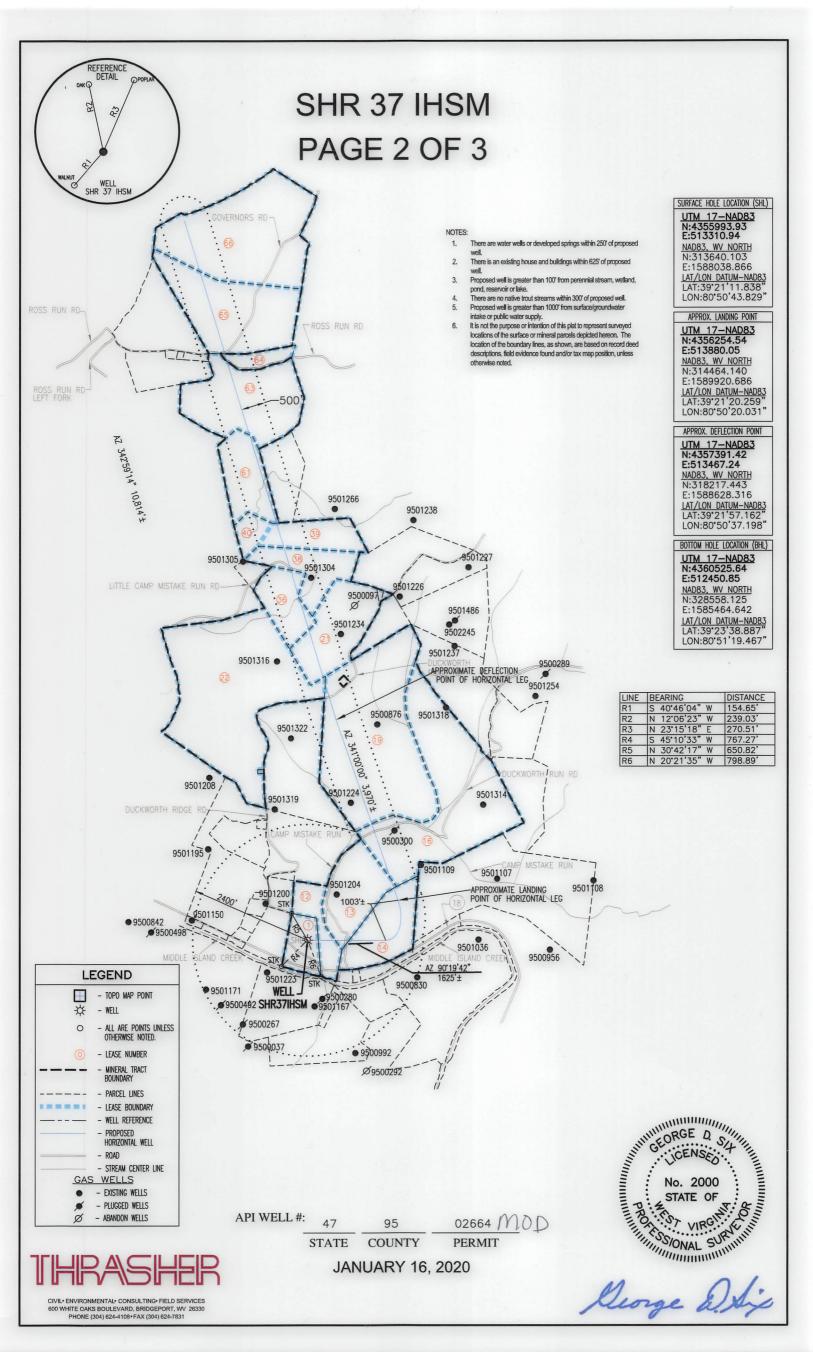
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600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330 PHONE (304) 624-4108 FAX (304) 624-7831			Minimulling Control of the Control o
FILE #: SHR 37 IHSM DRAWING #: SHR 37 IHSM SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE OF ELEVATION: 1498.81'	I,THE UNDERSIGNED, PLAT IS CORRECT TO THE BES BELIEF AND SHOWS ALL THE LAW AND THE REGULATIONS IS THE DEPARTMENT OF ENVIRO Signed: R.P.E.:	INFORMATION REQUIRED BY SSUED AND PRESCRIBED BY	No. 2000 STATE OF VIRGINIA PLACE SEAL HERE
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304	15 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DATE: JANUARY 1 OPERATOR'S WELL #: API WELL #: 47	6, 2020
Well Type: Oil Waste Disposal Gas Liquid Injection WATERSHED: HEADWATERS MIDDLE ISLAND	Storage Shallow		
COUNTY/DISTRICT: TYLER / CEN			
SURFACE OWNER: CNX GAS COMP		ACREAGE	
OIL & GAS ROYALTY OWNER: ELEANOR DRILL X COPULL CLEAN OUT &	V. & DEAN A. EARNHEART, ET AL DIVERT DRILL DEEPER D FORMATION PERFORA REPLUG DOTHER CHANG	ACREAGE REDRILL FRACT ATE NEW FORMATION GE (SPECIFY):	E:1058.068± PURE OR STIMULATE X PLUG & ABANDON
TARGET FORMATION:			
WELL OPERATOR CNX GAS COMPAN Address 1000 CONSOL ENERGY DRIVE City CANONSBURG State PA	Addre	GNATED AGENT ANTHO SS 1000 CONSOL ENERGY DRI CANONSBURG State	IVE



SHR 37 IHSM PAGE 3 OF 3

	SURFACE OWNER	LESSOR	DIST-TM/PAR
1	CNX GAS COMPANY	ELEANOR V. EARNHEART AND DEAN A. EARNHEART, W/H CLELLA BOICE, WIDOW LUELLA I. MCCONNELL, WIDOW AGNESS GODWIN, WIDOW NANCY P. MCCLAIN AND RALPH E. MCCLAIN, W/H GEORGIA P. SNYDER, DIVORCED BRADIE PIPES AND COLDIE PIPES, H/W	1-17/5
		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 CLELLA BOICE, WIDOW LUELLA I. MCCONNELL, WIDOW	P/0 1-17/6
		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	
13	DANNY CARL & PATRICIA J. HARRIS	REVA ROWLAND AND RONALD ROYCE ROWLAND ELEANOR V. EARNHEART AND DEAN A. EARNHEART, W/H	1-18/5
		CLELLA BOICE, WIDOW LUELLA I. MCCONNELL, WIDOW AGNES GODWIN, WIDOW ANNCY 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	MTRIA MURGAN AND DAVID MORGAN, W/H ELEANOR V. EARNHEART AND DEAN A. EARNHEART, W/H CLELLA BOICE, WIDOW LUELLA I. MCCONNELL, WIDOW	1-18/6.1
		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 FOR THE A. I. DOAK HEIRS JOHN A. CONKLIN AND JEAN CONKLIN, H/W	P/O 1-16/26
		GEORGE B. CONKLIN AND BETTY M. CONKLIN, H/W BETTY L. CONKLIN ROBERT LEE REED LEWIS H. REED AND CAROL J. REED, H/W KATHY 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 MEJISSA COLL ROBERT BARTHOLOMEW AND BARBARA BARTHOLOMEW, H/W PHILLIP L. MELVIN LONDON CREENIAM AND CREENIAM HAW	
19	RONALD R. & REVA D. ROWLAND	JOANNE GREENMAN AND GERALD GREENMAN, H/W JACOB L. DILLON AND EDNA DILLON, H/W	1-16/20
21	JAMES E. ASH	GAIL V. DAVISSON ROSEMARY EAGLE ELEANOR L. ROTH, ATTORNEY-IN-FACT FOR THE	P/O 1-16/19.
22	JAMES ROBERT BAGLEY	J. D. AND RUTH FOLEY HEIRS JACOB C. COTTRILL, ATTORNEY—IN—FACT FOR CHARLES D. COTTRILL HEIRS; JACOB C. COTTRILL AND SHIRLEY A. COTTRILL, H/W	1-15/15
			- 1 1
36	SANDRA SUE CLARK & CLARENCE DUANE & JEFFREY GREGG CLARK & KEVIN SCOTT	MILDRED GREGG	P/0 1-15/11
36	SANDRA SUE CLARK & CLARENCE DUANE & JEFFREY GREGG CLARK & KEVIN SCOTT DUANE CLARK, ET AL C/O DUANE & SUE CLARK	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	1-15/6
38	JEFFREY GREGG CLARK & KEVIN SCOTT	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 "GORRELL DOAK HEIRS" ORA NELSON MOORE AND MARY EDNA MOORE, H/W OLETHA MOORE, WIDOW ROSEMARY EAGLE	
38 39	JEFFREY GREGG CLARK & KEVIN SCOTT DUANE CLARK, ET AL C/O DUANE & SUE CLARK DUANE CLARK, ET AL C/O DUANE & SUE CLARK	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 "GORRELL DOAK HEIRS" ORA NELSON MOORE AND MARY EDNA MOORE, H/W OLETHA MOORE, WIDOW ROSEMARY EAGLE BRC APPALACHIAN MINERALS I, LLC	1-15/6 P/0 1-15/6.1
38	JEFFREY GREGG CLARK & KEVIN SCOTT DUANE CLARK, ET AL C/O DUANE & SUE CLARK	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 "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, AND CLETHA MOORE, WIDOW	1-15/6
38 39 40 61	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 GENEVA (DENNISON) BULLMAN LIFE GENEVA (DENNISON) FOUTS LIFE	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 "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, AND OLETHA MOORE, WIDOW ROSEMARY EAGLE ORA NELSON MOORE AND MARY EDNA MOORE, H/W, AND OLETHA MOORE, WIDOW	P/O 1-15/6.1 P/O 1-15/4 1-12/23 & 1-12/23.1 1-12/10.1
39 40 61 63	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 GENEVA (DENNISON) BULLMAN LIFE	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 "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, AND OLETHA MOORE, WIDOW ROSEMARY EAGLE ORA NELSON MOORE AND MARY EDNA MOORE, H/W, AND OLETHA MOORE, WIDOW ROSEMARY EAGLE ORA NELSON MOORE AND MARY EDNA MOORE, H/W,	P/O 1-15/6.1 P/O 1-15/4 1-12/23 & 1-12/23.1

API WELL#: 47 95 02664 M OD STATE COUNTY PERMIT





Raymond Hoon Senior Project Manager 1000 Consol Energy Drive Canonsburg, PA 15317 724-485-3540

January 20, 2020

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

RECEIVED
Office of Oil and Gas

JAN 2 2 2020

WV Department of Environmental Protection

Horizonal Drilling Permit Application Modification
SHR37IHSM 47-095-02664

Dear Mr. Brewer,

CNX Gas Company LLC (CNX) is requesting a modification SHR37IHSM permit issued 1/8/2020, located in Tyler County. Due to the unexpected plugging of the SHR38IHSM well who's proposed lateral ran adjacent to the SHR37IHSM well, CNX is proposing a change to the lateral alignment in attempt to capture a portion of the reserves that were to be previously extracted by the SHR38IHSM well. Enclosed is the completed modification package for your review.

Due to this short timeline please let me know of anything CNX can do to assist in expediting this review.

If any further information or correspondence is required, please contact me at 724-485-3540 or RaymondHoon@CNX.com.

Sincerely,

Raymond Hoon

Senior Project Manager

Attachments

- Updated WW-6B signed by inspector
- Updated Mylar Plats Showing the including of tract #64
- SHR37 Area of Review updated to reflected new buffer and shallow wells in vicinity
- Updated WW6A1 with owner list
- Updated SSP signed by inspector.