

#### 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

Monday, April 09, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

CNX GAS COMPANY LLC POST OFFICE BOX 1248

JANE LEW, WV 263786506

Re: Permit approval for SHR 31 DHSM

47-095-02491-00-00

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

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

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

James A. Martin Chief

Operator's Well Number: SHR 31 DHSM

Farm Name: ALLEN W. SECKMAN, ET AL.

U.S. WELL NUMBER: 47-095-02491-00-00

Horizontal 6A New Drill Date Issued: 4/9/2018

API Number: 95-02491

## PERMIT CONDITIONS

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

#### **CONDITIONS**

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number: 95-02491

# **PERMIT CONDITIONS**

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

API NO. 47- 95 - 0 2491

OPERATOR WELL NO. SHR31DHSM

Well Pad Name: SHR31

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

1) Well Operator: CNX Gas Company, LLC	494458046	Tyler	McElroy	Shirley
	Operator ID	County	District	Quadrangle
2) Operator's Well Number: SHR31DHSM	Well Pad	Name: SHR3	1	
3) Farm Name/Surface Owner: Seckman	Public Road	d Access: CR	58	
4) Elevation, current ground: 1091' Elevation	evation, proposed p	oost-construction	on: 1091'	
5) Well Type (a) GasX Oil	Unde	rground Storag	e	
Other		<del>.,,</del>		
(b)If Gas Shallow X	Deep	<del> </del>		
Horizontal X				
6) Existing Pad: Yes or No Yes				
7) Proposed Target Formation(s), Depth(s), Antic	•	•	• • •	
Target formation is Marcellus Shale @ 6683'-673	1' TVD, 48' thick, ex	pected formation	n pressure	~4000 psi
8) Proposed Total Vertical Depth: 6725' TVD at	TD (dependent u	pon formation	dip)	
9) Formation at Total Vertical Depth: Marcellus	Shale (will not pe	enetrate Onone	daga)	
10) Proposed Total Measured Depth: 17,430' M	ID at TD			
11) Proposed Horizontal Leg Length: 9584'				
12) Approximate Fresh Water Strata Depths:	125', 580'			
13) Method to Determine Fresh Water Depths:	epth of bit when wate	er shows in flowlin	ne or depth w	when misting is required
14) Approximate Saltwater Depths: 2271'				
15) Approximate Coal Seam Depths: No known	coal seams			
16) Approximate Depth to Possible Void (coal mi	ne, karst, other): _	None anticipat	ed	
17) Does Proposed well location contain coal sear directly overlying or adjacent to an active mine?	ns Yes	No		X
(a) If Yes, provide Mine Info: Name:				
Depth:				
Seam:		*****		
Owner:			<del></del>	

WW-6B (04/15) API NO. 4747 0-9 5 0 2 4 9 1

OPERATOR WELL NO. SHR31DHSM
Well Pad Name: SHR31

## 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	129	100	96 / CTS
Fresh Water	13.375	New	J-55	54.5	709	680	472 / CTS
Coal	N/A						
Intermediate	9.625	New	J-55	36.0	2604	2575	840 / CTS
Production	5.5	New	P-110	20.0	17459	17430	3403 / TOC @ 2075'
Tubing	2.375	New	J-55	4.7	Above assumes RF=29'	TBD	N/A
Liners	N/A						

DMH 11/21/17

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	24	0.375	N/A	N/A	Type 1	1.18
Fresh Water	13.375	17.5	0.380	2730	<500	Class A	1.19
Coal	N/A						
Intermediate	9.625	12.25	0.352	3520	<2815	Class A	1.19
Production	5.5	8.75 x 8.5	0.361	12360	~10000 during frac	Class H	1.07
Tubing	2.375	N/A	0.190	7700	N/A	N/A	N/A
Liners	N/A						

#### **PACKERS**

Kind:	N/A	
Sizes:		Office of Oil and Gas
Depths Set:		NOV 2 8 2017
		Environmental Protection

WW-6B
(10/14)

API NO. 4747 0.9 5 0 2 4 9 1

OPERATOR WELL NO. SHR31DHSM

Well Pad Name: SHR31

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 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 12.0-12.5 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.

DMH 11/21/17

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

Run CBL to ~60 degrees in the curve and back to surface to determine production casing TOC. Test production casing and toe prep well. MIRU stimulation/hydraulic fracturing equipment. Fracture well by pumping required number of stages utilizing plug-and-perf method. Max anticipated treating pressure is <10,000 psi and max anticipated treating pump rate is 80-90 bpm. Number of stages and stage spacing to be finalized after drilling. After last stimulation stage, drill out frac plugs and clean-out well to PBTD. Flow back and clean-up well. Tie well into production. Run tubing when required.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 41.57
- 22) Area to be disturbed for well pad only, less access road (acres): 7.42

23) Describe centralizer placement for each casing string:

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

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

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

25) Proposed borehole conditioning procedures:

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

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\*Note: Attach additional sheets as needed.

#### **SHR31 Cement Additives**

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

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WV Department of Environmental Protection

# CONSOLENERGY

## **DRILLING WELL PLAN** SHR31DHSM (Marcellus HZ) Marcellus Shale Horizontal

Tyler County WV

										Tyler Co	ounty, WV	
							SH	IR31DH	SM SHL	N	337895, E 1626617	(NAD27)
Groun	d Elev	ation	1	091' GL E	levation		S	HR31DH	ISM LP	N	336981, E 1628737	(NAD27)
Α	zimutl	1		161	0		SH	IR31DH	SM BHL	N	327899, E 1631797	(NAD27)
WELLE	BORE DIA	GRAM	HOLE	CASING	GEOLOGY	MD	TVD	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
		restauras.										
	1 1		24"	20" L/S	Conductor	100	100	AIR	To Surface	N/A	N/A	Stabilize surface fill/soil
					Shallowest Fresh Water		125		15.6 ppg Class A + 1% to 3% CaCl2	Centralize every 3rd		Set through fresh water zones
			17-1/2"	13-3/8" 54.5# J-55 BTC	Deepest Fresh Water		580	AIR / FW Mist	+ 1/4 pps Flake 20% OH Excess Yield = 1.19	surface	Ensure the hole is clean at section TD	Cemented to surface  No known coal seams
040		100			Fresh Water Casing	730	730		TOC @ surface	Bow spring centralizers		
					No known coal zones		N/A					
- 10					Big Lime		2200		15.6 ppg Class A	Centralize every 3rd		Set through potential salt water
- 10 1			12-1/4"	9-5/8* 36.0#	Big Injun		2271	AIR /	+ 0% to 2% CaCl2 + 1/4 pps Flake	joint from shoe to	Soap the hole as needed and ensure the hole is	zones Cemented to surface
- 101			12-1/4	J-55 LTC	Price		2325	Soap	20% OH Excess Yield = 1.19	surface	clean at section TD	Casing to be set ~200'-250' below
- 88	. 1	10			Weir		2478		TOC @ surface	Bow spring centralizers		the Big Injun base
	1				Intermediate Casing	2575	2575					
					Berea		2669					
- 10					Gordon		3095					
		M	8-3/4"		Warren		3588	AIR	15.2 ppg Class H 50:50 Class H:Poz		Once at TD, circulate at	
- 10			Tangent		Lower Huron		3986	All	with additives (retarder,	Centralize every joint	max flowrate with max	Note: Actual centralizer placemen
					Benson		5156		suspension agent, gas block, defoamer, fluid	from shoe to KOP -	rotation until shakers clean- up (typically requires	may be changed due to hole
8				5-1/2" 20.0#	Alexander		5400		loss, extender, etc.)	then every 3rd joint from KOP to TOC	multiple bottoms-up)	conditions
				P-110 VAR	Cashaqua		6399		10% OH Excess	mentited to rec	Once on bottom with	Note: Actual cement blends may
\$ .	_				Burkett		6614		Yield = 1.07	Single-piece/rigid bow centralizers	casing, circulate a minimum	vary slightly depending upon service company utilized
§ § §	Office	100	8-1/2" Curve		Tully		6646	12.0-12.5	TOC @ >= 500' above	dontalizard	of one hole volume prior to pumping cement	dorring dompany dimed
De	) ce	9	& Lateral		Hamilton		6667	ppg SOBM	9-5/8" shoe		paniping cement	
WV Department of	of Oil and	8			Marcellus		6683					
03	a a				Production Casing	17430	6725					

5-1/2" 20.0# P-110 VAR



#### SHR31 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 SHR31 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, Producing Formation at Total Depth, and Permit Date. See following pages, including (Figures 4 and 5).

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 (Figure 1), 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. CONSOL's nearest sonic data is from the SHRL1C well (Figure 2), immediately west of the SHRL3 pad. Frac modeling (Figure 3) of the Marcellus in the area does not show significant upward frac growth. In fact, typical frac height would need to be more than double to reach the Alexander, approximately 1000' above the Marcellus Shale.

Figure 1. SOG Communication events in the SHR31 area are represented by red diamonds below. These events were conjunction with the SHRL1, SHRL3, and SHRL40 fracs (pads immediately to the west, already completed).

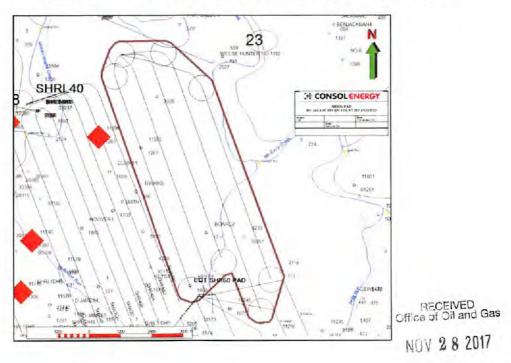
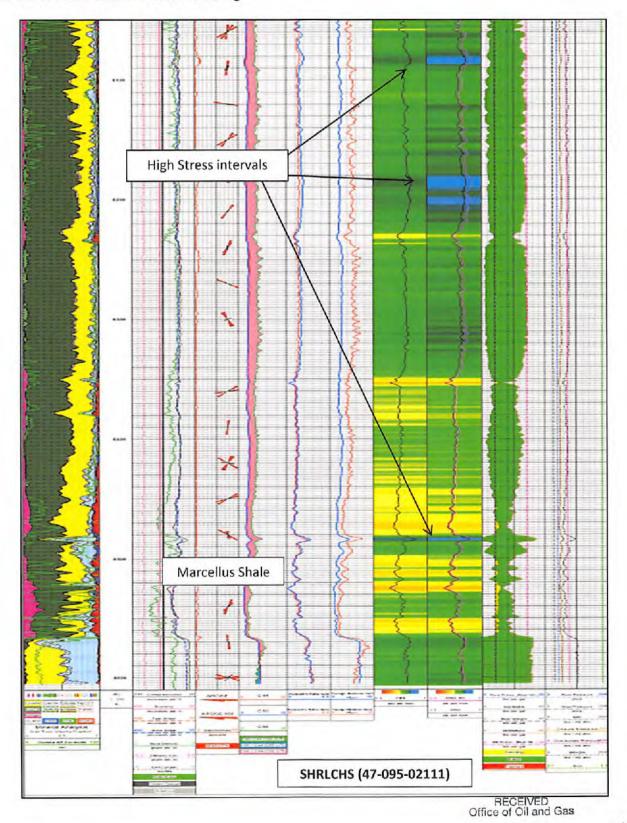




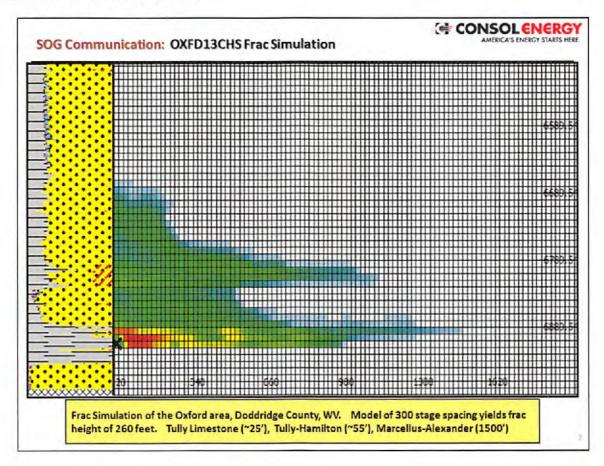
Figure 2. Stratigraphic intervals of high stress should serve as adequate confining layers, or frac barriers, for a Marcellus frac, seen below in the SHRL1C Stress Profile log.



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Figure 3. 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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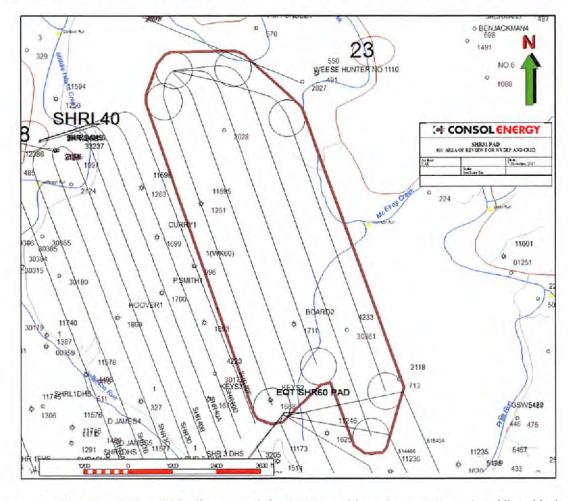


Figure 4. All wells within 500' buffer around the SHR31 pad have been reviewed and listed below.

Figure 5. All wells within 500' buffer around the SHR31 pad have been reviewed and listed below.

PERMIT DAT	DISTANCE FROM LATERAL		TO	STATUS	LONG	LAT	WELL #	WELL NAME	OPERATOR	API
4/27/197	460'	ABANDONED BIG INJUN	2731	ABANDONED	-80,50017	39.39715	2118	UNDERWOOD W	Abandoned	4709500713
10/6/198	30'	PRODUCING BENSON, RILEY	5292	GAS	00.0004	39,4102			10000	
11/3/199	10'	PRODUCING BIG INJUN		GAS	80.81914	39,4102	11595	SECKMAN L	CONSOL	4709501261
11/3/199	10	111000000000000000000000000000000000000	2230	GAS	-80.81254	39.39503	KEYS2	KEYS MARY	ALLIANCE PETROLEUM CORP	4709501668
6/4/200	240'	PRODUCING GORDON, BIG INJUN	2956	GAS	-80.81027	39.40126	BDARD2	BOARD MARVIN	ALLIANCE PETROLEUM CORP	4709501711
4/25/201	245'	CANCELLED MARCELLUSPERMIT		CANBH	-80.81692	39.41564	WEESE HUNTER NO 1111	WEESE PAD	Triad Hunter, LLC.	4709502028
4/25/201	356"	PRODUCING MARCELLUS  LATERAL	6407	GAS			WEESE HUNTER NO 1110	WEESE PAD	Triad Hunter, LLC.	4709502027
8/30/191	330"	PLUGGED GORDON 2/18/1944	2620	ABDGAS	80.80517	39.40085	4233	D N Furbee	Hope Natural Gas Company	4709530361
10/17/20	510"	PERMITTED MARCELLUS LATERAL	1 1	PERMIT ISSUED			515434	SHR60 PAD	EQT PRODUCTION CO	4709502365
3/31/201	4651	PERMITTED MARCELLUS LATERAL		PERMIT ISSUED			514466	SHR60 PAD	EQT PRODUCTION CO	4709502342
3/31/201	380'	PERMITTED MARCELLUS LATERAL		PERMIT ISSUED			514465	SHR60 PAD	EQT PRODUCTION CO	4709502341
7/23/201	380'	PERMITTED MARCELLUS LATERAL		PERMIT ISSUED			514461	SHR60 PAD	EQT PRODUCTION CO	4709502264
7/23/201	380'	PERMITTED MARCELLUS LATERAL		PERMIT ISSUED			514460	SHR60 PAD	EQT PRODUCTION CO	4709502257
7/23/201	380'	PERMITTED MARCELLUS LATERAL		PERMIT ISSUED			514464	SHR60 PAD	EQT PRODUCTION CO	4709502256
3/24/201	380"	PERMITTED MARCELLUS LATERAL		PERMIT ISSUED			514463	SHR60 PAD	EQT PRODUCTION CO	4709502220
G 3/23/201	CEMED of Oll and	PERMITTED MARCELLUS		PERMIT ISSUED			514462	SHR60 PAD	EQT PRODUCTION CO	4709502255

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## SHR31 PAD GEOLOGICAL PROGNOSIS

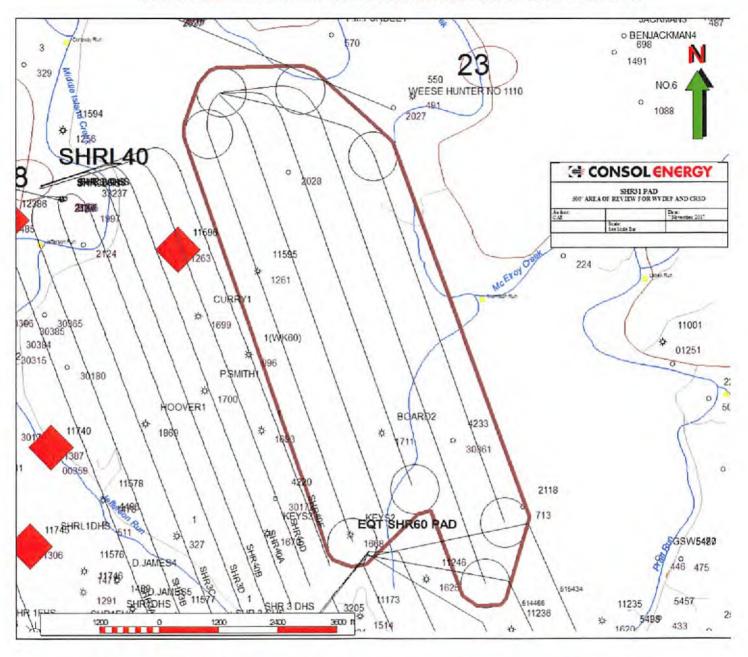
Top Depth from Ground Elevation (TVD		Possible Show	Coal Seam Thickness (FEET)	Minable Coal Seam	General Rock Type	Drilling Problems	Type of Formation Evaluation
0	Soil & Colluvium				Soil & Rock		
470,580	Deepest Fresh Water						
	No known coals this far west		none	no			
	Sand and Red Rock				Sand & Shale		
2200	Big Lime (no red rock deeper than this depth)				Limestone	luce oil	
2271	Big Injun Top	GAS / SALTWATER			Sand	The Big Injun and Gordon Sands may produce oil and/or water.	
2325	Price Formation				Sandstone	nds n	Ď.
2478	Weir Sand				Sandstone	Gordon Sands and/or water.	is p
2669	Berea				Sandstone	Gord and/o	on th
2677	Devonian Shale Top				Grey Shale	pue	well
3095	Gordon				Sandstone	Injun	one
3588	Warren Sand				Sandstone	9 8	0
3986	Lower Huron	GAS			Grey Shale	F	e ran
5156	Benson				Siltstone		Vill b
5400	Alexander	GAS			Siltstone	are	v sao
6399	Cashaqua Shale	CON	FINING LAYER		Grey Shale	Sm -	ole l
6505	Middlesex				Grey Shale	roble	lot h
6546	West River				Grey Shale	No drilling problems are anticipated.	No pilot hole logs will be ran on one well on this pad.
6614	Burket Shale	GAS			Black Shale	drill a	420
6646	Tully Limestone	CON	FINING LAYER		Limestone	S.	
6667	Hamilton				Grey Shale		
6683	Upper Marcellus	GAS			Black Shale	s	
6699	Middle Marcellus	GAS			Black Shale	llus i to be ured	
6713	Cherry Valley	GAS			Limestone	larce cted	
6720	Lower Marcellus	GAS			Black Shale	The Marcellus is expected to be overpressured	
6731	Onondaga Limestone				Limestone	-	

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## SHRL AREA WITH SOG COMMUNICATION WELLS



The SHR31 Pad to be frac'd (in maroon) is in an area of pervasive communication.

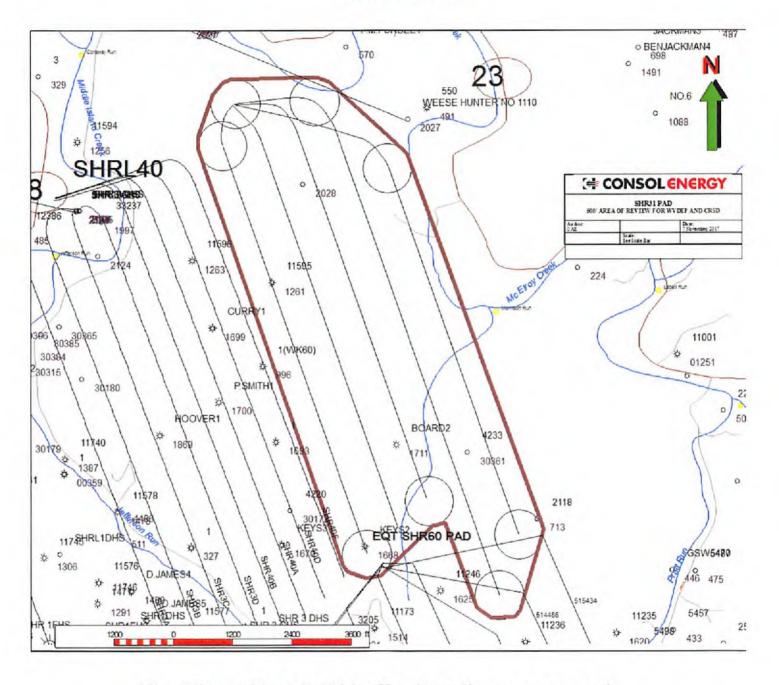
Many Shallow O&G wells are being effected by gas migration from the Marcellus pad fracs, charging the Benson reservoir, which is the primary producing reservoir of the SOG wells.

Pressure migration with the vertical Shallow Oil and Gas wells above the pads is believed to be due to faulting in the area. Frac modeling shows that it is hypothetically impossible to frac over 1000' upwards to the Alexander and Benson formations.

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## SHR31 PAD



All wells within a 500' buffer have been reviewed.

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# SHR31 WELL REVIEW WITHIN 500' AREA OF REVIEW

API	OPERATOR	WELL NAME	WELL#	LAT	LONG	STATUS	TD	STATUS COMMENTS	DISTANCE FROM LATERAL	PERMIT DATE
4709500713	Abandoned	UNDERWOOD W	2118	39.39715	-80.80017	ABANDONED	2731	ABANDONED BIG INJUN	460'	4/27/1971
4709501261	CONSOL	SECKMAN L	11595	39.4102	-80.81914	GAS	5292	PRODUCING BENSON, RILEY	30'	10/6/1988
4709501668	ALLIANCE PETROLEUM CORP	KEYS MARY	KEYS2	39.39563	-80.81254	GAS	2230	PRODUCING BIG INJUN	10'	11/3/1996
4709501711	ALLIANCE PETROLEUM CORP	BOARD MARVIN	BOARD2	39.40126	-80.81027	GAS	2956	PRODUCING GORDON, BIG INJUN	240'	6/4/2001
4709502028	Triad Hunter, LLC.	WEESE PAD	WEESE HUNTER NO 1111	39.41564	-80.81692	CANBH		CANCELLED MARCELLUSPERMIT	245'	4/25/2011
4709502027	Triad Hunter, LLC.	WEESE PAD	WEESE HUNTER NO 1110			GAS	6407	PRODUCING MARCELLUS  LATERAL	356'	4/25/2011
4709530361	Hope Natural Gas Company	D N Furbee	4233	39.40085	-80.80517	ABDGAS	2620	PLUGGED GORDON 2/18/1944	330'	8/30/1916
4709502365	EQT PRODUCTION CO	SHR50 PAD	515434			PERMIT ISSUED		PERMITTED MARCELLUS LATERAL	510'	10/17/2016
4709502342	EQT PRODUCTION CO	SHR60 PAD	514466			PERMIT ISSUED		PERMITTED MARCELLUS LATERAL	465'	3/31/2016
4709502341	EQT PRODUCTION CO	SHR60 PAD	514465			PERMIT ISSUED		PERMITTED MARCELLUS LATERAL	380'	3/31/2016
4709502264	EQT PRODUCTION CO	SHR60 PAD	514461			PERMIT ISSUED		PERMITTED MARCELLUS	380'	7/23/2015
4709502257	EQT PRODUCTION CO	SHR60 PAD	514460			PERMIT ISSUED		PERMITTED MARCELLUS LATERAL	380'	7/23/2015
4709502256	EQT PRODUCTION CO	SHR60 PAD	514464			PERMIT ISSUED		PERMITTED MARCELLUS LATERAL	380'	7/23/2015
4709502220	EQT PRODUCTION CO	SHR60 PAD	514463			PERMIT ISSUED		PERMITTED MARCELLUS LATERAL	380'	3/24/2015
4709502255	EQT PRODUCTION CO	SHR60 PAD	514462			PERMIT ISSUED		PERMITTED MARCELLUS LATERAL	380'	7/23/2015

CONSOL wells to monitor in pink.

RECEIVED Office of Oil and Gas

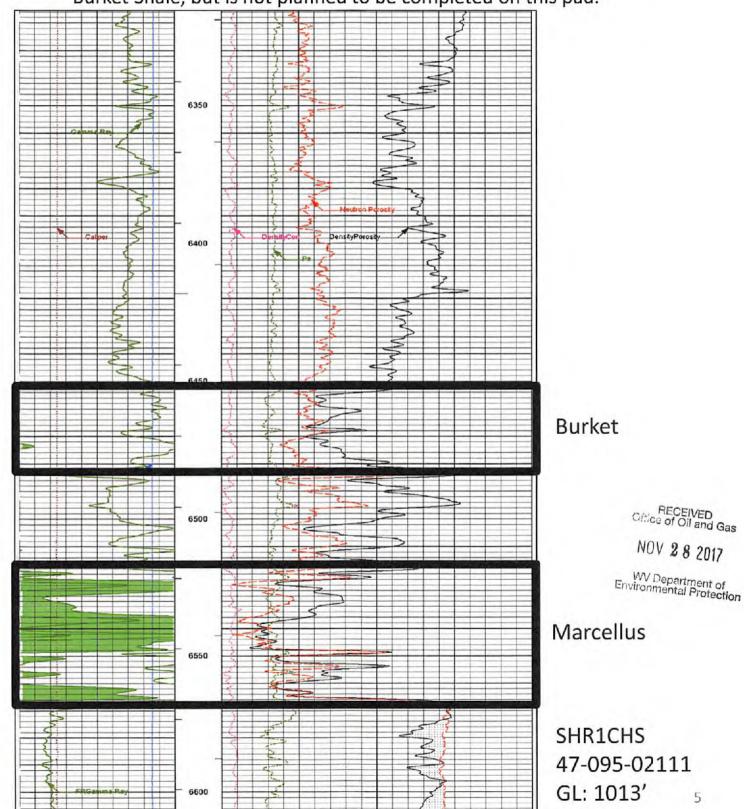
NOV 28 2017

# SHRL Area Type Log (SHRL1C)



 The Tully Limestone in conjunction with the Hamilton Shale is the confining layer for the Marcellus Shale frac.

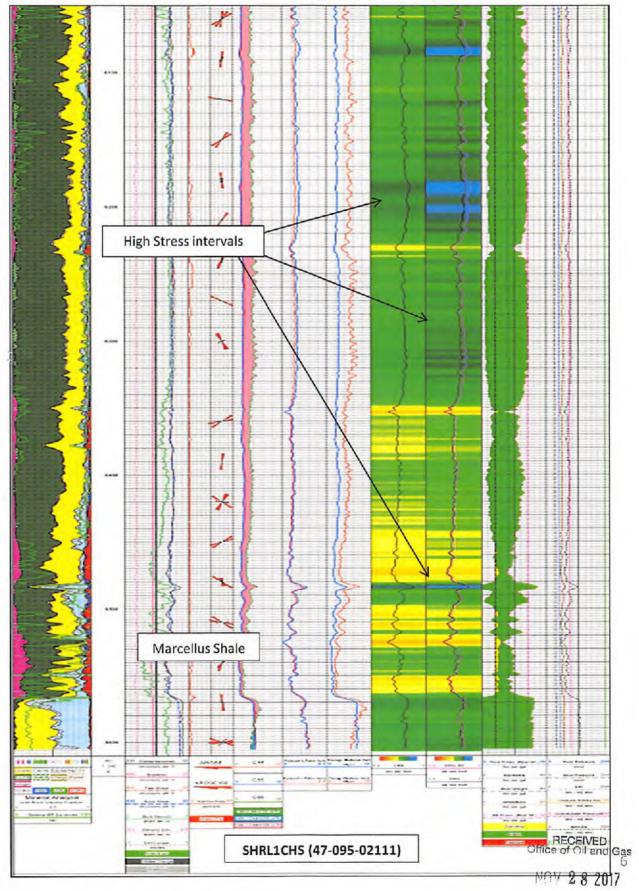
 Also, the Rhinestreet and Cashaqua provide confinement for the Burket Shale, but is not planned to be completed on this pad.





# SHRL Area Stress Profile Log (SHRL1C)

ã.



WW-9 (4/16)

API Number 47 -	A
Operator's Well No.	SHR31HSM

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

FLUIDS/ CUTTING	S DISPOSAL & RECLAMATION PLAN
Operator Name_CNX Gas Company LLC	OP Code 494458046
Watershed (HUC 10) McElroy Creek	Quadrangle Shirley
Do you anticipate using more than 5,000 bbls of water to Will a pit be used? Yes No If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes _ Proposed Disposal Method For Treated Pit Wa	
Land Application Underground Injection (UIC Reuse (at API Number at nex	C Permit Number see attached
Will closed loop system be used? If so, describe: yes	
Drilling medium anticipated for this well (vertical and h	orizontal)? Air, freshwater, oil based, etc. Arthur based mud through innormedate string tree SOGM
-If oil based, what type? Synthetic, petroleum,	etc. Synthetic
Additives to be used in drilling medium? Please see att	
Drill cuttings disposal method? Leave in pit, landfill, re	emoved offsite, etc
	will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number? please	
Permittee shall provide written notice to the Office of O West Virginia solid waste facility. The notice shall be properly disposed.	il and Gas of any load of drill cuttings or associated waste rejected at any rovided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the V provisions of the permit are enforceable by law. Viola law or regulation can lead to enforcement action.  I certify under penalty of law that I have per application form and all attachments thereto and tha	has and conditions of the GENERAL WATER POLLUTION PERMIT issued West Virginia Department of Environmental Protection. I understand that the tions of any term or condition of the general permit and/or other applicable resonally examined and am familiar with the information submitted on this t, based on my inquiry of those individuals immediately responsible for ion is true, accurate, and complete. I am aware that there are significant possibility of fine or imprisonment.
Company Official Signature	Office of Oil and Gas
Company Official (Typed Name) Raymond Hoon	NOV 2 8 2017
Company Official Title Permitting Supervisor	W/Done :
	W/Department of Environmental Protection
Subscribed and sworn before me this 8 da  My commission expires 111 371 202	JONATHAN D. JONES Notary Public Official Seal State of West Virginia Notary Public My Comm. Expires Nov 27, 2021 One Dominion Drive Jane Lew WV 26378

Form WW-9

0.17.0	Operato	ors well No	SHR31HSM
CNX Gas Company LLC			
roposed Revegetation Treatment: Acres Disturbed 41.57	Prevegetation	on pH 6.0	
Lime 2-3 Tons/acre or to correct to p	он		
Fertilizer type 10-20-20 or equal	-		
Fertilizer amount 500	lbs/acre		
Mulch hay or straw at 2 Tons	s/acre		
<u>Se</u>	eed Mixtures		
Temporary	Pe	ermanent	
Seed Type lbs/acre	Seed Type		lbs/acre
Tall Fescue 40	Tall Fescue	40	
Ladino Clover 5	Ladino Clover	5	
Maps(s) of road, location, pit and proposed area for land appl rovided). If water from the pit will be land applied, include a creage, of the land application area.	lication (unless engineered plans i dimensions (L x W x D) of the pit	ncluding thi , and dimen	s info have been sions (L x W), and ar
Attach:  Maps(s) of road, location, pit and proposed area for land application area for land application area.  Photocopied section of involved 7.5' topographic sheet.	lication (unless engineered plans i dimensions (L x W x D) of the pit	ncluding thi , and dimen	s info have been sions (L x W), and ar
Maps(s) of road, location, pit and proposed area for land application. If water from the pit will be land applied, include occeage, of the land application area.  The hotocopied section of involved 7.5' topographic sheet.  Italian Approved by: Desel M. Haught	lication (unless engineered plans i dimensions (L x W x D) of the pit	ncluding thi , and dimen	s info have been sions (L x W), and ar
Maps(s) of road, location, pit and proposed area for land application. If water from the pit will be land applied, include occeage, of the land application area.  hotocopied section of involved 7.5' topographic sheet.  lan Approved by: Desel M. Haught	lication (unless engineered plans i dimensions (L x W x D) of the pit	ncluding thi	s info have been sions (L x W), and ar
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Maps(s) of road, location, pit and proposed area for land application area.  Photocopied section of involved 7.5' topographic sheet.  Plan Approved by:  Desek M. Haught	lication (unless engineered plans i dimensions (L x W x D) of the pit	ncluding thi	sions (L x W), and ar

WW-9 (9/13)

API Number 47 - 095	•
Operator's Well No	SHR 31 AHS

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

#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Watershed (HUC 10) huc-10 Mc Eiroy Creek  Quadrangle  Shirley  District  District  Mc Eiroy  Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No  If so, please describe anticipated pit waste: closed loop-no utilization of a pil  Will a pit be used? Yes No  If so, please describe anticipated pit waste: closed loop-no utilization of a pil  Will asynthetic liner be used in the pir? Yes No  If so, what mi.?  Proposed Disposal Method For Treated Pit Wastes:  Land Application  Pudderground Injection (UIC Permit Number see attached sheet  Reuse (A PI Number at neat andelepated well and the pit of the proposed of the pit of th	Operator Name Noble Energy, Inc.	OP Code 494501907	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No Will a pit be used? Yes No Solution of the complete the proposed well work? Yes No No Solution of the complete the proposed bull work? Yes No No No Solution of the pit? Yes No No Solution of a pit Will a synthetic liner be used in the pit? Yes No Solution of a pit If so, what ml?  Proposed Disposal Method For Treated Pit Wastes:  Land Application  B. Underground Injection ( UIC Permit Number see attached sheet  B. OIT Site Disposal (Supply form WW-9 for disposal location)  Other (Explain)  Will closed loop system be used? If so, describe: Yes  Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.  If oil based, what type? Synthetic, petroleum, etc. Synthetic  Additives to be used in drilling medium? Plassas see attached aheat  Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc.  If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)  Learlify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT is used on August I, 2008, by the Office of Oil and Gas of the West Virginis Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable aw or regulation can lead to enforcement section.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this pipelication form and all attachments are consulted and any inquiry of those individuals immediately responsible for blaning the information, helding the possibility of fine or imprisonment.  RECEIVED Office of Oil and Gas Only 28 2017  WD Department of Environmental Protection  Environmental Protection  Friday Public  Notary Public	Watershed (HUC 10)_huc-10 Mc Elroy Creek	Quadrangle Shirley	
Will a pit be used? Yes No	Elevation 1111' County 095-Tyler	District Mc Etroy	
Will a synthetic liner be used in the pif? Yes No If so, what ml.?  Proposed Disposal Method For Treated Pit Wastes:  Land Application  B Underground Injection (UIC Permit Number see attached sheet)  C Reuse (at API Number at next enticipated weil Office (Explain Other (Expla	Will a pit be used? Yes No		
Proposed Disposal Method For Treated Pit Wastes:    Land Application			
Land Application  B Underground Injection ( UIC Permit Number see attached sheet  B Reuse (at API Number at next anticipated weil  D OIT Site Disposal (Supply form WW-9 for disposal location)  Other (Explain  Will closed loop system be used? If so, describe: Yes  Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.  If oil based, what type? Synthetic, petroleum, etc Synthetic  Additives to be used in drilling medium? Please see attached sheet  Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc.  If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)  Landfill or offsite name/permit number? please see attached sheet  I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable aw or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for bleating the information, believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, heluding the possibility of fine or imprisonment.  Company Official Title Regulatory Analyst  Subscribed and Sworn before me this O day of Milwen Mar Notary Public  Notary Public	,	No If so, what ml.?	
Bruse (at API Number at next anticipated well  Off Sire Disposal (Supply form WW-9 for disposal location) Other (Explain  Will closed loop system be used? If so, describe: Yes  Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. *** -If oil based, what type? Synthetic, petroleum, etc.Synthetic Additives to be used in drilling medium? Please see attached sheet  Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc.  -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) -Landfill or offsite name/permit number? **Please see attached sheet  I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginis Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable have or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penaltics for submitting false information, including the possibility of fine or imprisonment.  Company Official Title Regulatory Analyst  Subscribed and swom before me this // day of // Millern have 1, 20, 14  Notary Public	Land Application	· · · · · · · · · · · · · · · · · · ·	1/21/17
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. ************************************	Reuse (at API Number at next antic	dpated well	
-If oil based, what type? Synthetic, petroleum, etc. Synthetic  Additives to be used in drilling medium? Please see attached sheet  Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc.  -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)  -Landfill or offsite name/permit number? please see attached sheet  I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature  Company Official Title Regulatory Analyst  Occupance of Signature  Company Official Title Regulatory Analyst  Occupance of Signature  Company Official Title Regulatory Analyst  Occupance of Signature  Occupan	Will closed loop system be used? If so, describe: yes		
Additives to be used in drilling medium? Please see attached sheet  Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc	Drilling medium anticipated for this well (vertical and horizont	tal)? Air, freshwater, oil based, etc. Solar based and brough returned at strong from	
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-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)  -Landfill or offsite name/permit number? please see attached sheet  I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature  Company Official Title Regulatory Analyst  Company Official Title Regulatory Analyst  Notary Public  Notary Public	Additives to be used in drilling medium? Please see attached a	sheet	
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Company Official Signature Company Official (Typed Name) Kim Ward/Dee Swiger Company Official Title Regulatory Analyst  Company Official Title Regulatory Analyst  Subscribed and sworm before me this /// day of /// Notary Public  Notary Public  RECEIVED Office of Oil and Gas  NOV 2 8 2017  Wordson Wy 245122  WW Department of Environmental Protection	on August 1, 2005, by the Office of Oil and Gas of the West Vi provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally application form and all attachments thereto and that, based obtaining the information, I believe that the information is t	irginia Department of Environmental Protection. I understand the fany term or condition of the general permit and/or other application of the general permit and/or other application of the general permit and/or other application of the same individuals immediately responsible true, accurate, and complete. I am aware that there are significant.	at the cable 1 this e for
Company Official (Typed Name) Kim Ward/Dee Swiger  Company Official Title Regulatory Analyst  Company Official Title Regulatory Analyst  Subscribed and sworm before me this // day of // (I/Vem // 20.14)  Notary Public  Notary Public  Notary Public		•	RECEIVED
Company Official Title Regulatory Analyst  NOV 28 2017  Debres J Swigar 235-College Analyst  Wasten by 20452  Wy Department of Environmental Protection  Notary Public			
Subscribed and sworn before me this // day of Notary Public  Notary Public  Wy Department of Environmental Protection		Dotores J Swigar 235 College Avenue	NOV 2 8 2017
28	Subscribed and sworn before me this day of	November . 20 14	WV Department of Environmental Protection
My commission expires UB/18/2023	A LE ST	Notary Public	
	viy commission expires on 19/2023		

	Form WW-9			SHR 31 AHS ell No	·-
Noble Energy, li	nc.				_
Proposed Revegetation Tr	eatment: Acres Disturbed	41.57	Prevegetation pH	6.0	
Lime	Tons/acre or to correct	to pH			
	0-20-20 or equal				
Fertilizer amount		lbs/acre			
	Straw at 2	Fons/acre			
		Seed Mixtures			
	Temporary		Perman	ent	
Seed Type	lbs/acre		Seed Type	lbs/acre	
Tall Fescue	40	Tail Fe	escue	40	<u> </u>
Ladino Clover	5	Ladino	Clover	5	_
**alternative seed mixture:	s are shown on the Site Design.				
rawing(s) of road, location	on, pit and proposed area for lar	nd application (unle	ess engineered plans incl	uding this info have be	en
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Photocopied section of inv	olved 7.5' topographic sheet.		peration.	Off	—RECEIVED loce of Oil and Ga

#### **Cuttings Disposal/Site Water**

#### **Cuttings - Haul off Company:**

Eap Industries, Inc. DOT # 0876278 1575 Smith Two State Rd. Atlasburg, PA 15004 1-888-294-5227

Waste Management 200 Rangos Lane Washington, PA 15301 724-222-3272

Environmental Coordination Services & Recycling (ECS&R) 3237 US Highway 19 Cochranton, PA 16314 814-425-7773

#### **Disposal Locations:**

Apex Environnemental, LLC Permit # 06-08438 11 County Road 78 Amsterdam, OH 43903 740-543-4389

Westmoreland Waste, LLC Permit # 100277 111 Conner Lane Belle Vernon, PA 15012 724-929-7694

Sycamore Landfill Inc. Permit #R30-079001 05-2010 4301 Sycamore Ridge Road Hurricane, WV 25526 304-562-2611

Max Environnemental Technologies, Inc. facility Permit # PAD004835146 / 301071 233 Max Lane Yukon, PA 25968 724-722-3500

Max Environnemental Technologies, Inc. Facility Permit # PAD05087072 / 301359 200 Max Drive Bulger, PA 15019 724-796-1571

Waste Management Kelly Run Permit # 100663 1901 Park Side Drive Elizabeth, PA 15037

Waste Management South Hills (Arnoni) Permit # 100592 3100 Hill Road Library, PA 15129 724-348-7013

Waste Management Arden Permit # 100172 200 Rangos Lane Washington, PA 15301 724-222-3272

Waste Management Meadowfill Permit # 1032 1488 Dawson Drive Bridgeport, WV 26330

Brooke County Landfill Permit # SWF-103-97 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 304-748-0014 RECEIVED Office of Oil and Gas

NOV 28 2017

Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martinsville, WV 26035 304-455-3800

Energy Solutions, LLC Permit # UT 2300249 423 West 300 South Sulte 200 Salt Lake City, UT 84101

Energy Solutions Services, Inc. Permit # R-73006-L24 1560 Bear Creek Road Oak Ridge, TN 37830

#### **Water Haul off Companies:**

Dynamic Structures, Clear Creek DOT # 720485 3790 State Route 7 New Waterford, OH 44445 330-892-0164

#### **Disposal Locations:**

Solidification Waste Management, Arden Landfill Permit # 100172 200 Rangos Lane Washington, PA 15301 724-225-1589

Solidification/Incineration Soil Remediation, Inc. Permit # 02-20753 6065 Arrel-Smith Road Lowelville, OH 44436 330-536-6825

Adams #1 Permit # 34-031-2-7177 23986 Airport Road Coshocton, OH 43812 740-575-4484

Adams #2 Permit # 34-031-2-7178 740-575-4484

> RECEIVED Office of Oil and Gas

NOV 28 2017



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WV Department of WV Department of Environmental Protection

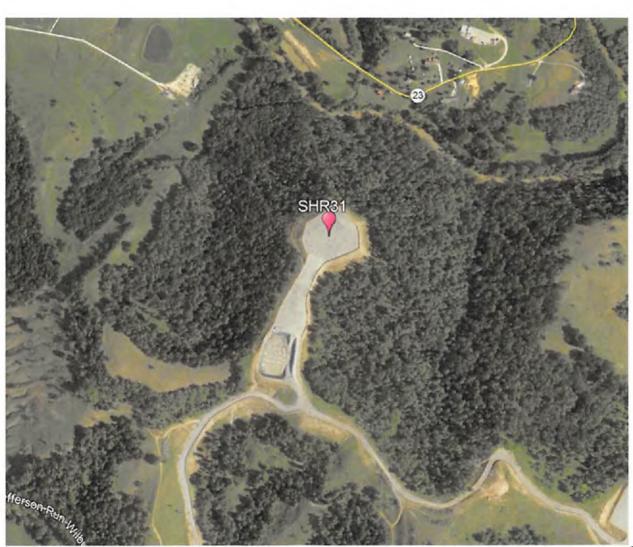
# Site Safety Plan for Well SHR31HSM **CNX Gas Company, LLC.**

DMH 11/29/17





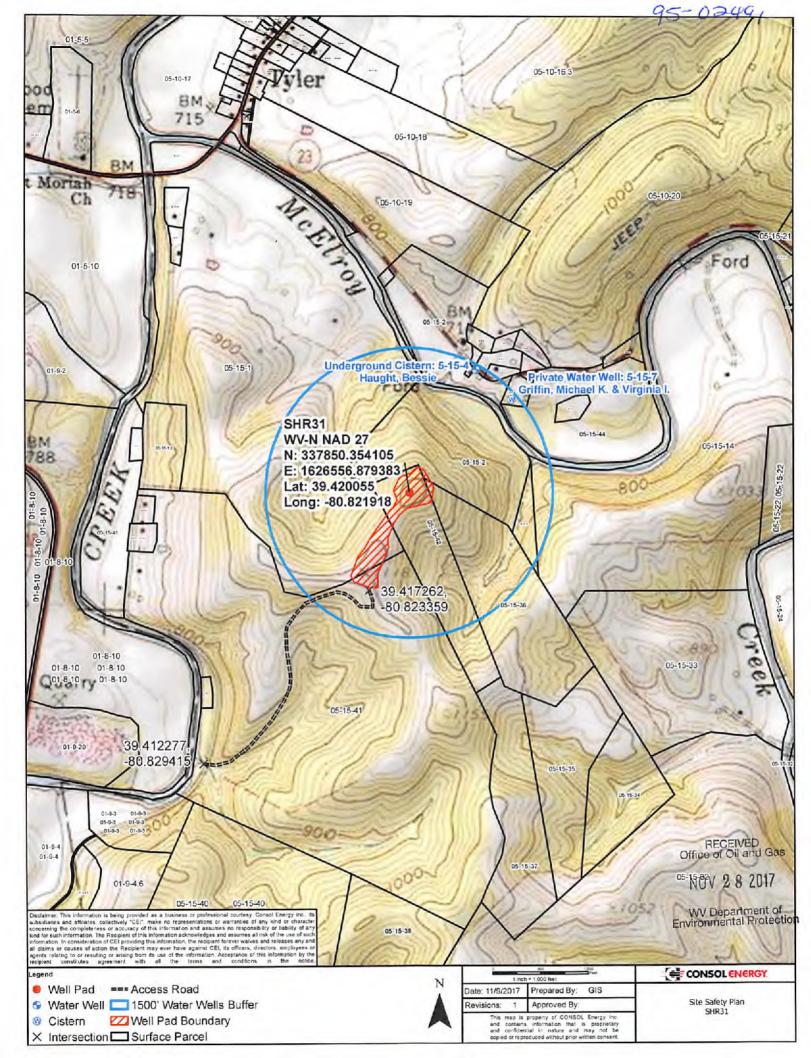
# Site Safety Plan for Well SHR31HSM CNX Gas Company, LLC.

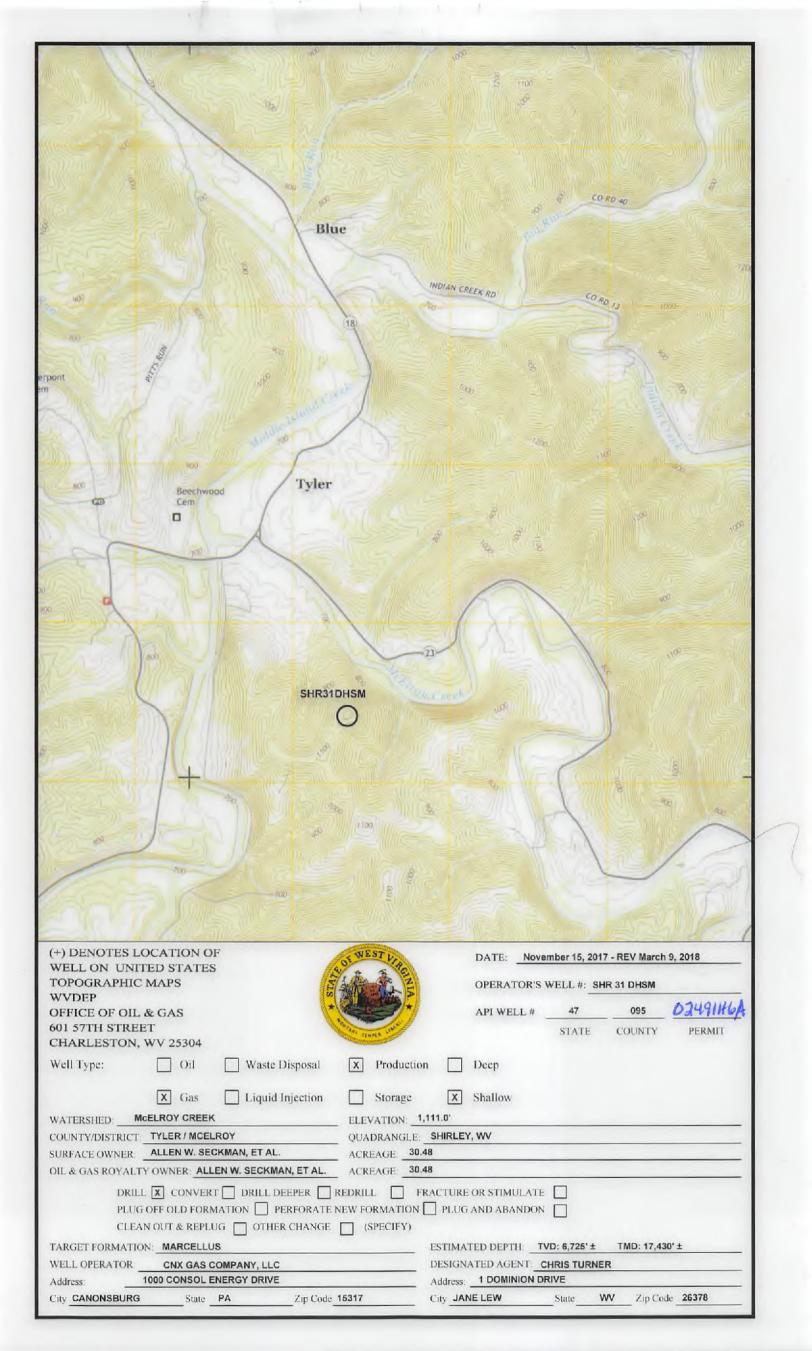


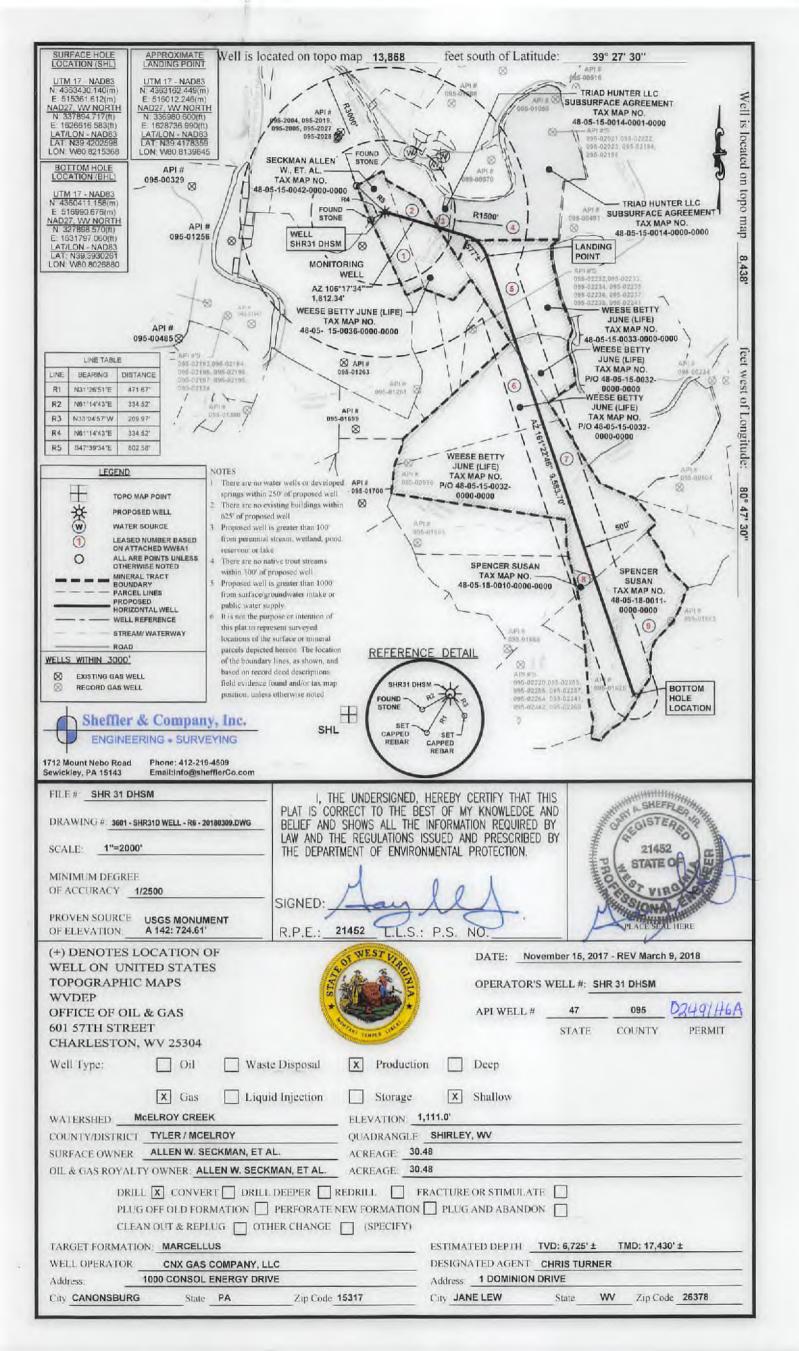
Office of Oil and Gas

NOV 28 2017

WV Department of Environmental Protection







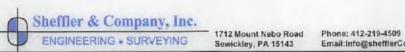
Well is local	red on topo map 8,611'	feet south of Latitude: 39	° 25' 00"
		BHL	Well is located on topo map 3,115 feet west of Longitude: 80° 47' 30"
Sheffler & Company, Inc. ENGINEERING • SURVEYING  1712 Mount Nebo Road Sewickley, PA 15143  Phone: 412-219-4509 Email:info@shefflerCo.com  FILE #: SHR 31 DHSM  DRAWING #: 3601 - SHR31D WELL - R6 - 20180309.DWG  SCALE: 1"=2000'  MINIMUM DEGREE OF ACCURACY: 1/2500  PROVEN SOURCE USGS MONUMENT OF ELEVATION: A 142: 724.61'	I, THE UNDERSIGNED, HE PLAT IS CORRECT TO THE BEST BELIEF AND SHOWS ALL THE IN LAW AND THE REGULATIONS ISSETHE DEPARTMENT OF ENVIRONMENT OF E	FORMATION REQUIRED BY UED AND PRESCRIBED BY IENTAL PROTECTION.	SHEFFL STATE OF VIRS PLACE SEAL HERE
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304 Well Type:	e Disposal X Production  d Injection Storage  ELEVATION: 1,11	DATE: November 15, 2  OPERATOR'S WELL #: 47  API WELL # 47  STATE  Deep  X Shallow	017 - REV March 9, 2018 SHR 31 DHSM  095 COUNTY  PERMIT
COUNTY/DISTRICT: TYLER / MCELROY SURFACE OWNER: ALLEN W. SECKMAN, ET A OIL & GAS ROYALTY OWNER: ALLEN W. SECK DRILL X CONVERT DRILL	QUADRANGLE: \$  AL. ACREAGE: 30.48  MAN, ET AL. ACREAGE: 30.48  DEEPER REDRILL FRA PERFORATE NEW FORMATION SIER CHANGE (SPECIFY)  LC I	ACTURE OR STIMULATE	

Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
05-15-42	261711000	Lillie Seckman	Drilling Appalachian Corporation	Not less than 1/8	DB 268/475
		Drilling Appalachian Corporation	Dominion Appalachian Development Properties LLC	Assignment	322/190
		Dominion Appalachian Development Properties LLC	CONSOL Gas Appalachian Development Properties LLC	Certificate of Incorporation	CIB 9/124
		CONSOL Gas Appalachian Development Properties LLC	CONSOL Gas Reserves Inc.	Merger	CIB 9/144
		CONSOL Gas Reserves Inc.	CONSOL Gas Company	Merger	CIB 9/156
		CONSOL Gas Company	CNX Gas Company LLC	Merger	Barbour CIB 17/1
		CNX Gas Company LLC	Noble Energy Inc.	50% Assignment	DB 388/286
		CNX Gas Company LLC	Drilling Appalachian Corporation	Corrective Assignment	401/342
		Noble Energy Inc.	CNX Gas Company LLC	Corrective Assignment	402/704
		Drilling Appalachian Corporation	Antero Resources Appalachian Corporation	Assignment	401/499
		Antero Resources Corporation	CNX Gas Company LLC and Noble Energy Inc.	Assignment	LB 422/517
		Noble Energy Inc.	CNX Gas Company LLC	Assignment	DB 550/273
Tax Map & Parcel	Title Opinion QL5#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
5-15-36	282099000	Everett Roy Weese and Betty June Weese	Triad Hunter LLC	Not less than 1/8	378/195
		Triad Hunter LLC	CNX Gas Company LLC	Assignment	Not yet recorded (Attached)
Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
5-15-14 5-15-14.1	282097000 282098000	Everett Roy Weese and Betty June Weese	Triad Hunter LLC	Not less than 1/8	378/195
		Triad Hunter LLC	CNX Gas Company LLC	Subsurface Easement and Right of Way	Not yet recorded (Attached)



	ewickley, PA 1514	+5 Email.	mugshemercu	.com	
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS		ATE: Nove			9, 2018
WVDEP OFFICE OF OIL & GAS	Al	PI WELL#	47	095	D249146A
601 57TH STREET CHARLESTON, WV 25304			STATE	COUNTY	PERMIT
Well Type: Oil Waste Disposal X Producti	on De	еер			
X Gas Liquid Injection Storage	X Sh	allow			
WATERSHED: McELROY CREEK ELEVATION:	1,111.0				
COUNTY/DISTRICT: TYLER/MCELROY QUADRANGLE		N			
SURFACE OWNER: ALLEN W. SECKMAN, ET AL. ACREAGE: 3					
OIL & GAS ROYALTY OWNER: ALLEN W. SECKMAN, ET AL. ACREAGE: 3					
DRILL X CONVERT DRILL DEEPER REDRILL PLUG OFF OLD FORMATION PERFORATE NEW FORMATION CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)					
TARGET FORMATION: MARCELLUS	ESTIMATED	DEPTH: T	/D: 6,725' ±	TMD: 17,43	30' ±
WELL OPERATOR CNX GAS COMPANY, LLC	DESIGNATE	D AGENT: C	HRIS TURNE	R	
Address: 1000 CONSOL ENERGY DRIVE	Address: 1	DOMINION D	RIVE		
City CANONSBURG State PA Zip Code 15317	City JANE L	EW	State V	W Zip Co	de <b>26378</b>

Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
5-15-33	238357000	Everett Roy Weese and Betty June Weese, h/w	KEPCO, Inc.	Not less than 1/8	232/30
		KEPCO, Inc.	Swift Energy Company	Assignment (50%)	254/5
		KEPCO	Union Drilling, Inc.	Merger	WV Sec of State
		Union Drilling Inc.	Equitable Resources Exploration, Inc.	Name Change	WV Sec of State
		Equitable Resources Exploration, Inc.	Swift Energy Company	Assignment (50%)	275/566
		Swift Energy Company	Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)	Assignment	287/352
		Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)	Peake Energy, Inc.	Assignment	319/291
		Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)	Peake Energy, Inc.	Corrective Assignment	321/652
		Peake Energy, Inc.	North Coast Energy Eastern, Inc.	Name Change	WV Sec of State
		North Coast Energy Eastern, Inc.	EXCO - North Coast Energy Eastern, Inc.	Name Change	WV Sec of State
		EXCO Resources (WV), LLC	EXCO Resources (WV), Inc. (49.75%) EXCO Resources (PA), Inc. (0.5%) BG Production Company (WV), LLC (49.75%)	Assignment	374/808
		EXCO Resources (WV), Inc. (49:75%)	EXCO Production Company (WV), LLC (49.75%)	Name Change	WV Sec of State
		EXCO Production Company (WV), LLC (49.75%) EXCO Resources (PA), Inc. (0.5%) BG Production Company (WV), LLC (49.75%)	Antero Resources Corporation	Assignment	406/195
		Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
		Gloria Morris	Four Leaf Land Company	Not less than 1/8	397/669
		Ralph T. Sweeney and Shelley A. Sweeney	Four Leaf Land Company	Not less than 1/8	397/675
		Donald Lee Sweeney	Four Leaf Land Company	Not less than 1/8	370/605
		Rodger A. Sweeney	Four Leaf Land Company	Not less than 1/8	370/611
		Devon Ruth Horsley (Sweeney)	Four Leaf Land Company	Not less than 1/8	370/629
		Anna Sweeney	Four Leaf Land Company	Not less than 1/8	370/635
		LaMoyne Sweeney	Four Leaf Land Company	Not less than 1/8	370/617
		Four Leaf Land Company	Antero Resources Appalachian Corporation	Assignment	403/566
		Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
		Four Leaf Land Company	Antero Resources Appalachian Corporation	Not less than 1/8	403/561
		Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
		Mary Sue Furbee Zebley	Noble Energy, Inc.	Not less than 1/8	440/447
		Thomas Val Furbee and Katherine Shelek-Furbee, h/w	Noble Energy, Inc.	Not less than 1/8	440/443
		Allison McKay Hardin (Allison Furbee Herring)	Noble Energy, Inc.	Not less than 1/8	440/453
		Rani J. Boyt	Noble Energy, Inc.	Not less than 1/8	445/835
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	484/288
		The state of the s	CNX Gas Company LLC	Assignment	550/273



ENGINEERING • SURVEYING	Sewickley, PA 15143 Email:Info@shefflerCo.com
(+) DENOTES LOCATION OF WELL ON UNITED STATES	DATE: November 15, 2017 - REV March 9, 2018
TOPOGRAPHIC MAPS	OPERATOR'S WELL #: SHR 31 DHSM
WVDEP OFFICE OF OIL & GAS	API WELL# 47 095 03491#6A
601 57TH STREET CHARLESTON, WV 25304	STATE COUNTY PERMIT
Well Type: Oil Waste Disposal X Produc	ction Deep
X Gas Liquid Injection Storag	e X Shallow
WATERSHED: MCELROY CREEK ELEVATION.	1,111.0
COUNTY/DISTRICT TYLER / MCELROY QUADRANG	LE; SHIRLEY, WV
SURFACE OWNER: ALLEN W. SECKMAN, ET AL. ACREAGE:	
OIL & GAS ROYALTY OWNER: ALLEN W. SECKMAN, ET AL. ACREAGE	30.48
DRILL X CONVERT DRILL DEEPER REDRILL PLUG OFF OLD FORMATION PERFORATE NEW FORMATIC CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY	ON PLUG AND ABANDON
TARGET FORMATION: MARCELLUS	ESTIMATED DEPTH: TVD: 6,725' ± TMD: 17,430' ±
WELL OPERATOR CNX GAS COMPANY, LLC	DESIGNATED AGENT: CHRIS TURNER
Address: 1000 CONSOL ENERGY DRIVE	Address: 1 DOMINION DRIVE
City CANONSBURG State PA Zip Code 15317	City JANE LEW State WV Zip Code 26378

Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
Part of 5-15-32	238357000	Everett Roy Weese and Betty June Weese, h/w	KEPCO, Inc.	Not less than 1/8	232/30
		KEPCO, Inc.	Swift Energy Company	Assignment (50%)	254/5
		KEPCO	Union Drilling, Inc.	Merger	WV Sec of Stat
		Union Drilling Inc.	Equitable Resources Exploration, Inc.	Name Change	WV Sec of Stat
		Equitable Resources Exploration, Inc.	Swift Energy Company	Assignment (50%)	275/566
		Swift Energy Company	Swift Energy Income Partners 1987-D Ltd (34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)	Assignment	287/352
		Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)	Peake Energy, Inc.	Assignment	319/291
		Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)	Peake Energy, Inc.	Corrective Assignment	321/652
		Peake Energy, Inc.	North Coast Energy Eastern, Inc.	Name Change	WV Sec of Stat
		North Coast Energy Eastern, Inc.	EXCO - North Coast Energy Eastern, Inc.	Name Change	WV Sec of Stat
		EXCO Resources (WV), LLC	EXCO Resources (WV), Inc. (49.75%) EXCO Resources (PA), Inc. (0.5%) BG Production Company (WV), LLC (49.75%)	Assignment	374/808
		EXCO Resources (WV), Inc. (49.75%)	EXCO Production Company (WV), LLC (49.75%)	Name Change	WV Sec of Stat
		EXCO Production Company (WV), LLC (49.75%) EXCO Resources (PA), Inc. (0.5%) BG Production Company (WV), LLC (49.75%)	Antero Resources Corporation	Assignment	406/195
		Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
		Gloria Morris	Four Leaf Land Company	Not less than 1/8	397/669
		Ralph T. Sweeney and Shelley A. Sweeney	Four Leaf Land Company	Not less than 1/8	397/675
		Donald Lee Sweeney	Four Leaf Land Company	Not less than 1/8	370/605
		Rodger A. Sweeney	Four Leaf Land Company	Not less than 1/8	370/611
		Devon Ruth Horsley (Sweeney)	Four Leaf Land Company	Not less than 1/8	370/629
		Anna Sweeney	Four Leaf Land Company	Not less than 1/8	370/635
		LaMoyne Sweeney	Four Leaf Land Company	Not less than 1/8	370/617
		Four Leaf Land Company	Antero Resources Appalachian Corporation	Assignment	403/566
		Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
		Four Leaf Land Company	Antero Resources Appalachian Corporation	Not less than 1/8	403/561
		Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
		Mary Sue Furbee Zebley	Noble Energy, Inc.	Not less than 1/B	000/007
		Thomas Val Furbee and Katherine Shelek-Furbee, h/w	Noble Energy, Inc.	Not less than 1/8	440/447
		Allison McKay Hardin (Allison Furbee Herring)	Noble Energy, Inc.	Not less than 1/8	1000000
		Rani J. Boyt		Not less than 1/8	440/453
		Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company LLC	Not less than 1/8	445/835
		Noble Energy, Inc.	The state of the s	Assignment (50%)	484/288
		Nobie Edergy, Inc.	CNX Gas Company LLC	Assignment	550/273



		ENGINEERING	Sewi	ckley, PA	15143 Email:	info@shefflerCe	o.com	
(+) DENOTES LO WELL ON UNIT			OF WEST VIAC		DATE: Nove	mber 15, 201	7 - REV March	9, 2018
TOPOGRAPHIC	MAPS	12	Z		OPERATOR'S	WELL#: SH	HR 31 DHSM	
WVDEP OFFICE OF OIL 601 57TH STREE		***			API WELL#	47 STATE	095 COUNTY	O2491H6A PERMIT
CHARLESTON,	WV 25304		The same of the sa					
Well Type:	Oil	Waste Disposal	X Production		Deep			
	X Gas	Liquid Injection	Storage	x	Shallow			
WATERSHED: MC	ELROY CREEK	Κ	ELEVATION: 1,1	11.0'				
COUNTY/DISTRICT:	TYLER / MCE	LROY	QUADRANGLE:	SHIRLE	Y, WV			
SURFACE OWNER:	ALLEN W. SE	CKMAN, ET AL.	ACREAGE: 30.48					
OIL & GAS ROYALT	Y OWNER: ALI	LEN W. SECKMAN, ET AL.	ACREAGE: 30.48					
PLUG	OFF OLD FOR	T DRILL DEEPER MATION PERFORATE UG OTHER CHANGE	NEW FORMATION					
TARGET FORMATIO	N MARCELLI	JS	1	ESTIMA	TED DEPTH: T	VD: 6,725' ±	TMD: 17,43	30' ±
WELL OPERATOR:	CNX GAS	COMPANY, LLC		DESIGN	ATED AGENT C	HRIS TURNE	R	
Address:	1000 CONSOL I	ENERGY DRIVE		Address	1 DOMINION D	RIVE		
City CANONSBURG	State	PA Zin Code	15317	City JAI	VELEW	State 1	MV Zin Co.	de 26378

ax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
Part of 5-15-32	238357000	Everett Roy Weese and Betty J. Weese, h/w	KEPCO, Inc.	Not less than 1/8	DB 232/30
		KEPCO, Inc.	Swift Energy Company	Assignment (50%)	254/5
		KEPCO	Union Drilling, Inc.	Merger	WV Sec of Sta
		Union Drilling Inc.	Equitable Resources Exploration, Inc.	Name Change	WV Sec of Stat
		Equitable Resources Exploration, Inc.	Swift Energy Company	Assignment (50%)	275/565
		Swift Energy Company	Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)	Assignment	287/352
		Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)	Peake Energy, Inc.	Assignment	319/291
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		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
		Gloria Morris	Four Leaf Land Company	Not less than 1/8	397/669
		Ralph T. Sweeney and Shelley A. Sweeney	Four Leaf Land Company	Not less than 1/8	397/675
		Donald Lee Sweeney	Four Leaf Land Company	Not less than 1/8	370/605
		Rodger A. Sweeney	Four Leaf Land Company	Not less than 1/8	370/611
		Devon Ruth Horsley (Sweeney)	Four Leaf Land Company	Not less than 1/8	370/629
		Anna Sweeney	Four Leaf Land Company	Not less than 1/8	370/635
		LaMoyne Sweeney	Four Leaf Land Company	Not less than 1/8	370/617
		Four Leaf Land Company	Antero Resources Appalachian Corporation	Assignment	403/566
		Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
		Four Leaf Land Company	Antero Resources Appalachian Corporation	Not less than 1/8	403/561
		Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
		Mary Sue Furbee Zebley	Noble Energy, Inc.	Not less than 1/8	440/447
		Thomas Val Furbee and Katherine Shelek-Furbee, h/w	Noble Energy, Inc.	Not less than 1/8	440/443
3		Allison McKay Hardin (Allison Furbee Herring)	Noble Energy, Inc.	Not less than 1/8	440/453
		Rani J. Boyt	Noble Energy, Inc.	Not less than 1/8	445/835
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment (50%)	484/288
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273



State PA

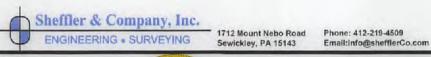
City CANONSBURG

City JANE LEW State WV Zip Code 26378

CATION OF WELL ON UNITED STATES   TOPOGRAPHIC MAPS   TOPOGRAPHIC MAP	ENGINEERING • SUF	VEYING Sewickley, PA 15143 Email:Info@shefflerCo.com
OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304  Well Type: Oil Waste Disposal X Production Deep  X Gas Liquid Injection Storage X Shallow  WATERSHED: MCELROY CREEK  COUNTY/DISTRICT TYLER/MCELROY OULD ARANGLE: SHIRLEY, WV  SURFACE OWNER ALLEN W. SECKMAN, ET AL. ACREAGE: 30.48  OIL & GAS ROYALTY OWNER: ALLEN W. SECKMAN, ET AL. ACREAGE: 30.48  OIL & GOVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON  CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)  TARGET FORMATION MARCELLUS  MARCELLUS  API WELL # 47  Deep  STATE COUNTY DEEPMIT  STATE COUNTY DEEPMIT  API WELL # 47  Deep  STATE COUNTY PERMIT  API WELL # 47  Deep  STATE COUNTY PERMIT  ACREAGE STATE COUNTY PERMIT  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON  CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)  TARGET FORMATION MARCELLUS  ESTIMATED DEPTH TVD: 6,725' ± TMD: 17,430' ±  WELL OPERATOR: CNX GAS COMPANY, LLC  DESIGNATED AGENT: CHRIS TURNER	WELL ON UNITED STATES TOPOGRAPHIC MAPS	1 1
WATERSHED: McELROY CREEK  COUNTY/DISTRICT TYLER / MCELROY  SURFACE OWNER ALLEN W. SECKMAN, ET AL.  OIL & GAS ROYALTY OWNER: ALLEN W. SECKMAN, ET AL.  DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON  CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)  TARGET FORMATION MARCELLUS  WELL OPERATOR: CNX GAS COMPANY, LLC  Storage X Shallow  ACREAGE SURFACE SHIRLEY, WV  ACREAGE 30.48  FRACTURE OR STIMULATE PLUG AND ABANDON STIMULATE SESTIMATED DEPTH TVD: 6,725' ± TMD: 17,430' ±  DESIGNATED AGENT: CHRIS TURNER	OFFICE OF OIL & GAS 601 57TH STREET	
COUNTY/DISTRICT: TYLER / MCELROY  SURFACE OWNER ALLEN W. SECKMAN, ET AL.  OIL & GAS ROYALTY OWNER: ALLEN W. SECKMAN, ET AL.  ORILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)  TARGET FORMATION MARCELLUS  WELL OPERATOR: CNX GAS COMPANY, LLC  OUNT SHIPLEY, WV  ACREAGE 30.48  FRACTURE OR STIMULATE  DESIGNATED DEPTH TVD: 6,725' ± TMD: 17,430' ±  DESIGNATED AGENT: CHRIS TURNER		
SURFACE OWNER ALLEN W. SECKMAN, ET AL. ACREAGE. 30.48  OIL & GAS ROYALTY OWNER: ALLEN W. SECKMAN, ET AL. ACREAGE: 30.48  DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)  TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD: 6,725' ± TMD: 17,430' ±  WELL OPERATOR: CNX GAS COMPANY, LLC DESIGNATED AGENT: CHRIS TURNER	WATERSHED: McELROY CREEK	ELEVATION: 1,111.0'
OIL & GAS ROYALTY OWNER: ALLEN W. SECKMAN, ET AL.  DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)  TARGET FORMATION MARCELLUS  WELL OPERATOR: CNX GAS COMPANY, LLC  ACREAGE: 30.48  FRACTURE OR STIMULATE STIMUL	COUNTY/DISTRICT TYLER / MCELROY	QUADRANGLE: SHIRLEY, WV
DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON  CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)  TARGET FORMATION MARCELLUS  ESTIMATED DEPTH TVD: 6,725' ± TMD: 17,430' ±  WELL OPERATOR: CNX GAS COMPANY, LLC  DESIGNATED AGENT: CHRIS TURNER	SURFACE OWNER: ALLEN W. SECKMAN, ET AL.	ACREAGE. 30.48
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)  TARGET FORMATION MARCELLUS  WELL OPERATOR: CNX GAS COMPANY, LLC  CNX GAS COMPANY, LLC  PLUG AND ABANDON CRAIN PLUG AND ABANDON CLEAN OUT & COMPANY LOCAL PROPERTY CHANGE OF CHANGE CHA	OIL & GAS ROYALTY OWNER: ALLEN W. SECKMAN, ET AL.	ACREAGE: 30.48
WELL OPERATOR: CNX GAS COMPANY, LLC DESIGNATED AGENT: CHRIS TURNER	PLUG OFF OLD FORMATION PERFORATE N	W FORMATION PLUG AND ABANDON
	TARGET FORMATION MARCELLUS	ESTIMATED DEPTH TVD: 6,725' ± TMD: 17,430' ±
Address: 1000 CONSOL ENERGY DRIVE Address: 1 DOMINION DRIVE	WELL OPERATOR: CNX GAS COMPANY, LLC	DESIGNATED AGENT: CHRIS TURNER
	Address: 1000 CONSOL ENERGY DRIVE	Address: 1 DOMINION DRIVE

Zip Code 15317

Parcel	Title Opinion QLS#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
05-15-32	238357000	Everett Roy Weese and Betty J. Weese, h/w	KEPCO, Inc.	Not less than 1/8	DB 232/30
		KEPCO, Inc.	Swift Energy Company	Assignment (50%)	254/5
		KEPCO	Union Drilling, Inc.	Merger	WV Sec of Stat
		Union Drilling Inc.	Equitable Resources Exploration, Inc.	Name Change	WV Sec of Stat
		Equitable Resources Exploration, Inc.	Swift Energy Company	Assignment (50%)	275/566
		Swift Energy Company	Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)	Assignment	287/352
		Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)	Peake Energy, Inc.	Assignment	319/291
		Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)	Peake Energy, Inc.	Corrective Assignment	321/652
		Peake Energy, Inc.	North Coast Energy Eastern, Inc.	Name Change	WV Sec of State
		North Coast Energy Eastern, Inc.	EXCO - North Coast Energy Eastern, Inc.	Name Change	WV Sec of Stat
		EXCO Resources (WV), LLC	EXCO Resources (WV), Inc. (49.75%) EXCO Resources (PA), Inc. (0.5%) BG Production Company (WV), LLC (49.75%)	Assignment	374/808
		EXCO Resources (WV), Inc. (49.75%)	EXCO Production Company (WV), LLC (49.75%)	Name Change	WV Sec of Stat
		EXCO Production Company (WV), LLC (49.75%) EXCO Resources (PA), Inc. (0.5%) BG Production Company (WV), LLC (49.75%)	Antero Resources Corporation	Assignment	406/195
		Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
		Gloria Morris	Four Leaf Land Company	Not less than 1/8	397/669
		Ralph T. Sweeney and Shelley A. Sweeney	Four Leaf Land Company	Not less than 1/8	397/675
		Donald Lee Sweeney	Four Leaf Land Company	Not less than 1/8	370/605
		Rodger A. Sweeney	Four Leaf Land Company	Not less than 1/8	370/611
		Devon Ruth Horsley (Sweeney)	Four Leaf Land Company	Not less than 1/8	370/629
		Anna Sweeney	Four Leaf Land Company	Not less than 1/8	370/635
		LaMoyne Sweeney	Four Leaf Land Company	Not less than 1/8	370/617
		Four Leaf Land Company	Antero Resources Appalachian Corporation	Assignment	403/566
		Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
		Four Leaf Land Company	Antero Resources Appalachian Corporation	Not less than 1/8	403/561
		Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
		Mary Sue Furbee Zebley	Noble Energy, Inc.	Not less than 1/8	440/447
		Thomas Val Furbee and Katherine Shelek-Furbee, h/w	Noble Energy, Inc.	Not less than 1/8	440/443
		Allison McKay Hardin (Allison Furbee Herring)	Noble Energy, Inc.	Not less than 1/8	440/453
		Rani J. Boyt	Noble Energy, Inc.	Not less than 1/8	445/835
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment (50%)	484/288
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273



State PA

City CANONSBURG

City JANE LEW

WV Zip Code 26378

State

(+) DENOTES LOCATION OF WELL ON UNITED STATES	OF WEST VIA	DATE: November 15, 2017 - REV March 9, 2018  OPERATOR'S WELL#: SHR 31 DHSM						
TOPOGRAPHIC MAPS								
WVDEP OFFICE OF OIL & GAS	- ·	API WELL#	47	095	02491H6A			
601 57TH STREET CHARLESTON, WV 25304	The trace store		STATE	COUNTY	PERMIT			
Well Type: Oil Was	e Disposal X Production	Deep						
🕱 Gas 🗌 Liqu	id Injection Storage X	Shallow						
WATERSHED MCELROY CREEK	ELEVATION 1,111.0							
COUNTY/DISTRICT: TYLER / MCELROY		QUADRANGLE: SHIRLEY, WV						
SURFACE OWNER: ALLEN W. SECKMAN, ET A								
OIL & GAS ROYALTY OWNER: ALLEN W. SECK	And the second s							
	DEEPER REDRILL FRACTURE PERFORATE NEW FORMATION PLUC PER CHANGE (SPECIFY)							
TARGET FORMATION MARCELLUS	ESTIMA	ESTIMATED DEPTH: TVD: 6,725' ± TMD: 17,430' ±						
WELL OPERATOR: CNX GAS COMPANY, L		DESIGNATED AGENT. CHRIS TURNER						
Address 1000 CONSOL ENERGY DRIV		Address 1 DOMINION DRIVE						

Zip Code 15317

Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
5-18-10	262760000	William Underwood Et al	The Hope Natural Gas Company, West Virginia	Not less than 1/8	55/370
		Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger	169/25
		Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	249/287
		Consolidated Gas Transmission Corporation	CNG Development Company	Assignment	253/57
		CNG Development Company	CNG Producing Company	Certificate of Withdrawal	WV Sec. of State
		CNG Producing Company	Dominion Exploration and Production	Articles of Incorporation	Harrison County Art. Of Inc. Book 58/356
		Dominion Exploration and Production Inc.	CONSOL Gas Company	Affidavit of Name Change	384/191
		CONSOL Gas Company	CNX Gas Company LLC	Affidavit of Name Change	384/191
		Susan L. Spencer et vir	Noble Energy, Inc.	Not less than 1/8	462/527
		Mona Lee Williams, a widow	Noble Energy, Inc.	Not less than 1/8	465/258
		Lloyd W. Underwood, et ux	Noble Energy, Inc.	Not less than 1/8	465/256
		Leola Frances Ray A/K/A Leola Ray et vir	Noble Energy, Inc.	Not less than 1/8	465/245
		Raymond V. Underwood et ux	Noble Energy, Inc.	Not less than 1/8	465/274
		Robert Errol Monroe et ux	Noble Energy, Inc.	Not less than 1/8	465/272
		Charles Gary Carder, a single man	Noble Energy, Inc.	Not less than 1/8	471/692
		Wayne Allan Carder, married dealing in his own sole an separate property	Noble Energy, Inc.	Not less than 1/8	471/688
		Noble Energy Inc.	CNX Gas Company LLC	Assignment (50%)	499/447
		Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
5-18-11	262762000	William Underwood Et al	The Hope Natural Gas Company, West Virginia	Not less than 1/8	55/370
- Granns		Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger	169/26
		Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	249/287
		Consolidated Gas Transmission Corporation	CNG Development Company	Assignment	253/57
		CNG Development Company	CNG Producing Company	Certificate of Withdrawal	WV Sec. of State
		CNG Producing Company	Dominion Exploration and Production	Articles of Incorporation	Harrison County Art. Of Inc. Book 58/366
		Dominion Exploration and Production Inc.	CONSOL Gas Company	Affidavit of Name Change	384/191
		CONSOL Gas Company	CNX Gas Company LLC	Affidavit of Name Change	384/191
		Susan L. Spencer and James Spencer, her husband	Noble Energy, Inc.	Not less than 1/8	465/268
		Robert Errol Monroe and Sandra Monroe, his wife	Noble Energy, Inc.	Not less than 1/8	465/622
		Leola Frances Ray a/k/a Leola Ray and Kenna Ray, her husband	Noble Energy, Inc.	Not less than 1/8	465/624
		Mona Lee Williams, a widow	Noble Energy, Inc.	Not less than 1/8	465/626
		Noble Energy Inc.	CNX Gas Company LLC	Assignment (50%)	499/447
		Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273



		ENOMINE - OF	STATE THE S	wickley, PA	15143 Email:	mo@snemerc	o,com	
(+) DENOTES LO WELL ON UNIT TOPOGRAPHIC	ED STATE		WEST VIAGEZ		DATE: Nove			9, 2018
WVDEP OFFICE OF OIL & 601 57TH STREE CHARLESTON, V	Т	V	TO THE STATE OF TH		API WELL#	47 STATE	COUNTY	D249146A PERMIT
Well Type:	Oil	Waste Disposal	x Production	on 🗌	Deep			
WATERSHED: Mc	X Gas	Liquid Injection	Storage ELEVATION:	X 1,111.0'	Shallow			
COUNTY/DISTRICT			QUADRANGLE		Y. WV			
SURFACE OWNER.			ACREAGE: 30		.,			
		LEN W. SECKMAN, ET AL.	ACREAGE: 30					
PLUG	OFF OLD FOR	T DRILL DEEPER DMATION PERFORATE UG DTHER CHANGE	NEW FORMATION	1		_		
TARGET FORMATION	MARCELLI	JS	_	ESTIMA	TED DEPTH: T	VD: 6,725' ±	TMD: 17,43	30' ±
WELL OPERATOR	CNX GAS	COMPANY, LLC			ATED AGENT: C			
The second secon		ENERGY DRIVE			1 DOMINION DI			
City CANONSBURG	State	PA Zip Code	15317		NE LEW	0.00	NV Zip Co	de <b>26378</b>

Operator's Well No.	SHR31DHSM
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#### INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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

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

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
0				

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, L	LC
By:	Raymond Hoon	Knu Pan
Its:	Permitting Supervisor	

Page 1 of \_\_\_\_

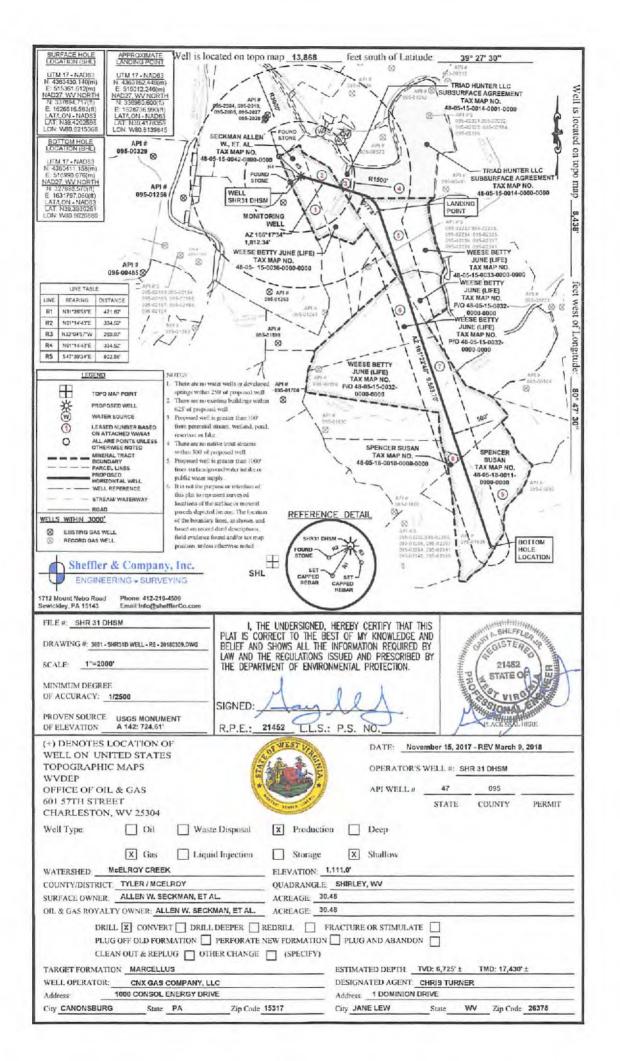
	Title Opinion	Grantor, Lessor, etc	Grantee, Lessee, etc		
Parcel	OLS#	<del></del>		Roveity	Book/Page
05-15-42	261711000	Lillie Seckman	Drilling Appalachian Corporation	Not less than 1/8	DB 268/475
		Drilling Appalachian Corporation	Dominion Appalachian Development Properties LLC	Assignment	322/190
		Dominion Appalachian Development Properties LLC	CONSOL Gas Appalachian Development Properties LLC	Certificate of Incorporation	CIB 9/124
		CONSOL Gas Appalachian Development Properties LLC	CONSOL Gas Reserves Inc.	Merger	CIB 9/144
		CONSOL Gas Reserves Inc.	CONSOL Gas Company	Merger	CIB 9/156
		CONSOL Gas Company	CNX Gas Company LLC	Merger	Barbour CIB 17/1
		CNX Gas Company LLC	Noble Energy Inc.	SO% Assignment	D8 388/286
		CNX Gas Company LLC	Drilling Appalachian Corporation	Corrective Assignment	401/342
		Noble Energy Inc. Drilling Appalachian Corporation	CNX Gas Company LLC	Corrective Assignment	402/704
		Antero Resources Corporation	Antero Resources Appalachian Corporation CNX Gas Company LLC and Noble Energy Inc.	Assignment Assignment	401/499 LB 422/517
		Noble Energy Inc.	CNX Gas Company LLC	Assignment	DB 550/273
		The state of the s	crax day company acc	Assignment.	00 330/273
	Title Opinion	Grantor, Lessor, etc	Grantee, Lessee, etc		
Parcel	OLS#			Royalty	Book/Page
5-15-36	282099000	Everett Roy Weese and Betty June Weese	Triad Hunter LLC	Not less than 1/8	378/195
		Triad Hunter LLC	CNX Gas Company LLC	Assignment	582/188
Tax Man &	Title Opinion				
Parcel	QLS#	Grantor, Lessor, etc	Grantee, Lessee, etc		
				Royalty	Book/Page
5-15-14	282097000				_
5-15-14.1	282098000	Everett Roy Weese and Betty June Weese	Triad Hunter LLC	Not less than 1/8	378/195
		Triad Hunter LLC	CNX Gas Company LLC	Subsurface Easement and Right of Way	582/199
Tax Map &	Title Opinion		C		
Parcel	QLS#	Grantor, Lessor, etc	Grantee, Lessee, etc	Downto.	Book/Page
5-15-33	228367000	Everett Roy Weese and Betty June Weese, h/w	KEPCO, Inc.	Royalty Not less than 1/8	232/30
3-13-33	230337000	KEPCO, Inc.	Swift Energy Company	Assignment (50%)	254/5
		KEPCO, IIIC.	Union Drilling, Inc.	Merger	WV Sec of State
		Union Drilling Inc.	Equitable Resources Exploration, Inc.	Name Change	WV Sec of State
		Equitable Resources Exploration, Inc.	Swift Energy Company	Assignment (50%)	275/566
		Equipment in sources expensionary me.	Swift Energy Income Partners 1987-D Ltd. (34%)	,	2.2,202
			Swift Energy Income Partners 1988-A Ltd. (33%)		
		Swift Energy Company	Swift Energy Income Partners 1988-B Ltd. (22%)	Assignment	287/352
			Swift Energy Income Partners 1988-1 Ltd. (11%)		
		Swift Energy Income Partners 1987-D Ltd. (34%)			
		Swift Energy Income Partners 1988-A Ltd. (33%)	Peake Energy, Inc.	Assignment	319/291
		Swift Energy Income Partners 1988-B Ltd. (22%)	reace chergy, mc.	rangiment	313/231
		Swift Energy Income Partners 1988-1 Ltd. (11%)			
		Swift Energy Income Partners 1987-D Ltd. (34%)			
		Swift Energy Income Partners 1988-A Ltd. (33%)	Peake Energy, Inc.	Corrective Assignment	321/652
		Swift Energy Income Partners 1988-B Ltd. (22%)			
		Swift Energy Income Partners 1988-1 Ltd. (11%)			
		Peake Energy, Inc.	North Coast Energy Eastern, Inc.	Name Change	WV Sec of State
		North Coast Energy Eastern, Inc.	EXCO - North Coast Energy Eastern, Inc.	Name Change	WV Sec of State
		THEO D	EXCO Resources (WV), Inc. (49.75%) EXCO Resources (PA), Inc. (0.5%)	Assignment	374/808
		EXCO Resources (WV), LLC		M270Buneur	374/606
		EXCO Resources (WV), Inc. (49.75%)	BG Production Company (WV), LLC (49.75%) EXCO Production Company (WV), LLC (49.75%)	Name Change	WV Sec of State
		EXCO Production Company (WV), LLC (49.75%)	EXCO FIGORERAL Company (STY), LLE (43.73%)	The same Calcaign	WW SCC OF STATE
		EXCO Resources (PA), Inc. (0.5%)	Antero Resources Corporation	Assignment	406/195
		8G Production Company (WV), LLC (49.75%)	7411210 112300 000 000 000 000 000 000 000 000 000		,
		Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
		Gloria Morris	Four Leaf Land Company	Not less than 1/8	397/669
		Ralph T. Sweeney and Shelley A. Sweeney	Four Leaf Land Company	Not less than 1/8	397/675
		Donald Lee Sweeney	Four Leaf Land Company	Not less than 1/B	370/60S
		Rodger A. Sweeney	Four Leaf Land Company	Not less than 1/8	370/611
		Devon Ruth Horsley (Sweeney)	Four Leaf Land Company	Not less than 1/8	370/629
		Anna Sweeney	Four Leaf Land Company	Not less than 1/8	370/635
		LaMoyne Sweeney	Four Leaf Land Company	Not less than 1/8	370/617
		Four Leaf Land Company Antero Resources Corporation	Antero Resources Appalachian Corporation CNX Gas Company LLC and Noble Energy, Inc.	Assignment Assignment	403/566 422/517
		•	CNX Gas Company LLC and reduce energy, inc.	Assignment	550/273
		Noble Energy, Inc.	con one company the	rangament	330/2/3
		Four Leef Land Company	Antero Resources Appalachian Corporation	Not less than 1/B	403/561
		Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
		Mary Sue Furbec Zebley	Noble Energy, Inc.	Not less than 1/8	440/447
		Thomas Val Furbee and Katherine Shelek-Furbee, h/w	Noble Energy, Inc.	Not less than 1/8	440/443
		Allison McKey Hardin (Allison Furbee Herring)	Noble Energy, Inc.	Not less than 1/8	440/453
		Rani J. Boyt	Noble Energy, Inc.	Not less than 1/8	445/835
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	484/288
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
Tax Map &	Title Opinion	L 6	Granton Lacena ata		
Parcel	OLS#	Grantor, Lossor, etc	Grantee, Lessee, etc	Royalty	Book/Page
				·	
Part of 5-15 32	238357000	Everett Roy Weese and Betty June Weese, h/w	KEPCO, Inc.	Not less than 1/8	232/30
34		KEPCO, Inc.	Swift Energy Company	Assignment (50%)	254/5
		KEPCO, INC.	Union Drilling, Inc.	Merger	WV Sec of State
		Union Drilling Inc.	Equitable Resources Exploration, Inc.	Name Change	WV Sec of State
		=	•	-	

		Equitable Resources Exploration, Inc.	Swift Energy Company	Assignment (50%)	275/566
		equiable nesources Exportation, me	Swift Energy Income Partners 1987-D Ltd. (34%)	Assgranent (50%)	273/300
			Swift Energy Income Partners 1988-A Ltd. (33%)		
		Swift Energy Company	Swift Energy Income Partners 1988-B Ltd. (22%)	Assignment	287/352
			Swift Energy Income Partners 1988-1 Ltd. (11%)		
		Swift Energy Income Partners 1987-D Ltd. (34%)			
		Swift Energy Income Partners 1988-A Ltd. (33%)	Peake Energy, Inc.	Assignment	319/291
		Swift Energy Income Partners 1988-B Ltd. (22%)	resac energy, inc.	Assignment	319/291
		Swift Energy Income Partners 1988-1 Ltd. (11%)			
		Swift Energy Income Partners 1987-D Ltd. (34%)			
		Swift Energy Income Partners 1988-A Ltd. (33%)	Peake Energy, Inc.	Corrective Assignment	321/652
		Swift Energy Income Partners 1988-B Ltd. (22%)	rease theret, me	Corecuse Assignment	321/032
		Swift Energy Income Partners 1988-1 Ltd. (11%)			
		Peake Energy, Inc.	North Coast Energy Eastern, Inc.	Name Change	WV Sec of State
		North Coast Energy Eastern, Inc.	EXCO - North Coast Energy Eastern, Inc.	Name Change	WV Sec of State
			EXCO Resources (WV), Inc. (49.75%)		
		EXCO Resources (WV), LLC	EXCO Resources (PA), Inc. (0.5%)	Assignment	374/808
			8G Production Company (WV), LLC (49.75%)		
		EXCO Resources (WV), Inc. (49.75%)	EXCO Production Company (WV), LLC (49.75%)	Name Change	WV Sec of State
		EXCO Production Company (WV), LLC (49.75%)			
		EXCO Resources (PA), Inc. (0.5%)	Antero Resources Corporation	Assignment	406/195
		BG Production Company (WV), LLC (49.75%)	MM = 4		
		Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
		Gioria Morris	Four Leaf Land Company	Not less than 1/8	207/550
		Raiph T. Sweeney and Shelley A. Sweeney	Four Leaf Land Company	Not less than 1/8	397/669 397/675
		Donald Lee Sweeney	Four Less Land Company	Not less than 1/8	370/605
		Rodger A. Sweeney	Four Leaf Land Company	Not less than 1/8	370/611
		Devon Ruth Horsley (Sweeney)	Four Lesf Land Company	Not less than 1/8	370/629
		Anna Sweeney	Four Leaf Land Company	Not less than 1/B	370/635
		LaMoyne Sweeney	Four Leaf Land Company	Not less than 1/8	370/617
		Four Leaf Land Company	Antero Resources Appalachian Corporation	Assignment	403/566
		Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
		notes and approximately and	City day dampant and	room.	320/273
		Four Leaf Land Company	Antero Resources Appalachian Corporation	Not less than 1/8	403/561
		Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
					33,212
		Mary Sue Furbee Zebley	Noble Energy, Inc.	Not less than 1/8	440/447
		Thomas Val Furbee and Katherine Shelek-Furbee, h/w	Nobio Energy, Inc.	Not less than 1/8	440/443
		Allison McKay Hardin (Allison Furbee Herring)	Noble Energy, Inc.	Not less than 1/8	440/453
		Rani J. Boyt	Noble Energy, Inc.	Not less than 1/8	445/835
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment (50%)	484/288
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
Tax Man &	Title Opinior				
Parcel	QLS#	Grantor, Lessor, etc	Grantee, Lessee, etc		
Parcel	QLS#	Grands, Carry, Etc.	Grantee, Lessee, etc	Royalty	Book/Page
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w	Grantec, Lessee, etc		
		Everett Roy Weeso and Betty J. Weeso, h/w	KEPCO, Inc.	Not less than 1/8	DB 232/30
Part of S-15-		Everett Roy Weeso and Betty J. Weeso, h/w KEPCO, Inc.	KEPCO, Inc Swift Energy Company	Not less than 1/8 Assignment (50%)	D8 232/30 254/5
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO	KEPCO, Inc. Swift Energy Company Union Drilling, Inc.	Not less than 1/8 Assignment (50%) Merger	DB 232/30 254/5 WV Sec of State
Part of S-15-		Everett Roy Weeso and Betty J. Weeso, h/w KEPCO, Inc. KEPCO Union Drilling Inc.	KEPCO, Inc. Swift Energy Company Union Drülling, Inc. Equitable Resources Exploration, Inc.	Not less than 1/8 Assignment (50%) Merger Name Change	DB 232/30 254/5 WV Sec of State WV Sec of State
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc.  Equitable Resources Exploration, Inc.  Swift Energy Company	Not less than 1/8 Assignment (50%) Merger	DB 232/30 254/5 WV Sec of State
Part of S-15-		Everett Roy Weeso and Betty J. Weeso, h/w KEPCO, Inc. KEPCO Union Drilling Inc.	KEPCO, Inc. Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Noome Partners 1987-D Ltd. [34%]	Not less than 1/8 Assignment (50%) Merger Name Change	DB 232/30 254/5 WV Sec of State WV Sec of State
Part of S-15-		Everett Roy Weeso and Betty J. Weeso, h/w KEPCO, Inc. KEPCO Union Drilling Inc.	KEPCO, Inc.  Swift Energy Company Union Drilling.  Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. [34%]  Swift Energy Income Partners 1988-A Ltd. [33%]	Not less than 1/8 Assignment (50%) Merger Name Change	DB 232/30 254/5 WV Sec of State WV Sec of State
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc.  Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%)	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%)	D8 232/30 254/5 WV Sec of State WV Sec of State 275/566
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc. Swift Energy Company	KEPCO, Inc.  Swift Energy Company Union Drilling.  Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. [34%]  Swift Energy Income Partners 1988-A Ltd. [33%]	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%)	D8 232/30 254/5 WV Sec of State WV Sec of State 275/566
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%)	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc.  Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%)	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%)	D8 232/30 254/5 WV Sec of State WV Sec of State 275/566
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (24%) Swift Energy Income Partners 1988-A Ltd. (33%)	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc.  Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%)	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%)	D8 232/30 254/5 WV Sec of State WV Sec of State 275/566
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%)  Swift Energy Income Partners 1988-B Ltd. (22%)	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1987-D Ltd. [34%) Swift Energy Income Partners 1988-B Ltd. [32%) Swift Energy Income Partners 1988-B Ltd. [22%) Swift Energy Income Partners 1988-1 Ltd. [11%)	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566 287/352
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%)	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1987-D Ltd. [34%) Swift Energy Income Partners 1988-B Ltd. [32%) Swift Energy Income Partners 1988-B Ltd. [22%) Swift Energy Income Partners 1988-1 Ltd. [11%)	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566 287/352
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%) Swift Energy Income Partners 1988-1 Ltd. (11%) Swift Energy Income Partners 1987-D Ltd. (34%)	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc.  Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (21%) Peake Energy, Inc.	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566 287/352
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (24%) Swift Energy Income Partners 1988-B Ltd. (34%)	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1987-D Ltd. [34%) Swift Energy Income Partners 1988-B Ltd. [32%) Swift Energy Income Partners 1988-B Ltd. [22%) Swift Energy Income Partners 1988-1 Ltd. [11%)	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566 287/352
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCD Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (21%) Swift Energy Income Partners 1988-D Ltd. (11%) Swift Energy Income Partners 1988-D Ltd. (13%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (32%) Swift Energy Income Partners 1988-B Ltd. (32%)	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc.  Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (21%) Peake Energy, Inc.	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566 287/352
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (24%) Swift Energy Income Partners 1988-B Ltd. (34%)	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc.  Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (21%) Peake Energy, Inc.	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566 287/352
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%) Swift Energy Income Partners 1988-1 Ltd. (34%) Swift Energy Income Partners 1988-1 Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (12%)	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%)  Peake Energy, Inc.	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment  Assignment  Corrective Assignment	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566 287/352 319/291
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Swift Energy Income Partners 1988-B Ltd. (24%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy Income Partners 1988-B Ltd. (11%) Peake Energy Income	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Income Partners 1987-D Ltd. [34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%)  Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc.	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment  Assignment  Corrective Assignment Name Change	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566 287/352 319/291
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Swift Energy Income Partners 1988-B Ltd. (24%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy Income Partners 1988-B Ltd. (11%) Peake Energy Income	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%)  Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc.	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment  Assignment  Corrective Assignment Name Change	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566 287/352 319/291
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCD Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (23%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-D Ltd. (11%) Swift Energy Income Partners 1988-D Ltd. (13%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc.  EXCO Resources (WV), LLC	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (21%) Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO Resources (WM), Inc. (49.75%) EXCO Resources (PA), Inc. (0.5%) BG Production Company (WV), LLC (49.75%)	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment  Assignment  Corrective Assignment Name Change Name Change	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566 287/352 319/291 321/652 WV Sec of State WV Sec of State
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%) Swift Energy Income Partners 1988-D Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc.	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1988-0 Ltd. (33%) Swift Energy Income Partners 1988-8 Ltd. (22%) Swift Energy Income Partners 1988-8 Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)  Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO -North Coast Energy Eastern, Inc. EXCO Resources (WV), Inc. (49.75%) EXCO Resources (PA), Inc. (0.5%)	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment  Assignment  Corrective Assignment Name Change Name Change	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566 287/352 319/291 321/652 WV Sec of State WV Sec of State
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCD Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (23%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-D Ltd. (11%) Swift Energy Income Partners 1988-D Ltd. (13%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc.  EXCO Resources (WV), LLC	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (21%) Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO Resources (WM), Inc. (49.75%) EXCO Resources (PA), Inc. (0.5%) BG Production Company (WV), LLC (49.75%)	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment  Corrective Assignment Name Change Name Change Assignment	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566 287/352 319/291 321/652 WV Sec of State WV Sec of State 374/808
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCD Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (23%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-D Ltd. (11%) Swift Energy Income Partners 1988-D Ltd. (13%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy Inc.  EXCO Resources (WV), LLC  EXCO Resources (WV), Inc. (49.75%) EXCO Production Company (WV), LLC (49.75%) EXCO Resources (PA), Inc. (0.5%)  EXCO Resources (PA), Inc. (0.5%)	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (21%) Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO Resources (WM), Inc. (49.75%) EXCO Resources (PA), Inc. (0.5%) BG Production Company (WV), LLC (49.75%)	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment  Corrective Assignment Name Change Name Change Assignment	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566 287/352 319/291 321/652 WV Sec of State WV Sec of State 374/808
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%) Swift Energy Income Partners 1988-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc.  EXCO Resources (WV), Ltc. EXCO Resources (WV), Inc. (49.75%) EXCO Production Company (WV), LtC (49.75%) EXCO Production Company (WV), LtC (49.75%) BGO Production Company (WV), LtC (49.75%)	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)  Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO Resources (WV), Inc. (49.75%) EXCO Resources (WV), Inc. (49.75%) EXCO Production Company (WV), LLC (49.75%) EXCO Production Company (WV), LLC (49.75%) Antero Resources Corporation	Not less than 1/B Assignment (50%) Merger Name Change Assignment (50%) Assignment  Assignment  Corrective Assignment  Name Change Name Change Assignment  Name Change	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566 287/352 319/291 321/652 WV Sec of State WV Sec of State 406/195
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc.  EXCO Resources (WV), ILC  EXCO Resources (WV), ILC (49.75%) EXCO Production Company (WV), LLC (49.75%) BY Production Company (WV), LLC (49.75%) Antero Resources Corporation	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)  Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO Resources (PA), Inc. (05%) EXCO Resources (PA), Inc. (05%) BG Production Company (WV), LLC (49.75%) EXCO Production Company (WV), LLC (49.75%) Antero Resources Corporation CNX Gas Company LLC and Noble Energy, Inc.	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment  Assignment  Corrective Assignment  Name Change Name Change Assignment  Name Change Assignment  Assignment  Assignment  Assignment	DB 232/30 254/5 WV Sec of State WV Sec of State WV Sec of State 275/566 287/352 319/291 321/652 WV Sec of State WV Sec of State WV Sec of State 406/195 422/517
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%) Swift Energy Income Partners 1988-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc.  EXCO Resources (WV), Ltc. EXCO Resources (WV), Inc. (49.75%) EXCO Production Company (WV), LtC (49.75%) EXCO Production Company (WV), LtC (49.75%) BGO Production Company (WV), LtC (49.75%)	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)  Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO Resources (WV), Inc. (49.75%) EXCO Resources (WV), Inc. (49.75%) EXCO Production Company (WV), LLC (49.75%) EXCO Production Company (WV), LLC (49.75%) Antero Resources Corporation	Not less than 1/B Assignment (50%) Merger Name Change Assignment (50%) Assignment  Assignment  Corrective Assignment Name Change Assignment Name Change Assignment	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566 287/352 319/291 321/652 WV Sec of State WV Sec of State 406/195
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%) Swift Energy Income Partners 1988-D Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc.  EXCO Resources (WV), Inc. (49.75%) EXCO Production Company (WV), LtC (49.75%) EXCO Production Company (WV), LtC (49.75%) BG Production Company (WV), LtC (49.75%) Antero Resources Corporation Noble Energy, Inc.	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)  Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO Resources (WV), Inc. (49.75%) EXCO Resources (WV), Inc. (49.75%) EXCO Production Company (WV), LLC (49.75%) EXCO Production Company (WV), LLC (49.75%) Antero Resources Corporation  CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company LLC	Not less than 1/B Assignment (50%) Merger Name Change Assignment (50%) Assignment  Assignment  Corrective Assignment Name Change Assignment Name Change Assignment Assignment Assignment Assignment	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566 287/352 319/291 321/652 WV Sec of State WV Sec of State 406/195 422/517 550/273
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCD Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-D Ltd. (11%) Swift Energy Income Partners 1988-D Ltd. (13%) Swift Energy Income Partners 1988-D Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc.  EXCO Resources (WV), LtC  EXCO Resources (WV), LtC  EXCO Resources (PA), Inc. (49.75%) EXCO Resources (PA), Inc. (6.5%) BG Production Company (WV), LtC (49.75%) Antero Resources Corporation Noble Energy, Inc. Gloria Mortis	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)  Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO Resources (PA), Inc. (05%) EXCO Production Company (WV), LLC (49.75%) EXCO Production Company (WV), LLC (49.75%) Antero Resources (PA), Inc. (05%) Antero Resources Corporation  CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company LLC Four Leaf Land Company	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment  Assignment  Corrective Assignment  Name Change Name Change Assignment  Name Change Assignment Name Change Assignment Not less than 1/8	DB 232/30 254/5 WV Sec of State WV Sec of State WV Sec of State 275/566  287/352  319/291  321/652 WV Sec of State WV Sec of State WV Sec of State 406/195  422/517 550/273 397/669
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (23%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Swift Energy Income Partners 1988-B Ltd. (24%) Swift Energy Income Partners 1988-B Ltd. (21%) Swift Energy Income Partners 1988-B Ltd. (11%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc.  EXCO Resources (WV), LLC  EXCO Resources (WV), LLC  EXCO Resources (PA), Inc. (49.75%) EXCO Production Company (WV), LLC (49.75%) Antero Resources (PA), Inc. (0.5%) BG Production Company (WV), LLC (49.75%) Antero Resources Corporation Noble Energy, Inc.  Gloria Morris Raiph T. Sweeney and Shelley A. Sweeney	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Encome Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (21%) Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO Resources (W), Inc. (49.75%) EXCO Production Company (WV), LLC (49.75%) Antero Resources Corporation  CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company LLC Four Last Land Company Four Last Land Company Four Last Land Company	Not less than 1/8 Assignment (50%) Merger Name Change Assignment Assignment  Corrective Assignment  Name Change Name Change Assignment  Name Change Assignment  Name Change Assignment  Not less than 1/8 Not less than 1/8	DB 232/30 254/5 WS Sec of State WV Sec of State 275/566 287/352 319/291 321/652 WV Sec of State WV Sec of State 374/808 WV Sec of State 406/195 422/517 550/273 397/669 337/675
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%) Swift Energy Income Partners 1988-1 Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc.  EXCO Resources (WV), Inc. (49.75%) EXCO Production Company (WV), LtC (49.75%) EXCO Production Company (WV), LtC (49.75%) BG Production Company (WV), LtC (49.75%) Antero Resources (PA), Inc. (0.5%) BG Production Company (WV), LtC (49.75%) Antero Resources Corporation Noble Energy, Inc.  Gloria Mortis Righ T. Sweeney and Shelley A. Sweeney Donald Lee Sweeney	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)  Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO Resources (WN), Inc. (49.75%) EXCO Resources (WN), Inc. (49.75%) EXCO Production Company (WV), LLC (49.75%) EXCO Production Company (WV), LLC (49.75%) Antero Resources Corporation  CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company LLC Four Leaf Land Company Four Leaf Land Company Four Leaf Land Company Four Leaf Land Company	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment  Assignment  Corrective Assignment  Name Change Name Change Assignment  Name Change Assignment  Name Change Assignment Not less than 1/8 Not less than 1/8 Not less than 1/8	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566 287/352 319/291 321/652 WV Sec of State WV Sec of State 406/195 422/517 550/273 397/669 397/675 370/605
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCD Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Swift Energy Income Partners 1988-D Ltd. (13%) Swift Energy Income Partners 1988-D Ltd. (13%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc.  EXCO Resources (WV), LtC  EXCO Resources (WV), LtC  EXCO Resources (PA), Inc. (49.75%) EXCO Resources (PA), Inc. (6.9%) BG Production Company (WV), LtC (49.75%) Antero Resources Corporation Noble Energy, Inc.  Gloria Morris Ralph T. Sweeney Rodger A. Sweeney Rodger A. Sweeney	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)  Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCD - North Coast Energy Eastern, Inc. EXCO Resources (PA), Inc. (05%) EXCO Resources (PA), Inc. (05%) EXCO Production Company (WV), LLC (49.75%) EXCO Production Company (WV), LLC (49.75%) Antero Resources Corporation  CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company LLC  Four Leaf Land Company	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment Assignment  Corrective Assignment Name Change Name Change Assignment Name Change Assignment Name Change Assignment Name Sassignment Name Change Assignment Name Lassignment Assignment Assignment Assignment Assignment Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8	DB 232/30 254/5 WV Sec of State WV Sec of State WV Sec of State 275/566  287/352  319/291  321/652 WV Sec of State WV Sec of State WV Sec of State 406/195  422/517 550/273  397/669 337/675 370/605 370/611
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-D Ltd. (34%) Swift Energy Income Partners 1988-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc.  EXCO Resources (WV), LLC  EXCO Resources (WV), LLC  EXCO Resources (PA), Inc. (0.5%) EXCO Resources (PA), Inc. (0.5%) BG Production Company (WV), LLC (49.75%) Antero Resources (PA), Inc. (0.5%) BG Production Company (WV), LLC (49.75%) Antero Resources Corporation Noble Energy, Inc.  Gloria Morris Raiph T. Sweeney and Shelley A. Sweeney Donald Lee Sweeney Poder A. Sweeney	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1983-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (21%) Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO Resources (WI), Inc. (49.75%) EXCO Resources (PA), Inc. (0.5%) BG Production Company (WV), Ltc (49.75%) EXCO Production Company (WV), Ltc (49.75%) Antero Resources Corporation  CNX Gas Company Ltc and Noble Energy, Inc. CNX Gas Company Ltc And Company Four Leaf Land Company	Not less than 1/8 Assignment (50%) Merger Name Change Assignment Assignment  Corrective Assignment  Name Change Name Change Assignment  Name Change Assignment  Name Sassignment  Name Sassignment  Not less than 1/8	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566 287/352 319/291 321/652 WV Sec of State WV Sec of State 406/195 422/517 550/273 397/649 397/675 370/629
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%) Swift Energy Income Partners 1988-D Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc.  EXCO Resources (WV), Inc. (49.75%) EXCO Production Company (WV), LtC (49.75%) EXCO Production Company (WV), LtC (49.75%) BG Production Company (WV), LtC (49.75%) Antero Resources (PA), Inc. (0.5%) BG Production Company (WV), LtC (49.75%) Antero Resources Corporation Noble Energy, Inc.  Gloria Mortis Ralph T. Sweeney and Shelley A. Sweeney Donald Lee Sweeney Rodger A. Sweeney Powon Ruth Horsley (Sweeney) Anna Sweeney	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%)  Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO Resources (WV), Inc. (49.75%) EXCO Resources (WV), Inc. (49.75%) EXCO Resources (PA), Inc. (0.5%) BYO Production Company (WV), LLC (49.75%) EXCO Production Company (WV), LLC (49.75%)  Antero Resources Corporation  CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company LLC  Four Leaf Land Company	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%)  Assignment  Assignment  Corrective Assignment  Name Change Name Change Assignment  Name Change Assignment  Name Change Assignment Name Sassignment Not less than 1/8	DB 232/30 254/5 WV Sec of State WV Sec of State WV Sec of State 275/566  287/352  319/291  321/652 WV Sec of State WV Sec of State 406/195  422/517 550/273  397/669 397/615 370/605 370/611 370/629 370/635
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCD Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-D Ltd. (11%) Swift Energy Income Partners 1988-D Ltd. (13%) Swift Energy Income Partners 1988-D Ltd. (13%) Swift Energy Income Partners 1988-B Ltd. (11%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. Rorth Coast Energy Eastern, Inc.  EXCO Resources (WV), LLC  EXCO Resources (WV), LLC  EXCO Resources (WV), LLC (49.75%) EXCO Production Company (WV), LLC (49.75%) EXCO Production Company (WV), LLC (49.75%) Antero Resources Corporation Noble Energy, Inc.  Gloria Mortis Ralph T. Sweeney Devon Ruth Horsley (Sweeney) Anna Sweeney Devon Ruth Horsley (Sweeney) Anna Sweeney	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)  Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO Resources (PA), Inc. (05%) EXCO Production Company (WV), LLC (49.75%) EXCO Production Company (WV), LLC (49.75%) Antero Resources (PA), Inc. (05%) Antero Resources (PA), Inc. (05%) Antero Resources (PA), Inc. (15%)  CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company LLC  Four Leaf Land Company	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%)  Assignment (50%)  Assignment  Assignment  Corrective Assignment  Name Change Name Change Assignment  Assignment  Name Change Assignment  Name Change  Assignment  Not less than 1/8	DB 232/30 254/5 W Sec of State W Sec of State 275/566  287/352  319/291  321/652  W Sec of State WV Sec of State 406/195  422/517 550/273  397/659 397/675 370/611 370/629 370/613 370/617
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Swift Energy Income Partners 1988-D Ltd. (14%) Swift Energy Income Partners 1988-B Ltd. (12%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc.  EXCO Resources (WV), LLC  EXCO Resources (WV), LLC  EXCO Resources (PA), Inc. (0.5%) BG Production Company (WV), LLC (49.75%) EXCO Resources (PA), Inc. (0.5%) BG Production Company (WV), LLC (49.75%) Antero Resources Corporation Noble Energy, Inc.  Gloria Morris Raiph T. Sweeney and Shelley A. Sweeney Donald Lee Sweeney Devon Ruth Horstey (Sweeney) Anna Sweeney Devon Ruth Horstey (Sweeney) Anna Sweeney Four Leaf Land Company	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1983-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (21%) Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO Pesources (PA), Inc. (0.5%) EXCO Production Company (WV), LLC (49.75%) EXCO Production Company (WV), LLC (49.75%) Antero Resources Corporation  CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company LLC Four Leaf Land Company Antero Resources Appalachian Corporation	Not less than 1/8 Assignment (50%) Merger Name Change Assignment Assignment  Corrective Assignment  Corrective Assignment  Name Change Name Change Assignment  Name Change Assignment  Name change Assignment Not less than 1/8 Assignment	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566  287/352  319/291  321/652  WV Sec of State WV Sec of State 406/195  422/517 550/273  397/609 397/675 370/629 370/631 370/629 370/635 370/611 370/629 370/635
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCD Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc.  EXCO Resources (WV), ILC  EXCO Resources (WV), ILC  EXCO Resources (WV), ILC (49.75%) EXCO Production Company (WV), ILC (49.75%) EXCO Resources (PA), Inc. (0.5%) BG Production Company (WV), ILC (49.75%) Antero Resources Corporation Noble Energy, Inc.  Gloria Morris Ralph T. Sweeney and Shelley A. Sweeney Dowon Ruth Horstey (Sweeney) Anna Sweeney LaMoyne Sweeney Four Leaf Land Company Antero Resources Corporation	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)  Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO Resources (INV), Inc. (49.75%) EXCO Resources (INV), Inc. (65%) BG Production Company (IVV), LLC (49.75%) EXCO Production Company (IVV), LLC (49.75%) Antero Resources (PA), Inc. (65%) Antero Resources Corporation  CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company LLC  Four Leaf Land Company	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%)  Assignment  Assignment  Corrective Assignment  Name Change Name Change Assignment  Name Change Assignment  Name Change Assignment  Not less than 1/8 Assignment Assignment	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566  287/352  319/291  321/652  WV Sec of State WV Sec of State 406/195  422/517 550/273  377/669 377/615 370/605 370/611 370/629 370/635 370/617 403/566 422/517
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Swift Energy Income Partners 1988-D Ltd. (14%) Swift Energy Income Partners 1988-B Ltd. (12%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc.  EXCO Resources (WV), LLC  EXCO Resources (WV), LLC  EXCO Resources (PA), Inc. (0.5%) BG Production Company (WV), LLC (49.75%) EXCO Resources (PA), Inc. (0.5%) BG Production Company (WV), LLC (49.75%) Antero Resources Corporation Noble Energy, Inc.  Gloria Morris Raiph T. Sweeney and Shelley A. Sweeney Donald Lee Sweeney Devon Ruth Horstey (Sweeney) Anna Sweeney Devon Ruth Horstey (Sweeney) Anna Sweeney Four Leaf Land Company	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1983-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (21%) Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO Pesources (PA), Inc. (0.5%) EXCO Production Company (WV), LLC (49.75%) EXCO Production Company (WV), LLC (49.75%) Antero Resources Corporation  CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company LLC Four Leaf Land Company Antero Resources Appalachian Corporation	Not less than 1/8 Assignment (50%) Merger Name Change Assignment Assignment  Corrective Assignment  Corrective Assignment  Name Change Name Change Assignment  Name Change Assignment  Name change Assignment Not less than 1/8 Assignment	DB 232/30 254/5 W Sec of State W Sec of State 275/566 287/352 319/291 321/652 WV Sec of State WV Sec of State 406/195 422/517 550/273 337/609 337/675 370/629 370/631 370/629 370/635 370/611 370/629 370/635
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCD Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc.  EXCO Resources (WV), ILC  EXCO Resources (WV), ILC  EXCO Resources (WV), ILC (49.75%) EXCO Production Company (WV), ILC (49.75%) EXCO Resources (PA), Inc. (0.5%) BG Production Company (WV), ILC (49.75%) Antero Resources Corporation Noble Energy, Inc.  Gloria Morris Ralph T. Sweeney and Shelley A. Sweeney Dowon Ruth Horstey (Sweeney) Anna Sweeney LaMoyne Sweeney Four Leaf Land Company Antero Resources Corporation	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1983-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (23%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (21%) Swift Energy Income Partners 1988-1 Ltd. (11%)  Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO Resources (WV), Inc. (49.75%) EXCO Resources (WV), Inc. (49.75%) EXCO Production Company (WV), LtC (49.75%)  Antero Resources Corporation  CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company LLC  Four Leaf Land Company Antero Resources Appalachian Corporation CNX Gas Company LLC	Not less than 1/8 Assignment (50%) Merger Name Change Assignment Assignment  Corrective Assignment  Name Change Name Change Assignment  Name Change Assignment  Name Change Assignment Not less than 1/8 Assignment Assignment	DB 232/30 254/5 W Sec of State W Sec of State 275/566  287/352  319/291  321/652  WV Sec of State WV Sec of State 406/195  422/517 550/273  377/609 377/613 370/629 370/635 370/611 370/629 370/635 370/617 403/566 422/517 550/273
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc.  EXCO Resources (W), LLC  EXCO Resources (W), LLC  EXCO Resources (PA), Inc. (0.5%) BG Production Company (W), LLC (49.75%) EXCO Resources (PA), Inc. (0.5%) BG Production Company (W), LLC (49.75%) Antero Resources Corporation Noble Energy, Inc.  Gloria Morris Ralph T. Sweeney Down Ruth Horsley (Sweeney) Anna Sweeney Devon Ruth Horsley (Sweeney) Anna Sweeney LaMoyne Sweeney LaMoyne Sweeney LaMoyne Sweeney Antero Resources Corporation Noble Energy, Inc.	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)  Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO Resources (INV), Inc. (49.75%) EXCO Resources (INV), Inc. (65%) BG Production Company (IVV), LLC (49.75%) EXCO Production Company (IVV), LLC (49.75%) Antero Resources (PA), Inc. (65%) Antero Resources Corporation  CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company LLC  Four Leaf Land Company	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%)  Assignment  Assignment  Corrective Assignment  Name Change Name Change Assignment  Name Change Assignment  Name Change Assignment  Not less than 1/8 Assignment Assignment	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566  287/352  319/291  321/652  WV Sec of State WV Sec of State 406/195  422/517 550/273  377/669 377/615 370/605 370/611 370/629 370/635 370/617 403/566 422/517
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc.  EXCO Resources (WV), ILC  EXCO Resources (WV), ILC  EXCO Resources (WV), ILC (49.75%) EXCO Production Company (WV), LLC (49.75%) EXCO Resources (PA), Inc. (0.5%) BG Production Company (WV), LLC (49.75%) Antero Resources Corporation Noble Energy, Inc.  Gloria Morris Raiph T. Sweeney Devon Ruth Horsley (Sweeney) Anna Sweeney LaMoyne Sweeney LaMoyne Sweeney LaMoyne Sweeney LaMoyne Sweeney Four Leaf Land Company Antero Resources Corporation Noble Energy, Inc.	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)  Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO Production Company (WV), Ltc. (49.75%) EXCO Production Company (WV), Ltc. (49.75%)  Antero Resources (PA), Inc. (65%) Antero Resources Corporation  CNX Gas Company Ltc and Noble Energy, Inc. CNX Gas Company Ltc  Four Leaf Land Company Ltc.  Antero Resources Appalachian Corporation CNX Gas Company Ltc.	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%)  Assignment  Corrective Assignment  Name Change Name Change Assignment  Name Change Assignment  Name Change Assignment  Name Lassignment Not less than 1/8	DB 232/30 254/5 WV Sec of State WV Sec of State WV Sec of State 275/566  287/352  319/791  321/652  WV Sec of State WV Sec of State WV Sec of State 406/195  422/517 550/273  397/669 397/675 370/605 370/611 370/629 370/635 370/617 403/566 422/517 550/273
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Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Company  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc.  EXCO Resources (WV), LLC  EXCO Resources (WV), LLC EXCO Resources (PA), Inc. (49.75%) EXCO Production Company (WV), LLC (49.75%) EXCO Production Company (WV), LLC (49.75%) Antero Resources (PA), Inc. (0.5%) BG Production Company (WV), LLC (49.75%) Antero Resources (PA), Inc. (0.5%) BG Production Company (WV), LLC (49.75%) Antero Resources Corporation Noble Energy, Inc.  Gloria Morris Ralph T. Sweeney Rodger A. Sweeney Rodger A. Sweeney Powon Ruth Horstey (Sweeney) Anna Sweeney LaMoyne Sweeney LaMoyne Sweeney LaMoyne Sweeney Antero Resources Corporation Noble Energy, Inc.  Mary Sue Furbee Zebley Thomas Val Furbee and Katherine Shelek-Furbee, h/w	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)  Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc. EXCO Resources (WV), Inc. (49.75%) EXCO Resources (WV), Inc. (49.75%) EXCO Production Company (WV), LtC (49.75%) EXCO Production Company (WV), LtC (49.75%)  Antero Resources Corporation  CNX Gas Company LtC and Noble Energy, Inc. CNX Gas Company LtC Four Leaf Land Company Antero Resources Appalachian Corporation CNX Gas Company LtC Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8 Assignment (50%) Merger Name Change Assignment Assignment  Corrective Assignment  Corrective Assignment  Name Change Assignment  Name Change Assignment  Name Change Assignment  Name Change Assignment  Not less than 1/8 Assignment Assignment Assignment Assignment Not less than 1/8 Assignment Not less than 1/8 Assignment Not less than 1/8 Assignment	DB 232/30 254/5 WV Sec of State WV Sec of State WV Sec of State 275/566  287/352  319/291  321/652  WV Sec of State WV Sec of State WV Sec of State 374/808  WV Sec of State 406/195  422/517 550/273  337/669 337/675 370/605 370/611 370/629 370/635 370/617 550/273  403/566 422/517 550/273  403/561 422/517 550/273
Part of S-15-		Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCD Union Drilling Inc. Equitable Resources Exploration, Inc.  Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (23%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-D Ltd. (11%) Swift Energy Income Partners 1988-B Ltd. (23%) Swift Energy Income Partners 1988-B Ltd. (11%) Swift Energy Income Partners 1988-B Ltd. (11%) Peake Energy Income Partners 1988-B Ltd. (11%) Peake Energy Inc EXCO Resources (WV), ILC EXCO Resources (WV), ILC EXCO Resources (WV), Inc. (49.75%) EXCO Production Company (WV), LLC (49.75%) EXCO Resources (PA), Inc. (6.5%) BG Production Company (WV), LLC (49.75%) Antero Resources Corporation Noble Energy, Inc.  Gloria Morris Ralph T. Sweeney Dovald Lee Sweeney Dovald Lee Sweeney Dovald Lee Sweeney Pour Leaf Land Company Antero Resources Corporation Noble Energy, Inc.  Four Leaf Land Company Antero Resources Corporation Noble Energy, Inc.  Mary Sue Furbee Zebley	KEPCO, Inc.  Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)  Peake Energy, Inc.  Peake Energy, Inc.  North Coast Energy Eastern, Inc. EXCO Resources (WI), Inc. (49.75%) EXCO Production Company (WV), LLC (49.75%) EXCO Production Company (WV), LLC (49.75%) Antero Resources (PA), Inc. (0.5%) Antero Resources Corporation  CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company LLC  Four Leaf Land Company Antero Resources Appalachian Corporation CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company LLC  Antero Resources Appalachian Corporation CNX Gas Company LLC Antero Resources Appalachian Corporation CNX Gas Company LLC  Noble Energy, Inc.	Not less than 1/8 Assignment (50%) Merger Name Change Assignment Assignment  Corrective Assignment  Name Change Name Change Name Change Assignment  Assignment  Name Change Assignment Assignment Name change Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Not less than 1/8 Assignment Assignment Assignment Assignment Not less than 1/8 Assignment Not less than 1/8 Assignment Not less than 1/8 Assignment Assignment Assignment Assignment	DB 232/30 254/5 WV Sec of State WV Sec of State 275/566 287/352 319/291 321/652 WV Sec of State WV Sec of State WV Sec of State 406/195 422/517 550/273 397/669 397/675 370/629 370/635 370/611 370/629 370/635 370/617 403/566 422/517 550/273 403/561 422/517 550/273

		Rani J. Boyt	Noble Energy, Inc.	Not less than 1/8	445/835
		Noble Energy, Inc. Noble Energy, Inc.	CNX Gas Company LLC CNX Gas Company LLC	Assignment (50%) Assignment	484/288 550/273
		The state of the s	Cin OES Company LCC	rospancing	330,273
Tax Mao & Percel	Title Opinion	Grantor, Lessor, etc	Grantee, Lessee, etc		
05-15-32		Everett Roy Weese and Betty J. Weese, h/w	KEPCO, Inc.	<u>Royalty</u> Not less than 1/8	<u>Book/Page</u> DB 232/30
		KEPCO, Inc.	Swift Energy Company	Assignment (50%)	254/5
		KEPCO	Union Dritting, Inc.	Merger	WV Sec of State
		Union Drilling Inc. Equitable Resources Exploration, Inc.	Equitable Resources Exploration, Inc. Swift Energy Company	Name Change Assignment (50%)	WV Sec of State 275/566
		equitable nessures Exploration, nec.	Swift Energy Income Partners 1987-D Ltd. (34%)	Assignment (50%)	273/300
		Swift Energy Company	Swift Energy Income Partners 1988-A Ltd. (33%)	Assignment	287/352
			Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)	, , , , , , , , , , , , , , , , , , ,	201/332
		Swift Energy Income Partners 1987-D Ltd. (34%)	Sant Energy moonie i archera 1505-1 tra. (1174)		
		Swift Energy Income Partners 1988-A Ltd. (33%)	Peake Energy, Inc.	Assignment	319/291
		Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%)	· conc areasy man	raaginiem.	313,131
		Swift Energy Income Partners 1987-D Ltd. (11%)			
		Swift Energy Income Partners 1988-A Ltd. (33%)	Barba Sarama Ina	a	204 (452
		Swift Energy Income Partners 1988-B Ltd. (22%)	Peake Energy, Inc.	Corrective Assignment	321/652
		Swift Energy Income Partners 1988-1 Ltd. (11%) Peake Energy, Inc.	Black Coast Engry, Foston, Inc.		11015
		North Coast Energy Eastern, Inc.	North Coast Energy Eastern, Inc. EXCO - North Coast Energy Eastern, Inc.	Name Change Name Change	WV Sec of State WV Sec of State
		• • • • • • • • • • • • • • • • • • • •	EXCO Resources (WV), Inc. (49.75%)	······· = ······•	
		EXCO Resources (WV), LLC	EXCO Resources (PA), Inc. (0.5%)	Assignment	374/808
		EXCO Resources (WV), Inc. (49.75%)	BG Production Company (WV), LLC (49.75%) EXCO Production Company (WV), LLC (49.75%)	Name Change	14015
		EXCO Production Company (WV), LLC (49.75%)	EXCO FIGUREIANI COMPANY (444), LLC (45.75%)	Name Change	WV Sec of State
		EXCO Resources (PA), Inc. (0.5%)	Antero Resources Corporation	Assignment	406/195
		BG Production Company (WV), LLC (49.75%)			
		Antero Resources Corporation Noble Energy, Inc.	CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company LLC	Assignment	422/517
		Noble Chergy, use.	CHA Gas Company LLC	Assignment	550/273
		Gloria Morris	Four Leaf Land Company	Not less than 1/8	397/669
		Raiph T. Sweeney and Shelley A. Sweeney	Four Losf Land Company	Not less than 1/8	397/675
		Donald Lee Sweeney Rodger A. Sweeney	Four Leaf Land Company	Not less than 1/8	370/605 370/611
		Devon Ruth Horsley (Sweeney)	Four Leaf Land Company Four Leaf Land Company	Not less than 1/8 Not less than 1/8	370/611 370/629
		Anna Sweeney	Four Leaf Land Company	Not less than 1/8	370/635
		LaMoyne Sweeney	Four Leaf Land Company	Not less than 1/8	370/617
		Four Leaf Land Company Antero Resources Corporation	Antero Resources Appalachian Corporation CNX Gas Company LLC and Noble Energy, Inc.	Assignment	403/566
		Noble Energy, Inc.	CNX Gas Company LLC and Noose Energy, Inc.	Assignment Assignment	422/517 550/273
		F1			
		Four Leaf Land Company Antero Resources Corporation	Antero Resources Appalachian Corporation CNX Gas Company LLC and Noble Energy, Inc.	Not less than 1/8 Assignment	403/561 422/517
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
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		Mary Sue Furbee Zebley Thomas Val Furbee and Katherine Shelck-Furbee, h/w	Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8 Not less than 1/8	440/447 440/443
		Allison McKay Hardin (Allison Furbee Herring)	Noble Energy, Inc.	Not less than 1/8	440/453
		Rani J. Boyt	Noble Energy, Inc.	Not less than 1/8	445/835
		Noble Energy, Inc. Noble Energy, Inc.	CNX Gas Company LLC CNX Gas Company LLC	Assignment (50%)	484/288 550/273
		reone energy, are.	CRA Gas Company LLC	Assignment	550/2/3
Tax Map &	Title Opinion	Genetas Lassas eta	Commission Laurence		
Parce!	OLS#	Grantor, Lossor, etc	Grantee, Lessee, etc	Royalty	Book/Page
5-18-10	262760000	William Underwood Et al	The Hope Natural Gas Company, West Virginia	Not less than 1/8	55/370
		Hope Natural Gas Company	Consolidated Gas Supply Corporation		
		nope natural oas company	Consolidated Gas Supply Corporation	Merger	169/26
		Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	249/287
		Consolidated Gas Transmission Corporation	CNG Development Company	Assignment	253/57
		CNG Development Company	CNG Producing Company	Certificate of Withdrawal	WV Sec. of State
		CNG Producing Company	Dominion Exploration and Production	Articles of Incorporation	Harrison County Art. Of
					Inc. Book 58/366
		Dominion Exploration and Production Inc.	CONSOL Gas Company	Affidavit of Name Change	384/191
		CONSOL Gas Company	CNX Gas Company LLC	Affidavit of Name Change	384/191
		Susan L. Spencer et vir	Noble Energy, Inc.	Not less than 1/8	462/527
		Mona Lee Williams, a widow	Noble Energy, Inc.	Not less than 1/8	465/258
		Lloyd W. Underwood, et ux Leola Frances Ray A/K/A Leola Ray et vir	Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8 Not less than 1/8	465/256
		Raymond V. Underwood et ux	Noble Energy, Inc.	Not less than 1/8	465/245 465/274
		Robert Errol Monroe et ux	Noble Energy, Inc.	Not less than 1/8	465/272
		Charles Gary Carder, a single man	Noble Energy, Inc.	Not less than 1/8	471/692
		Wayne Allan Carder, married dealing in his own sole an separate property	Noble Energy, Inc.	Not less than 1/8	471/688
		Noble Energy Inc.	CNX Gas Company LLC	Assignment (50%)	499/447
		Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273
Tax Map & Parcel	Title Opinion OLS #	Grantor, Lossor, etc	Grantee, Lessee, etc		
				Royalty	Book/Page
5-18-11	262762000	William Underwood Et al Hope Natural Gas Company	The Hope Natural Gas Company, West Virginia Consolidated Gas Supply Corporation	Not less than 1/8 Merger	55/370 169/26
		Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Merger Assignment	169/26 249/287
		Consolidated Gas Transmission Corporation	CNG Development Company	Assignment	253/57
		CNG Development Company	CNG Producing Company	Certificate of Withdrawal	WV Sec. of State

CNG Producing Company  Dominion Exploration and Production Inc.  CONSOL Gas Company	Dominion Exploration and Production CONSOL Gas Company CNX Gas Company LLC	Articles of incorporation Affidavit of Name Change Affidavit of Name Change	Harrison County Art. Of Inc. Book 58/366 384/191 384/191
Susan L. Spencer and James Spencer, her husband	Noble Energy, Inc.	Not less than 1/8	465/268
Robert Errol Monroe and Sandra Monroe, his wife	Noble Energy, Inc.	Not less than 1/8	465/622
Leola Frances Ray a/k/a Leola Ray and Kenna Ray, her husband	Noble Energy, Inc.	Not less than 1/8	465/624
Mona Lee Williams, a widow	Noble Energy, Inc.	Not less than 1/8	465/626
Noble Energy Inc.	CNX Gas Company LLC	Assignment (50%)	499/447
Noble Energy Inc.	CNX Gas Company LLC	Assignment	550/273

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

April 9, 2018

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

#### Marcellus well "SHR31DHSM"

Dear Reviewer,

This well indicated by this permit application contains a Subsurface Easement Agreement for non-productive portions of the well bore. Attached is a Memorandum of Subsurface Use Agreement which gives CNX the right to drill below the surface of tracts 5-15-14 and 5-15-14.1 shown on the well plat.

CNX Gas Company, LLC understands that the WVDEP will issue the permit in the normal process subject to the completeness of the requirements of the Office of Oil and Gas and does not take a position with regards to the property rights under this agreement.

CNX Gas Company, LLC agrees that the WVDEP's issuance of the permit is in no way an affirmance or validation of CNX Gas Company's claimed rights.

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

Sincerely,

Erika Whetstone Permitting Manager

#### SUBSURFACE EASEMENT AND RIGHT-OF-WAY

WHEREAS, TRIAD HUNTER, LLC, a Delaware limited liability company, with an address at 125 Putnam Street, Marietta, OH 45750 ("Grantor"), is the owner of certain leasehold interest in the oil and gas leases more particularly described on <u>Exhibit A</u> attached hereto (the "Subject Leases");

WHEREAS, CNX GAS COMPANY LLC, a Virginia limited liability company with an address at 1000 CONSOL Energy Drive, Canonsburg, Pennsylvania 15317 ("Grantee"), has requested from Grantor a non-exclusive subsurface easement and right-of-way to drill one or more wellbores in, under, through, and across the Subject Leases for the purposes of drilling, completing, reworking, deepening, plugging back, recompleting, injecting, operating, and plugging and abandoning one or more horizontal or directional wells drilled from a surface location located off of the Subject Leases to access, explore for, and produce hydrocarbons ("Subsurface Easement"); and

WHEREAS, to the extent Grantor owns certain rights in the Subject Leases, Grantor has agreed to grant the Subsurface Easement to Grantee on the terms and conditions set forth herein;

#### NOW, THEREFORE, WITNESSETH:

That Grantor, for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration in hand paid to Grantor, the receipt and sufficiency of which are hereby acknowledged, does hereby GRANT, BARGAIN, AND CONVEY unto Grantee, limited to its rights under the Subject Leases, the Subsurface Easement; provided, however, that such easement shall not permit Grantee to produce hydrocarbons from the Subject Leases insofar as the Subject Leases fall within the Weese Hunter Unit as shown on Exhibit "B" attached hereto, or to cause, make, conduct, or perform, as the case may be, perforations, open hole completions, fracture operations, or other stimulation operations which could result in Grantee accessing or otherwise producing minerals, beneath the Subject Leases insofar as the Subject Leases fall within the Weese Hunter Unit as shown on Exhibit "B" attached hereto, provided that such limitations shall not restrict Grantee from removing material and associated minerals in the drilling of the wellbore subject to this Subsurface Easement.

Grantee, at its sole cost and expense, shall comply in all material respects with all applicable federal, state, and local laws, including rules, regulations, and safety standards, in connection with Grantee's use of the Subsurface Easement.

Grantee shall and hereby does agree to indemnify and hold harmless Grantor, its officers, directors, agents, contractors, servants, employees, successors, and assigns ("Grantor Group"), cost from and against all liability, damages, suits, actions, costs, and expenses of whatsoever remains and cincluding reasonable attorneys' fees) to persons or property caused by or arising four of 2011

NOV Department of NOV Department of Environmental Protection

Grantee's use of the Subsurface Easement, except where such claims result from the gross negligence or willful misconduct of one or more of the Grantor Group, as the case may be.

This Subsurface Easement shall terminate automatically upon actual abandonment. "Actual abandonment" shall occur upon the earlier of the following: (1) Grantee provides Grantor with a written notice of abandonment or (2) the Subsurface Easement is no longer being used by Grantee for a continuous period of two years. In the event of termination, and at the request of Grantor, Grantee shall execute and deliver to Grantor a written release in recordable form memorializing said termination. Notwithstanding anything in this agreement to the contrary, the Subsurface Easement shall survive to the extent necessary for Grantee to meet any obligations it may have to plug and abandon a horizontal or directional well accessed through said easement.

Any notice provided or permitted to be given in this agreement must be in writing and may be given by depositing the notice in the United States mail, postage prepaid, certified with return receipt requested, and addressed to the party to be notified. Notice deposited in the mail in the foregoing manner shall be deemed received five (5) days after it is so deposited, excluding Sundays and Postal holidays. Notice given in any other manner shall be effective only if and when actually received by the party to be notified. For purposes of notice, the addresses of the parties shall be as follows until changed as herein provided:

#### **GRANTOR:**

TRIAD HUNTER, LLC 125 Putnam Street Marietta, OH 45750

Attn: Jacob Biehl, Senior Landman

#### **GRANTEE:**

CNX GAS COMPANY LLC 1000 CONSOL Energy Drive Canonsburg, PA 15317-6506

Attn: Derek Fitzwater, Senior Landman

Either party, by notifying the other party hereto in the manner provided in this paragraph, may designate a different address for receipt of subsequent notices.

The person and officer signing below on behalf of Grantor represents and warrants that the person signing below on behalf of Grantor was authorized to do so.

This agreement, and all terms, provisions, and obligations hereof, shall be covenants running with the Subject Leases and shall be binding upon Grantor, and inure to the benefit of running with the Subject Leases and shan of onlong upon Stands, and their respective legal representatives, executors, administrators, agents, servants employees, contractors, heirs, successors, and assigns.

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NON 88 5011 W Department of ton Environmental Protection Each of the parties agrees to execute and deliver such instruments and documents, and to take such further actions, as the other may, from time to time, reasonably request in order to effectuate the purposes and to carry out the terms of this agreement.

This agreement shall be governed by and construed in accordance with the laws of the State of Ohio without giving effect to any conflict of law rules or statutes that would mandatorily require the application of the laws of any other state.

This agreement may be executed in multiple counterparts all of which when taken together shall constitute a single agreement with the same force and effect as if all parties had signed the same copy of this agreement.

This grant contains all of the understandings, representations, and agreements between the parties with respect to the subject matter hereof, and no prior understandings, representations, or agreements, verbal or written, have been made modifying, adding to or changing the terms of the agreement. No amendments, modifications or revisions hereof shall be effective unless made in writing and signed by the parties hereto.

[Signature and Acknowledgement Pages Follow]

Office of Oil and Gas

Office of Oil and Gas

NOV 28 2017

WV Department of Environmental Protection

IN WITNESS WHEREOF, Grantor has caused this agreement to be executed by its duly authorized representative on the date set forth in the acknowledgment below.

-	ID A	PATE	TO	R.
T. w	NS A	VIV.		10.

TRIAD HUNTER, LLC

Name: John K. Reinhart

Title: President and Chief Executive Officer

RECEIVED Office of Oil and Gas

NOV 28 2017

#### ACKNOWLEDGMENT

WV Department of Environmental Protection

STATE OF TEXAS )
COUNTY OF DALLAS )

On this the 1046 day of \_\_\_\_\_\_\_\_, 2017, before me, the undersigned authority, personally appeared John K. Reinhart, who acknowledged himself to be the President and Chief Executive Officer of Triad Hunter, LLC, a Delaware limited liability company, and that he as such President and Chief Executive Officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing the name of the corporation by himself as President and Chief Executive Officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission Expires 4 1-2021

Notary Public

JACOB M BIEHL
Notary Public State of On
My Commission Expire:
September 1, 2021

IN WITNESS WHEREOF, Grantee has caused this agreement to be executed by its duly authorized representative on the date set forth in the acknowledgment below.

#### GRANTEE:

CNX GAS COMPANY LLC

Title: Assistant Vice President

#### ACKNOWLEDGMENTS

			RECEIVED Office of Oil and Gas
COMMONWEALTH OF PENNSYLVANIA	)	SS:	NOV 28 2017
COUNTY OF WASHINGTON	)	55.	WV Department of Environmental Protection

On this the lot day of Ochbur, 2017, before me, the undersigned authority, personally appeared Timothy Surmick, who acknowledged himself to be the Assistant Vice President of CNX Gas Company LLC, a Virginia limited liability company, and that he as such Assistant Vice President, being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing the name of the limited liability company by himself as Assistant Vice President.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission Expires 3-12-2619

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL Casey Yantko, Notary Public Cecil Twp., Washington County My Commission Expires March 12, 2019 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Exhibit A

Attached to and made a part of that certain Subsurface Easement and Right of Way Agreement, dated October 10, 2017, by and between Triad Hunter, LLC and CNX Gas Company LLC.

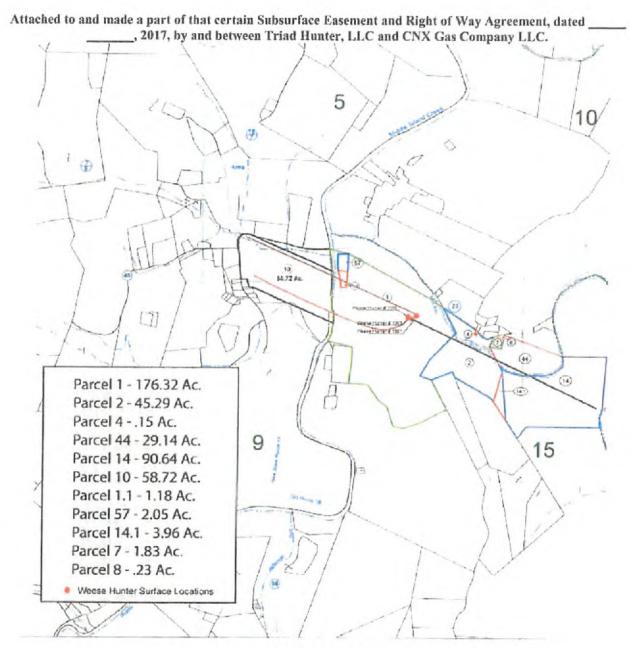
Lessor	Lessee	Lease Date	Recording	Parcel	District	County	Gross Acres
Roger R. Weese, et al	Triad Hunter, LLC	11/16/2010	378/195	5-15-14	McElroy	Tyler	94.6
				5-15-14.1			
Arnold Schulberg	Triad Hunter, LLC	6/3/2010	376/412	5-15-2	McElroy	Tyler	45.29
Charles Conaway	Triad Hunter, LLC	6/10/2010	376/415	5-15-2	McElroy	Tyler	45.29
Margaret Torok	Triad Hunter, LLC	7/12/2010	376/409	5-15-2	McElroy	Tyler	45.29
Mary Belle Hoover	Triad Hunter, LLC	10/23/2010	378/174	5-15-2	McElroy	Tyler	45.29
Lavaughn Crawford	Triad Hunter, LLC	8/10/2010	377/448	5-15-2	McElroy	Tyler	45.29
James Thomas	Triad Hunter, LLC	10/5/2010	380/192	5-15-2	McElroy	Tyler	45.29
Wilmadeen Minger	Triad Hunter, LLC	10/6/2010	378/135	5-15-2	McElroy	Tyler	45.29
Ralph & Mary McKinney	Triad Hunter, LLC	10/14/2010	378/117	5-15-2	McElroy	Tyler	45.29
Gloria McKinney Smith	Triad Hunter, LLC	10/15/2010	380/180	5-15-2	McElroy	Tyler	45.29
Mary Jane McKinney	Triad Hunter, LLC	12/24/2010	380/225	5-15-2	McElroy	Tyler	45.29
Alice Leota Shreve	Triad Hunter, LLC	11/4/2010	380/201	5-15-2	McElroy	Tyler	45.29
Benny Thomas	Triad Hunter, LLC	1/12/2011	383/78	5-15-2	McElroy	Tyler	45.29
Denver Thomas	Triad Hunter, LLC	12/24/2010	380/216	5-15-2	McElroy	Tyler	45.29
Freda James	Triad Hunter, LLC	10/18/2010	380/186	5-15-2	McElroy	Tyler	45.29
Ernie Thomas	Triad Hunter, LLC	10/7/2010	378/108	5-15-2	McElroy	Tyler	45.29
Eddie & Shirley Hayes	Triad Hunter, LLC	11/5/2010	380/171	5-15-2	McElroy	Tyler	45.29
Lavern Hayes	Triad Hunter, LLC	8/19/2010	377/451	5-15-2	McElroy	Tyler	45.29
Johanna Tustin	Triad Hunter, LLC	12/27/2010	380/219	5-15-2	McElroy	Tyler	45.29
Robert Haught	Triad Hunter, LLC	8/16/2010	377/445	5-15-2	McElroy	Tyler	45.29
Shelia & James Pogue	Triad Hunter, LLC	9/20/2010	378/96	5-15-2	McElroy	Tyler	45.29
Sandra & Paul Wentz	Triad Hunter, LLC	9/27/2010	378/105	5-15-2	McElroy	Tyler	45.29
Glenda & Joe Hamner	Triad Hunter, LLC	10/15/2010	378/120	5-15-2	McElroy	Tyler	45.29
Melissa Ward	Triad Hunter, LLC	10/11/2010	380/204	5-15-2	McElroy	Tyler	45.29
Leslie C. Hayes	Triad Hunter, LLC	11/10/2010	380/234	5-15-2	McElroy	Tyler	45.29

Office of Oil and Gas

NOV 2 8 2017

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Exhibit B



#### **UNIT MAP**

Total Unit Acreage, 409.51 Ac. Weese Hunter # 1001 & # 1003 & # 1110 Tyler County West Virginia

TRIAD HUNTER

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NOV 28 2017

WV Department of Environmental Protection



Erika Whetstone Manager – Gas Permitting CONSOL Energy Inc. 1000 CONSOL Energy Drive Canonsburg, PA 15317

West Virginia Department of Environmental Protection Office of Oil and Gas 601 57<sup>th</sup> Street SE Charleston, WV 25304-2345

RE: Road Letter - SHR 31 Well Pad

To Whom It May Concern:

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

Should you have any questions or need additional information, please do not hesitate to contact me at <a href="mailto:erikawhetstone@consolenergy.com">erikawhetstone@consolenergy.com</a> or 724-485-4035.

Sincerely,

Erika Whetstone

CNX Gas Company LLC

Office of State and Case
NOV 28 2017
NOV 28 2017

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

			API No. 4		
			Operator's	Well No. SHR3	1DHSM
			Well Pad N	Name: SHR31H	SM
Notice has I					
	e provisions in West Virginia Code	22-6A, the Operator has prov	ided the rec	quired parties w	ith the Notice Forms list
pelow for the	tract of land as follows:				
State:	West Virginia	UTM NAD 83	Easting:	515361.612	
County:	Tyler	OTM NAD 83	Northing:	4363430.142	
District:	McElroy	Public Road Acce	ss:	County Route 58	
Quadrangle:	Shirley	Generally used far	rm name:	Seckman	
Watershed:	McElroy Creek				
prescribed by it has provid- information r of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and set the owners of the surface describequired by subsections (b) and (c), set surface owner notice of entry to su of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall thave been completed by the applicant	hall contain the following info bed in subdivisions (1), (2) are ection sixteen of this article; (ii) rvey pursuant to subsection (a f this article were waived in ender proof of and certify to the	rmation: (14 and (4), substitute (14), substitute (14), section (15), section (15).	<ol> <li>A certification (b), section (b), section (c), section (d), section (d</li></ol>	on from the operator that tion ten of this article, deemed satisfied as a re- cle six-a; or (iii) the not oner; and Pursuant to W
Pursuant to	West Virginia Code § 22-6A, the Op	erator has attached proof to th	is Notice C	Certification	
that the Ope	rator has properly served the require				
	rator has properly served the require ECK ALL THAT APPLY				OOG OFFICE USE ONLY
*PLEASE CHI	ECK ALL THAT APPLY	d parties with the following:		USE NO	ONLY
*PLEASE CHI		d parties with the following:  NOTICE NOT REQUIR	ED BECA	The state of the s	ONLY  RECEIVED/
*PLEASE CHI	ECK ALL THAT APPLY	d parties with the following:	ED BECA	The state of the s	ONLY
*PLEASE CHI	ECK ALL THAT APPLY	Description of the policy of the parties with the following:  NOTICE NOT REQUIR SEISMIC ACTIVITY WAS	ED BECAI CONDUC	TED	ONLY  RECEIVED/
*PLEASE CHI	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY or	Description of the policy of the parties with the following:  NOTICE NOT REQUIR SEISMIC ACTIVITY WAS	ED BECAU CONDUC EY WAS CO	TED ONDUCTED USE	ONLY  RECEIVED/ NOT REQUIRED
*PLEASE CHI	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY OF FICE OF ENTRY FOR PLAT SURV	Departies with the following:  ■ NOTICE NOT REQUIR SEISMIC ACTIVITY WAS VEY or □ NO PLAT SURVED NOTICE NOT REQUIR NOTICE OF ENTRY FOR F	ED BECAU CONDUC EY WAS CO ED BECAU PLAT SUR	TED ONDUCTED USE VEY	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED  RECEIVED/
*PLEASE CHI  1. NO*  2. NO*  3. NO*	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY OF FICE OF ENTRY FOR PLAT SURV	Departies with the following:  ■ NOTICE NOT REQUIR SEISMIC ACTIVITY WAS VEY or □ NO PLAT SURVED NOTICE NOT REQUIR NOTICE OF ENTRY FOR FOR WAS CONDUCTED OR □ WRITTEN WAIVER BE	ED BECAU CONDUC EY WAS CO ED BECAU PLAT SUR	TED ONDUCTED USE VEY	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED  RECEIVED/
*PLEASE CHI  1. NO  2. NO  3. NO  4. NO	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY OF FICE OF ENTRY FOR PLAT SURV	Departies with the following:  ■ NOTICE NOT REQUIR SEISMIC ACTIVITY WAS VEY or □ NO PLAT SURVED NOTICE NOT REQUIR NOTICE OF ENTRY FOR FOR WAS CONDUCTED OR □ WRITTEN WAIVER BE	ED BECAU CONDUC EY WAS CO ED BECAU PLAT SUR	TED ONDUCTED USE VEY	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED/ NOT REQUIRED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Notice 8 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affiditive of Personal service, the return receipt card or other postal receipt for certified mailing.

WV Department of Environmental Protection

#### Certification of Notice is hereby given:

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

 Well Operator:
 CNX Gas Company, LLC
 Address:
 1000 Consol Energy Drive

 By:
 Raymond Hoon
 Canonsburg, PA 15317

 Its:
 Permitting Supervisor
 Facsimile:

 Telephone:
 724-485-3540
 Email:
 RaymondHoon@ConsolEnergy.com

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL

Sara M. Micoli, Notary Public Cecil Twp., Washington County My Commission Expires March 11, 2019 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES Subscribed and sworn before me this 2 day of Nov, 2017.

Minali Notary Public

My Commission Expires\_

Oil and Gas Privacy Notice:

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

Office of Cill and Gas

NOV 28 2017

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WW-6A (9-13)

### 4/09502491

OPERATOR WELL NO. SHR31DHSM

Well Pad Name: SHR31HSM

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 1-22-11 Date Permit Application Filed: 11-27-11 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) PERSONAL. ✓ REGISTERED ☐ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: COAL OWNER OR LESSEE SURFACE OWNER(s) Name: See attached. Name: See attached. Address: Address: COAL OPERATOR Name: Name: Address: Address: SURFACE OWNER(s) (Road and/or Other Disturbance) ☑ SURFACE OWNER OF WATER WELL Name: See attached. AND/OR WATER PURVEYOR(s) Address: Name: See attached. Address: Name: Address: POPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: EQT Corporation ☐ SURFACE OWNER(s) (Impoundments or Pits) Address: EQT Plaza, 625 Liberty Ave, Ste 1700 Name: Pittsburgh, PA 15222 Address: \*Please attach additional forms if necessary

WW-6A (8-13)

Office of Oil and Gas AP 40 3. 40 9

OPERATOR WELL NO. SHR31DHSM NOV 2 8 2017

Well Pad Name: SHR31HSM

WV Department of Environmental Protection

Notice is hereby given:

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

#### This Notice Shall Include:

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

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

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

Pursuant to W. Va. Code R. § 35-8-15,2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

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

#### Well Location Restrictions

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

WW-6A	
(8-13)	

47 U 9 3 U Z 4 9 1 API NO. 47-

OPERATOR WELL NO. SHR31DHSM

Well Pad Name: SHR31HSM

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

#### Water Well Testing:

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

#### Water Testing Laboratories:

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

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

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

#### Written Comment:

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

\*\*RECEIVED\*\*

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

NOV 2 8 2017

WW Department of Environmental Protection

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

WW-6A (8-13) API NO: 47- 0 9 5 0 2 4 9 1
OPERATOR WELL NO. SHR31DHSM
Well Pad Name: SHR31HSM

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

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

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

#### **Comment Requirements**

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

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

#### Permit Denial or Condition

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

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

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

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

RECEIVED Office of Oil and Gas
NOV 2 8 2017
WV Department of Environmental Protection

WW-6A (8-13) 4709502491

OPERATOR WELL NO. SHR31DHSM
Well Pad Name: SHR31

Notice is hereby given by:
Well Operator: CNX Gas Company, LLC
Telephone: 724-485-3540
Email: RaymondHoon@ConsolEnergy.com

OPERATOR WELL NO. SHR31DHSM
Well Pad Name: SHR31

Address: 1000 Consol Energy Drive

Canonsburg, PA 15317

Facsimile:

Oil and Gas Privacy Notice:

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

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL
Sara M. Micoli, Notary Public
Cecil Twp., Washington County
My Commission Expires March 11, 2019
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Subscribed and sworn before me this 21 day of Nov., 2017.

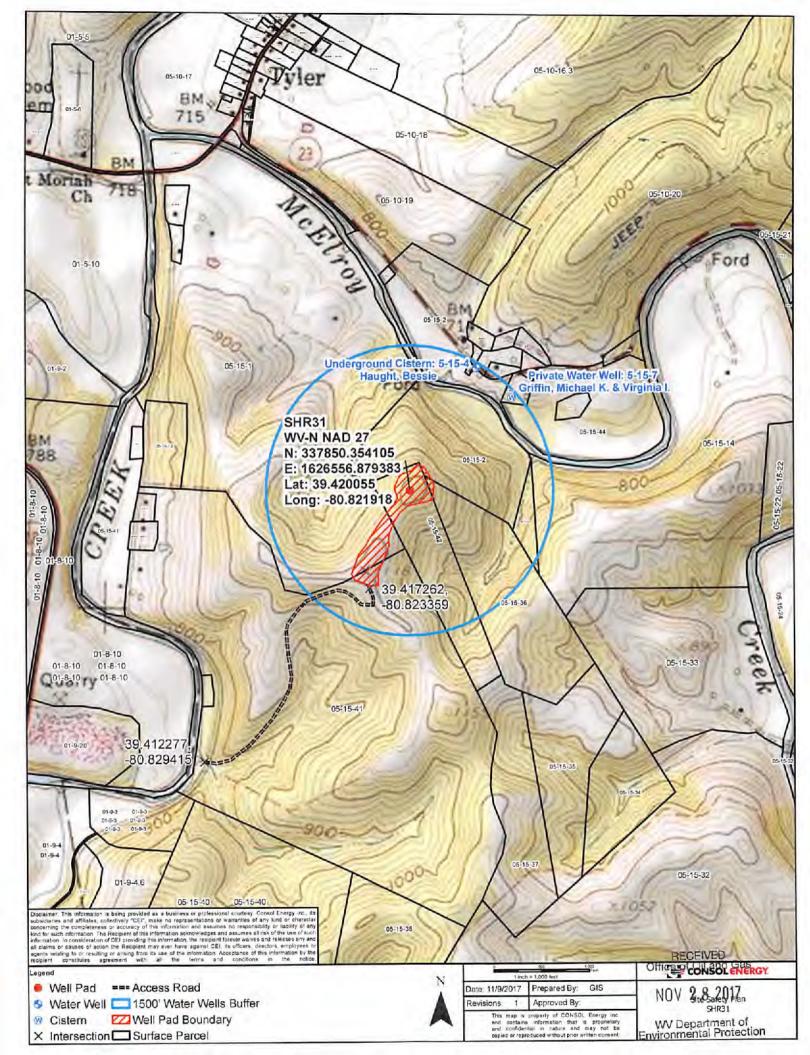
Notary Public My Commission Expires 3/11/19

**API NO. 47** 

Office of Oil and Gas

NOV 2 8 2017

WV Department of Environmental Protection



SHR31HSM

#### Surface Owner(s) (Well Site, Road and/or Other Disturbance):

Allen W. Seckman and Nancy J. Seckman, trustees of the Allen and Nancy Seckman Irrevocable Trust dated November 29, 2016 824 Jefferson Run Road, Alma, WV 26320

Donald L. Seckman 705 Jefferson Run Road, Alma, WV 26320

Potts Place LLC 353 Foundry St., New Martinsville, WV 26155

Becannray LLC 5042 Tyler Highway, Sisterville, WV 26175

STS Enterprises LLC 659 Jefferson Run Road, Alma, WV 26320

George G. Hamilton 2812 McElroy Creek Road, Alma, WV 26320

Charles E. Hamilton, Jr. 17095 WV Rt 23 N, West Union, WV 26456

Gary L. Hamilton 102 Big Flint Road, West Union, WV 26456

Nicole Eastham 34973 State Route 800, New Matamoras, OH 45767

Alexandria Fetty 44958 Benwood Road, Sardis, OH 43946

Rachelle Hise 44832 State Route 78, Woodsfield, OH 43793

#### Coal Owner(s):

Allen W Seckman and Nancy J. Seckman, trustees of the Allen and Nancy Seckman Irrevocable Trust 2017 Dated November 29, 2016 824 Jefferson Run Road, Alma WV 26320

Donald L. Seckman 705 Jefferson Run Road, Alma, WV 26320

George G. Hamilton 2812 McElroy Creek Road, Alma, WV 26320



Charles E. Hamilton, Jr. 17095 WV Rt 23 N, West Union, WV 26456

Gary L. Hamilton 102 Big Flint Road, West Union, WV 26456

Potts Place LLC 353 Foundry St., New Martinsville, WV 26155

Becannray LLC 5042 Tyler Highway, Sisterville, WV 26175

Nicole Eastham 34973 State Route 800, New Matamoras, OH 45767

Alexandria Fetty 44958 Benwood Road, Sardis, OH 43946

Rachelle Hise 44832 State Route 78, Woodsfield, OH 43793

STS Enterprises LLC 659 Jefferson Run Road, Alma, WV 26320

William P. Ingram 471 Next Road, Sisterville, WV 26175

Jeffrey Alan Baker 1640 Gorrells Run Road, Middlebourne, WV 26149

Debra Kay Jenkins 305 Fair Avenue, Middlebourne, West Virginia 26149

William M. Baker 753 Middle Island Road, Middlebourne, WV 26149

Donald K. Baker 995 Gorrells Run Road, Middlebourne, WV 26149

#### Surface Owner of Water Well And/Or Water Purveyor(s):

Bessie Haught 771 McElroy Creek Rd, Alma, WV 26320

Michael K & Virginia L Griffin PO Box 254, Middlebourne, WV 26149

#### Operator of Any Natural Gas Storage Field:

EQT Corporation EQT Plaza, 625 Liberty Ave, Ste 1700, Pittsburgh, PA 15222



WW-6A3 (1/12)

#### Operator Well No. SHR31DHS

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to

	ırsuant to West Virginia C		
☐ PERSONAL	■ REGISTERED	☐ METHOD OF DELIVERY THA	
SERVICE	MAIL	RECEIPT OR SIGNATURE CO	NFIRMATION
on to the surface trace but no more than for beneath such tract the owner of minerals up and Sediment Control Secretary, which star	of to conduct any plat survey ty-five days prior to such en at has filed a declaration pur inderlying such tract in the co of Manual and the statutes ar	s required pursuant to this article. Such no try to: (1) The surface owner of such tract; suant to section thirty-six, article six, char punty tax records. The notice shall include ad rules related to oil and gas exploration a information, including the address for a w	(2) to any owner or lessee of coal seams ofter twenty-two of this code; and (3) any a statement that copies of the state Erosion and production may be obtained from the
Notice is hereby pro-	ovided to:		
■ SURFACE OW	NER(s)	COAL OWNER OF	RLESSEE
		Name: See attached	
Address:		Address:	
Name:			
Address:		_ MINERAL OWNE	
		Name: See attached	
Name:		Address:	
riduless.		*please attach additional forms	s if necessary
a plat survey on the t State: West Vi County: Tyler District: McElroy		Approx. Latitude & Longitu Public Road Access: Watershed:	County Route 58 McElroy Creek
Quadrangle: Shirley		Generally used farm name:	Seckman
may be obtained from Charleston, WV 253	n the Secretary, at the WV I 04 (304-926-0450). Copies cretary by visiting <u>www.der</u>	Manual and the statutes and rules related pepartment of Environmental Protection has of such documents or additional informat <a href="https://www.gov/oil-and-gas/pages/default.aspx">www.gov/oil-and-gas/pages/default.aspx</a> .	eadquarters, located at 601 57th Street, SE, ion related to horizontal drilling may be
	Gas Company, LLC	Address: 1000 Consol Ene	rgy Drive

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

SHR31DHS WW6A3 Attachment

#### SURFACE OWNER(S):

Allen W. Seckman and Nancy J. Seckman, trustees of the Allen and Nancy Seckman Irrevocable Trust dated November 29, 2016
824 Jefferson Run Road,
Alma, WV 26320

Donald L. Seckman 705 Jefferson Run Road, Alma, WV 26320

Mary Belle Ashenhart Star Rt Cp Box 80, West Union, WV 26456

Potts Place LLC 353 Foundry St., New Martinsville, WV 26155

Becannray LLC 5042 Tyler Highway, Sisterville, WV 26175

Kathy A. Roberts 42842 Trail Run Road, New Matamoras, OH 45767

STS Enterprises LLC 659 Jefferson Run Road, Alma, WV 26320

George G. Hamilton 2812 McElroy Creek Road, Alma, WV 26320

Charles E. Hamilton, Jr. 17095 WV Rt 23 N, West Union, WV 26456

Gary L. Hamilton 102 Big Flint Road, West Union, WV 26456

Nicole Eastham 34973 State Route 800, New Matamoras, OH 45767





Alexandria Fetty 44958 Benwood Road, Sardis, OH 43946

Rachelle Hise 44832 State Route 78, Woodsfield, OH 43793

#### COAL OWNER OR LESSEE:

Allen W Seckman and Nancy J. Seckman, trustees of the Allen and Nancy Seckman Irrevocable Trust Dated November 29, 2016
824 Jefferson Run Road,
Alma WV 26320

Donald L. Seckman 705 Jefferson Run Road, Alma, WV 26320

George G. Hamilton 2812 McElroy Creek Road, Alma, WV 26320

Charles E. Hamilton, Jr. 17095 WV Rt 23 N, West Union, WV 26456

Gary L. Hamilton 102 Big Flint Road, West Union, WV 26456

Potts Place LLC 353 Foundry St., New Martinsville, WV 26155

Becannray LLC 5042 Tyler Highway, Sisterville, WV 26175

Nicole Eastham 34973 State Route 800, New Matamoras, OH 45767

Alexandria Fetty 44958 Benwood Road, Sardis, OH 43946 RECEIVED Gas
Office of Oil and Gas
NOV 2 8 2017
WV Department of Environmental Protection

Page 2 of 4

Rachelle Hise 44832 State Route 78, Woodsfield, OH 43793

STS Enterprises LLC 659 Jefferson Run Road, Alma, WV 26320

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Jeffrey Alan Baker 1640 Gorrells Run Road, Middlebourne, WV 26149

Debra Kay Jenkins 305 Fair Avenue, Middlebourne, West Virginia 26149

William M. Baker 753 Middle Island Road, Middlebourne, WV 26149

Donald K. Baker 995 Gorrells Run Road, Middlebourne, WV 26149

#### MINERAL OWNER(S):

Charles E. Hamilton, Jr. 17095 WV Rt 23 N, West Union, WV 26456

Gary L. Hamilton 102 Big Flint Road, West Union, WV 26456

George G. Hamilton 2812 McElroy Creek Road, Alma, WV 26320

Potts Place LLC 353 Foundry St., New Martinsville, WV 26155



Becannray LLC 5042 Tyler Highway, Sisterville, WV 26175

Nicole Eastham 34973 State Route 800, New Matamoras, OH 45767

Alexandria Fetty 44958 Benwood Road, Sardis, OH 43946

Rachelle Hise 44832 State Route 78, Woodsfield, OH 43793

STS Enterprises LLC 659 Jefferson Run Road, Alma, WV 26320

Allen W Seckman and Nancy J. Seckman, trustees of the Allen and Nancy Seckman Irrevocable Trust Dated November 29, 2016
824 Jefferson Run Road,
Alma WV 26320

Donald L. Seckman 705 Jefferson Run Road, Alma, WV 26320



## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Pursuant to W. Va. Coreceipt requested or hadrilling a horizontal woof this subsection as a subsection may be ware and if available, facsing the surface owner's last the s	hand delivery, give the surface owner no well: <i>Provided</i> , That notice given pursu of the date the notice was provided to the vaived in writing by the surface owner. I simile number and electronic mail address provided to the SURFACE OWNER	TED  or to filing a permit application, stice of its intent to enter upon the pant to subsection (a), section tent to subsection (a), section tent to subsection (a), section tent to surface owner: Provided, how the notice, if required, shall incluse of the operator and the operator R(s):  Name:	•
DELIVERY  Pursuant to W. Va. Creceipt requested or hadrilling a horizontal woof this subsection as of subsection may be ware and if available, facsing the surface of the surface owner's last to West Virguer District:  Quadrangle: Watershed: West Virguer McElroy Quadrangle: Watershed: Motice Shall I Pursuant to West Virguer McElroy This Notice Shall I Pursuant to West Virguer McElroy This Notice Shall I Pursuant to West Virguer McElroy This Notice Shall I Pursuant to West Virguer McElroy This Notice Shall I Pursuant to West Virguer McElroy This Notice Shall I Pursuant to West Virguer McElroy This Notice Shall I Pursuant to West Virguer McElroy This Notice Shall I Pursuant to West Virguer McElroy This Notice Shall I Pursuant to West Virguer McElroy This Notice Shall I Pursuant to West Virguer McElroy This Notice Shall I Pursuant to West Virguer McElroy This Notice Shall I Pursuant to West Virguer McElroy	RETURN RECEIPT REQUES  Code § 22-6A-16(b), at least ten days pri hand delivery, give the surface owner no well: Provided, That notice given pursu of the date the notice was provided to the vaived in writing by the surface owner. To simile number and electronic mail address  provided to the SURFACE OWNER	or to filing a permit application, office of its intent to enter upon the part to subsection (a), section tent to subsection (a), section tent to surface owner: <i>Provided, how</i> The notice, if required, shall incluse of the operator and the operator R(s):  Name:	e surface owner's land for the purpose of n of this article satisfies the requirements lever, That the notice requirements of this ade the name, address, telephone number, r's authorized representative.
receipt requested or hereiting a horizontal vof this subsection as of subsection may be ware and if available, facsin Notice is hereby properties.  Notice is hereby properties.  Notice is hereby giver a subsection may be ware and if available, facsin Notice is hereby properties.  Notice is hereby giver a subsection of the surface owner's last state:  Notice is hereby giver and the surface owner's last state:  Vest Virgin McElroy  Watershed:  McElroy  This Notice Shall I Pursuant to West Virgin facsimile number and related to horizontal colocated at 601 57th Street	hand delivery, give the surface owner no well: <i>Provided</i> , That notice given pursu of the date the notice was provided to the vaived in writing by the surface owner. I simile number and electronic mail address provided to the SURFACE OWNER	otice of its intent to enter upon the part to subsection (a), section tent to subsection (a), section tent to surface owner: Provided, how the notice, if required, shall incluse of the operator and the operator R(s):  Name:	e surface owner's land for the purpose of n of this article satisfies the requirements lever, That the notice requirements of this ade the name, address, telephone number, r's authorized representative.
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Quadrangle: Shirley Watershed: McElroy  This Notice Shall I Pursuant to West Vi facsimile number and related to horizontal olocated at 601 57th Str	'irginia	UTM NAD 83 Easting: Northing:	515361.612 4363430.142
Watershed: McElroy  This Notice Shall I  Pursuant to West Vi facsimile number and related to horizontal of located at 601 57th Str	•	The state of the s	County Route 58
This Notice Shall I Pursuant to West Vi facsimile number and related to horizontal of located at 601 57 <sup>th</sup> Str		Generally used farm name:	Seckman
Nation is haraby at	rirginia Code § 22-6A-16(b), this notice and electronic mail address of the operated drilling may be obtained from the Secr	tor and the operator's authorize etary, at the WV Department of	ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.
Notice is hereby gr	given by:		
Well Operator: CNX		Authorized Representative:	Raymond Hoon
Address: 1000		Address:	1000 Consol Energy Drive
Canonsburg, PA 15317	0 Consol Energy Drive	C DA 45347	-
Telephone: 724-4	0 Consol Energy Drive	Canonsburg, PA 15317	724-485-3540
	0 Consol Energy Drive -485-3540	Telephone:	
Facsimile:			RaymondHoon@ConsolEnergy.com

Oil and Gas Privacy Notice:

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

W. Desa sent of Environmental Protection

#### WW6A Notice of Intent to Drill - Attachment

#### SHR31HSM

#### Surface Owner(s):

Allen W. Seckman and Nancy J. Seckman, trustees of the Allen and Nancy Seckman Irrevocable Trust dated November 29, 2016 824 Jefferson Run Road, Alma, WV 26320

Donald L. Seckman 705 Jefferson Run Road, Alma, WV 26320

Potts Place LLC 353 Foundry St., New Martinsville, WV 26155

Becannray LLC 5042 Tyler Highway, Sisterville, WV 26175

STS Enterprises LLC 659 Jefferson Run Road, Alma, WV 26320

George G. Hamilton 2812 McElroy Creek Road, Alma, WV 26320

Charles E. Hamilton, Jr. 17095 WV Rt 23 N, West Union, WV 26456

Gary L. Hamilton 102 Big Flint Road, West Union, WV 26456

Nicole Eastham 34973 State Route 800, New Matamoras, OH 45767

Alexandria Fetty 44958 Benwood Road, Sardis, OH 43946

Rachelle Hise 44832 State Route 78, Woodsfield, OH 43793





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

Delivery met	hod pursuant to West Virginia Code §	22-6A-16(c)	
	FIED MAIL	HAND	
RETUI	RN RECEIPT REQUESTED	DELIVERY	
return receipt the planned of required to be drilling of a d damages to the	requested or hand delivery, give the sur- operation. The notice required by this provided by subsection (b), section ten- norizontal well; and (3) A proposed sur- ne surface affected by oil and gas operation	face owner whose land will be used subsection shall include: (1) A cop of this article to a surface owner what face use and compensation agreements to the extent the damages are co	oblication, an operator shall, by certified mail for the drilling of a horizontal well notice of by of this code section; (2) The information lose land will be used in conjunction with the ent containing an offer of compensation for impensable under article six-b of this chapter. listed in the records of the sheriff at the time
	eby provided to the SURFACE OWNI s listed in the records of the sheriff at the		
Name: See atta			
Address:	eby given: /est Virginia Code § 22-6A-16(c), notice	Name:Address:  is hereby given that the undersigne	d well operator has developed a planned
Address:	eby given: /est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia	Name:  Address:  is hereby given that the undersigne of drilling a horizontal well on the Easting:	d well operator has developed a planned tract of land as follows:  515361.612
Address:	eby given: /est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia Tyler	Name: Address:  is hereby given that the undersigne of drilling a horizontal well on the UTM NAD 83  Easting: Northing	d well operator has developed a planned tract of land as follows:  515361.612  ;: 4363430.142
Address:	eby given: /est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia Tyler McElroy	Name: Address:  is hereby given that the undersigne of drilling a horizontal well on the UTM NAD 83  Public Road Access:	d well operator has developed a planned tract of land as follows:  515361.612  4363430.142  County Route 58
Address:	eby given: /est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia Tyler	Name: Address:  is hereby given that the undersigne of drilling a horizontal well on the UTM NAD 83  Easting: Northing	d well operator has developed a planned tract of land as follows:  515361.612  4363430.142  County Route 58
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Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed:  This Notice S Pursuant to W to be provide horizontal we surface affect information r	eby given: //est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia  Tyler McElroy Shirley McElroy Creek  Shall Include: //est Virginia Code § 22-6A-16(c), this noted by W. Va. Code § 22-6A-10(b) to a ll; and (3) A proposed surface use and code by oil and gas operations to the extellated to horizontal drilling may be obtained at 601 57th Street, SE, Characteristics.	Name: Address: Address: Address: Address: Address: Address: Address: Address: Address:  Is hereby given that the undersigner of drilling a horizontal well on the Easting: Northing Public Road Access: Generally used farm name Otice shall include: (1)A copy of the surface owner whose land will be compensation agreement containing ent the damages are compensable unained from the Secretary, at the Western Secretary of the surface of the surface owner whose land will be compensation agreement containing ent the damages are compensable unained from the Secretary, at the Western Secretary of the surface of	d well operator has developed a planned tract of land as follows:  515361.612  4363430.142  County Route 58  Seckman  is code section; (2) The information required an offer of compensation for damages to the nder article six-b of this chapter. Additional V Department of Environmental Protection (0) or by visiting www.dep.wv.gov/oil-and-

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

RECEIVED Gas NOV 2 8 2017 WV Department of Environmental Protection

#### **WW6A Notice of Planned Operations - Attachment**

44709502491 SHR31HSM

#### **Surface Owner(s):**

Allen W. Seckman and Nancy J. Seckman, trustees of the Allen and Nancy Seckman Irrevozable Arust • • • dated November 29, 2016

824 Jefferson Run Road, Alma, WV 26320

Donald L. Seckman 705 Jefferson Run Road, Alma, WV 26320

Potts Place LLC 353 Foundry St., New Martinsville, WV 26155

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Office of Oil and Gas

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WV Department of Environmental Protection



#### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways** 

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

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

October 31, 2017

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

Subject: DOH Permit for the SHR-31 Well Pad, Tyler County SHR31 DHSM

Dear Mr. Martin,

Jim Justice

Governor

The West Virginia Division of Highways has transferred Permit #06-2014-0719 for the subject site to CNXGAS for access to the State Road for the well sites located off of Tyler County Route 58 SLS.

The operator has signed an OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Day K. Clayton

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

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WV Department of Environmental Protection

Cc: Shannon Miller CNXGAS CH, OM, D-6 File

## Section V – Proposed Additives to be used in Fracturing or Stimulations

Type: Water CAS: 7732-18-5

Type: Silica CAS: 14808-60-7

Type: Hydrochloric Acid CAS: 7647-01-0

Type: Copolymer of Two Propenamide CAS: 69418-26-4

Type: Petroleum distillate CAS: 64742-47-8

Type: Glutaraldehyde CAS: 111-30-8

Type: Ethylene glycol CAS: 107-21-1

Type: Diethylene glycol mono n-butyl ether CAS: 112-34-5

Type: Oleic acid diethanolamide CAS: 93-83-4

Type: Alcohols, C12-16, ethoxylated CAS: 68551-12-2

Type: Quaternary ammonium compound CAS: 68424-85-1

Type: Ammonium chloride CAS: 12125-02-9

Type: Short chained glycol ether CAS: 112-34-5

Type: Ethoxylated (C10-16) alcohols CAS: 68002-97-1

Type: Metanol CAS: 67-56-1

Type: Formaldehyde CAS: 50-00-0

Type: Thiourea CAS: 62-56-6

Type: Acetophenone CAS: 98-86-2

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LOCATION MAP

#### PROPERTY OWNERS

- I. 05-I5-4I ALI EN W SECKMAN ET AL 824 JEFFERSON RUN RD ALMA, WV 26320
- 2 05-15-42 ALLEN W SECKMAN ET AL 824 JEFFERSON RUN RD ALMA, WV 26320
- 3 05-15-37 ALLEN W SECKMAN ET AL 824 JEFFERSON RUN RD ALMA WV 26320
- 4. 05 IS 35 ALLEN W SECKMAN ET AL 824 JEFFERSON RUN RD ALMA WV 26320



CNX RESOURCES CORPORATION 1000 CONSOL ENERGY DRIVE CANONSBURG, PA 15317

## POST MODIFICATION AS-BUILT PLANS FOR THE SHR 3I WELL PAD, TANK PAD, SHR 30 WELL PAD, AND ACCESS ROAD



LOCATION MAP

#### SHR30 WELL SITE LOCATION

NAD 85 - LAT: N 39°24'49.181"; LONG: W 80°48'54,273" NAD 27 - LAT: N 39°24'48,891"; LONG: W 80°48'54,894"

#### SHR31 WELL SITE LOCATION

NAD 85 - LAT: N 39°25'12.404"; LONG: W 80°49'18.125" NAD 27 - LAT: N 39°25'12.114", LONG: W 80°49'18.744"

#### ENTRANCE LOCATION

NAD 83 - LAT: N 39°24'44,598"; LONG: W 80°49'45.062" NAD 27 - LAT: N 39°24'44,309"; LONG: W 80°49'45,683"

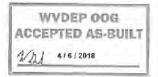
McELROY DISTRICT
TYLER COUNTY, WEST VIRGINIA
DATE: APRIL 5th, 2018

# SHR 30 WELL PAD API #'S 047-095-02232 047-095-02241 047-095-02233 047-095-02234 047-095-02234 047-095-02235 047-095-02235 047-095-02235 047-095-02235 047-095-02235

047-095-02237

047-095-02238

SHEET INDEX		
DRAWING NUMBER	DRAWING NAME	
1	COVER SHEET	
2	OVERALL POST MOD AS-BUILT	
3-7	POST MOD AS-BUILT	
8	AS-BUILT ROAD PROFILES	





Engineers and Land Surveyors 10125 Mason Dixon Hwy, Burton, WV 26562-9656 (304) 662-6486

NOTE: DRAWING WAS CREATED ON 22X34 PAPER. IIXI7 DRAWINGS ARE HALF SCALE. REFER TO SCALE BAR FOR PROPER SCALING.

#### PHOINEER CERTIFICATION

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MODIFICATION AS-BUILT COVER SHEE WELL PAD TANK PAB. SHR 30 WELL PAD ACCESS ROADS



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JOHNSON DEC.

DATE:

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SHEET I

