

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

Friday, April 06, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

CNX GAS COMPANY LLC POST OFFICE BOX 1248

JANE LEW, WV 263786506

Permit approval for SHR 31 AHSM Re:

47-095-02487-00-00

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 AHSM

Farm Name: ALLEN W. SECKMAN, ET AL

U.S. WELL NUMBER: Horizontal 6A New Drill

47-095-02487-00-00

Date Issued: 4/6/2018

Promoting a healthy environment.

API Number: 95-02487

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: 95-02487

PERMIT CONDITIONS

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

WW-6B (04/15)

API NO. 47- 95 - 02487
OPERATOR WELL NO. SHR31AHSM
Well Pad Name: SHR31

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

1) Well Operato	or: CNX G	as Compan	y, LLC	494458046	Tyler	McElroy	Shirley
				Operator ID	County	District	Quadrangle
2) Operator's W	ell Number	: SHR31AH	SM	Well Pad	Name: SHR3	1	
3) Farm Name/	Surface Owi	ner: Seckma	an	Public Road	d Access: CR	58	
4) Elevation, cu	rrent ground	i: 1091'	El-	evation, proposed p	oost-constructio	on: 1091'	
5) Well Type	(a) Gas	X	Oil	Unde	rground Storag	е	
	Other						
	(b)If Gas	Shallow	X	Deep			
		Horizontal	X				
6) Existing Pad	: Yes or No		Yes				
-	_	•		ipated Thickness ar	-	` '	
Target forma	tion is Marce	llus Shale @ (6683'-673	11' TVD, 48' thick, ex	spected formation	n pressure	~4000 psi
8) Proposed To	tal Vertical	Depth: 6725	' TVD at	TD (dependent u	pon formation	dip)	
9) Formation at	Total Vertic	cal Depth: 1	/larcellus	Shale (will not pe	enetrate Onone	daga)	
10) Proposed To	otal Measur	ed Depth: 1	5,850' N	1D at TD			
11) Proposed H	orizontal Le	g Length: 8	8692'				
12) Approxima	te Fresh Wa	ter Strata Dep	oths:	125', 580'			
13) Method to I	Determine F	resh Water D	epths:	Depth of bit when water	er shows in flowlin	e or depth w	hen misting is required
14) Approxima	te Saltwater	Depths: 22	71'				
15) Approxima	te Coal Sean	n Depths: N	o known	coal seams			
16) Approxima	te Depth to 1	Possible Void	l (coal mi	ine, karst, other): _	None anticipat	ed	
17) Does Propo directly overlyi				ms Yes	No		х
(a) If Yes, pro	vide Mine I	nfo: Name:					
-		Depth:					
		Seam:					
		Owner	:				

API NO. 47-95 - 02487

OPERATOR WELL NO. SHR31AHSM

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	15879	15850	3041 / 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)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	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:			RECEIVED Office of Oil an	D nd Gas
Depths Set:			NOV 28 2	

WV Department of Environmental Protection

λPI	NO.	47-	95	-	0	74	8

OPERATOR WELL NO. SHR31AHSM

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 betterns for the production casing - once on bottom with casing, circulate a minimum of one hote volume prior to pumping cement.

WV Department of Environmental Protection

*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.





DRILLING WELL PLAN

SHR31AHSM (Marcellus HZ)

Marcellus Shale Horizontal

Tyler County, WV

								Tyler Co	unty, WV		
					SH	IR31AH	SM SHL	N:	337869, E 1626562	(NAD27)	
Ground Elevation	1	091' GL E	levation		S	HR31AF	ISM LP	N:	337009, E 1626342	(NAD27)	
Azimuth		161°			SH	IR31AH	SM BHL	N 328772, E 1629118 (NAD27)			
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	MD	TVD	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS	
	24"	20" L/S	Conductor	100	100	AIR	To Surface	N/A	N/A	Stabilize surface fill/soil	
			Shallowest Fresh Water		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	joint from shoe to surface	Ensure the hole is clean at section TD	Cemented to surface No known coal seams	
			Fresh Water Casing	730	730		TOC @ surface	Bow spring centralizers			
			No known coal zones		N/A						
101 101			Big Lime		2200		15.6 ppg Class A	Centralize every 3rd		Set through potential salt water	
	12-1/4"	9-5/8" 36.0#	Big Injun		2271	AIR /	+ 0% to 2% CaCl2 + 1/4 pps Flake	joint from shoe to surface	Soap the hole as needed and ensure the hole is	Cemented to surface	
	12-1/4	J-55 LTC	Price		2325		20% OH Excess Yield = 1.19	surface	clean at section TD	Casing to be set ~200'-250' belo	
			Weir		2478		TOC @ surface	Bow spring centralizers		the Big Injun base	
			Intermediate Casing	2575	2575						
			Berea		2669						
			Gardan		3095						
	8-3/4"		Warren		3588	AIR	15.2 ppg Class H 50:50 Class H:Poz		Once at TD, circulate at		
	Tangent		Lower Huron		3986	7303	with additives (retarder,	Centralize every joint	max flowrate with max	Note: Actual centralizer placeme	
			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	
		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		Once on battom with	Note: Actual cement blends ma	
			Burkett		6614		Yield = 1.07	Single-piece/rigid bow centralizers	casing, circulate a minimum	vary slightly depending upon service company utilized	
	8-1/2" Curve		Tully		6646	12.0-12.5	TOC @ >= 500' above		of one hole volume prior to pumping cement	service company unized	
	& Lateral		Hamilton		6667	ppg SOBM	9-5/8" shoe		politping centent		
Office			Marcellus		6683						
MOV 2.8			Production Casing	15850	6725						



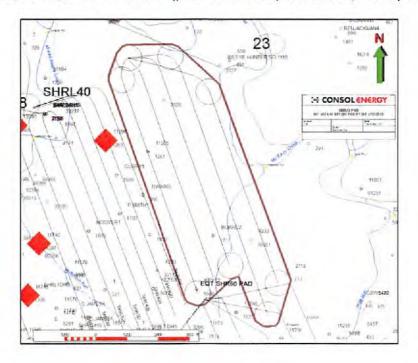
SHR31 Pad Frac - SOG Review

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).



RECEIVED
Office of Oil and Gas

NOV 2 8 2017

WV Department of Environmental Protection



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.

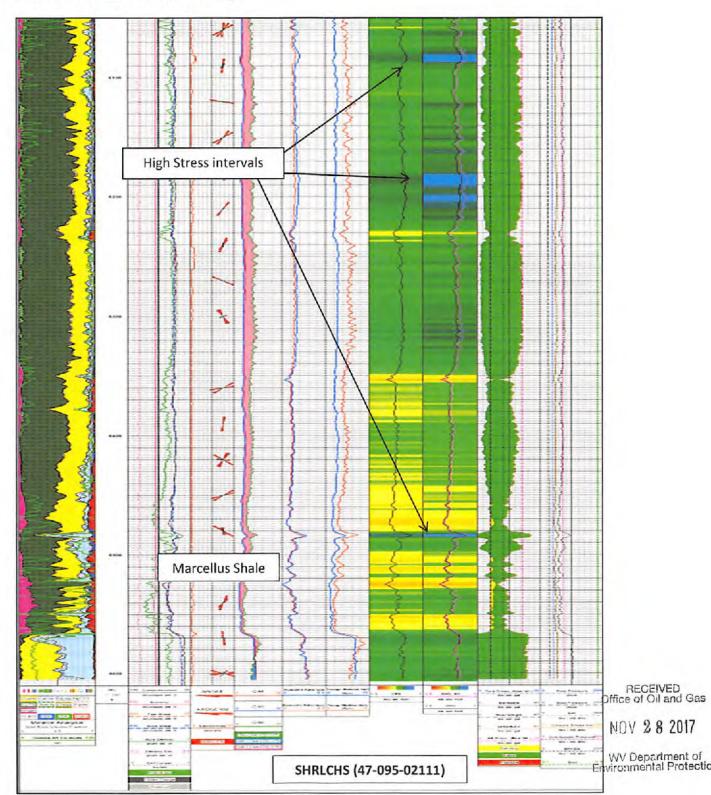
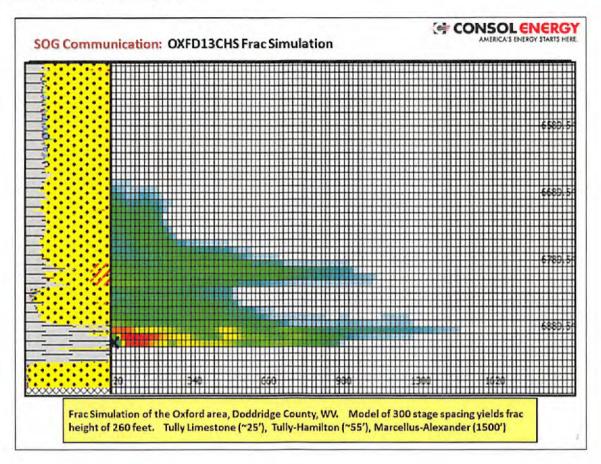




Figure 3. Stratigraphic intervals of high stress should serve as adequate frac barriers for a Marcellus frac. The frac modeling example below is from the Oxford area of western Doddridge County, where the Marcellus and adjacent shallower shales are lithologically similar to Pennsboro. Frac modeling only 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.





95-02487

o BENJACKMAN4 698 570 1491 329 WEESE HUNTER NO 1110 2027 SHRL40 CONSOLENERGY SHRULPAD NO AREA OF REVIEW FOR WYDER AND CRED 224 1261 30384 11001 01251 30315 solve exion EOT SHREO 1174HRL 10 446 475 1291 5457 11236 1200 433

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.

API	OPERATOR	WELL NAME	WELL #	LAT	LONG	STATUS	TD	- hamman	DISTANCE FROM LATERAL	PERMIT DATE
709500713	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
709501668	ALLIANCE PETROLEUM CORP	KEYS MARY	KEYS2	39.39563	-80.81254	GAS	2230	PRODUCING BIG INJUN	10'	11/3/1996
709501711	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	SHR60 PAD	515434			PERMIT ISSUED		PERMITTED MARCELLUS	510*	10/17/2016
4709502342	EQT PRODUCTION CO	SHR60 PAD	514466			PERMIT ISSUED		PERMITTED MARCELLUS LATERAL	4651	3/31/2016
4709502341	EQT PRODUCTION CO	SHR60 PAD	514465			PERMIT ISSUED		PERMITTED MARCELLUS LATERAL	380"	WEGEN
4709502264	EQT PRODUCTION CO	SHR60 PAD	514461			PERMIT ISSUED		PERMITTED MARCELLUS LATERAL	380'	~ (1)
4709502257	EQT PRODUCTION CO	SHR60 PAD	514460			PERMIT ISSUED		PERMITTED MARCELLUS LATERAL	380°	9
4709502256	EQT PRODUCTION CO	SHR60 PAD	514464			PERMIT ISSUED		PERMITTED MARCELLUS	3801	7/23/2015
4709502220	EQT PRODUCTION CO	SHR60 PAD	514463			PERMIT ISSUED		PERMITTED MARCELLUS LATERAL	380°	3/24KKM D
4709502255	EOT PRODUCTION CO	SHR60 PAD	514462			PERMIT ISSUED		PERMITTED MARCELLUS	380	ENVIONIV

95-02487



SHR31 Pad Frac SOG Review / CRSD Review Tuesday, November 7, 2017

RECEIVED Gas
Office of Oil and Gas
NOV 28 2017
WV Department of Environmental Protection



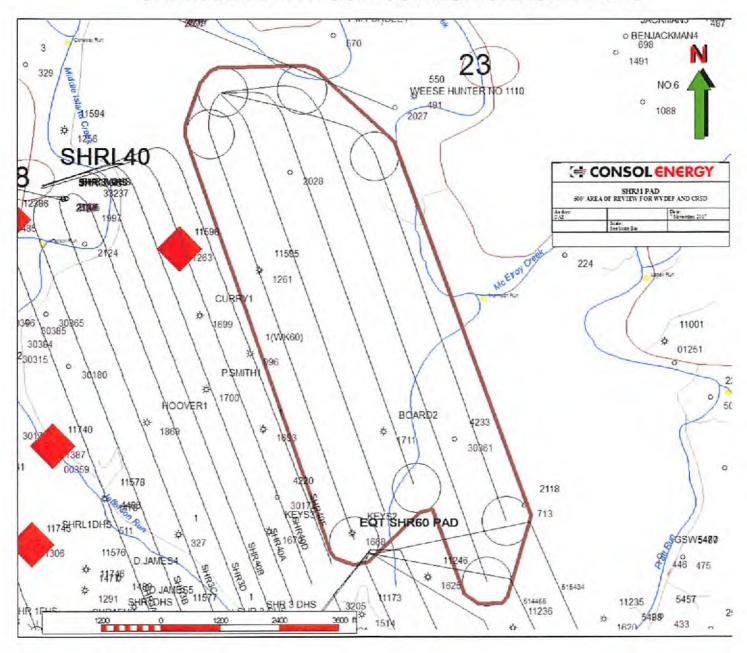
SHR31 PAD GEOLOGICAL PROGNOSIS

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	uce 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 m er.	g
2478	Weir Sand				Sandstone	Gordon Sands and/or water.	is pa
2669	Berea				Sandstone	Gordt ind/o	on th
2677	Devonian Shale Top				Grey Shale	and	well
3095	Gordon				Sandstone	Inju	No pilot hole logs will be ran on one well on this pad.
3588	Warren Sand				Sandstone	98 98	uo C
3986	Lower Huron	GAS			Grey Shale	F	e 9
5156	Benson				Siltstone		a ⊟ P
5400	Alexander	GAS			Siltstone	are	085
6399	Cashaqua Shale	со	NFINING LAYER		Grey Shale	Sms.	ole l
6505	Middlesex				Grey Shale	roble	lot h
6546	West River				Grey Shale	No drilling problems are anticipated.	No p
6614	Burket Shale	GAS			Black Shale	drill	77
6646	Tully Limestone	СО	NFINING LAYER		Limestone	8	
6667	Hamilton				Grey Shale		
6683	Upper Marcellus	GAS			Black Shale	v	
6699	Middle Marcellus	GAS			Black Shale	llus i to be ured	
6713	Cherry Valley	GAS			Limestone	The Marcellus is expected to be overpressured	
6720	Lower Marcellus	GAS			Black Shale	he Nexper	
6731	Onondaga Limestone				Limestone		

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



SHRL AREA WITH SOG COMMUNICATION WELLS



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

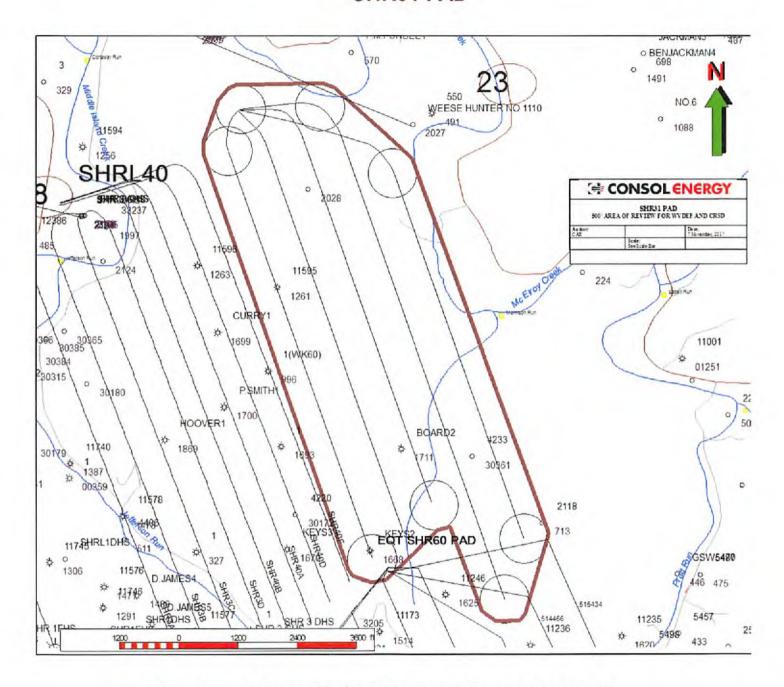
Many Shallow O&G wells are being effected by gas migration from the Marcellus pad fracs, charging the Benson reservoir, which is the primary producing reservoir of the SOG wells.

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 fractive and Gas 1000' upwards to the Alexander and Benson formations.

WV Department of Environmental Protection



SHR31 PAD



All wells within a 500' buffer have been reviewed.

Office of Oil and Gas

NOV 2 8 2017

WV Department of Environmental Protection

95-02487



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	SHR60 PAD	515434			PERMIT ISSUED		PERMITTED MARCELLUS LATERAL	510	10/17/201
4709502342	EQT PRODUCTION CO	SHR60 PAD	514466			PERMIT ISSUED		PERMITTED MARCELLUS LATERAL	465'	3/31/201
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 LATERAL	380'	7/23/2019
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"	7/23/2019
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

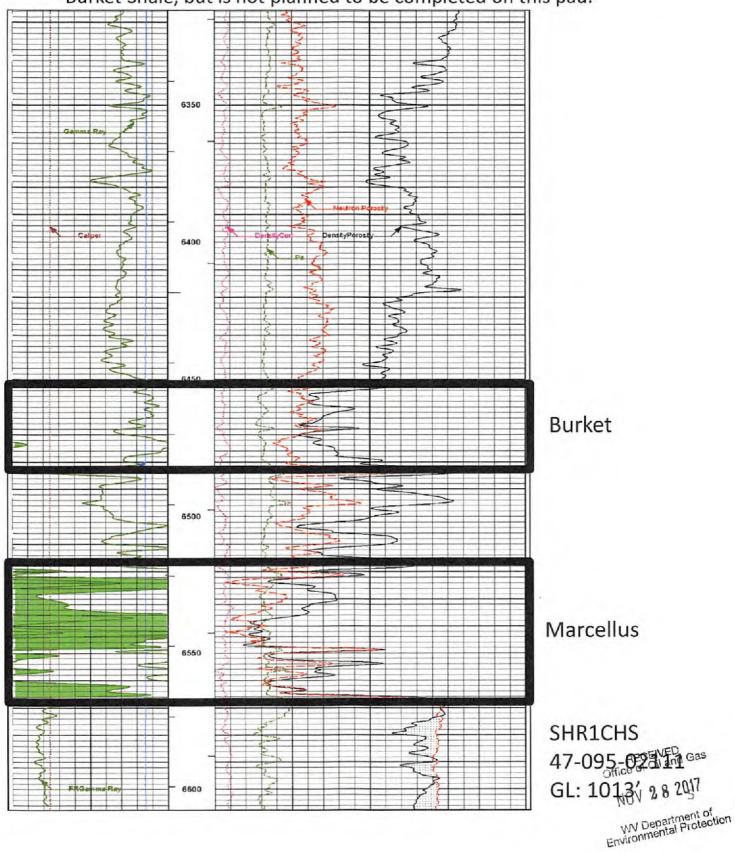
NOV 28 2017

WV Department of Environmental Protection

SHRL Area Type Log (SHRL1C)

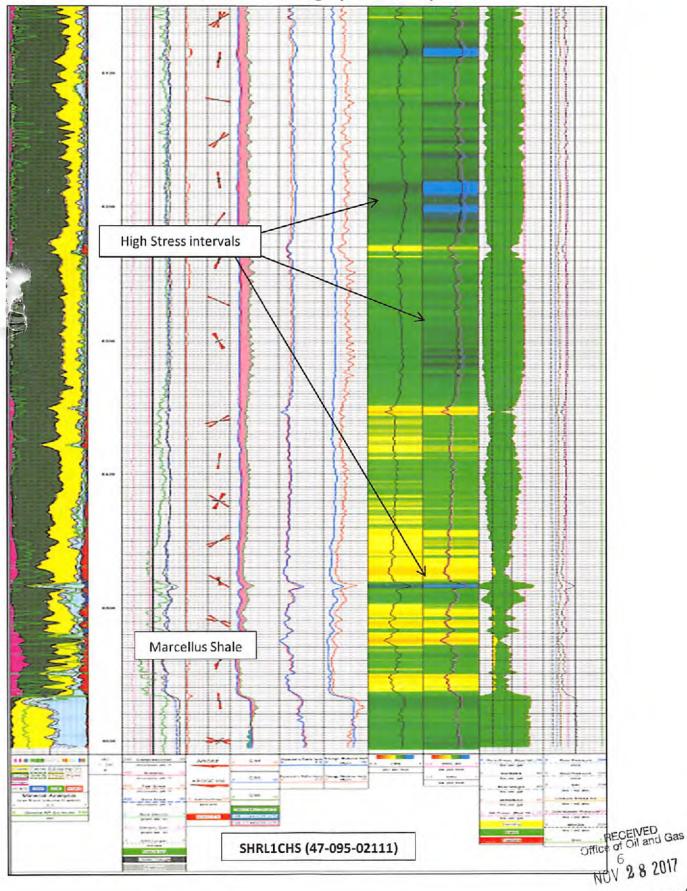


- The Tully Limestone in conjunction with the Hamilton Shale is the confining layer for the Marcellus Shale frac.
- Also, the Rhinestreet and Cashaqua provide confinement for the Burket Shale, but is not planned to be completed on this pad.



CONSOLENERGY. AMERICA'S ENERGY STARTS HERE.

SHRL Area Stress Profile Log (SHRL1C)



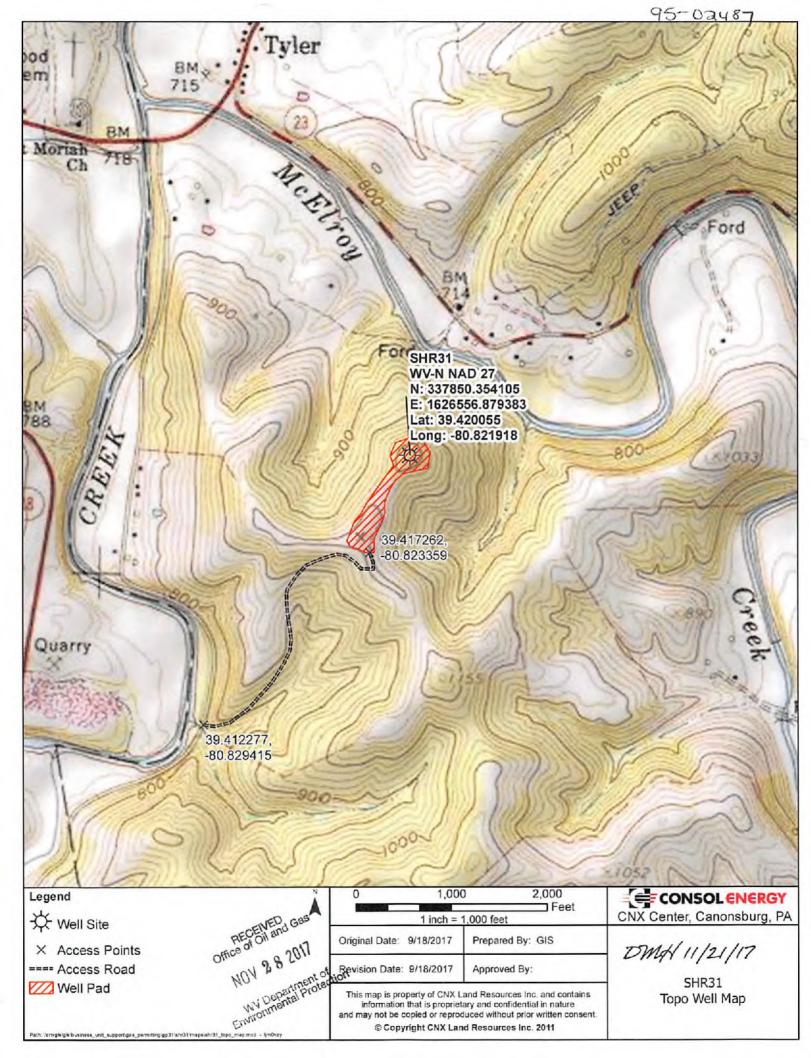
API Number 47 -	95		02487
Operator's	Well N	0. SH	R31HSM

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CNX Gas Company LLC	OP Code 494458046
Watershed (HUC 10) McElroy Creek Quadrangle	Shirley
Do you anticipate using more than 5,000 bbls of water to complete the proposed w	
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste: _ Closed Loop- No utilization	of a pit
Will a synthetic liner be used in the pit? Yes No If s	so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	75 All 11 la 1 la
Land Application	DMH 11/21/17
Underground Injection (UIC Permit Number see attac	thed)
Reuse (at API Number at next anticipated well Off Site Disposal (Supply form WW-9 for disposal loc	ation)
Other (Explain	autory
Will closed loop system be used? If so, describe: yes	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwate	er, oil based, etc. At haber based must brough intermediate string then \$08M
-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, lin	
-Landfill or offsite name/permit number? please see attached sheet	,
Permittee shall provide written notice to the Office of Oil and Gas of any load of d West Virginia solid waste facility. The notice shall be provided within 24 hours of where it was properly disposed.	rill cuttings or associated waste rejected at any rejection and the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the Glon August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of provisions of the permit are enforceable by law. Violations of any term or conditional law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am application form and all attachments thereto and that, based on my inquiry obtaining the information, I believe that the information is true, accurate, and penalties for submitting false information, including the possibility of fine or imprint	of Environmental Protection. I understand that the ition of the general permit and/or other applicable in familiar with the information submitted on this of those individuals immediately responsible for complete. I am aware that there are significant
Company Official Signature	Office of On 2017
Company Official (Typed Name) Raymond Hoon	NOV 2 8 2017
Company Official Title_Permitting Supervisor	WV Department of Environmental Protection
Subscribed and sworn before me this 8 day of November My commission expires 111 37/ 2021	Notary Public My Comm. Expires Nov 27, 20 One Dominion Drive Jane Lew WV 2

CNX Gas Company LLC		Operato	or's Well No. SHR311	HSM
Proposed Revegetation Treatment: Acres I	Disturbed 41.57	Prevegetati	on pH 6.0	
Lime 2-3 Tons/acr	e or to correct to pH			
Fertilizer type 10-20-20 or equ	al			
Fertilizer amount 500	lbs/	acre		
Mulch hay or straw at 2	Tons/ac	ге		
	Seed	<u>Mixtures</u>		
Temporary		P	ermanent	
Seed Type lbs/acro	e	Seed Type	lbs/acre	
Tall Fescue 40		Tall Fescue	40	
Ladino Clover 5		Ladino Clover	5	
**alternative seed mixtures are shown on ti	he site design.			
Photocopied section of involved 7.5' topogr	raphic sheet.			
Plan Approved by: Darak M.	Haught			
Comments:	0			-
			,	
				··········
				
				RECEIVED Office of Oil and Gas
Title: Oil & Gas Inspector		Date: 11/21/17		Office of Oil and
Field Reviewed? (X) Yes	() No		NOV 2 8 2017
100		٠٠٠٠ _ ٠٠٠		W Department of Environmental Protect



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 724-795-1571

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

AECEIVED
Office of Oil and Gas
NOV 2 8 2017
AND Department of

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 Suite 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

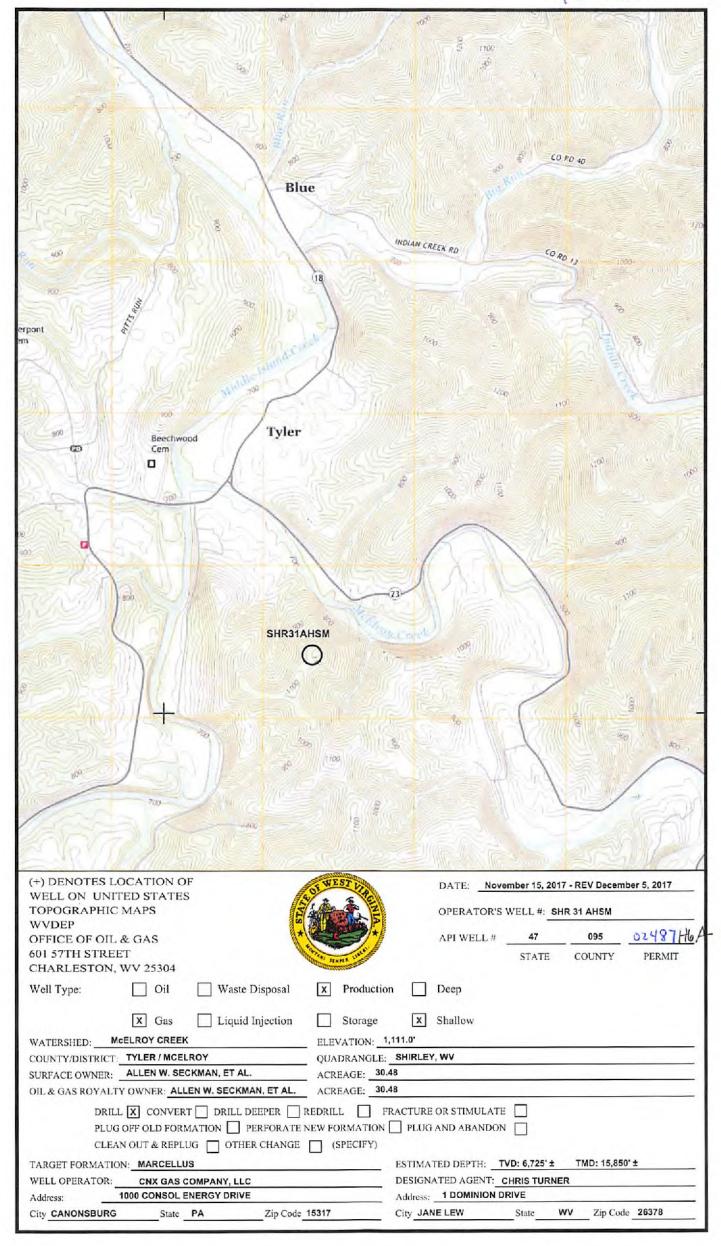
Solidification/Incineration Soil Remediation, Inc. Permit # 02-20753 6065 Arrel-Smith Road Lowelville, OH 44436 330-536-6825

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 Gas Office of Oil and Gas

WV Department of Environmental Protection





Well is	s located on topo map7,777'	feet south of Latitude:	39° 25' 00"
			Well is located on topo map 5,806
		BHL	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. FILE # SHR 31 AHSM DRAWING #: 3601 - SHR31A WELL - R3 - 20171219.D	I, THE UNDERSIGNED PLAT IS CORRECT TO THE E BELIEF AND SHOWS ALL THI	, HEREBY CERTIFY THAT THIS BEST OF MY KNOWLEDGE AND E INFORMATION REQUIRED BY	SHEFFLED THE GISTERS OF THE SHEFFLED THE SHE
SCALE: 1"=2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE OF ELEVATION: USGS MONUMENT A 142: 724.61'	THE DEPARTMENT OF ENVIR	ONMENTAL PROTECTION. P.S. NO.	STATE OF STA
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304	SUNEST WEST WAS	OPERATOR'S WELL API WELL#	15, 2017 - REV December 19, 2017 L#: SHR 31 AHSM 47 095 02487 H 6 A FATE COUNTY PERMIT
Well Type: X Gas WATERSHED: McELROY CREEK COUNTY/DISTRICT: TYLER / MCELROY SURFACE OWNER: ALLEN W. SECKMAI OIL & GAS ROYALTY OWNER: ALLEN W.	N, ET AL. ACREAGE: 3	X Shallow 1,111.0' SHIRLEY, WV 0.48	
DRILL X CONVERT	DRILL DEEPER REDRILL ON PERFORATE NEW FORMATION OTHER CHANGE (SPECIFY) ANY, LLC BY DRIVE	FRACTURE OR STIMULATE	TURNER

QLS # 51711000 cle Opinion QLS # 03628000	Lillie Seckman Drilling Appalachian Corporation Dominion Appalachian Development Properties LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC CNX Gas Company LLC Noble Energy Inc. Drilling Appalachian Corporation Antero Resources Corporation Noble Energy Inc. Grantor, Lessor, etc	Drilling Appalachian Corporation Dominion Appalachian Development Properties LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. Drilling Appalachian Corporation CNX Gas Company LLC Antero Resources Appalachian Corporation CNX Gas Company LLC CNX Gas Company LLC Antero Resources Appalachian Corporation CNX Gas Company LLC CNX Gas Company LLC Grantee, Lessee, etc	Royalty Not less than 1/8 Assignment Certificate of Incorporation Merger Merger Merger 50% Assignment Corrective Assignment Corrective Assignment Assignment Assignment Assignment Assignment	Book/Page DB 268/475 322/190 CIB 9/124 CIB 9/144 CIB 9/156 Barbour CIB 17/1 DB 388/286 401/342 402/704 401/499 LB 422/517 DB 550/273
ele Opinion QLS#	Drilling Appalachian Corporation Dominion Appalachian Development Properties LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC CNX Gas Company LLC Noble Energy Inc. Drilling Appalachian Corporation Antero Resources Corporation Noble Energy Inc.	Dominion Appalachian Development Properties LLC CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. Drilling Appalachian Corporation CNX Gas Company LLC Antero Resources Appalachian Corporation CNX Gas Company LLC CNX Gas Company LLC and Noble Energy Inc. CNX Gas Company LLC and Noble Energy Inc. CNX Gas Company LLC	Assignment Certificate of Incorporation Merger Merger Merger 50% Assignment Corrective Assignment Assignment Assignment Assignment	322/190 CIB 9/124 CIB 9/144 CIB 9/156 Barbour CIB 17/1 DB 388/286 401/342 402/704 401/499 LB 422/517
QLS#	CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC CNX Gas Company LLC Noble Energy Inc. Drilling Appalachian Corporation Antero Resources Corporation Noble Energy Inc.	CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. Drilling Appalachian Corporation CNX Gas Company LLC Antero Resources Appalachian Corporation CNX Gas Company LLC CNX Gas Company LLC and Noble Energy Inc. CNX Gas Company LLC	Certificate of Incorporation Merger Merger Merger 50% Assignment Corrective Assignment Assignment Assignment Assignment	CIB 9/124 CIB 9/144 CIB 9/156 Barbour CIB 17/1 DB 388/286 401/342 402/704 401/499 LB 422/517
QLS#	CONSOL Gas Appalachian Development Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC CNX Gas Company LLC Noble Energy Inc. Drilling Appalachian Corporation Antero Resources Corporation Noble Energy Inc.	CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC Noble Energy Inc. Drilling Appalachian Corporation CNX Gas Company LLC Antero Resources Appalachian Corporation CNX Gas Company LLC and Noble Energy Inc. CNX Gas Company LLC	Merger Merger 50% Assignment Corrective Assignment Assignment Assignment Assignment	CIB 9/156 Barbour CIB 17/1 DB 388/286 401/342 402/704 401/499 LB 422/517
QLS#	Properties LLC CONSOL Gas Reserves Inc. CONSOL Gas Company CNX Gas Company LLC CNX Gas Company LLC Noble Energy Inc. Drilling Appalachian Corporation Antero Resources Corporation Noble Energy Inc.	CNX Gas Company LLC Noble Energy Inc. Drilling Appalachian Corporation CNX Gas Company LLC Antero Resources Appalachian Corporation CNX Gas Company LLC and Noble Energy Inc. CNX Gas Company LLC	Merger Merger 50% Assignment Corrective Assignment Assignment Assignment Assignment	CIB 9/156 Barbour CIB 17/3 DB 388/286 401/342 402/704 401/499 LB 422/517
QLS#	CONSOL Gas Company CNX Gas Company LLC CNX Gas Company LLC Noble Energy Inc. Drilling Appalachian Corporation Antero Resources Corporation Noble Energy Inc.	CNX Gas Company LLC Noble Energy Inc. Drilling Appalachian Corporation CNX Gas Company LLC Antero Resources Appalachian Corporation CNX Gas Company LLC and Noble Energy Inc. CNX Gas Company LLC	Merger 50% Assignment Corrective Assignment Assignment Assignment Assignment	Barbour CIB 17/3 DB 388/286 401/342 402/704 401/499 LB 422/517
QLS#	CNX Gas Company LLC CNX Gas Company LLC Noble Energy Inc. Drilling Appalachian Corporation Antero Resources Corporation Noble Energy Inc.	Noble Energy Inc. Drilling Appalachian Corporation CNX Gas Company LLC Antero Resources Appalachian Corporation CNX Gas Company LLC and Noble Energy Inc. CNX Gas Company LLC	50% Assignment Corrective Assignment Corrective Assignment Assignment Assignment	DB 388/286 401/342 402/704 401/499 LB 422/517
QLS#	CNX Gas Company LLC Noble Energy Inc. Drilling Appalachian Corporation Antero Resources Corporation Noble Energy Inc.	Drilling Appalachian Corporation CNX Gas Company LLC Antero Resources Appalachian Corporation CNX Gas Company LLC and Noble Energy Inc. CNX Gas Company LLC	Corrective Assignment Corrective Assignment Assignment Assignment	401/342 402/704 401/499 LB 422/517
QLS#	Noble Energy Inc. Drilling Appalachian Corporation Antero Resources Corporation Noble Energy Inc.	CNX Gas Company LLC Antero Resources Appalachian Corporation CNX Gas Company LLC and Noble Energy Inc. CNX Gas Company LLC	Corrective Assignment Assignment Assignment	402/704 401/499 LB 422/517
QLS#	Drilling Appalachian Corporation Antero Resources Corporation Noble Energy Inc.	Antero Resources Appalachian Corporation CNX Gas Company LLC and Noble Energy Inc. CNX Gas Company LLC	Assignment Assignment	401/499 LB 422/517
QLS#	Antero Resources Corporation Noble Energy Inc.	CNX Gas Company LLC and Noble Energy Inc. CNX Gas Company LLC	Assignment	LB 422/517
QLS#	Noble Energy Inc.	CNX Gas Company LLC		
QLS#			Assignment	DB 550/273
QLS#	Grantor, Lessor, etc	Grantee, Lessee, etc		
_			Royalty	Book/Page
	Lillie Seckman	Drilling Appalachian Corporation	Not less than 1/8	268/457
	George V. Myers and Merle V. Myers, h/w	Drilling Appalachian Corporation	Not less than 1/8	273/278
	Drilling Appalachian Corporation	Antero Resources Appalachian Corporation	Assignment	401/499
	Drilling Appalachian Corporation	Antero Resources Corporation	Corrective Assignment	421/138
	Antero Resources Corporation	CNX Gas Company and Noble Energy, Inc.	Assignment	422/517
_	Noble Energy, Inc.	CNX Gas Company	Assignment	550/273
	, and a second s			
	Allen W. Seckman and Nancy J. Seckman, h/w	Noble Energy, Inc.	Not less than 1/8	465/594
	Noble Energy, Inc.	CNX Gas Company	Assignment	550/273
tle Opinion	Grantor, Lessor, etc	Grantee, Lessee, etc		Dook /Doos
QLS#			Royalty	Book/Page
66306000	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
- 9	CONSOL Gas Company	CNX Gas Company LLC	Merger	Barbour CIB 17/
	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
	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
tle Opinion	Kenneth R. Mason and Jennifer L. Mason	Acropolis, Inc.	- manufactural of	DB 331/475
QL5#	THE PROPERTY OF THE PROPERTY O			DB 331/483
		The state of the s		DB 391/416
QL5#				DB 421/130
QL5#	Drilling Annalachian Cornoration	The state of the s		DB 422/517
QL5#	- Committee of the Comm			DB 550/273
	#	Noble Energy Inc. Grantor, Lessor, etc Wenneth R. Mason and Jennifer L. Mason Acropolis, Inc. Drilling Appalachian Corporation Drilling Appalachian Corporation Antero Resources Appalachian Corporation	Noble Energy Inc. CNX Gas Company LLC Grantee, Lessee, etc Grantee, Lessee, etc Grantee, Lessee, etc Acropolis, Inc. Acropolis, Inc. Drilling Appalachian Corporation Drilling Appalachian Corporation Antero Resources Appalachian Corporation Drilling Appalachian Corporation Antero Resources Appalachian Corporation	Noble Energy Inc. CNX Gas Company LLC Assignment Grantor, Lessor, etc Grantee, Lessee, etc Royalty Not less than 1/8 Acropolis, Inc. Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation CNX Gas Company LLC and Noble Energy, Inc. Marcellus Assignment CNX Gas Company LLC and Noble Energy, Inc.



(+) DENOTES LO			OF WEST VIA		DATE: No	vember 15, 201	7 - REV Novem	mber 21, 2017
TOPOGRAPHIC		Z Z	2		OPERATOR'	S WELL #: SH	HR 31 AHSM	
WVDEP OFFICE OF OIL		*			API WELL#	47	095	02487 HOA
601 57TH STREE CHARLESTON,			THE SEASON SEASON			STATE	COUNTY	PERMIT
Well Type:	Oil	Waste Disposal	x Productio	n 📄	Deep			
	X Gas	Liquid Injection	Storage	X	Shallow			
WATERSHED: MC	ELROY CREEK	(ELEVATION: 1	,111.0				
COUNTY/DISTRICT:	TYLER / MCE	LROY	QUADRANGLE:	SHIRLE	Y, WV			
SURFACE OWNER:	ALLEN W. SE	CKMAN, ET AL.	ACREAGE: 30.	48				
The state of the s		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		ESTIMA	TED DEPTH:	TVD: 6,725' ±	TMD: 15,85	50' ±
WELL OPERATOR:	CNX GAS	COMPANY, LLC			ATED AGENT		R	
Address	1000 CONSOL I	ENERGY DRIVE		Address	1 DOMINION	DRIVE		
City CANONSBURG	State	PA Zip Code	15317	City JA	NE LEW	State	WV Zip Co	de 26378

Parcel	Title Opinion QLS#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
part of 05-15-32	238357000	Everett Roy Weese and Betty J. Weese, h/w	KEPCO, Inc.	Not less than 1/8	DB 232/30
73-13-32		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%)			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	403/556
		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
			CNX Gas Company LLC	Assignment (50%)	484/288
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273



(+) DENOTES LOCATION OF	OF WEST VIS	DATE: Nove	DATE: November 15, 2017 - REV November 21, 2017				
WELL ON UNITED STATES TOPOGRAPHIC MAPS	\$ \ \frac{1}{2}	OPERATOR'S	WELL#: SH	R 31 AHSM			
WVDEP OFFICE OF OIL & GAS	*	API WELL#	47	095	02487 HEA		
601 57TH STREET CHARLESTON, WV 25304	The source with		STATE	COUNTY	PERMIT		
Well Type: Oil Waste Disposa	d X Production	Deep					
X Gas Liquid Injection	on Storage X	Shallow					
WATERSHED: McELROY CREEK	ELEVATION: 1,111.0'						
COUNTY/DISTRICT: TYLER / MCELROY	QUADRANGLE: SHIRL	EY, WV					
SURFACE OWNER. ALLEN W. SECKMAN, ET AL.	ACREAGE: 30.48						
OIL & GAS ROYALTY OWNER: ALLEN W. SECKMAN, ET A	AL. ACREAGE: 30.48						
DRILL X CONVERT DRILL DEEPER PLUG OFF OLD FORMATION PERFORA CLEAN OUT & REPLUG OTHER CHAN	ATE NEW FORMATION PLU						
TARGET FORMATION: MARCELLUS	ESTIM	IATED DEPTH: _T	VD: 6,725' ±	TMD: 15,85	50' ±		
WELL OPERATOR: CNX GAS COMPANY, LLC	DESIC	NATED AGENT: C	CHRIS TURNE	R			
Address: 1000 CONSOL ENERGY DRIVE	Addres	s: 1 DOMINION D	RIVE				
City CANONSBURG State PA Zip C	Code 15317 City J	ANE LEW	State	W Zip Co	de 26378		

itle Opinion QLS#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
238357000	Everett Roy Weese and Betty J. Weese, h/w	KEPCO, Inc.	No. 1 and 10	
	KEPCO, Inc.	Sudft Engrav Company	Not less than 1/8	DB 232/30
	KEPCO	Swift Energy Company Union Drilling, Inc.	Assignment (50%)	254/5
	Union Drilling Inc.	A CONTRACTOR OF THE PARTY OF TH	Merger	WV Sec of State
	Equitable Resources Exploration, Inc.	Equitable Resources Exploration, Inc. Swift Energy Company	Name Change	WV Sec of State
	Swift Energy Company	Committee of the Commit	Assignment (50%)	275/566
	Switt 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 1988-A Ltd. (2 Swift Energy Income Partners 1988-B Ltd. (2	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	397/659
	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	403/551
	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	Noble Energy, Inc.	Not less than 1/8	440/443
	Shelek-Furbee, h/w Allison McKay Hardin (Allison Furbee Herring)	Noble Energy, Inc.	Not less than 1/8	440/453
_			Not less than 1/8	445/835
			Company of the Compan	484/288
	Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
		Rani J. Boyt Noble Energy, Inc.	Rani J. Boyt Noble Energy, Inc. Noble Energy, Inc. CNX Gas Company LLC	Rani J. Boyt Noble Energy, Inc. Not less than 1/8 Noble Energy, Inc. CNX Gas Company LLC Assignment (50%)



(+) DENOTES LOCATION OF WELL ON UNITED STATES	OF WEST VIA	DATE: Nov	ember 15, 201	7 - REV Novem	nber 21, 2017
TOPOGRAPHIC MAPS	2	OPERATOR'S WELL #: SHR 31 AHSM			
WVDEP OFFICE OF OIL & GAS	S A	API WELL #	47	095	02487H6A
601 57TH STREET CHARLESTON, WV 25304	SALL LINE THE		STATE	COUNTY	PERMIT
Well Type: Oil Waste Disposal	x Production	Deep			
X Gas Liquid Injection	Storage X	Shallow			
WATERSHED: MCELROY CREEK	ELEVATION: 1,111.0'				
COUNTY/DISTRICT: TYLER / MCELROY	QUADRANGLE: SHIRLE	Y, WV			
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 PLUG OFF OLD FORMATION PERFORATION CLEAN OUT & REPLUG OTHER CHANCE	TE NEW FORMATION PLUC	E OR STIMULAT G AND ABANDO			
TARGET FORMATION: MARCELLUS	ESTIMA	TED DEPTH	TVD: 6,725' ±	TMD: 15,85	0' ±
WELL OPERATOR: CNX GAS COMPANY, LLC		ATED AGENT:		R	
Address: 1000 CONSOL ENERGY DRIVE	Address	1 DOMINION	DRIVE		
City CANONSBURG State PA Zip Co	de 15317 City JA	NE LEW	State	VV Zip Coo	de 26378

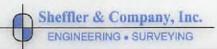
ax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
5-18-8	108567000	Lepta B. McKinney and Lester McKinney, h/w	Drilling Appalachian Corporation	Not less than 1/8	330/237
		Howard Stubbs and Nelda Stubbs, h/w	Drilling Appalachian Corporation	Not less than 1/8	330/241
		Marvin G. Board and Becky Jo Board, h/w	Drilling Appalachian Corporation	Not less than 1/8	330/426
		Robert Travis and Carol Travis, h/w	Drilling Appalachian Corporation	Not less than 1/8	330/487
		Creal Hoover	Drilling Appalachian Corporation	Not less than 1/8	330/491
		Joseph Travis and Carole Travis, h/w	Drilling Appalachian Corporation	Not less than 1/8	330/511
		Eva Jean Hoover	Drilling Appalachian Corporation	Not less than 1/8	330/542
- 4		Glenda Gregory	Drilling Appalachian Corporation	Not less than 1/8	330/546
		Drilling Appalachian Corporation	Antero Resources Appalachian Corporation	Assignment	391/416
		Drilling Appalachian Corporation	Antero Resources Corporation	Corrective Assignment	421/130
		Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
		Josephine Spencer and David Spencer, h/w	Drilling Appalachian Corporation	Not less than 1/8	330/233
		Walter Seckman and Eva Seckman, h/w	Drilling Appalachian Corporation	Not less than 1/8	330/430
		Michael Fisher	Drilling Appalachian Corporation	Not less than 1/8	330/503
		Joe Seckman	Drilling Appalachian Corporation	Not less than 1/8	330/507
		Antonia Underwood	Drilling Appalachian Corporation	Not less than 1/8	330/550
		Camella Ash	Drilling Appalachian Corporation	Not less than 1/8	330/575
		Jill Robinson	Drilling Appalachian Corporation	Not less than 1/8	330/579
		Donna Wolther	Drilling Appalachian Corporation	Not less than 1/8	330/742
		Jennifer Sexson	Drilling Appalachian Corporation	Not less than 1/8	330/657
		Drilling Appalachian Corporation	Antero Resources Appalachian Corporation	Assignment	401/499
		Drilling Appalachian Corporation	Antero Resources Corporation	Corrective Assignment	421/138
		Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
		Kimberly Dawn Jackson	Drilling Appalachian Corporation	Not less than 1/8	395/795
		Scott Seckman	Drilling Appalachian Corporation	Not less than 1/8	395/797
		James F. Bonnell and Jacqueline S. Bonnell, h/w	Drilling Appalachian Corporation	Not less than 1/8	409/253
		Drilling Appalachian Corporation	Noble Energy, Inc.	Assignment	452/641
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	542/147
		Keith E. Rheinhardt	Noble Energy, Inc.	Not less than 1/8	DB 449/525
		Gary A. Rheinhardt, Jr.	Noble Energy, Inc.	Not less than 1/8	DB 449/527
		Charles D. Rheinhardt and Denise M. Rheinhardt, h/w	Noble Energy, Inc.	Not less than 1/8	DB 449/531
		Randali Rheinhardt, a single man	Noble Energy, Inc.	Not less than 1/8	DB 453/535
		David Rheinhardt, a single man	Noble Energy, Inc.	Not less than 1/8	DB 453/633
		Iris Rheinhardt, a single woman	Noble Energy, Inc.	Not less than 1/8	DB 458/642
		Tami Dawn Rheinhardt	Noble Energy, Inc.	Not less than 1/8	DB 465/270
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
Tax Map &	Title Opinion	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
Parcel 5-18-9	QLS # 281687000	Wm. Blaine Underwood and Laura J.	Equitable Gas Company	Not less than 1/8	186/86
3-10-3	201007000	Underwood, h/w, Donald Underwood, Hugh Underwood and Pearline Underwood, h/w, and D.L. Haught and Susan O. Haught, h/w			
		Equitable Gas Company	Equitrans, Inc.	Assignment	274/471
		Equitrans, Inc.	Equitable Gas Company LLC	Merger	433/738
		Equitable Resources, Inc.	Equitable Gas Company LLC	Merger	433/755
		Equitable Gas Company LLC and EQT Corporation	Equitrans, LP	Assignment	433/777
		Equitrans, LP	EQT Production Company	Sublease	396/640
		Equitrans, LP	EQT Production Company	Sublease	420/10
		EQT Production Company	CNX Gas Company LLC and Noble Energy, Inc.	Farmout	411/252
		EQT Production Company	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	449/480
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273

Sheffler & Company, Inc.

1712 Mount Nebo Road Phone: 412-219-4509

	ENG	NEERING . SURVEYING	Sewickley	PA 15143	Email:Inf	o@shefflerCo.com	1	
(+) DENOTES LOC WELL ON UNITED TOPOGRAPHIC MA	STATES		OF WEST VIRE			lovember 15, 20		
WVDEP	7.4.5	*	*		API WELL	# 47	095	02487 HOA
OFFICE OF OIL & 0 601 57TH STREET CHARLESTON, WY		The state of the s	SWAN SENSER LILLY		,	STATE	COUNTY	PERMIT
Well Type: [Oil	Waste Disposal	X Production	1 🗌	Deep			
	X Gas	Liquid Injection	Storage	X	Shallow			
WATERSHED MCEL	ROY CREEK		ELEVATION. 1,		3.53.75			
COUNTY/DISTRICT: TY			QUADRANGLE:		Y, WV			
SURFACE OWNER: A	LLEN W. SEC	KMAN, ET AL.	ACREAGE: 30.4	18				
		N W. SECKMAN, ET AL.	ACREAGE: 30.4	18				
PLUG OF	F OLD FORM	DRILL DEEPER FATION PERFORATE N	NEW FORMATION	RACTURE PLUG	OR STIMUL AND ABANI	DON		
TARGET FORMATION				ESTIMA	TED DEPTH:	TVD: 6,725' ±	TMD: 15,88	50' ±
WELL OPERATOR						T: CHRIS TURN		
The state of the s	127220000000000000000000000000000000000	NERGY DRIVE		Address	1 DOMINIC	N DRIVE		
City CANONSBURG		PA Zip Code	15317		NE LEW		WV Zip Co	de 26378

Tax Map & Parcel	Title Opinion QL5 #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
5-18-7.1 25727	257270000	Mary Keys and Haskell Keys, h/w, and John L. Seckman	J.M.L. Smith	Not less than 1/8	158/214
		J.M.L. Smith	Duncan Sartain	Assignment	158/235
		Duncan Sartain	W.E. Pope	Assignment	158/439
		Duncan Sartain	W.E. Pope	Assignment	159/377
		Duncan Sartain	Douglas A. Williams	Assignment	158/459
		Douglas A. Williams	W. Truett Smith, Frank Rose and George S. Finley	Assignment	158/429
		Douglas A. Williams	Walter F. Tucker	Assignment	158/460
		Douglas A. Williams	Joe H. Foy	Assignment	158/478
		Douglas A. Williams	Archie Bean	Assignment	158/479
		Douglas A. Williams R.C. Crabb		Assignment	159/326
		Douglas A. Williams	Marvin Hanz	Assignment	158/577
		W. Truett Smith, Frank Rose and George S. Finley	W.E. Pope	Assignment	216/304
		W. Truett Smith, Frank Rose and George S. Finley	W.E. Pope	Assignment	216/307
		W.F. Tucker	W.E. Pope	Assignment	163/216
		Joe H. Foy	W.E. Pope	Assignment	216/303
		Archie Bean	W.E. Pope	Assignment	216/306
		W.E. Pope	Judith A. Pope, as Executrix	Recital in Assignment	311/655
		Estate of W.E. Pope, acting through Independent Executrix Judith A. Pope	Drilling Appalachian Corporation	Assignment	311/655
		R.C. Crabb	Southwest Savings and Loan Association	Assignment	176/264
		Southwest Savings and Loan Association	Hugh Spencer	Assignment	Unrecorded
		Spencer Enterprises, by Hugh Spencer, owner	Drilling Appalachian Corporation	Assignment	315/465
		Mary Hanz	Drilling Appalachian Corporation	Assignment	313/243
		Drilling Appalachian Corporation	Antero Resources Appalachian Corporation	Assignment	391/416
		Drilling Appalachian Corporation	Antero Resources Appalachian Corporation	Corrective Assignment	421/130
		Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273



(+) DENOTES LOCATION OF WELL ON UNITED STATES	OF WEST VIA	DATE: Nove	mber 15, 201	7 - REV Novem	nber 21, 2017
TOPOGRAPHIC MAPS	E A	OPERATOR'S	WELL#: SH	R 31 AHSM	
WVDEP OFFICE OF OIL & GAS	*	API WELL#	47	095	02487 HEA
601 57TH STREET CHARLESTON, WV 25304	STATE STATE CITY		STATE	COUNTY	PERMIT
Well Type: Oil Waste Disposal	X Production	Deep			
X Gas Liquid Injection	Storage x	Shallow			
WATERSHED MCELROY CREEK	ELEVATION _ 1,111.0'				
COUNTY/DISTRICT: TYLER / MCELROY	QUADRANGLE: SHIRLE	Y, WV			
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 PLUG OFF OLD FORMATION PERFORAT CLEAN OUT & REPLUG OTHER CHANG	E NEW FORMATION PLU				
TARGET FORMATION: MARCELLUS	ESTIM	ATED DEPTH: T	VD: 6,725' ±	TMD: 15,85	0' ±
WELL OPERATOR: CNX GAS COMPANY, LLC	DESIG	NATED AGENT: C	HRIS TURNE	R	
Address: 1000 CONSOL ENERGY DRIVE	Address	1 DOMINION D	RIVE		
City CANONSBURG State PA Zin Cou	le 15317 City JA	NE LEW	State 1	AV Zip Coc	ie 26378

WW-6A1	
(5/13)	

Operator's	Well No	SHR31AHSM
•		

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
	Grantor, Besser, etc.	Grance, Lessee, etc.	Royalty	DOUNFage
Can attached				

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 Compar	ny, LLC	
By:	Raymond Hoon	7 Cm	12-
Its:	Permitting Supervis	sor	

Attachment - Form WW-6A-1 for SHRL31AHS

05-15-42 261711000	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Pas
101711100	Lillie Seckman Drilling Appalachian Corporation	Drilling Appalachian Corporation Dominion Appalachian Development Properties LLC	Not less than 1/8 Assignment	DB 268/47 322/190
	Dominion Appalachian Development Properties LLC	CONSOL Gas Appalachian Development Properties LLC	Certificate of Incorporation	CIB 9/12/
	CONSOL Gas Appalachian Development Properties LLC	CONSOL Gas Reserves Inc.	Merger	CIB 9/144
	CONSOL Gas Reserves Inc. CONSOL Gas Company	CONSOL Gas Company	Merger	CIB 9/156
	CNX Gas Company LLC	ENX Gas Company LLC Noble Energy Inc.	Merger 50% Assignment	Barbour CIB DB 388/2
	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 Noble Energy Inc.	CNX Gas Company LLC and Noble Energy Inc. CNX Gas Company LLC	Assignment Assignment	LB 422/51 DB 550/27
Fax Map & Title Opinion	Grantor, Lessor, etc	Grantee, Lessee, etc		
1	Lillie Seckman	hamilton and half of the second	Royalty	Book/Pay
100020000	George V. Myers and Marie V. Myers, h/w	Drilling Appalachian Corporation Drilling Appalachian Corporation	Not less than 1/8 Not less than 1/8	268/457 273/278
	Drilling Appalachian Corporation	Antero Resources Appalachian Corporation	Assignment.	401/499
	Drilling Appalachian Corporation	Antero Resources Corporation	Corrective Assignment	421/138
	Antero Resources Corporation Noble Energy, Inc.	CNX Gas Company and Noble Energy, Inc. CNX Gas Company	Assignment Assignment	422/517 550/273
	Allen W. Seckman and Nancy J. Seckman, h/w Noble Energy, Inc.	Noble Energy, Inc. ENX Gas Company	Not less than 1/8 Assignment	465/594 550/273
u a du astro	-	Cita Gas Company	Assignment	330/273
Parcel QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Pag
05-15-37 266306000		Drilling Appalachian Corporation	Not less than 1/8	DB 268/47
	Brilling Appalachian Corporation	Dominion Appalachian Development Properties LLC	Assignment	322/190
	Dominion Appalachian Development Properties LLC CONSOL Gas Appalachian Development Properties LLC	CONSOL Gas Appalachian Development Properties LLC. CONSOL Gas Reserves Inc.	Certificate of Incorporation Merger	CIB 9/12 CIB 9/14
	CONSOL Gas Reserves Inc.	CONSOL Gas Company	Merger	CIB 9/15
	CONSOL Gas Company	CNX Gas Company LLC	Merger	Barbour CIB
	CNX Gas Company LLC	Noble Energy Inc.	50% Assignment	DB 388/2
	CNX Gas Company LLC Noble Energy Inc.	Drilling Appalachian Corporation CNX Gas Company LLC	Corrective Assignment Corrective Assignment	401/342
	Drilling Appalachian Corporation	Antero Resources Appalachian Corporation	Assignment	401/499
	Antero Resources Corporation	CNX Gas Company LLC and Noble Energy Inc.	Assignment	LB 422/51
	Noble Energy Inc.	CNX Gas Company LLC	Assignment	DB 550/27
Parcel QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Pag
05-15-38 108503000	Kenneth R. Mason and Jennifer L. Mason	Acropolis, Inc.	Not less than 1/8	DB 331/4
	Acropolis, Inc.	Drilling Appalachian Corporation	Assignment	DB 331/4
	Drilling Appalachian Corporation Drilling Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation	Assignment Corrective Assignment	DB 391/4 DB 421/1
	Antero Resources Appalachian Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Marcellus Assignment	DB 422/5
	Noble Energy Inc.	CNX Gas Company LLC	Assignment	DB 550/2
THE RESIDENCE	Grantor, Lessor, etc	Grantee, Lessee, etc	2.3	Book/Pa
The second secon				
Parcel / QL5 #	Everett Roy Weese and Betty J. Weese, h/w	KEPCO, Inc.	Royalty	
Parcel / QL5 #	Everett Roy Weese and Betty J. Weese, h/w	KEPCO, Inc.	Not less than 1/8	DB 232/
Parcel / QL5 #	Everett Roy Weese and Betty J. Weese, h/w KEPCO, Inc. KEPCO	Swift Energy Company		DB 232/5 254/5
Parcel / QL5#	KEPCO, Inc. KEPCO Union Orilling Inc.	Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc.	Not less than 1/8 Assignment (50%) Merger Name Change	DB 232/5 254/5 WV Sec of 5 WV Sec of 5
part of 238357000	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/ 254/5 WV Sec of 5 WV Sec of 5
Parcel / QL5 #	KEPCO, Inc. KEPCO Union Orilling Inc.	Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%)	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%)	DB 232/ 254/5 WV Sec of: WV Sec of: 275/56
Parcel / QL5 #	KEPCO, Inc. KEPCO Union Orilling 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	OB 232/ 254/5 WV Sec of 5 WV Sec of 5 275/56
part of 238357000	KEPCO, Inc. KEPCO Union Drilling Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (34%)	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%)	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%)	OB 232/ 254/5 WV Sec of 5 WV Sec of 5 275/56
part of 238357000	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 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%)	OB 232/, 254/5 WV Sec of 3 WV Sec of 3 275/56
part of 238357000	KEPCO, Inc. KEPCO Union Orilling 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 Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%)	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment	OB 232/ 254/5 WV Sec of : WV Sec of : 275/56 287/35
part of 238357000	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 Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%)	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment	OB 232/, 254/5 WV Sec of 3 WV Sec of 3 275/56
part of 238357000	KEPCO, Inc. KEPCO Union Oriling 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. (21%) Swift Energy Income Partners 1988-1 Ltd. (11%) Swift Energy Income Partners 1988-D Ltd. (34%) Swift Energy Income Partners 1988-A Ltd. (33%)	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. (37%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%) Peake Energy, Inc.	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment	D6 232/ 254/5 WV Sec of 5 WV Sec of 5 275/56 287/35,
part of 238357000	KEPCO, Inc. KEPCO Union Orilling 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. (21%) Swift Energy Income Partners 1988-B Ltd. (11%) Swift Energy Income Partners 1988-B Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%)	Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (11%)	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment Assignment	D6 232/ 254/5 WV Sec of 5 WV Sec of 5 275/56 287/35,
Parcel / QL5 #	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. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (21%)	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. (37%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-1 Ltd. (11%) Peake Energy, Inc.	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment Assignment	DB 232/
part of 238357000	KEPCO, Inc. KEPCO Union Orilling 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. (21%) Swift Energy Income Partners 1988-B Ltd. (11%) Swift Energy Income Partners 1988-B Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%)	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. (37%) Swift Energy Income Partners 1988-B Ltd. (11%) Swift Energy Income Partners 1988-1 Ltd. (11%) Peake Energy, Inc.	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment Assignment Corrective Assignment	DB 232/ 254/5 WV Sec of 1 WV Sec of 2 275/56 287/35 319/29
part of 238357000	KEPCO, Inc. KEPCO Union Orling 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-D Ltd. (34%) Swift Energy Income Partners 1988-D Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (22%) Swift Energy Income Partners 1988-B Ltd. (23%) Swift Energy Income Partners 1988-B Ltd. (23%) Swift Energy Income Partners 1988-B Ltd. (23%) Swift Energy Income Partners 1988-B Ltd. (21%)	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. (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.	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment Assignment Corrective Assignment Name Change	DB 232/ 254/5 WV Sec of: WV Sec of: 275/56 287/35 319/29 WV Sec of: WV Sec of:
Parcel / QL5 #	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-D Ltd. (34%) Swift Energy Income Partners 1988-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (35%) 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. North Coast Energy Eastern, Inc. EXCO Resources (WV), LtC EXCO Resources (WV), Inc. (49.75%)	Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (33%) 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 (IVV), Inc. (49.75%) EXCO Resources (IVV), Inc. (49.75%) EXCO Resources (IVV), Inc. (49.75%)	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment Assignment Corrective Assignment Name Change Name Change	DB 232/ 254/5 WV Sec of: WV Sec of: 275/56 287/35 319/29 321/65 WV Sec of: WV Sec of:
part of 238357000	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. (21%) Swift Energy Income Partners 1988-B Ltd. (21%) Swift Energy Income Partners 1988-D Ltd. (34%) Swift Energy Income Partners 1987-D Ltd. (34%) Swift Energy Income Partners 1988-B Ltd. (23%) Swift Energy Income Partners 1988-B Ltd. (23%) Swift Energy Income Partners 1988-B Ltd. (21%) Swift Energy Income Partners 1988-1 Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc. EXCO Resources (WV), Ltc. EXCO Resources (WV), Ltc. (49.75%) EXCO Production Company (WV), Ltc. (49.75%) EXCO Production Company (WV), Ltc. (49.75%) EXCO Resources (PA), Inc. (45%)	Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Income Partners 1982-D Ltd. (34%) Swift Energy Income Partners 1983-A 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 Resources (WV), Inc. (49,75%) EXCO Resources (PA), Inc. (0.5%) BS 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 Assignment	DB 232/ 254/5 WV Sec of 5 WV Sec of 5 275/56 287/35 319/29 321/65
part of 238357000	KEPCO, Inc. KEPCO Union Oriling 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. (11%) Swift Energy Income Partners 1988-B Ltd. (11%) Swift Energy Income Partners 1988-B Ltd. (23%) Swift Energy Income Partners 1988-B Ltd. (23%) Swift Energy Income Partners 1988-B Ltd. (21%) Swift Energy Income Partners 1988-B Ltd. (21%) Swift Energy Income Partners 1988-B Ltd. (21%) Peake Energy, Inc. North Coast Energy Eastern, Inc. EXCO Resources (WV), LtC EXCO Resources (WV), LtC (49.75%) EXCO Resources (VV), Inc. (49.75%)	Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1982-0 Ltd. (33%) Swift Energy Income Partners 1988-1 Ltd. (33%) Swift Energy Income Partners 1988-1 Ltd. (11%) 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. (0.5%) EXCO Resources (PA), Inc. (0.5%) BG Production Company (WV), LLC (49.75%) EXCD Production Company (WV), LLC (49.75%)	Not less than 1/8 Assignment (50%) Merger Name Change Assignment (50%) Assignment Assignment Corrective Assignment Name Change Assignment Name Change	DB 232/ 254/5 WV Sec of: WV Sec of: 275/56 287/35 319/29 321/65 WV Sec of: WV Sec of:
part of 238357000	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-B Ltd. (24%) Swift Energy Income Partners 1988-B Ltd. (34%) Swift Energy Income Partners 1988-B 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-B Ltd. (21%) Peake Energy, Inc. North Coast Energy Eastern, Inc. EXCO Resources (WV), LtC EXCO Resources (WV), LtC (49.75%) EXCO Production Company (WV), LtC (49.75%) BG Production Company (WV), LtC (49.75%) Antero Resources Corporation Noble Energy, Inc.	Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Income Partners 1987-D Ltd. (33%) 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 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 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 Name Change Assignment Assignment Assignment	DB 232/ 254/5 WV Sec of: WV Sec of: 275/56 287/35 319/29 321/65 WV Sec of: WV Sec of: 406/19 422/51 550/27
part of 238357000	KEPCO, Inc. KEPCO Union Oriling 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. (11%) Swift Energy Income Partners 1988-B Ltd. (11%) Swift Energy Income Partners 1988-B Ltd. (23%) Swift Energy Income Partners 1988-B Ltd. (23%) Swift Energy Income Partners 1988-B Ltd. (21%) Swift Energy Income Partners 1988-B Ltd. (21%) Swift Energy Income Partners 1988-B Ltd. (21%) Peake Energy, Inc. North Coast Energy Eastern, Inc. EXCO Resources (WV), LtC EXCO Resources (WV), LtC (49.75%) EXCO Resources (VV), Inc. (49.75%)	Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1982-0 Ltd. (33%) Swift Energy Income Partners 1988-8 Ltd. (32%) Swift Energy Income Partners 1988-1 Ltd. (11%) 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%) BC 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 Assignment Assignment	DB 232/ 254/5 WV Sec of WV Sec of 287/35 319/25 321/65 WV Sec of WV Sec of 406/15 422/51 550/21
part of 238357000	KEPCO, Inc. KEPCO 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. (11%) Swift Energy Income Partners 1988-B Ltd. (11%) Swift Energy Income Partners 1988-B Ltd. (23%) Swift Energy Income Partners 1988-B Ltd. (23%) Swift Energy Income Partners 1988-B Ltd. (21%) Swift Energy Income Partners 1988-B Ltd. (21%) Swift Energy Income Partners 1988-Ltd. (11%) Peake Energy, Inc. North Coast Energy Eastern, Inc. EXCO Resources (WV), LtC EXCO Resources (WV), LtC EXCO Resources (WV), LtC (49.75%) EXCO Resources (VV), LtC (49.75%) EXCO Resources (VV), LtC (49.75%) EXCO Resources (VV), LtC (49.75%) Antero Nesources Corporation Noble Energy, Inc. Gloria Morris	Swift Energy Company Union Drilling, Inc. Equitable Resources Exploration, Inc. Swift Energy Company Swift Energy Company Swift Energy Income Partners 1982-D Ltd. (33%) Swift Energy Income Partners 1988-B Ltd. (32%) Swift Energy Income Partners 1988-B Ltd. (32%) 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%) BC Production Company (WV), LLC (49.75%) EXCID 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 Not less than 1/8	DB 232/ 254/5 WV Sec of: WV Sec of: 275/56 287/35 319/29 321/65 WV Sec of: WV Sec of: 406/19 422/51

	Anna Sweeney LaMoyne Sweeney Four Leaf Land Company Antero Resources Corporation Noble Energy, Inc.	Four Leaf Land Company Four Leaf Land Company Antero Resources Appalachian Corporation CNX Gus Company LLC and Noble Energy, Inc. CNX Gus Company LLC	Not less than 1/8 Not less than 1/8 Assignment Assignment Assignment	370/635 370/617 403/566 422/517 550/273
	Four Leaf Land Company Antero Resources Corporation Noble Energy, Inc.	Antero Resources Appalachian Corporation CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company LLC	Not less than 1/8 Assignment Assignment	403/561 422/517 550/273
	Mary Sue Furboe Zebley Thomas Val Furboe and Katherine Shelek-Furboe, h/w Allison McKay Hardin (Allison Furboe Herring) Rani J. Boyt Noble Energy, Inc. Noble Energy, Inc.	Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. Noble Energy, Inc. CMX Gas Company LLC CMX Gas Company LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment (50%) Assignment	440/443 440/443 440/453 445/835 484/288 550/273
Tax Map & Title Opinion Parcel OLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
part of 238357000	Everett Roy Weese and Betty J. Weese, h/w	KEPCO, Inc.	noyally	BOOK/FARE
05-15-32	KEPCO, Inc.		Not less than 1/B	DB 232/30
	KEPCO, IRC.	Swift Energy Company Union Drilling, Inc.	Assignment (50%) Merker	254/5 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 Income Partners 1987-D Ltd. (34%)		
	Swift Energy Company	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 1988-8 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%)	Peake Energy, Inc.	Corrective Assignment	321/652
	Swift Energy Income Partners 1988-1 Ltd. (11%)			46.25
	Peake Energy, Inc.	North Coast Energy Eastern, Inc.	Name Change Name Change	WV Sec of State WV Sec of State
	North Coast Energy Eastern, Inc.	EXCO - North Coast Energy Eastern, Inc. EXCO Resources (WV), Inc. (49.75%)	warne change	MA 26C OL 219/6
	EXCO Resources (WV), LLC	EXCO Resources (PA), Inc. (0.5%)	Assignment	374/808
		BG 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%) BG Production Company (WV), LLC (49.75%)	Antero Resources Corporation	Assignment	405/195
	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
	Considing Sweeney	Four Leaf Land Company	Not less than 1/8 Not less than 1/8	370/605 370/611
	Rodger A. Sweeney Devon Ruth Horsley (Sweeney)	Four Leaf Land Company Four Leaf Land Company	Not less than 1/8	370/629
	Anna Sweeney	Four Leaf Land Company	Not less than 1/8	370/635
	LaMayne Sweeney	Four Leaf Land Company	Not less than 1/8	370/617
	Four Leaf Land Company	Antero Resources Appalachian Corporation	Assignment	403/566 422/517
	Antero Resources Corporation Noble Energy, Inc.	CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company LLC	Assignment 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 Assignment	422/517 550/273
	Noble Energy, Inc.	CNX Gas Company LLC	ras-finnent	330/2/3
	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 Not less than 1/8	440/443 440/453
	Allison McKay Hardin (Allison Furbee Herring) Rani J. Boyt	Noble Energy, Inc. 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 Map & Title Opinion Parcel QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	200	2007/00/00
		n Washington	Royalty	Book/Page
5-13-8 108567000	Leota B. McKinney and Lester McKinney, h/w Howard Stubbs and Nelda Stubbs, h/w	Drilling Appalachian Corporation Drilling Appalachian Corporation	Not less than 1/8 Not less than 1/8	330/237 330/241
	Marvin G. Board and Becky Jo Board, h/w	Drilling Appalachian Corporation	Not less than 1/8	330/426
	Robert Travis and Carol Travis, h/w	Drilling Appalachian Corporation	Not less than 1/8	330/487
	Creal Hoover Joseph Travis and Carole Travis, h/w	Drilling Appalachian Corporation Orilling Appalachian Corporation	Not less than 1/8 Not less than 1/8	330/491 330/511
	Eva Jean Hoover	Drilling Appalachian Corporation	Not less than 1/8	330/542
	Glenda Gregory	Drilling Appalachian Corporation	Not less than 1/8	330/546
	Drilling Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	Assignment Corrective Assignment	391/416 421/130
	Drilling Appalachian Corporation Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
	Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
	Josephine Spencer and David Spencer, h/w	Drilling Appalachian Corporation	Not less than 1/8	330/233
	Walter Seckman and Eva Seckman, h/w	Orilling Appalachian Corporation	Not less than 1/B	330/430
	Michael Fisher	Orilling Appalachian Corporation	Not less than 1/8	330/503
	Joe Seckman	Orilling Appalachian Corporation	Not less than 1/8 Not less than 1/8	330/507 330/550
	Antonia Underwood Camella Ash	Drilling Appalachian Corporation Drilling Appalachian Corporation	Not less than 1/8 Not less than 1/8	330/575
	All Robinson	Drilling Appalachian Corporation	Not less than 1/8	330/579
	Donna Wolther	Drilling Appalachian Corporation	Not less than 1/B	330/742

	Jennifer Sexson	Drilling Appalachian Corporation	Not less than 1/8	2201000
	Drilling Appalachian Corporation			330/657
		Antero Resources Appalachian Corporation	Assignment	401/499
	Drilling Appalachian Corporation	Antero Resources Corporation	Corrective Assignment	421/138
	Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	422/517
	Noble Energy, Inc.	CNX Gas Company LLC		
	1350 2131 277 1132	City das company acc	Assignment	550/273
	Kimberly Dawn Jackson	Drilling Appalachlan Corporation	Not less than 1/8	395/795
	Scott Seckman	Drilling Appalachian Corporation	Not less than 1/8	
	James F. Bonnell and Jacqueline S. Bonnell, h/w			395/797
		Drilling Appalachian Corporation	Not less than 1/8	409/253
	Drilling Appalachian Corporation	Noble Energy, Inc.	Assignment	452/641
	Noble Energy, Inc.	CNX Gas Company LLC	Assignment	542/147
	MARKET I			
	Keith E. Rheinhardt	Noble Energy, Inc.	Not less than 1/8	DB 449/525
	Gary A. Rheinhardt, Jr.	Noble Energy, Inc.	Not less than 1/8	DB 449/52
	Charles D. Rheinhardt and Denise M. Rheinhardt, h/w	Noble Energy, Inc.	Not less than 1/8	DB 449/53
	Randall Rheinhardt, a single man	Noble Energy, Inc.	Not less than 1/8	DB 453/53
	David Rheinhardt, a single man	Noble Energy, Inc.	Not less than 1/8	DB 453/63
	Iris Rheinhardt, a single woman			
		Noble Energy, Inc.	Not less than 1/8	DB 458/64.
	Tami Dawn Rheinhardt	Noble Energy, Inc.	Not less than 1/8	DB 465/276
	Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
Map & Title Opinion	Grantor Large ste	Granton Lorenz etc		
rcel , QL5 #	Grantor, Lessor, etc	Grantee, Lessee, etc	Powering	Book/Page
	Wm. Blaine Underwood and Leura J. Underwood, h/w, Donald		Royalty	BOOKFrage
8-9 281687000	Underwood, Hugh Underwood and Pearline Underwood, h/w, and D.L.	Enultable Gas Company	Not less than 1/8	186/86
	Haught and Susan O. Haught, h/w	adottant ass assupatif	Hot has than 270	100,00
	Equitable Gas Company	Equitrans, Inc.	Assignment	274/471
	Equitrans, Inc.	Equitable Gas Company LLC	Merger	433/738
	Equitable Resources, Inc.	Equitable Gas Company LLC	Merger	433/755
	Equitable Gas Company LLC and EQT Corporation	Equitrans, LP	Assignment	433/777
	Equitrans, LP	EQT Production Company	Sublease	396/640
	Equitrans, LP	EQT Production Company	Sublease	420/10
	EQT Production Company	CNX Gas Company LLC and Noble Energy, Inc.	Farmout	411/252
	EQT Production Company	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	449/480
	Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
Van & Title Opinion	Noble Energy, Inc.	CNX Gas Company LLC		
	Noble Energy, Inc.		Assignment	550/273
CLS #	Noble Energy, Inc. Grantor, Lessor, etc.	CNX Gas Company LLC Grantee, Lessee, etc	Assignment Royalty	SSQ/273 Book/Page
CLS #	Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
roel QLS #	Noble Energy, Inc. Grantor, Lessor, etc	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith	Assignment Royalty Not less than 1/8	550/273 Book/Page 158/214
roel QLS #	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain	Assignment Royalty Not less than 1/8 Assignment	Book/Page 158/214 158/235
CLS #	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope	Assignment Royalty Not less than 1/8 Assignment Assignment	Book/Page 158/214 158/235 158/435
CLS #	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain	Assignment Royalty Not less than 1/8 Assignment	Book/Page 158/214 158/235
CLS #	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope	Royalty Not less than 1/8 Assignment Assignment Assignment	800k/Page 158/214 158/235 158/439 159/377
CLS #	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglas A. Williams	Royalty Not less than 1/8 Assignment Assignment Assignment Assignment	800k/Page 158/214 158/235 158/439 159/377 158/459
CLS #	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Duncan Sartain Duncan Sartain Duncan Sartain	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley	Royalty Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment	800k/Pag/ 158/214 158/235 158/339 159/377 158/459 158/459
roel QLS #	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Douglas Sartain Douglas A: Williams Douglas A: Williams	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley Walter F. Tucker	Royalty Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment	800k/Page 158/214 158/235 158/438 159/377 158/459 158/459 158/459
CLS #	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Duncan Sartain Duncan Sartain Duncan Sartain	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley	Royalty Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment	800k/Pag/ 158/214 158/235 158/339 159/377 158/459 158/459
OLS #	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Douglas Sartain Douglas A: Williams Douglas A: Williams	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley Walter F. Tucker	Royalty Not less than 1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment	800k/Page 158/214 158/235 158/439 159/377 158/459 158/459 158/459
Cel OLS II	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Douglas A. Williams Douglas A. Williams Douglas A. Williams Douglas A. Williams	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglax A. Williams W. Truest Smith, Frank Rose and George S. Finley Walter F. Tucker Joe H. Foy Archie Been	Royalty Not less than 1/8 Assignment	800k/P88 158/214 158/215 158/439 159/377 158/459 158/460 158/479
CLS #	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Duncan Sartain Douglas A. Williams	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglas A. Williams W. Trucet Smith, Frank Rose and George S. Finley Walter F. Tucker Joe H. Foy Archie Been R.C. Crabb	Royalty Not less than 1/8 Assignment	550/273 Book/Pag. 158/214 158/235 158/459 158/459 158/478 158/479 158/479
CLS #	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Douglas A. Williams	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley Walter F. Tucker Joe H. Foy Archie Been R.C. Crabb Marvin Hanz	Royalty Not less than 1/8 Assignment	550/273 Book/Page 158/214 158/235 158/439 158/429 158/429 158/479 159/326 158/479
OLS #	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Duncan Sartain Douglas A. Williams	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglas A. Williams W. Trucet Smith, Frank Rose and George S. Finley Walter F. Tucker Joe H. Foy Archie Been R.C. Crabb	Royalty Not less than 1/8 Assignment	550/273 Book/Pag 158/214 158/235 158/439 158/459 158/450 158/478 158/479 158/479
Cel OLS II	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Douglas A. Williams Touglas A. Williams W. Truett Smith, Frank Rose and George S. Finley	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglax A. Williams W. Truest Smith, Frank Rose and George S. Finley Watter F, Tucker Joe H, Foy Archie Been R.C. Crabb Marvin Hanz W.E. Pope	Royalty Not less than 1/8 Assignment	800k/P88 158/214 158/235 158/439 158/439 158/459 158/459 158/479 159/326 158/479 158/577 216/304
CLS #	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Douglas A. Williams Touglas A. Williams Douglas A. Williams Touglas A. Wi	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglas A. Williams W. Trucet Smith, Frank Rose and George S. Finley Walter F. Tucker Joe H. Foy Archie Been R.C. Crabb Marvin Hanz W.E. Pope W.E. Pope W.E. Pope	Royalty Not less than 1/8 Assignment	550/273 Book/Pag: 158/214 158/235 158/439 158/459 158/459 158/460 158/478 158/478 158/577 216/304
roel QLS #	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley W.F. Tucker	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley Walter F. Tucker Joe H. Foy Archie Been R.C. Crabb Marvin Hanz W.E. Pope W.E. Pope W.E. Pope W.E. Pope W.E. Pope	Royalty Not less than 1/8 Assignment	550/273 Book/Peg/ 158/214 158/235 158/439 158/459 158/479 158/479 158/479 158/326 158/577 216/304 216/307 163/216
roel QLS #	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley W. Truett Smith, Frank Rose and George S. Finley W. Trucker Joe H. Foy	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglas A. Williams W. Trucet Smith, Frank Rose and George S. Finley Walter F. Tucker Joe H. Foy Archie Been R.C. Crabb Marvin Hanz W.E. Pope W.E. Pope W.E. Pope	Royalty Not less than 1/8 Assignment	550/273 Book/Pag 158/214 158/235 158/439 158/429 158/429 158/479 159/326 158/479 159/326 158/577 216/307 163/216 216/307
roel QLS #	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley W.F. Tucker	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley Walter F. Tucker Joe H. Foy Archie Been R.C. Crabb Marvin Hanz W.E. Pope W.E. Pope W.E. Pope W.E. Pope W.E. Pope	Royalty Not less than 1/8 Assignment	550/273 Book/Peg/ 158/214 158/235 158/439 158/459 158/479 158/479 158/479 158/326 158/577 216/304 216/307 163/216
OLS #	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley W. Truett Smith, Frank Rose and George S. Finley W. Trucker Joe H. Foy	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley Walter F, Tucker Joe H, Foy Archie Been R.C. Crabb Marvin Hanz W.E. Pope W.E. Pope W.E. Pope W.E. Pope W.E. Pope W.E. Pope	Royalty Not less than 1/8 Assignment	550/273 Book/Pogg 158/214 158/235 158/439 158/459 158/460 158/479 159/266 158/377 216/304 216/307 163/216 216/303
Cel OLS II	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Douglas A. Williams Touglas A. Williams Douglas A. Williams Douglas A. Williams Douglas A. Williams Douglas A. Williams Truct Smith, Frank Rose and George S. Finley W. Truct Smith, Frank Rose and George S. Finley W. F. Tucker Joe H. Foy Archie Bean	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglax A. Williams W. Truckt Smith, Frank Rose and George S. Finley Walter F. Trucker Joe H. Foy Archie Been R.C. Crabb Marvin Hanz W.E. Pope W.E. Pope W.E. Pope W.E. Pope W.E. Pope U.E. Pope	Royalty Not less than 1/8 Assignment	550/273 Book/Pag/ 158/214 158/235 158/459 158/459 158/450 158/478 158/460 158/577 216/304 216/307
OLS #	Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Duncan Sartain Douglas A. Williams	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglax A. Williams W. Truckt Smith, Frank Rose and George S. Finley Walter F. Trucker Joe H. Foy Archie Been R.C. Crabb Marvin Hanz W.E. Pope W.E. Pope W.E. Pope W.E. Pope W.E. Pope W.E. Pope U.E. Pope U.	Royalty Not less than 1/8 Assignment	550/273 Book/Page 158/214 158/235 158/439 158/459 158/459 158/460 158/479 158/479 158/367 158/377 216/304 216/307 311/655
roel QLS #	Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Duncan Sartain Douglas A. Williams	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley Walter F. Tucker Joe H. Foy Archie Been R.C. Crabb Marvin Hanz W.E. Pope Judith A. Pope, as Executrix e Drilling Appalachian Corporation Southwest Savings and Loan Association	Royalty Not less than 1/8 Assignment	550/273 Book/Peg/ 158/214 158/235 158/439 158/429 158/479 158/479 158/479 158/377 216/304 216/307 216/303 216/306 311/655 311/655
roel QLS #	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley W. Truett Smith, Frank Rose and George S. Finle	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglas A. Williams W. Truest Smith, Frank Rose and George S. Finley Walter F. Tucker Joe H. Foy Archie Been R.C. Crabb Marvin Hanz W.E. Pope S.E. Pope W.E. Pope W.E. Pope W.E. Pope S.E. Sope W.E. Pope W.E. Pope W.E. Pope W.E. Pope W.E. Pope S.E. Sope S.E. Sope W.E. Pope W.E. Pope W.E. Pope W.E. Pope S.E. Sope S.E	Royalty Not less than 1/8 Assignment	800k/Pagg 158/214 158/235 158/439 158/429 158/429 158/479 158/479 158/479 158/377 216/304 216/307 311/655 11/655
roel QLS #	Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Duncan Sartain Douglas A. Williams	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley Walter F. Tucker Joe H. Foy Archie Been R.C. Crabb Marvin Hanz W.E. Pope Judith A. Pope, as Executrix e Drilling Appalachian Corporation Southwest Savings and Loan Association	Royalty Not less than 1/8 Assignment	\$50/273 \$\frac{800k/Pag}{158/214}\$ \$158/439 \$159/377 \$158/459 \$158/479 \$158/479 \$158/479 \$158/479 \$158/479 \$158/377 \$216/304 \$216/307 \$216/306 \$311/655 \$311/655
roel OLS #	Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Duncan Sartain Douglas A. Williams	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglax A. Williams W. Truckt Smith, Frank Rose and George S. Finley Walter F. Trucker Joe H. Foy Archie Been R.C. Crabb Marvin Hanz W.E. Pope W.E. Pope W.E. Pope W.E. Pope W.E. Pope W.E. Pope U.E. Pope J. Pope W.E. Pope J. Pope W.E. Pope J. P	Royalty Not less than 1/8 Assignment	\$50/273 \$800k/Pag 158/214 158/235 158/439 158/429 158/479 158/479 158/479 158/367 216/307 216/306 311/655 311/655 176/264 Unrecorded 315/466
roel QLS #	Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Duncan Sartain Douglas A. Williams	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley Walter F. Tucker Joe H. Foy Archie Been R.C. Crabb Marvin Hanz W.E. Pope Judith A. Pope, as Executrix e Drilling Appalachian Corporation Southwest Savings and Loan Association Hugh Spencer Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation	Royalty Not less than 1/8 Assignment	800k/Pagg 158/214 158/235 158/439 159/377 158/459 158/479 158/479 158/479 158/377 216/304 216/307 16/303 216/306 311/655 176/264 Unrecorded
roel QLS #	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley W. Truett Smith, Frank Rose and George	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley Walter F. Tucker Joe H. Foy Archie Been R.C. Crabb Marvin Hanz W.E. Pope G.E. Pope W.E. Pope W.E. Pope G.E. Pope G.E	Royalty Not less than 1/8 Assignment	800k/Pagg 158/214 158/235 158/439 159/377 158/459 158/479 159/326 158/577 216/304 216/303 216/306 311/655 176/264 Unrecorded 315/466
CLS #	Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Duncan Sartain Douglas A. Williams	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley Walter F. Tucker Joe H. Foy Archie Been R.C. Crabb Marvin Hanz W.E. Pope Judith A. Pope, as Executrix e Drilling Appalachian Corporation Southwest Savings and Loan Association Hugh Spencer Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation	Royalty Not less than 1/8 Assignment	Book/Page 158/214 158/235 158/439 159/377 158/459 158/479 158/479 159/326 158/577 216/304 216/307 311/655 311/655 176/264 Unrecorded 313/248
OLS #	Noble Energy, Inc. Grantor, Lessor, etc Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley W. Truett Smith, Frank Rose and George	CNX Gas Company LLC Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley Walter F. Tucker Joe H. Foy Archie Been R.C. Crabb Marvin Hanz W.E. Pope G.E. Pope W.E. Pope W.E. Pope G.E. Pope G.E	Royalty Not less than 1/8 Assignment	800k/Peage 158/214 158/235 158/439 159/377 158/459 158/479 159/266 158/479 159/266 158/577 216/304 216/303 216/306 311/655 176/264 Unrecorded 315/466 313/463 315/466
	Mary Keys and Haskell Keys, h/w, and John L. Seckman J.M.L. Smith Duncan Sartain Duncan Sartain Duncan Sartain Duncan Sartain Douglas A. Williams W. Truett Smith, Frank Rose and George S. Finley W. F. Tucker Joe H. Edy Archie Bean W. F. Pope Estate of W.E. Pope, acting through Independent Executrix Judith A. Pop R.C. Crabb Southwest Savings and Loan Association Spencer Enterprises, by Hugh Spencer, owner Mary Hanz Drilling Appalachian Corporation Drilling Appalachian Corporation	Grantee, Lessee, etc J.M.L. Smith Duncan Sartain W.E. Pope W.E. Pope Douglax A. Williams W. Trucktr Joe H. Foy Archie Been R.C. Crabb Marvin Hanz W.E. Pope Judith A. Pope, as Executrix e Drilling Appalachian Corporation Southwest Savings and Loan Association Hugh Spencer Drilling Appalachian Corporation Drilling Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation	Royalty Not less than 1/8 Assignment	800k/Page 158/214 158/235 158/439 159/377 158/459 158/460 158/478 158/478 158/377 216/307 163/216 216/307 311/655 311/655 311/655 313/436 313/436 313/436



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 57th 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 erikawhetstone@consolenergy.com or 724-485-4035.

Sincerely,

Erika Whetstone

CNX Gas Company LLC

Office of Oil and Gas

NOV 28 2017

WV Department of Environmental Protection

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

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Fobelow for the tract of land as follows: State: West Virginia Tyler UTM NAD 83 Easting: Northing: 4363422.065 Public Road Access: Quadrangle: Shirley Generally used farm name: Watershed: McElroy Creek Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form a prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the opera it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this a information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii)	_
Notice has been given: Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Fobelow for the tract of land as follows: State: West Virginia	_
Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Fobelow for the tract of land as follows: State: West Virginia UTM NAD 83 Easting: Northing:	_
below for the tract of land as follows: State: West Virginia County: Tyler District: McEtroy District: McEtroy Watershed: McEtroy Watershed: McEtroy Public Road Access: County Route 58 Seckman Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form a prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the opera it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this ariformation required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuar Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of this article have been completed by the applicant. Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED *PLEASE CHECK ALL THAT APPLY 2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NO RECEIVED NOT REQUIRED *PLEASE CHECK ALL THAT APPLY **PLEASE CHECK ALL THAT APPLY 1. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NO RECEIVED NOT REQUIRED **PLEASE CHECK ALL THAT APPLY **PLEASE	ms listed
State: West Virginia County: Tyler	
County: 1yler Nortning: 4363422.065 District: McElroy	
Quadrangle: Shirley McElroy Creek Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form a prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operation in the sprovided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this a information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuar Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of this article have been completed by the applicant. Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED *PLEASE CHECK ALL THAT APPLY 2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED **RECEIVED NOTICE OF SEISMIC ACTIVITY OF SEISMIC ACTIVITY WAS CONDUCTED **RECEIVED NOTICE OF SEISMIC NOTICE NOTIC	
Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form a prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the opera it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this a information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuar Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of this article have been completed by the applicant. Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED NOT REQUIRED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED RECEIVED RECEIVED	
Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form a prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the opera it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this a information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuan Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of this article have been completed by the applicant. Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED NOT REQUIRED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NO NOT REQUIRED **RECEIVED** **RECE	
prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the opera it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this a information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuar Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of so of this article have been completed by the applicant. Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED *PLEASE CHECK ALL THAT APPLY 2. NOTICE OF ENTRY FOR PLAT SURVEY or NOT NOTICE N	
that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED RECEIVED RECEIVED	rticle, the as a result the notice t to West
SEISMIC ACTIVITY WAS CONDUCTED NOT REQU 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED RECEIVED	USE
■ 3. NOTICE OF INTENT TO DRILL OF □ NOTICE NOT REQUIRED BECAUSE □ DECEMBE	1
NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or NOT REQU	
☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
■ 4. NOTICE OF PLANNED OPERATION □ RECEIVED	· .
■ 5. PUBLIC NOTICE □ RECEIVED	
■ 6. NOTICE OF APPLICATION □ RECEIVED	,

Required Attachments:

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

NOV 28 2017

WW-6AC (1/12)

Certification	of Notice is	hereby given:
---------------	--------------	---------------

THEREFORE, I Raymond Hoon And Hoo have local 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

COMMONWEALTABYSEANNSYLVANIA

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

My Commission Expires 3/11/19

Notary Public

Oil and Gas Privacy Notice:

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

NOV 28 2017
NOV 28 2017
NOV 28 2017
NOV Department of the Environmental Protection

API NO. 47-95 - 02487
OPERATOR WELL NO. SHR31AHSM
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/-21-17 Date Permit Application Filed: 11-27-17 Notice of: ✓ PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ✓ REGISTERED ☐ METHOD OF DELIVERY THAT REQUIRES A PERSONAL RECEIPT OR SIGNATURE CONFIRMATION SERVICE MAIL 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. Address: AND/OR WATER PURVEYOR(s) Name: See attached. Name: ______Address: _____ Address: **OPERATOR OF ANY NATURAL GAS STORAGE FIELD** SURFACE OWNER(s) (Impoundments or Pits) Name: EQT Corporation *Please attach additional forms if necessary Name: _____ Address: W Department of Environmental Protection

RECEIVED
Office of Oil and Gas

APINO. 47- 95 - 024 87 OPERATOR WELL NO. SHR31AHSM Well Pad Name: SHR31HSM

NOV 2 8 2017

Notice is hereby given:

Notice is hereby given:

WV Department of
Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given than the designion 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. (c) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

API NO. 47-95 - 02487
OPERATOR WELL NO. SHR31AHSM

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 Benefic as the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450 NOV 2 8 2017

WV Department of Environmental Protection

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

API NO. 47-95 - 00248 OPERATOR WELL NO. SHR31AHSM

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

Permit Denial or Condition

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

- (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 crosion 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 28 2017 WV Department of Environmental Protection

API NO. 47- 95 - 02487 OPERATOR WELL NO. SHR31AHSM Well Pad Name: SHR31

Notice is hereby given by:

Well Operator: CNX Gas Company, LLC

Telephone: 724-485-3540

Email: RaymondHoon@ConsolEnergy.com

Address: 1000 Cansal 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 deprivacvofficer@wv.gov.

COMMONWEALTH OF PENNSYLVANIA

MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

NOTARIAL SEAL Sara M. Micoli, Notary Public Cecil Twp., Washington County My Commission Expires March 11, 2019 Subscribed and sworn before me this 21 day of Nov. 2017.

Notary Publi

My Commission Expires 3/11/19

RECEIVED Office of Oil and Gas

NOV 28 2017

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 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

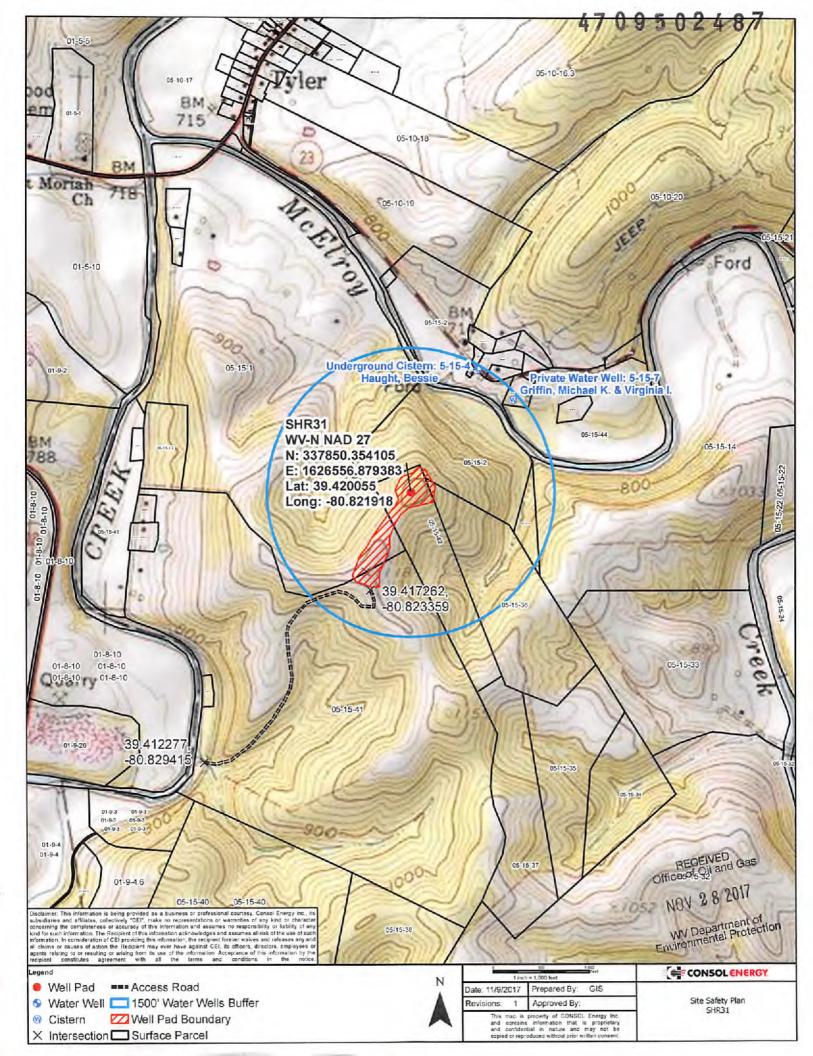
Surface Owner of Water Well And/Or Water Purveyor(s):

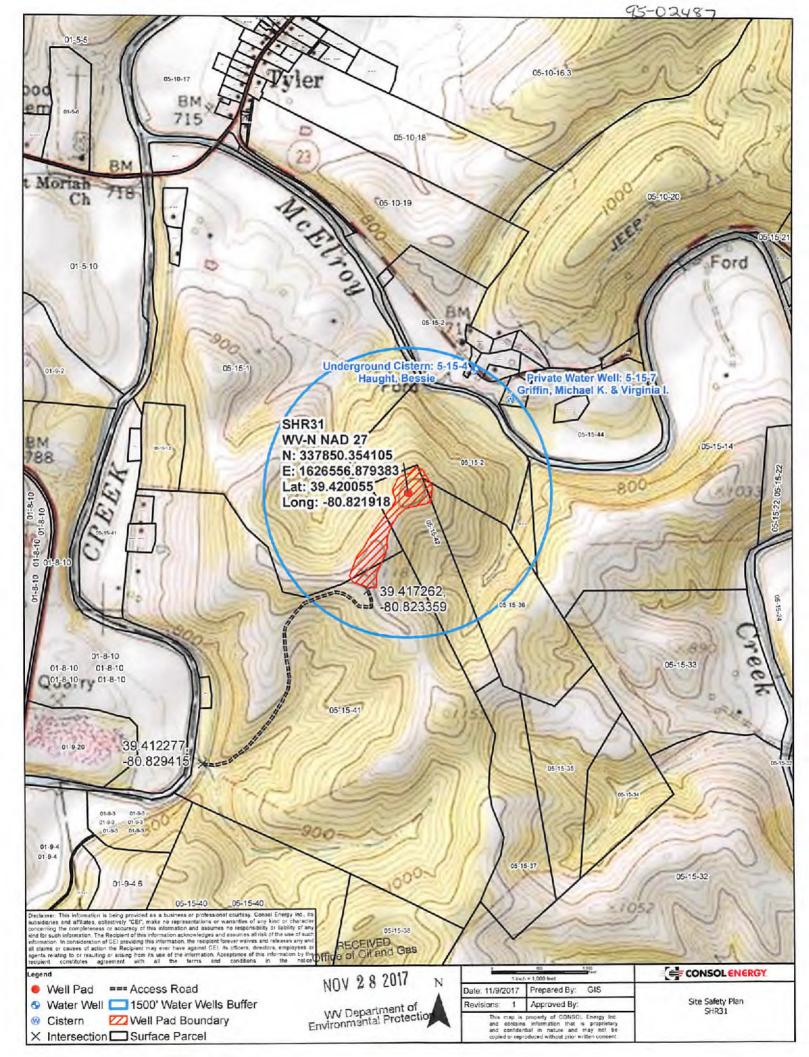
Bessie Haught 771 McElroy Creek Rd, Alma, WV 26320

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 Sterre 45 Ster face





95-02487

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

Notice		Requirement	: Notice shall be prov	ided at	least SEVEN (7) da	ys but no more than	n FORTY-FIVE (45) days prior to	
		: 10/11/17	Date of Plan	nned E	ntry: 10/19/17			
Deliv	ery meth	od pursuant	t to West Virginia C	ode § 2	2-6A-10a			
П			1		A CONTROL OF DEL			
	PERSON		REGISTERED	Ш	METHOD OF DEI			
	SERVICE	3	MAIL		RECEIPT OR SIGN	NATURE CONFIR	MATION	
on to but n benea owner and S Secre- enable	the surface o more the ath such the or of mine dediment (tetary, which de the surf	ce tract to cor an forty-five fact that has f rals underlying Control Manuch statement to ace owner to	days prior to such enfiled a declaration puring such tract in the coual and the statutes an shall include contact obtain copies from the	s requir try to: (suant to ounty ta: od rules informa	ed pursuant to this a 1) The surface owne o section thirty-six, a x records. The notic related to oil and ga ation, including the a	rticle. Such notice s r of such tract; (2) t rticle six, chapter to e shall include a sta s exploration and p	shall provide notice of planned entry shall be provided at least seven days to any owner or lessee of coal seams wenty-two of this code; and (3) any attement that copies of the state Erosion roduction may be obtained from the age on the Secretary's web site, to	
		by provided					0000	
		E OWNER(s)			LOWNER OR LE		
	e: See attac				Name: Ser	altached		
Addr	ess:				Address:			
Nam	e:					7.50 (1		
Addr	ess:			-35		ERAL OWNER(s)		
				_	Name: Se	attached		
Nam	e:			-	Address:			
Adar	ess:			7	*please attac	h additional forms if ne	cessary	
Pursi	ant to We survey o	eby given: est Virginia C n the tract of west Virginia	Code § 22-6A-10(a), r land as follows:	notice is	Approx. Latit	ude & Longitude:		
Cour		Tyler			Public Road	Access:	County Route 58	
Distr		McElroy			Watershed: Generally used farm name:		McElroy Creek	
Quac	lrangle:	Shirley		_	_ Generally use	ed farm name:	Seckman	
may Char obtai	be obtaine leston, W ned from ce is her	ed from the S V 25304 (30 the Secretary eby given b	ecretary, at the WV I 4-926-0450). Copies by visiting www.der	Departm of such	ent of Environmenta n documents or addit v/oil-and-gas/pages/	al Protection headquional information re default.aspx.	il and gas exploration and production uarters, located at 601 57 th Street, SE, elated to horizontal drilling may be	
Well	Operator.	CNX Gas Com	pany, LLC		Address:	1000 Consol Energy Dri	ive	
4.								
4.	hone:	724-485-3540			Facsimile:	Canonsburg, PA 15317		

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 of the appropriately secure your personal information. If you have any questions about our use or your personal information, please-contacted Gas DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

SHR31AHS

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 A NO LONGER SUFFACE UL NER

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

Becannray LLC 5042 Tyler Highway, Sisterville, WV 26175

Kathy A. Roberts No Lower Surface OWNER 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 RECEIVED Office of Oil and Gas

NOV 28 2017

WV Department of Environmental Protection Page 1 of 4 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 Office of Oil and Gas

NOV 2 8 2017

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

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 RECEIVED
Office of Oil and Gas

NOV 28 2017

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

> RECEIVED Office of Oil and Gas

NOV 28 2017

95-02487

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.

Notice Time Date of Notice		be provided at least TEN (10) days prior Date Permit Application Filed:	
Delivery me	thod pursuant to West Virg	inia Code § 22-6A-16(b)	
☐ HAND	■ CERTIFIED	MAII.	
DELIVI		ECEIPT REQUESTED	
receipt request drilling a hor of this subsect subsection m	sted or hand delivery, give the izontal well: <i>Provided</i> , That tion as of the date the notice ay be waived in writing by the	e surface owner notice of its intent to en notice given pursuant to subsection (a) was provided to the surface owner: <i>Pro</i> the surface owner. The notice, if required	application, an operator shall, by certified mail return inter upon the surface owner's land for the purpose of section ten of this article satisfies the requirements ovided, however, That the notice requirements of this l, shall include the name, address, telephone number, the operator's authorized representative.
	reby provided to the SUI	RFACE OWNER(s):	
Name: See atta	ched	Name:	
Address:		Address:	
State: County:	West Virginia Tyler	UIM NAD 83	Easting: 515345.211 Northing: 4363422.065
District:	McElroy	Public Road Acces	
Quadrangle:	Shirley	Generally used far	n name: Seckman
Watershed:	McElroy Creek		
Pursuant to 'facsimile nur related to hor	nber and electronic mail ad- rizontal drilling may be obta	dress of the operator and the operator' ined from the Secretary, at the WV De	name, address, telephone number, and if available, s authorized representative. Additional information partment of Environmental Protection headquarters, ng www.dep.wv.gov/oil-and-gas/pages/default.aspx.
	reby given by:	174 1744	and a second
	r: CNX Gas Company, LLC	Authorized Repr	
Address:	1000 Consol Energy Drive	Address:	1000 Consol Energy Drive
Canonsburg, PA		Canonsburg, PA 153	- 17 34 84 4
Telephone:	724-485-3540	Telephone:	724-485-3540
Email: Facsimile:	RaymondHoon@ConsolEnergy.	Email: Facsimile:	RaymondHoon@ConsolEnergy.com
Oil and C-	Deirear Notice		

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, plans to the DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

NOV 2 8 2017

WW6A Notice of Intent to Drill - Attachment

95-02487 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

> RECEIVED Office of Oil and Gas

NOV 28 2017

Environmental Protection

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

	Requirement: notice shall be provided ee: //-21-17 Date Permit	no later than the filing Application Filed:		application.		
Delivery met	hod pursuant to West Virginia Code	§ 22-6A-16(c)				
■ CERTI	FIED MAIL	HAND				
	RN RECEIPT REQUESTED	DELIVERY				
return receipt the planned of required to be drilling of a l damages to the	requested or hand delivery, give the su operation. The notice required by this provided by subsection (b), section ter- norizontal well; and (3) A proposed su- e surface affected by oil and gas operat	rface owner whose land subsection shall inclu- ted this article to a surface use and compen- tions to the extent the de-	I will be used for de: (1) A copy ace owner whost sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time		
	eby provided to the SURFACE OWN s listed in the records of the sheriff at the	e time of notice):				
		Addres	s:			
operation on State:	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpos West Virginia		I well on the tra Easting:			
County:	Tyler		Northing:	4363422.065		
District:	McElroy	Public Road		County Route 58		
	uadrangle: Shirley Generally used farm name: Seckman					
Watershed:	McElroy Creek					
Pursuant to W to be provide horizontal we surface affect information r	ed by W. Va. Code § 22-6A-10(b) to a cell; and (3) A proposed surface use and ced by oil and gas operations to the extended to horizontal drilling may be obtained at 601 57th Street, SE, Characteristics.	a surface owner whose compensation agreement tent the damages are contained from the Secre	e land will be un nt containing ar ompensable und tary, at the WV	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting		

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.

**NOV 9 Comparison of Comp

95-02487

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

RECEIVED Office of Oil and Gas

NOV 28 2017



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 57th Street, SE Charleston, WV 25304

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

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,

Gary K. Clayton P.E. Regional Maintenance Engineer

Dary K. Clayton

Central Office Oil &Gas Coordinator

RECEIVED Office of Oil and Gas

NOV 28 2017

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

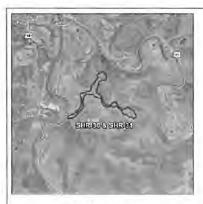
Type: Formaldehyde CAS: 50-00-0

Type: Thiourea CAS: 62-56-6

Type: Acetophenone CAS: 98-86-2

RECEIVED
Office of Oil and Gas

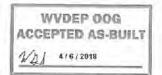
NOV 28 2017



LOCATION MAP

PROPERTY OWNERS

- J. 05-15-41 ALLEN 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 26520
- 3. 05-15-37 ALLEN W SECKMAN ET AL 824 JEFFERSON RUN RD ALMA, WV 26320
- 4. 05-15-35 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 31 WELL PAD, TANK PAD, SHR 30 WELL PAD, AND ACCESS ROAD



NAD 83 - 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°49'18.123" 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



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



LOCATION MAP

SHR 30 WELL PAD API #'S 047-095-02232 047-095-02241 047-095-02233 047-095-02235 047-095-02235 047-095-02236 047-095-02237 047-095-02238 SHR 31 WELL PAD API #'s 047-095-02221 047-095-02217 047-095-02218 047-095-02219

DRAWING NUMBER DRAWING NAME

1 COVER SHEET

2 OVERALL POST MOD AS-BUILT

3-7 FOST MOD AS-BUILT

8 AS-BUILT ROAD PROFILES

ENGINEER CERTIFICATION

Allimoffly MILMARTORY AS

Blue Mountain Inc.

200 CONSOL ENERGY DRIVE CANONISURO, PA 125/7 ASLALIT T COMED SHEET

> POST MODIFICATION SHR 31 WELL PAD, TAI

DE TESTALE

STATE OF

THE STATE OF THE S

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

