



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
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Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Thursday, December 16, 2021
WELL WORK PERMIT
Horizontal 6A / New Drill

CNX GAS COMPANY LLC
1000 CONSOL ENERGY DR
CANONSBURG, PA 15370

Re: Permit approval for SHR37MHSM
47-095-02770

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: SHR37MHSM
Farm Name: CNX GAS COMPANY LLC
U.S. WELL NUMBER: 47-095-02770
Horizontal 6A New Drill
Date Issued: 12/16/2021

PERMIT CONDITIONS

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

CONDITIONS

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

API Number: _____

PERMIT CONDITIONS

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

12/17/2021

WW-6B
(04/15)

API NO. 47-095 -
OPERATOR WELL NO. SHR37MHSM
Well Pad Name: SHR37

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

1) Well Operator: CNX GAS COMPANY LLC 494458046 TYLER Centerville West Union
Operator ID County District Quadrangle

2) Operator's Well Number: SHR37MHSM Well Pad Name: SHR37

3) Farm Name/Surface Owner: CNX Gas Company LLC Public Road Access: Duckworth Ridge Road

4) Elevation, current ground: 828' Elevation, proposed post-construction: 828'

5) Well Type (a) Gas x Oil Underground Storage
Other

(b) If Gas Shallow x Deep
Horizontal x

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target formation is Marcellus Shale @ 6290'-6337' TVD, 47' thick, expected formation pressure ~4000 psi

8) Proposed Total Vertical Depth: 6302' TVD at TD (dependent upon formation dip)

9) Formation at Total Vertical Depth: Marcellus Shale (will not penetrate Onondaga)

10) Proposed Total Measured Depth: 18,776' MD at TD

11) Proposed Horizontal Leg Length: 11,580'

12) Approximate Fresh Water Strata Depths: 92', 126', 144', 148', 150', 176', 220'

13) Method to Determine Fresh Water Depths: Offset water well information

14) Approximate Saltwater Depths: 1748', 2458'

15) Approximate Coal Seam Depths: No mineable coal seams; trace @ 154', 526', 618', 955', 992', 1044'

16) Approximate Depth to Possible Void (coal mine, karst, other): None anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No x

(a) If Yes, provide Mine Info: Name: Depth: Seam: Owner:

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18) CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	L/S	<94.0	129	100	96 / CTS
Fresh Water	13.375	New	J-55	54.5	370	370	278 CTC
Coal	13.375	New	J-55	54.5	370	370	278 / CTS
Intermediate	9.625	New	J-55	36	5380	5380	1,725 / CTS
Production	5.5	New	P-110	20	18,776	18,776	3,754 / TOC @ 2,100
Tubing	2.375	New	J-55	4.7	Above assumes RF = 29'	TBD	N/A
Liners	N/A						

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TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	30	0.375	N/A	N/A	Type 1	1.18
Fresh Water	13.375	17.5	0.380	2,730	<500	Class A	1.19
Coal	13.375	17.5	0.380	2,730	<500	Class A	1.19
Intermediate	9.625	12.25	0.352	3,520	<2,815	Class A	1.19
Production	5.5	8.75 x 8.5	0.361	14,340	~10,000 during frac	Class A or H	1.10
Tubing	2.375	N/A	0.190	7,700	N/A	N/A	N/A
Liners	N/A						

PACKERS

Kind:	Mechanical			
Sizes:	9.625"			
Depths Set:	2600'			

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

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 8.5

22) Area to be disturbed for well pad only, less access road (acres): 8

23) Describe centralizer placement for each casing string:

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

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

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Date: 2021.11.09 11:28:44 -05'00'

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

25) Proposed borehole conditioning procedures:

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

*Note: Attach additional sheets as needed.

SHR37 Cement Additives

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

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Ground Elevation		1273.08		SHR37M HSM LP (Lat/Long)		301644.5 N, 1621601.98E (NAD27)					
Azim		161°									
Drilling Well Plan											
SHR37M HSM-HS (Marcellus HZ)											
Macellus Shale Horizontal											
Tyler County, WV											
Depths from RKB											
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	MD	TVD	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS	
	36"	28"	Conductor	100	100	AR	To Surface	N/A	Ensure the hole is clean at TD.	Stabilize surface Mineral Conductor casing = 0.375" wall thickness.	
			DFGW	249	249						
	17.5"	13-3/8" 54.5# J-55 DTC	Freeport Coal	153	183	AR	15.8 pop Class H + 2% DCL, 0.25% Lost Circ 20% Excess Yield = 1.294	Blow Spring on first 2 joint lines every joint joint to 100 feet surface	Seep the hole while drilling through the coal seams and ensure the hole is clean at TD.	Casing to be run 30 - 52' below base of Pittsburgh Coal. Intermediate casing = 0.262" wall thickness burst=2730 psi	
			un-named shale and sand	154	184						
			Coal Casing	370	370						
			Harlem Coal	555	505						
			Bakerstown Coal	647	547						
			Upper Kitaning Coal Seam	984	984						
			Middle Kitaning Coal Seam	1,021	1,021						
			Lower Kitaning Coal Seam	1,073	1,073						
			Little Lime	1,816	1,816						
			Big Lime	1,556	1,556						
			Keener / Big Injun Top	1,736	1,736						
			Frica Formation (Base of Big Injun)	1,876	1,876						
			Weir Sand	2,026	2,026						
		Berea	2,175	2,175							
		Gordon	2,266	2,266							
		Warren Sand	3,166	3,166							
		Benson	4,750	4,750							
		Alvord	4,766	4,966							
		Int. Casing	5,378	5,000							
	8.75" Vertical		Cathoque Shale	6,598	5,380	AR					
			Middlesax	7,364	6,146						
			West River	7,405	6,187						
			Burket Shale	7,475	6,257						
	8.5" Curve	5-1/2" 23# P-110	Tully Limestone	6,293 TVD		12.5ppg 908M	15.8ppg Class A 25 PP-0 System +2.6% Cement reducer, 0.7% Fluid Loss additive, 0.45% high tempo reducer, 0.2% friction reducer	Unbody, bawesing every joint to 100'	Once at TD, circulate at max allowable pump rate for at least 60 bottom up. Once on bottom with casing, circulate a minimum of one hole volume prior to pumping cement.	Production casing = 0.361" wall thickness burst=1640 psi Note Actual cementator volumes may be changed due to hole conditions	
			Hamilton Shale	6,313 TVD			10% Pacmax Yield=1.77				
			Upper Marcellus	6,320 TVD			TDC = 1000 above 6,620' allow				
			Pinehill	6,332 TVD							
			Middle Marcellus	6,344 TVD							
			Cherry Valley	6,358 TVD		12.5ppg 908M					
			Lower Marcellus	6,365 TVD							
	8.5" Lateral		Chondoga Limestone	6,375 TVD							
<p>LP @ +/- 6302 TVD 8.75' / 6.5 Hole - Cemented Long String +/- 11580' ft Lateral TD @ +/- 18776 MD</p> <p>6-1/2" 23# P-110 X-Contrablers</p>											

		Units			
Pad	SHR37				
Well Letter	M HSM				
Ground Elev	1273.08				
Azimuth	161				
Lat Length	15580				
Coordinate System	NAD27				
TVD	6362	Nothing	Nothing	MD	TVR
BHL	212690.43		1619393.21	0.00	NA
KOP	NA		NA	0025	5647
LP	312698.96		1617833.51	7196	6302
BHL	301644.50		1621501.68	18776	6302

SHR37_M2 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 1000' buffer of the SHR37_M2 pad Area of Review (AOR). These wells have been reviewed and are provided in a list that includes API, Operator, Well Name, Well Number, Current Status, Total Depth, and Producing Formation at Total Depth. See the following pages, including (Figures 3 and 4).

The Marcellus Shale of the SHR37 Pad 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 producing wells are either approximately 2000' or 5000' deep. Although there are a significant number of SOG Communication events in the Shirley area, it is highly unlikely that communication will occur with any wells producing from formations shallower than the Benson Sand, found at an approximate TVD of 5000'. This is based on previous experience and study of SOG Communication with Marcellus fracs throughout Ritchie and Doddridge counties. To provide a feel for risk, all wells shallower than 3000' are colored green on Figure 3 and all wells deeper than 3000' are colored red.

The current hypothesis for SOG Communication is that Marcellus frac fluids and pressure intersect and migrate up a nearby fault that acts as a conduit for upward migration and intersection with high permeability reservoirs of the Alexander and Benson. Both of these reservoirs are primarily depleted, allowing an easier pressure migration throughout these formations. Geomechanical data is collected from dipole sonic logs. CNX's nearest sonic data is from the SHR1C well (Figure 1), immediately north of the SHR37 pad. Frac modeling (Figure 2) of the Marcellus in the area does not show significant upward frac growth. In fact, typical frac height would need to be more than double to reach the Alexander, approximately 1000' above the Marcellus Shale. Without faulting acting as a conduit, CNX Geology does not feel that SOG Communication is feasible in the Shirley area.

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

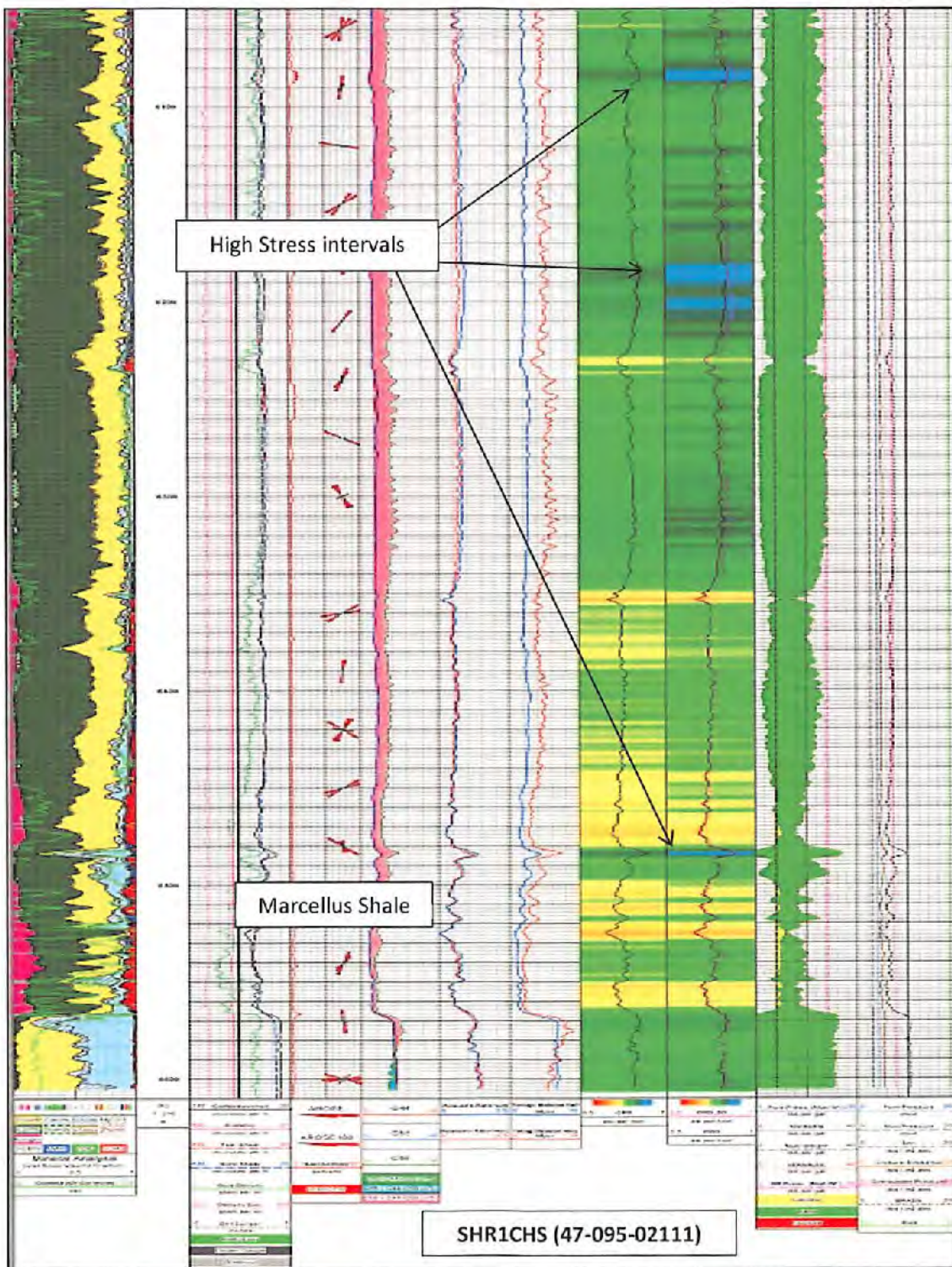


Figure 2. Stratigraphic intervals of high stress should serve as adequate frac barriers for a Marcellus frac. The frac modeling example below is from the Oxford area of western Doddridge County, where the Marcellus and adjacent shales are lithologically similar to the same formations in the Shirley area.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

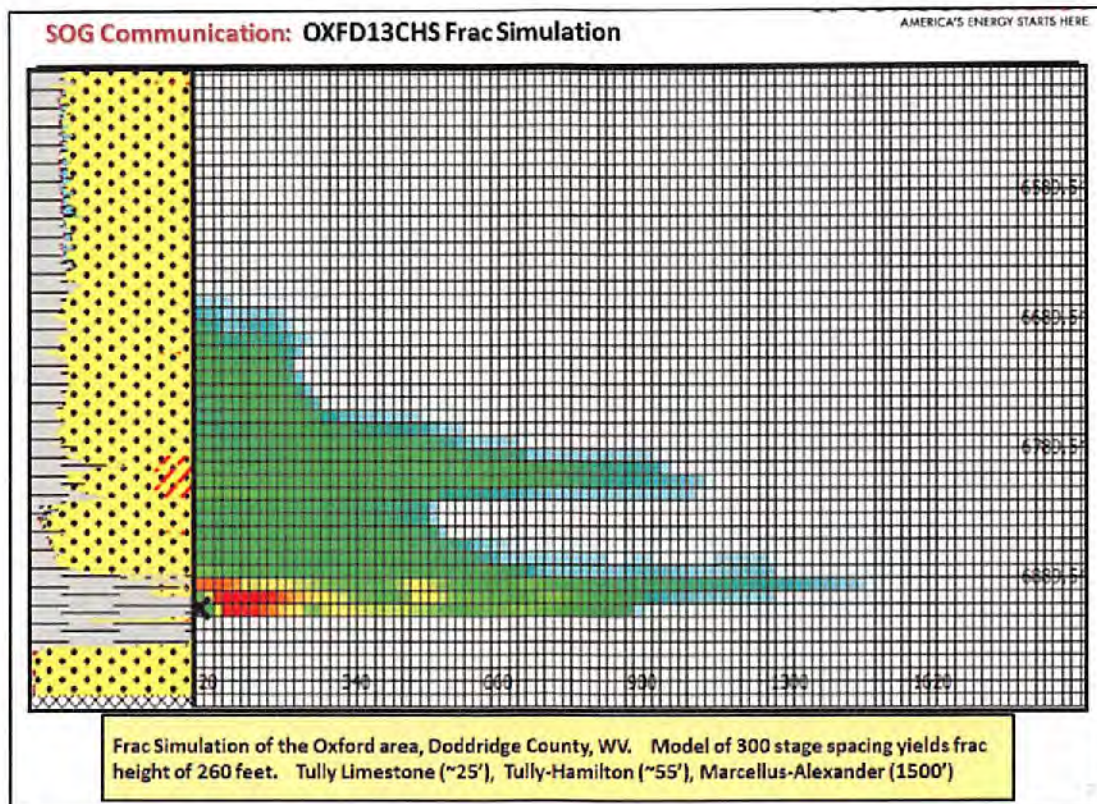


Figure 3. All wells within a 1000' buffer around the laterals have been reviewed and listed below. Wells with TD less than 3000' are colored green and TD' deeper than 3000' colored red.

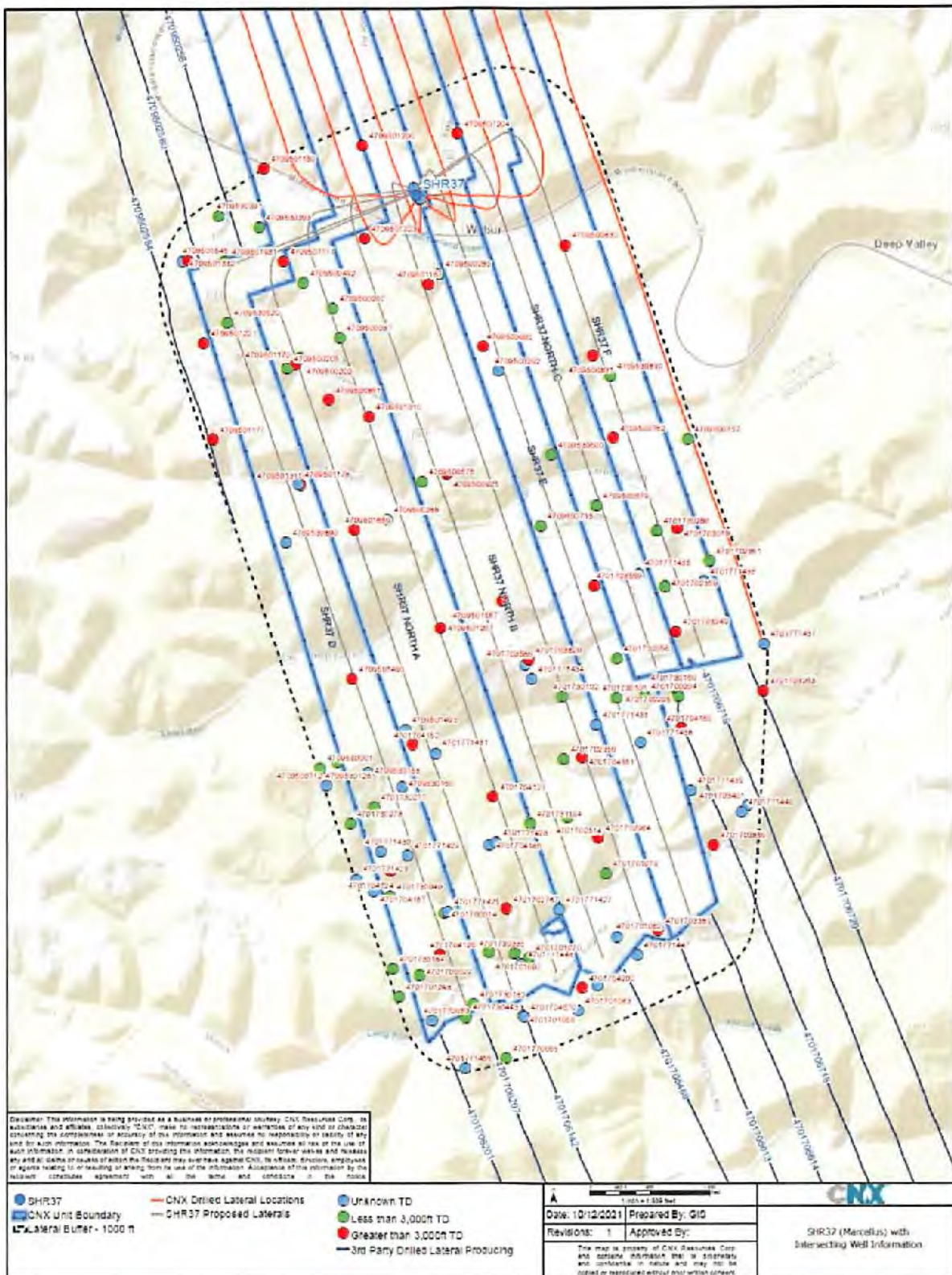


Figure 4. A list of all wells within a 1000' buffer around the laterals have been reviewed and listed below.

Api10	CurrentOperator	WellName	CurrentStatu	TotalDept	FormationAtTC
4701704124	KEY OIL COMPANY	C. DOTSON 2	ACTIVE	5216	BENSON
4701702359	RITCHIE PETROLEUM CORPORATION, INC.	HAMMER, L. G. 1	ACTIVE	2300	WEIR
4701702514	RITCHIE PETROLEUM CORPORATION, INC.	MONTGOMERY, JOHN 1	ACTIVE	2380	WEIR
4701703859	HARPER CROSBY HOLDINGS, LLC	JAMES 1	ACTIVE	5091	BENSON
4701704162	KEY OIL COMPANY	SHEPHERD 2	ACTIVE	5532	BENSON
4701704180	KEY OIL COMPANY	MILLER 1	ACTIVE	5320	BENSON
4701704187	RITCHIE PETROLEUM CORPORATION, INC.	SHEPHERD, CARROLL	ACTIVE	2050	INJUN
4701703253	GREYLOCK CONVENTIONAL	MCCUTCHAN, WILLIAM PAUL J-794	ACTIVE	5576	BENSON
4701704200	MURVIN & MEIER OIL CO.	CARL JAMES 1	ACTIVE	5350	BENSON
4701704161	KEY OIL COMPANY	SHEPHERD 1	ACTIVE	5336	BENSON
4701704123	KEY OIL COMPANY	C. DOTSON 1	ACTIVE	5436	BENSON
4701702361	RITCHIE PETROLEUM CORPORATION, INC.	HAMMER, L. G. 2	ACTIVE	2396	WEIR
4701703559	DIVERSIFIED GAS & OIL PLC	WAGNER 1 182-S	ACTIVE	4951	RILEY
4701703018	GREYLOCK CONVENTIONAL	MCCUTCHAN, WILLIAM P. J-513	ACTIVE	5305	BENSON
4701704126	KEY OIL COMPANY	A. DOTSON 2	ACTIVE	5375	BENSON
4701703249	GREYLOCK CONVENTIONAL	MCCUTCHAN, WILLIAM PAUL J-795	ACTIVE	5363	BENSON
4701702964	GREYLOCK CONVENTIONAL	HAMMER, LORENA J-390	ACTIVE	5267	BENSON
4701703829	DIVERSIFIED GAS & OIL PLC	WAGNER 3-184-S	ACTIVE	5150	BENSON
4709500831	GREYLOCK CONVENTIONAL	PRATT, A. E. - ESTATE J-315	ACTIVE	5512	BENSON
4709501170	GREYLOCK CONVENTIONAL	2515 JK-1282	ACTIVE	5530	BENSON
4709501207	DIVERSIFIED GAS & OIL PLC	WAGNER 2 183-S	ACTIVE	5056	BENSON
4709500925	GREYLOCK CONVENTIONAL	MCCUTHEN, W. PAUL J-515	ACTIVE	5428	BENSON
4709501204	DIVERSIFIED GAS & OIL PLC	HARRIS, DANNY & PATRICIA WVGK-2552	ACTIVE	4919	BENSON
4709500679	RITCHIE PETROLEUM CORPORATION, INC.	BRADFORD, HATTIE 2	ACTIVE	2313	WEIR
4709501221	GREYLOCK CONVENTIONAL	AYERS, VIRGINIA J-1365	ACTIVE	5579	BENSON
4709501171	DIVERSIFIED GAS & OIL PLC	FLINT, MATTIE DOTSON ETAL 2510	ACTIVE	5469	BENSON
4709501311	GREYLOCK OPCO, LLC	L. L. JAMES 4	ACTIVE	5130	BENSON
4709501545	MURVIN & MEIER OIL CO.	JOSEPH HEIRS 1	ACTIVE	5271	ELK
4709500992	GREYLOCK CONVENTIONAL	MCKITRICK, ROY - HEIRS J-864	ACTIVE	5014	BENSON
4709501931	MURVIN & MEIER OIL CO.	JOSEPH HEIRS 2	ACTIVE	2531	WEIR
4709501310	GREYLOCK OPCO, LLC	L. L. JAMES 3	ACTIVE	5490	BENSON
4709500830	GREYLOCK CONVENTIONAL	PRATT, A. E. - ESTATE J-314	ACTIVE	5136	BENSON
4709501200	DIVERSIFIED GAS & OIL PLC	PRATT, ELDON & NANCY JK-1310	ACTIVE	4927	BENSON
4709501669	DIVERSIFIED GAS & OIL PLC	LONG 1	ACTIVE	5175	BENSON
4709501223	DIVERSIFIED GAS & OIL PLC	JENKINS 1 334-S	ACTIVE	4954	BENSON
4709501150	DIVERSIFIED GAS & OIL PLC	GREGG 1	ACTIVE	4795	BENSON
4709500676	RITCHIE PETROLEUM CORPORATION, INC.	BRADFORD, HATTIE 1	ACTIVE	2466	WEIR
4709501495	DIVERSIFIED GAS & OIL PLC	THACKER 2	ACTIVE	5180	BENSON
4709501557	KEY OIL COMPANY	BURGESS 1	ACTIVE	5321	BENSON
4709502664	CNX	SHR 37 IHSM	ACTIVE	<Null>	MARCELLUS SHALE
4709502666	CNX	SHR 37 HHSM	ACTIVE	<Null>	MARCELLUS SHALE
4709502665	CNX	SHR 37 FHSM	ACTIVE	<Null>	MARCELLUS SHALE
4709502667	CNX	SHR 37 DHSM	ACTIVE	<Null>	MARCELLUS SHALE
4709502668	CNX	SHR 37 EHSM	ACTIVE	<Null>	MARCELLUS SHALE
4709502669	CNX	SHR 37 GHSM	ACTIVE	<Null>	MARCELLUS SHALE



SHR37_M2 Pad Frac SOG Review / Pad Risk Review

Wednesday, October 13, 2021

Api10	CurrentOperator	WellName	CurrentStatus	TotalDepth	FormationATD
4701700014	RITCHIE PETROLEUM CORPORATION, INC.	DOTSON, ARLINGTON 2	INACTIVE	1845	INJUN
4701704166	RITCHIE PETROLEUM CORPORATION, INC.	BRAKE, SAMUEL J.	INACTIVE	2000	INJUN
4701704570	BLACKROCK ENTERPRISES, LLC	SHEPHERD, MICHAEL	INACTIVE	UNKNOWN	UNKNOWN
4701702356	RITCHIE PETROLEUM CORPORATION, INC.	SHEPHERD, N. 1	INACTIVE	2303	WEIR
4701771423	(N/A)	N MILLER	INACTIVE	UNKNOWN	UNKNOWN
4701771425	(N/A)	ARLINGTON DOTSON	INACTIVE	UNKNOWN	UNKNOWN
4701771430	(N/A)	E M JACKSON	INACTIVE	UNKNOWN	UNKNOWN
4701771433	HOPE NATURAL GAS CO.	ELIAS THOMAS	INACTIVE	UNKNOWN	UNKNOWN
4701771435	HOPE NATURAL GAS CO.	WAGNER	INACTIVE	UNKNOWN	UNKNOWN
4701771439	BRADWATER	SAMANTHA COX	INACTIVE	UNKNOWN	UNKNOWN
4701771455	PHILADELPHIA OIL CO	F DOTSON	INACTIVE	UNKNOWN	UNKNOWN
4701770083	CARTER OIL CO	DOTSON, FINLEY	INACTIVE	UNKNOWN	UNKNOWN
4701770065	(N/A)	DOTSON, MCKENDRY	INACTIVE	1961	UNKNOWN
4701730056	HOPE NATURAL GAS CO.	E A HENDERSHOT	INACTIVE	1800	UNKNOWN
4701730278	HOPE CONSTRUCTION & REFINING	E M JACKSON	INACTIVE	2060	BIG INJUN (UNDIFF)
4701730335	JJ GRAHAM AGT ET AL	S YEATER	INACTIVE	1795	UNKNOWN
4701730949	DROPPLEMAN, J. P.	ARLINGTON DOTSON	INACTIVE	2012	BIG INJUN (UNDIFF)
4701731194	HICKMAN, CHARLES L.	CISCO DOTSON	INACTIVE	1973	BIG INJUN (UNDIFF)
4701771427	LUCAS	MARY MONTGOMERY	INACTIVE	UNKNOWN	UNKNOWN
4701771434	HOPE NATURAL GAS CO.	WAGNER	INACTIVE	UNKNOWN	UNKNOWN
4701771436	(N/A)	MCCUTCHAN-HAINES	INACTIVE	UNKNOWN	UNKNOWN
4701771447	HOPE NATURAL GAS CO.	LAWRENCE JAMES	INACTIVE	UNKNOWN	UNKNOWN
4701771448	(N/A)	S YEATER	INACTIVE	UNKNOWN	UNKNOWN
4701730443	CLIFTON OIL & GAS	MCKENDRY DOTSON	INACTIVE	1862	UNKNOWN
4701730102	DEEM, F S	OKEY WASHBURN	INACTIVE	1987	UNKNOWN
4701730182	(N/A)	FINLEY DOTSON	INACTIVE	1899	BIG INJUN (UNDIFF)
4701771437	HOPE NATURAL GAS CO.	MCCUTCHAN-HAINES	INACTIVE	UNKNOWN	UNKNOWN
4701771438	(N/A)	B HENDERSHOT	INACTIVE	UNKNOWN	UNKNOWN
4701730101	DEEM, F S	HENDERSON WALTON	INACTIVE	1880	UNKNOWN
4701730160	HOPE NATURAL GAS CO.	E A HENDERSHOT	INACTIVE	1930	BIG INJUN (UNDIFF)
4701771428	(N/A)	CISCO DOTSON	INACTIVE	UNKNOWN	UNKNOWN
4701771429	(N/A)	CISCO DOTSON	INACTIVE	UNKNOWN	UNKNOWN
4701771431	(N/A)	ALFRED DOTSON	INACTIVE	UNKNOWN	UNKNOWN
4701771440	HOPE NATURAL GAS CO.	SAMANTHA COX	INACTIVE	UNKNOWN	UNKNOWN
4701730184	PHILADELPHIA OIL CO	FINLEY DOTSON	INACTIVE	2882	UNKNOWN
4701730277	HOPE CONSTRUCTION & REFINING	E M JACKSON	INACTIVE	1978	UNKNOWN
4701730286	CLIFTON OIL & GAS	LEWIS MAXWELL HEIRS	INACTIVE	2142	UNKNOWN
4709501177	GREYLOCK CONVENTIONAL	JAMES, LAWRENCE & THELMA 2463	INACTIVE	5517	RILEY
4709530128	CARNEGIE NATURAL GAS CO	J A EXLINE	INACTIVE	2045	UNKNOWN
4709530180	HOPE CONSTRUCTION & REFINING	E M JACKSON	INACTIVE	UNKNOWN	UNKNOWN
4709530830	HOPE NATURAL GAS CO.	WILLIAM SMITH	INACTIVE	2922	BIG INJUN (UNDIFF)
4709530158	HOPE CONSTRUCTION & REFINING	E M JACKSON	INACTIVE	UNKNOWN	UNKNOWN
4709530391	DEEM, F S	A GORRELL DOAK	INACTIVE	2988	BIG INJUN (UNDIFF)
4709530600	HOPE NATURAL GAS CO.	W P BRADFORD	INACTIVE	2495	UNKNOWN
4709530393	DEEM, F S	A GORRELL DOAK	INACTIVE	2110	UNKNOWN
4709530520	HOPE NATURAL GAS CO.	A GORRELL DOAK	INACTIVE	2105	BIG INJUN (UNDIFF)
4709530890	HOPE NATURAL GAS CO.	ROBERT DOAK	INACTIVE	UNKNOWN	UNKNOWN
4709550001	DORVA CORP.	J A EXLINE	INACTIVE	2178	UNKNOWN



SHR37_M2 Pad Frac SOG Review / Pad Risk Review

Wednesday, October 13, 2021

Api#0	CurrentOperator	WellName	CurrentStatus	TotalDepth	FormationAtTD
4701700022	EASTERN GAS TRANSMISSION AND STORAGE, INC	DOTSON, F. 4981	P & A	2682	UNKNOWN
4701700204	EQUITRANS, L. P.	JAMES, BRUCE 1	P & A	1916	UNKNOWN
4701700205	EQUITRANS, L. P.	JAMES, BRUCE 2	P & A	1006	UNKNOWN
4701701065	(N/A)	IRONS, JOHN 1	P & A	1985	UNKNOWN
4701701248	CHRISTENSON, R WAYNE	DOTSON, FINLEY 1	P & A	1937	BIG INJUN (UNDIFF)
4701701070	PRIOR, FERRELL L	GARNER, D. 1	P & A	1792	BIG INJUN (UNDIFF)
4701701079	PRIOR, FERRELL L	THOMAS, ELIZABETH 1	P & A	2553	UNKNOWN
4701701092	(N/A)	DOTSON, ARLINGTON - HEIRS 3	P & A	1865	UNKNOWN
4701702787	GREYLOCK CONVENTIONAL	SHEPHERD, JAMES E. J-302	P & A	5070	UNKNOWN
4701703389	DIVERSIFIED GAS & OIL PLC	JAMES, LAWRENCE L. JK-1045	P & A	5321	UNKNOWN
4709501167	SOUTHWESTERN ENERGY	WAGNER 1	P & A	4866	RILEY
4709500851	SOUTHWESTERN ENERGY	GRIFFIN, EDITH H. 2	P & A	5025	WEIR
4709500712	DORWARD ENERGY CORPORATION	CARNEGIE #516	P & A	UNKNOWN	UNKNOWN
4709500202	(N/A)	MOORE, SARAH H. 1	P & A	1096	UNKNOWN
4709500267	(N/A)	ELLIS JENKINS HEIRS 1	P & A	1103	UNKNOWN
4709500492	ROSS AND WHARTON GAS COMPANY, INC.	SMITH, ROBERT & LUCILLE 2741	P & A	1916	UNKNOWN
4709500757	ALLIED ENERGY, INC.	PRATT, A. E. 1	P & A	2209	UNKNOWN
4709500715	INDUSTRIAL GAS/FRONTIER ENERGY CO.	BRADFORD, HATTIE 3	P & A	948	UNKNOWN
4709500280	APPALACHIAN ENERGY DEV INC	WAGNER #1	P & A	945	UNKNOWN
4709500288	(N/A)	DOAK, ROBERT 1	P & A	1849	UNKNOWN
4709500292	FLO-WELL INC	FORD, W.A., ET UX 1	P & A	UNKNOWN	UNKNOWN
4709500037	BACHELOR, D.	DOKE, MAGGIE, ET AL 1	P & A	1193	UNKNOWN
4709500205	(N/A)	S.M. DOAK HEIRS 1	P & A	1100	UNKNOWN
4709500782	BRAXTON OIL & GAS CORP.	MULVAY J-162	P & A	5100	UNKNOWN

WW-9
(4/16)

API Number 47 - 095 - 02770
Operator's Well No. SHR37MHSM

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CNX Gas Company, LLC OP Code 494458046

Watershed (HUC 10) Headwaters Middle Island Creek Quadrangle West Union

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: no pits

Will a synthetic liner be used in the pit? Yes No If so, what ml.? NA

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 47-001-00561, 47-097-01514, 47-097-01813, 34-013-2-0609)
- Reuse (at API Number WDTNSWHSM 47-061-01871, WDTNSXHSM 47-061-01872, WDTNSZHSM 47-061-01873, WDTN18 wells API TBD)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain No Pits)

Will closed loop system be used? If so, describe: Yes

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.
Vertical: Air from application to curve kick-off point (KOP). Horizontal: synthetic oil-based mud (SOBM) from curve KOP to lateral TD

-If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? Bactericide, Polymers, and Weighting Agents

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc.
Land Application of soil conductor cuttings only, all other cuttings will be taken to an approved offsite

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? See attached.

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Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Sarah Weigand
Company Official (Typed Name) Sarah Weigand
Company Official Title Manager Upstream Permitting

Commonwealth of Pennsylvania - Notary Seal
Rebecca Zachwieja, Notary Public
Washington County
My commission expires November 7, 2023
Commission number 1269683
Member, Pennsylvania Association of Notaries

Commonwealth of Pennsylvania, Governor Washington
Subscribed and sworn before me this 10 day of November, 20 21

Rebecca Zachwieja
Notary Public

My commission expires November 7, 2023

Digitally signed by Cragin Blevins
Date: 2021.11.08 12:27:45 -0500

12/17/2021

CNX Gas Company, LLC

Proposed Revegetation Treatment: Acres Disturbed 15.57 Prevegetation pH 6.5

Lime according to pH test Tons/acre or to correct to pH 7.0

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch hay or straw @ 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	25	Orchard Grass	25
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15
Ladino Clover	10	Ladino Clover	10

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Cragin Blevins Digitally signed by Cragin Blevins
Date: 2021.11.05 12:27:39 -0500

Comments: _____

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WV Department of
Environmental Protection

Title: Environmental Resources Specialist III Date: 11/8/2021

Field Reviewed? () Yes () No

Type of Waste	Dispose Company/Name	Dispose Location	Dispose Location Epi Well ID / Name	Permit # (if applicable)	Accepted Waste Streams	Dispose Company Contact Information	
Brine Injection - Treatment	Appalachian Water Services (Nuverra Environmental Solutions)	2326 McClellandtown Road, Masontown, PA 15461	39.853056, -79.924786	Appalachian Water	WMGR GP No. 1235W001 WQM Industrial Waste Permit No.: 2508201 A-2	Brine (Produced Water) and oily water from compressor stations	Rob Bealke 304-291-0383 Office 304-282-8314 Cell rob.bealke@nuverra.com Office: 740-609-3800
RW & TENORM	Austin Master Services	801 N 1st St, Martins Ferry, OH 43935	40.105200, -80.711630	N/A	N/A	Non-radioactive material, low level radioactive material, (NORM/TENORM), and high level TENORM material handling, storage, downblending, transport/loading to rail, tank cleaning, radiological sampling/testing analysis/lab.	Jack Bement CEO Austin Master Services LLC 355 Circle of Progress Pottstown PA, 19464 Ph: (585) 704-2744 Fax: 484 624-5506 Office: 740-609-3800
Brine Injection - Treatment	Austin Master Services	801 N 1st St, Martins Ferry, OH 43935	40.105200, -80.711630	N/A	N/A	Brine (Produced Water)	Jack Bement CEO Austin Master Services LLC 355 Circle of Progress Pottstown PA, 19464 Ph: (585) 704-2744 Fax: 484 624-5506
RW & TENORM	Balmat Solids Control	78405 Cadiz-New Athens Rd Cadiz, OH 43907	40.233830, -81.003300	N/A	N/A	Non-radioactive material, low level radioactive material, (NORM/TENORM), and high level TENORM material handling, storage, downblending, transport/loading to rail, tank cleaning, radiological sampling/testing analysis/lab.	Deve Brown 412-848-1528 Mark Winsap 330-692-0423; dbrown@ApexLF.com Bob Orr 740-796-6495 614-648-8898 orpetro@gmail.com
Brine Injection - Treatment	Cambrian Well Services - Kemble (Orr Petroleum Corporation)	Zanesville, Muskingum County, Perry Township, OH	39.574954, -81.845389	Kemble I-D (SWNW#25)	34-119-2-8780	Brine (Produced Water)	
Brine Injection - Treatment	CNX Resources Corporation	Buchanan County, VA	37.087460, -82.047918	BPC01	VAS2D960B8UC	CNX Owned UIC SWWs: Frac water, brine, produced water	Contact Ops Groups
Brine Injection - Treatment	CNX Resources Corporation	Buchanan County, VA	37.222201, -81.959987	N26	VAS2D930B8UC	CNX Owned UIC SWWs: Frac water, brine, produced water	Contact Ops Groups
Brine Injection - Treatment	CNX Resources Corporation	Buchanan County, VA	37.184198, -82.082549	U7	VAS2D926B8UC	CNX Owned UIC SWWs: Frac water, brine, produced water	Contact Ops Groups
Brine Injection - Treatment	CNX Resources Corporation	Russell County, VA	37.120547, -81.961222	AW114A	VAS2D970B8UC	CNX Owned UIC SWWs: Frac water, brine, produced water	Contact Ops Groups
Brine Injection - Treatment	CNX Resources Corporation	Buchanan County, VA	37.147934, -82.075320	Ball Well	VAS52D92188UC	CNX Owned UIC SWWs: Frac water, brine, produced water	Contact Ops Groups
Brine Injection - Treatment	DeepRock Disposal Solutions	Washington County, Warren Township, OH	39.426278, -81.502379	Order No. 2015-452; Vocational School No. 2 Well; SWW No. 2D	API # 34-167-2-9543-00-00	Brine (Produced Water)	Wes Mossor General Manager wesm@deeprockds.com DeepRock Disposal Solutions LLC Office: 740.371.5078 ext. 206 Cell: 304.588.0936
Brine Injection - Treatment	DeepRock Disposal Solutions	Washington County, Warren Township, OH	39.429172, -81.507900	Order No. 2015-582; Heinrich Unit #2 Well, SWW No. 22	API # 34-167-2-9454-00-00	Brine (Produced Water)	Wes Mossor General Manager wesm@deeprockds.com DeepRock Disposal Solutions LLC Office: 740.371.5078 ext. 206 Cell: 304.588.0936
Brine Injection - Treatment	DeepRock Disposal Solutions	Washington County, Warren Township, OH	39.429867, -81.518020	Order No. 2015-581; Heinrich Unit #1 Well, SWW No. 21	API # 34-167-2-9445-00-00	Brine (Produced Water)	Wes Mossor General Manager wesm@deeprockds.com DeepRock Disposal Solutions LLC Office: 740.371.5078 ext. 206 Cell: 304.588.0936
Brine Injection - Treatment	DeepRock Disposal Solutions	Washington County, Martins Township, OH	39.402842, -81.476913	Order No. 2019-79; American Growers No. 1 Well, SWW No. 26	API # 34-167-2-9766-00-00	Brine (Produced Water)	Wes Mossor General Manager wesm@deeprockds.com DeepRock Disposal Solutions LLC Office: 740.371.5078 ext. 206 Cell: 304.588.0936

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									Michael Chapin Ph 740-763-3966 Call 740-403-9664 tantrummr@aol.com
Brine Injection - Treatment	EGO Water Solutions LLC	5367 E. State Street, Newcomerstown, OH 43882	40.281293, - 81.578068	Mozena #1 Well (SWW #13)	API # 34-157-2-5511	Brine (Produced Water)			Robert Schenkan Director Business Development HydroEdge Solutions Wisconsin White Sands rschenkan@hydroedgesolutions.com Cell 412.295.9614
Brine Injection - Treatment	Environmental Energy Services LLC (Force, Inc.)	Muskingum County, Perry Township, OH	39.973643, - 81.825727	Pattison Trust No 1-D (SWW #30)	API # 34-119-2-8803	Brine (Produced Water)			Bryan Force Mobile: 412.289.0089 Office: 724.465.9399 bforce@forceincorporated.com
Brine Injection - Treatment	Environmental Energy Services LLC (Force, Inc.)	Barnsville, Belmont County, OH	NEED	Barnsville (SWW #2)	24-013-2-0609 UIC #609	Frac water, brine, produced water Class II injection fluids that are in connection with conventional oil or gas production and may be commingled with waste waters from gas plants unless those waters are classified as hazardous wastes at the time of injection.			Bryan Force Mobile: 412.289.0089 Office: 724.465.9399 bforce@forceincorporated.com Zachery Reed zacheryr4@yahoo.com PO Box 555, Rosedale, VA 24280 Phone: (776) 880-2323
Brine Injection - Treatment	Gas Field Services, Inc.	200 Camp Creek Road, Camp Creek, WV 25820	37.495138, -81.305161	Camp Creek Disposal Well	UIC: UIC2D0550319 API: 47-055-00319				Gary Carpenter 267-246-6176 JRC@Carpenter@aol.com Office: (330) 270-9900
Brine Injection - Treatment	Greene County Water Treatment, Inc.	401 Jefferson Rd Waynesburg, PA 15370	39.908611, - 80.141111	Waynesburg Facility	WMGR1235W010	Oil and Gas Fluids with minimal oil and solids present			
RW & TENORM	Ground Tech LLC	240 Sinter Court, Youngstown, OH 44510	41.113260, - 80.874500	N/A	N/A	Non-radioactive material, low level radioactive material, (NORM/TENORM), and high level TENORM material handling, storage, downblending, transport/loading to rail, tank cleaning, radiological sampling/testing analysis/lab.			Larry Chamberlain 330-338-5919 lchamberlain@lwo-inc.com Ashley Cronley 570-394-4490 Ashley.cronley@hydrarecovery.com
Brine Injection - Treatment	Hydro Recovery	572 Route 18 Burgettstown, PA 15021	40.422874, - 80.426125	Burgettstown Facility	WMGR1235W019	Oil and Gas Fluids with minimal oil and solids present Gas Specific Waste Streams: Drill Cuttings/Frac Sand, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum) Construction & Demolition Waste, Industrial Waste, Process Waste, Municipal Solid Waste			Terry Gadd terry.gadd@jpmascaro.com, 610 635- 4133
Non-Haz Disposal	Mascaro & Sons- Wetzel Co LF	1521 Wetzel County Landfill Rd New Martinsville, WV 26155	N/A	Wetzel County Landfill	N/A				Tom Meinert 740-255-0357 heavymidmasters@gmail.com
RW & TENORM	Mud Masters LLC	64054 Wintergreen Rd Lore City, OH 43725	40.027531, - 81.449219	N/A	N/A				Billing Address: 733 Southgate Pkwy, Cambridge, Ohio 43725
Non-Haz Disposal	Noble Environmental Landfill (Former Westmoreland Waste)	111 Conner Lane, Belle Vernon, PA 15012	N/A	Noble / Westmoreland Sanitary Landfill		Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Friable Asbestos, Non-Friable Asbestos, Municipal Solid Waste			Customer Service: (724) 929-7094
RW & TENORM	Pressure Tech	7675 East Pike Norwalk, Ohio 43767	39.97415, -81.844763	N/A	N/A	Non-TENORM wastes including cement water and oil or water based drilling mud only. Are not to accept waste that is known to have elevated levels of TENORM or compressor station water. Non-hazardous wastewater, transportation, treatment and disposal facility. Also offer transportation and solidification services			Bob Orr: 614-643-8898
Oil & Oily Water Treat - Recycle	Quala	515 Industrial Blvd., Wooster, OH 44691	N/A	N/A	N/A				330-264-8080 (O) jclater@quala.us.com
Non-Haz Disposal	Republic Services-Imperial (Allied Waste of PA)	11 Roges Rd, Imperial, PA 15126	N/A	Imperial Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings/Frac Sand, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Sludge, Friable Asbestos, Non-Friable Asbestos, Municipal Solid Waste			Jack Palermo - jpalermo@republicservices.com, 330- 536-7575 Matt Kicinski 814-574-9701 mkicinski@reswater.com Matt Kicinski 814-574-9701 mkicinski@reswater.com
Brine Injection - Treatment	Reserved Environmental Services (RES)	1119 Old Route 119 South Mt. Pleasant, PA 15666	40.215555, - 79.606388	New Stanton Facility	WMGR1235W005	Oil and Gas Fluids with minimal oil and solids present			Gordon Cooper Gordon.cooper@safety-keen.com 304-215-2284 1-866-670-9034 Joe Steton: 717-360-7916 Office: 301-223-1251 Fax: 301-223-1253 jsteton@sprtservices.com
Brine Injection - Treatment	Reserved Environmental Services (RES)	506 Upencott Road Waynesburg, PA 15370	39.945555, - 80.140833	Waynesburg Facility	WMGR1235W031	Oil and Gas Fluids with minimal oil and solids present RCRA/TSCA Waste, PCB Transformers & Capacitors, PCB Soil/Debris, Non-Hazardous Wastes, Asbestos Waste, Solidification Services			
Hazardous Waste Disposal	Safety Keen	80 Industrial Park Drive Wheeling, Wv. 26008	N/A	Wheeling Landfill	N/A				
Oil & Oily Water Treat - Recycle	Spirit Services, Inc.	173 Industrial Park Ln., Beech Bottom, WV 26030	N/A	N/A	N/A	Approved for non-haz water treatment of oil & water msk. Also offer transportation and solidification services. Capable of other types of waste disposal and handling with prior Environmental and Supply Chain approval.			

RW & TENORM	Empire Fluid Solutions (Formerly Trac Clean)	41540 National Road Delmont, OH 43718	40.0687, -81.0493	N/A	N/A	Non-radioactive material, low level radioactive material (NORM/TENORM) material handling, storage, downblending, transport/loading to rail, tank cleaning, radiological sampling/testing analysis/lab. Non-radioactive material & radioactive material handling (NORM/TENORM), solids separation, material downblending, tank cleaning, radiological sampling/testing analysis/lab. Liquid/semi-solids treatment and separation for waste disposal.	Orin David Orin.david@tracclean.com 918-413-8426 Corporate Number: 734-442-2353 Guy Turtrice gturtrice@vallicor.com 304-963-1563 Steve Atkinson SAtkinson@vallicor.com
Oil & Oil Water Treat - Recycle	Valcor Environmental Services LLC	515 N. 8th Ave, Huntington, WV 25201	N/A	N/A	N/A	Approved for non-haz water treatment of oil & water mix, oil, oil filters, and antifreeze only.	
Non-Haz Disposal	Waste Management - American Landfill	7918 Chapel St SE, Waynesburg, OH 44668	N/A	American Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum)Construction & Demolition Waste, Industrial Waste, Sludge, Friable Asbestos, Non-Friable Asbestos, Process Waste, Solidification Services, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C- 330-204-4244, TFarnsw@wm.com
Non-Haz Disposal	Waste Management - Arden Landfill	200 Rangos Ln, Washington, PA 15301	N/A	Arden Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Sludge, Process Waste, Solidification Services, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C- 330-204-4244, TFarnsw@wm.com
Non-Haz Disposal	Waste Management - Evergreen Landfill	1310 Luciusboro Rd, Blairsville, PA 15717	N/A	Evergreen Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Sludge, Process Waste, Solidification Services, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C- 330-204-4244, TFarnsw@wm.com
Non-Haz Disposal	Waste Management - Kelly Run	1500 Hayden Blvd, Elizabeth, PA 15037	N/A	Kelly Run Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Sludge, Process Waste, Solidification Services, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C- 330-204-4244, TFarnsw@wm.com
Non-Haz Disposal	Waste Management - Mahoning Landfill	3510 E Garfield Rd, New Springfield, OH 44443	N/A	Mahoning Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum)Construction & Demolition Waste, Industrial Waste, Non-Friable Asbestos, Process Waste, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C- 330-204-4244, TFarnsw@wm.com
Non-Haz Disposal	Waste Management - Meadowhill Landfill	1488 Dawson Dr, Bridgeport, WV 26390	N/A	Meadowhill Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum)Construction & Demolition Waste, Industrial Waste, Sludge, Friable Asbestos, Non-Friable Asbestos, Process Waste, Solidification Services, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C- 330-204-4244, TFarnsw@wm.com
Hazardous Waste Disposal	Waste Management - Model City	1550 Balmer Rd Youngstown, NY 14174	N/A	Model City Landfill	N/A	RCRA/TSCA Waste, PCB Transformers & Capacitors, PCB Soil/Debris, Non-Hazardous Wastes, Asbestos Waste, Solidification Services	Linda Davis: 716-286-0365 or 716-754-8231 or 800-963-4776
Non-Haz Disposal	Waste Management - Northwestern Landfill	510 Dry Run Rd, Parkersburg, WV 26104	N/A	Northwestern Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum)Construction & Demolition Waste, Industrial Waste, Sludge, Process Waste, Solidification Services, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C- 330-204-4244, TFarnsw@wm.com
Non-Haz Disposal	Waste Management - S&S Grading Landfill	4439 Good Hope Pike, Clarksburg, WV 26301	N/A	S&S Grading Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum)Construction & Demolition Waste, Industrial Waste, Sludge, Process Waste, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C- 330-204-4244, TFarnsw@wm.com
Non-Haz Disposal	Waste Management - South Hills (Arnon)	3100 Hill Rd, South Park Township, PA 15129	N/A	South Hills Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Construction & Demolition Waste, Industrial Waste, Sludge, Process Waste, Solidification Services, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C- 330-204-4244, TFarnsw@wm.com
Non-Haz Disposal	Waste Management - Valley Landfill	6015 Pleasant Valley Rd, Irwin, PA 15642	N/A	Valley Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Sludge, Friable Asbestos, Non-Friable Asbestos, Process Waste, Solidification Services, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C- 330-204-4244, TFarnsw@wm.com

Non-Haz Disposal	Waste Management - Chestnut Ridge	385 Harr Ln, Blountville, TN 37617				Spencer to complete	Travis Maryanski tmaryanski@wm.com (865) 388-7279 Cell (205) 652-8137 Tech Service
Non-Haz Disposal	MXI Environmental Services LLC	2619 Old Trail Road Abingdon, VA 24210				Spencer to complete	John Twiddy john@mxinc.com 276-628-6636 ext. 202; 276-608-0003 Cell
Non-Haz Disposal	Republic Services - Short Creek	North Fork Short Creek Road, Wheeling, WV 26003	N/A	Short Creek Landfill	N/A		Gas Specific Waste Streams: Drill Cuttings/Frac Sand, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Sludge, Process Waste, Municipal Solid Waste Jack Palermo - jpalermo@republicservices.com, 330- 536-7575
Non-Haz Disposal	Republic Services - Carbon-Limestone**	8100 S State Line Rd, Lowellville, OH 44436	N/A	Carbon-Limestone Landfill	N/A		Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum)Construction & Demolition Waste, Industrial Waste, Sludge, Process Waste, Solidification Services, Municipal Solid Waste **Ohio "TENORM" - requires Radium 226/228 analysis by load before leaving the well pad. Solid waste landfills in Ohio can only accept TENORM waste with combined concentration less than 5 picocuries per gram above the natural background level. Jack Palermo - jpalermo@republicservices.com, 330- 536-7575
Disposal like mud/masters takes ex	Fluid Management Solutions (FMS)	5445 US-40 East, Tradelphia, WV 26059	40.06886, 80.61492	N/A	N/A		Cement Water, Oil Base, Drill Mud, Water Base, Cellar Clean Outs ex. Also they do washouts and they have storage capacity at 2000bbl for 10lb brine and 10.5lb brine. Kevin Flaherty (412)973-2586



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

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

West Virginia Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

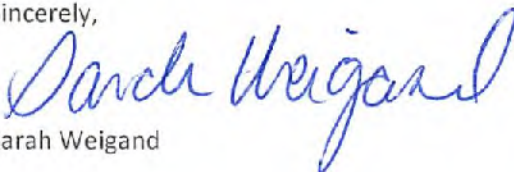
Dear Sir or Madam:

Pursuant to West Virginia Code §22-6A-8(g2), CNX Gas Company, LLC is requesting an approval from the office to land apply cuttings associated with the drilling of the conductor (unconsolidated materials) on location for pad SHR37. CNX Gas Company, LLC is the surface landowner of parcel 01-17-0005 in Tyler County and therefore consents to this method.

The wells planned for the second round of drilling operations on this pad are:

SHR37KHSM
SHR37LHSM
SHR37MHSM
SHR37NHSM
SHR37OHSM
SHR37PHSM
SHR37QHSM
SHR37RHSM

Sincerely,


Sarah Weigand

RECEIVED
Office of Oil and Gas
NOV 15 2021
WV Department of
Environmental Protection

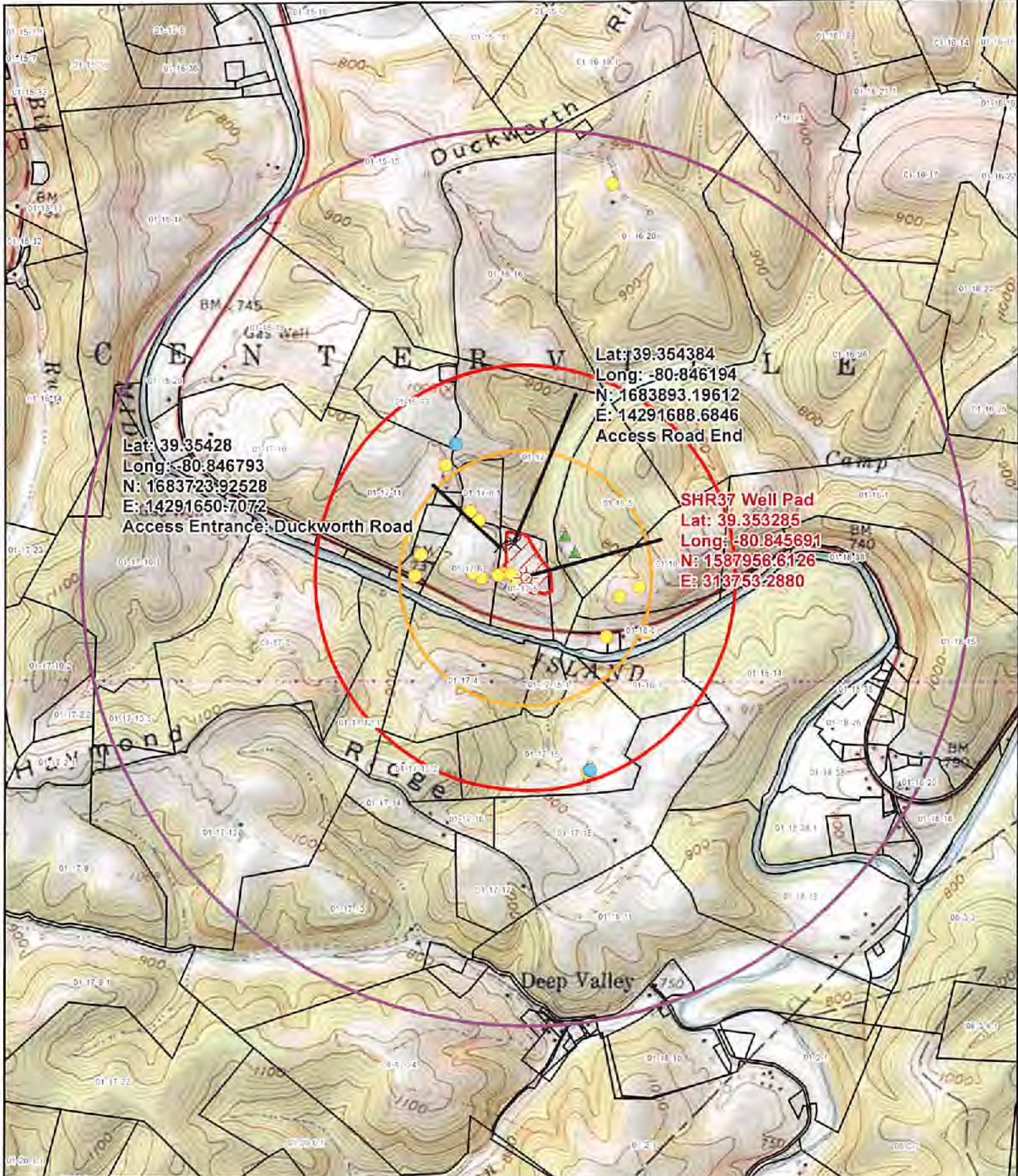
12/17/2021



Site Safety Plan for Well SHR37MHSM
CNX Gas Company, LLC.



RECEIVED
Office of Oil and Gas
NOV 15 2021
WV Department of
Environmental Protection



Disclaimer: This information is being provided as a business or professional courtesy. CNX Resources Corp. and its subsidiaries and affiliates, collectively "CNX", make no representations or warranties of any kind or character concerning the completeness or accuracy of the information and assumes no responsibility or liability of any kind for such information. The recipient of this information acknowledges and assumes all risk of the use of such information. In consideration of CNX providing this information, the recipient hereby waives and releases any and all claims or causes of action the recipient may ever have against CNX, its officers, directors, employees or agents relating to or resulting or arising from the use of the information. Acceptance of this information by the recipient constitutes agreement with all the terms and conditions in the notice.

SHR37 Well Pad	Pond	1 Mile Buffer
Spring	2,500ft Buffer	1,500ft Buffer
Well	Surface Parcel	Well Pad LOD
Access Points		
Access Road		

1 inch = 1500 feet

Date: 10/7/2021 Prepared By: GIS

Revisions: 1 Approved By:

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CNX

12/17/2021

Map Date: 12/17/2021

LATITUDE 39° 22' 30" TH: 3,530'

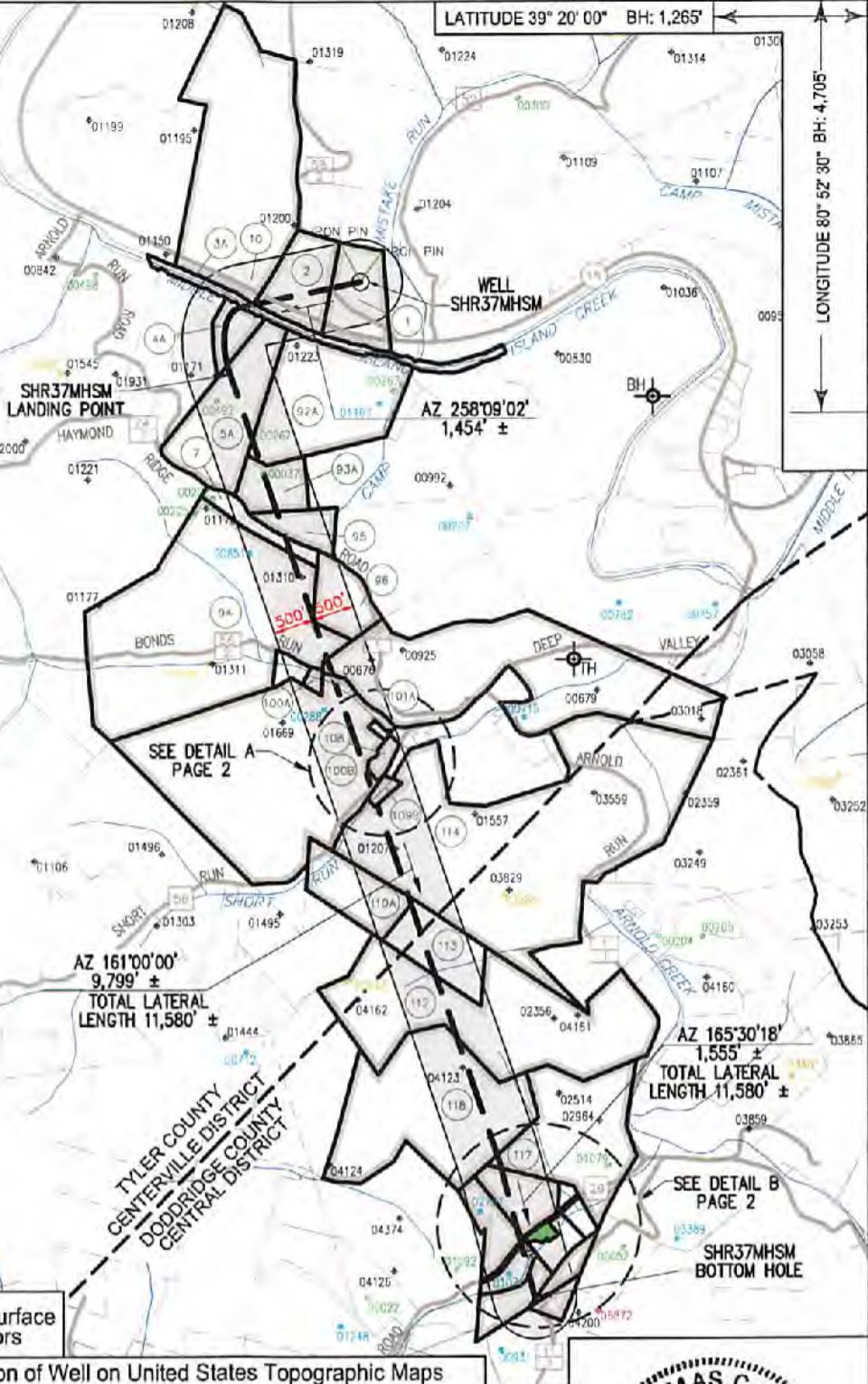
LATITUDE 39° 20' 00" BH: 1,265'

LONGITUDE 80° 52' 30" BH: 4,705'

TH: 7,825'

LONGITUDE 80° 50' 00"

SHR37MHSM
CNX Gas Company LLC



NOTES ON SURVEY

1. COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. THERE IS AN EXISTING HOUSE AND BUILDINGS WITHIN 825 FEET OF PROPOSED WELL.
5. THERE ARE WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF WELL.
6. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
7. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

LEGEND

- Active Well Location
- Plugged Well Location
- Abandoned Well
- Permit Location
- Lease Number
- Proposed Gas Well
- Located Corner, as noted
- County Line
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- WV County Route
- WV State Route

See Page 3 For Surface Owners and Lessors

(*) Denotes Location of Well on United States Topographic Maps



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Thomas C. Smit

L. L. S. 687



SEAL

FILE NO: _____
 DRAWING NO: _____
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: SG-GPS (OPUS)

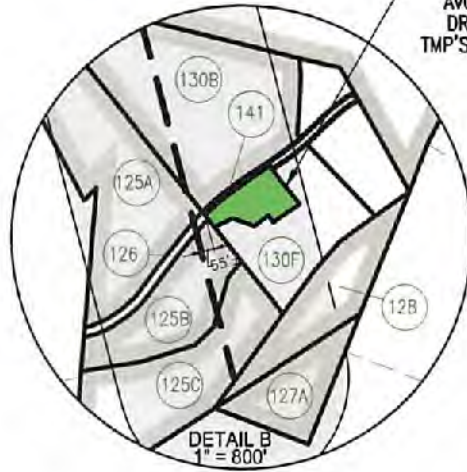
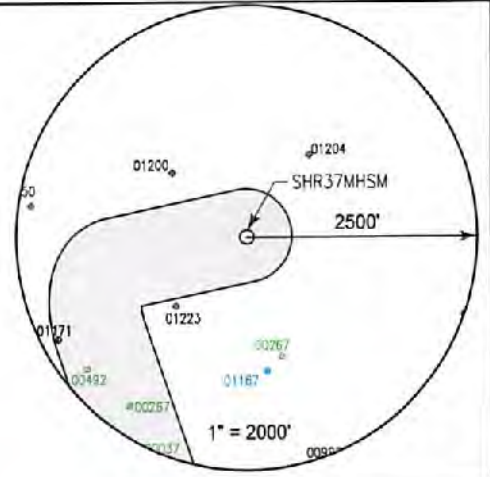
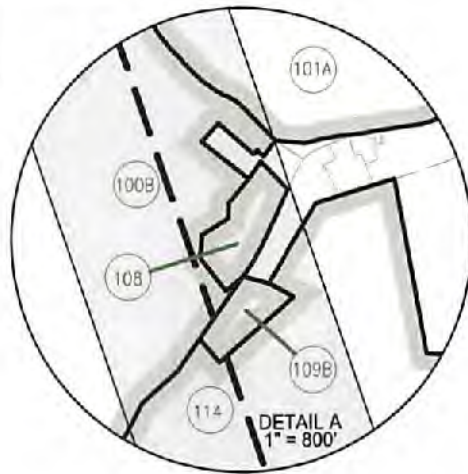


DATE: November 03 20 21
 OPERATORS WELL NO: SHR37MHSM
 API WELL NO: H6A
 47 - 095 - 02770
 STATE COUNTY PERMIT

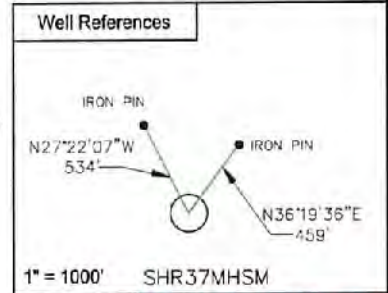
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION ELEVATION: 828' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union, WV 7.5'
 DISTRICT: Centerville COUNTY: Tyler
 SURFACE OWNER: CNX Gas Company LLC ACREAGE: 18.1
 ROYALTY OWNER: Eleanor V. & Dean A. Earnheart, et al. LEASE NO: 269278000 ACREAGE: 720.525 ±
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: TVD: 6,302'

WELL OPERATOR: CNX Gas Company LLC DESIGNATED AGENT: Anthony Kendziora
 ADDRESS: 1000 Consol Energy Drive ADDRESS: 1000 Consol Energy Drive
 Canonsburg, PA 15317 Canonsburg, PA 15317

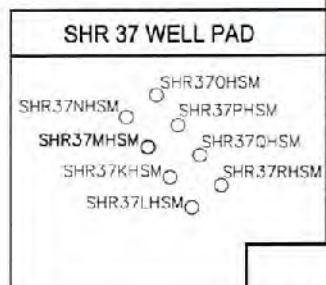
SHR37MHSM
CNX Gas Company LLC



ADVERSE TRACTS TO AVOID DURING DRILLING OPERATIONS
TMP'S 01-4-3 & 01-4-4



SURFACE HOLE LOCATION (SHL)	
UTM 17 NAD 83	
N: 4356019.448	
E: 513284.062	
NAD 83, WV NORTH	
N: 313725.319	
E: 1587952.064	
LAT/LON DATUM NAD 83	
LAT: 39°21'12.667"	
LON: 80°50'44.851"	
LANDING POINT	
UTM 17 NAD 83	
N: 4355675.936	
E: 512814.500	
NAD 83, WV NORTH	
N: 312623.791	
E: 1586392.372	
LAT/LON DATUM NAD 83	
LAT: 39°21'01.549"	
LON: 80°51'04.594"	
BOTTOM HOLE LOCATION (BHL)	
UTM 17 NAD 83	
N: 4352347.252	
E: 513980.682	
NAD 83, WV NORTH	
N: 301636.755	
E: 1590036.948	
LAT/LON DATUM NAD 83	
LAT: 39°19'13.506"	
LON: 80°50'16.119"	



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

L. L. Smit
L. L. S. 687



FILE NO: _____
DRAWING NO: _____
SCALE: 1" = 1000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: November 03 20 21
OPERATORS WELL NO: SHR37MHSM
API WELL NO: HGA
47 - 095 - 02770
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION ELEVATION: 828' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union, WV 7.5'
DISTRICT: Centerville COUNTY: Tyler

SURFACE OWNER: CNX Gas Company LLC ACREAGE: 128 ±
ROYALTY OWNER: Eleanor V. & Dean A. Earnheart, et al. LEASE NO: 269278000 ACREAGE: 720.525 ±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: TVD: 6,302'

WELL OPERATOR: CNX Gas Company LLC DESIGNATED AGENT: Anthony Kendziora
ADDRESS: 1000 Consol Energy Drive ADDRESS: 1000 Consol Energy Drive
Canonsburg, PA 15317 Canonsburg, PA 15317

	SURFACE OWNER	LESSOR	PIN
1	CNX Gas Company LLC	Eleanor V. Earnheart and Dean A. Earnheart, her husband Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, wife and husband Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife Dorothy Belle Wells and Byron Wells, her husband Wanda Weekley, widow Myrna Morgan and David Morgan, her husband	1-17-5
2	Gail Williamson	Eleanor V. Earnheart and Dean A. Earnheart, her husband Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McClain and Ralph E. McClain, wife and husband Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife Dorothy Belle Wells and Byron Wells, her husband Wanda Weekley, widow Myrna Morgan and David Morgan, her husband Reva D. Rowland, aka Reva Rowland and Ronald Royce Rowland	1-17-6
3A	West Virginia Division of Natural Resources	West Virginia Division of Natural Resources	Middle Island Creek
4A	James R Sr. & James R Jr. Underwood & Mitzie Johnson	Mattie Dotson Flint Aris Hope Jack Parker, AIF for Colen C. Jack Linda K. Bright, aka Linda Bright Viola M. Trenton, aka, Viola Trenton Judy Schillace and Nicholas Schillace, W/H William Christopher Taylor and Cynthia Taylor, H/W Maryless Haymond and Floyd Haymond, W/H Gayla A. Beech, fka, Gayla A. Hickman Helen Louise Hickman, a/k/a Helen L. Hickman, fka Helen Louise Leasure, by her AIF, Frances Louise Bunner, aka Frances L. Bunner Ruby Newlon Cheryl L. Tadsen, fka Cheryl L. Gill and James F. Tadsen, W/H Barbara J. Davis, aka Barbara Davis Cindy A. Gill, aka Cynthia Ann Gill David M. Gill, aka David Michael Gill and Catherine J. Gill, aka Cathy Gill, H/W Terry R. Washburn, aka Terry Washburn and Joy D. Washburn, H/W Jean Kuchenbecker, aka, Nellie Jean Kuchenbecker, fka Nellie Jean Hickman and William Kuchenbecker, W/H James Albert Taylor Judy Webb, fka, Judy Newbrough Cledith H. Davis Linda L. Catona, fka Linda L. Sellers B. Pauline Murphy, fka B. Pauline Moore Denver Hickman Delmas Hickman Donna D. Hart Howard W. Smith, aka Bill Smith Amanda L. Davis Connie Sue Maxwell and Michael Mayne Maxwell, W/H Alex Craig Smith, aka Alex C. Smith and Bobbie Smith, H/W Eric Scott Smith William Gene Stone Emerson C. Davis, II Theodore K. Davis and Jill Davis, H/W Michael P. Davis Martha Jill Holliday Juli Edith Germany Kimberly Wilcox and Danny Wilcox, W/H Matthew Storm Shirley L. Urbanowicz, aka Shirley L. Quinn, fka, Shirley L. Hickman and John Quinn, W/H Deanna Zirkelbach, fka Deanna Stamper and Tommy Zirkelbach, W/H Ronald Sessle	1-17-12.1
5A	James R Sr. & James R Jr. Underwood & Mitzie Johnson	Sarah E. Doak, Austin Doak, and Myrtle E. Doak, H/W, Dorsey Doak and Sarah E. Doak, H/W, Oliver A. Doak, Kirby D. Doak, Ida Lemasters and Elzy Lemasters, W/H, Myrtle White and Jasper White, W/H	1-17-12.1
		Tribune Resources Minerals, LLC, fka Ascent Resources Marcellus Minerals, LLC	
7	Anita K Elkins & Mark B Gooch	BRC Appalachian Minerals I LLC Norma Long, widow J&N Management Enterprises, LLC	1-17-14

12/17/2021

	SURFACE OWNER	LESSOR	PIN
10	Elden L Pratt & Christine Lasure	Artis Hope Jack Parker, AIF for Colen C. Jack	1-15-38
10	Timothy R Pratt		1-15-39
10	Elden L Pratt, Dean Rodney & Timothy Ray Pratt		1-17-11
10	Thomas D Snyder II & Connie S Snyder		1-17-11.1
10	Rodney D Pratt		1-17-11.2
10	Wayne C Mumbauer & Ronda Mumbauer		1-17-11.3
10	Wayne C Mumbauer & Ronda G Mumbauer		1-17-11.4
10	State of West Virginia		1-17-11.5
10	Forrest G Powell		1-17-11.6
10	Roger L Williams & Marjorie P Williams		1-17-11.7
10	Jason L Pratt & Rebecca M Pratt		1-17-11.8
92A	Samuel V Ash & Denise Rule	A. E. Doak and Callie Doak	1-17-4
93A	Shirley J Bemby	Ancel Doak and Flora Doak, H/W Goldie McKittrick, widow	1-17-15.2
94	George W Ash	Donna J. Griffith and Jacob Paul Griffith	1-17-13
		Peggy A. Bumpass Laura Jean Suddreth Michael R. Burk Janet Cliff Pitts Paul Conger and Mary Conger Debbie Hileman and Mark A. Hileman Jeffrey A. James and Maria J. James William Patrick James and Dianne James Pamela Fern Friedman Dwight Eugene Sturm Anna Colleen Presley aka Colleen Presley Patricia G. Doty Philip Wayne Sturm Lisa Schafer Carol Elaine Higgins and Everett Higgins aka Everett W. Higgins Michael James and Vicky L. James Doris J. Bee and Livingstone S. Bee Jill Robin Thompson and Kelvin Thompson Jock Jeffrey Pitts aka Jock J. Pitts and Deborah M. Pitts David Eugene Bersebach Judith Adams fka Judith Diane Poling and Clifford Adams Denise Gambill aka Denis K. Gambill Gregory R. Mercer James W. Schumacher and Lisa B. Schumacher Larry O. Schumacher and Kathleen M. Schumacher Lori Hufstedler Mary Jane Schumacher Bryan Bumgarner and Lisa D. Bumgarner Patricia Ruth Heater, By Paul Eugene Heater, Jr. POA Sheryl Groves Waco Oil and Gas Co., Inc. Gregory Sellers aka Greg Sellers and D. Lee Seller James Lindsey Betty Lewis and Douglas C. Lewis Robert Groves and Carol J. Groves Ann Adel Gosney Kimberly Abrecht fka Kimberly Gene Pitts C. Gloria Atkinson aka Gloria Atkinson and Charles W. Atkinson Matthew Pitts Boda Family Trust, by Margaret E. Boda, Co-Trustee by Wanda L. Boda, POA and Wand L. Boda Co-Trustee Kathryn Stephens Nicholas R. Lucas Tyler Pitts Linda J. Franz Terri Ann Suddreth Ernest M. Sharp Thomas Lee Suddreth Michael Allan McGlasson Carol Groves AMP Fund II, LP Deanna L. Weese Gary Alan Listoe Lorraine E. Gildenhorn James C. Pierce, Jr. Jan B. Crawford Julie K. Walsh Don Leroy Pierce Kathleen McCluskey Christopher Scott Power Beverly J. Collins Sandra Gail Stevens, nee Power Harold Hunt Power Trust U/A/D 7/29/2004 Antero Minerals, LLC	
95	Harry R & Vonda K Galloop	BRC Appalachian Minerals I, LLC	1-17-16
96	George A Sabol & Cristina A Zettel	Norma Long, widow Shirley A. Lohr	1-17-17

12/17/2021

	SURFACE OWNER	LESSOR	PIN
100A	Ronald & Frances Hurst	Margaret E. Doak	1-17-24.1
		Robert L. Doak and Aline Doak, h/w	
		Donna Jean Long	
		Waco Oil and Gas Co., Inc.	
		Norma Long, widow	
100B	Charles M Young Jr & Crystal R Young	Margaret E. Doak	1-17-24
		Robert L. Doak and Aline Doak, h/w	
		Donna Jean Long	
		Waco Oil and Gas Co., Inc.	
		Norma Long, widow	
101A	Ralph Paul McCutchan (Life)	Margaret C. Nied	1-18-11
		Helen C. Dahle	
		James P. Cullinan	
		Mary C. Schilling Trust – 2010, by Keith Schilling, Trustee	
		William Paul McCutchan and Virginia B. McCutchan	
		Kathleen Bradford Upton	
		William Warren Upton and Frances J. Upton, H/W	
		Marie L. Bradford, widow and heir under the Last Will and Testament of James Perry Bradford	
108	Jean Hayes	Star Furniture Company of West Union	1-17-30.1
		Teresa Rush and Ronal Rush, W/H	
109B	Kevin L Kelley & Lynne A Kelley	Teresa Rush and Ronal Rush, W/H	1-17-30
110A	James R & Tricia Mushinsky	Ina M. Montgomery, AIF, for Leslie E. Montgomery and Ina M. Montgomery, H/W	1-20-6.2
		Mildred M. Stevens, widow and Cleryl B. Ash, Sr., single	
		Sam Horton and Carol Horton, H/W, Frank Butler and Molly Butler, H/W, Edward Mullooly, single	
		Ralph Thacker and Betty Thacker, H/W, J. Maurice Carlisle and Mary Ann Carlisle, H/W	
		Kenneth R. Mason and Jennifer L. Mason, H/W	
112	Lonnie C James	Lillie M. Shepherd	1-2-5
		Allegheny Land and Mineral Company	
		The Union National Bank as Trustee for Truman E. Gore and C. Burke Morris, u/a dtd. 8/25/1966	
113	Charter D Stinespring & Victor Goff Stinespring	David Allen Bess, aka David A. Bess	1-2-1.1
		Shirley Lohr	
		Charter D. Stinespring II and Stephanie Stinespring, H/W	
		Victor Goff Stinespring and Pamela R. Stinespring, H/W	
114	Victor Goff Stinespring, Charter D Stinespring	Sonya Rickel and Joe Rickel Jr. W/H	1-2-1
114	Victor Stinespring et ux	Charlotte Bryant and Ervin Bryant, W/H	1-2-1.2
		Garrett G. Pyles	
		Janice Phelps and Harry Phelps, W/H	
		Robert F. Pratt and Glenna Z. Pratt, H/W	
		Kenneth E. Pratt and Laura L. Pratt, H/W	
		Janet P. Tinkham and Elwin I. Tinkham, W/H	
		Allen Pratt and Patricia Pratt, H/W	
		Jean Cole and Robert L. Cole, W/H	
		Dorothy A. Greenwood and Malcolm Greenwood, W/H	
		Margaret R. Mead and Richard F. Mead, W/H	
		Mary J. Borer and Donald E. Borer, W/H	
		Kenneth M. Wagner and Mary A. Wagner, H/W	
		John Paladino	
		Patty Lou Fox and Harry R. Fox, W/H	
		Robert D. L. Doak	
		Ida Bower	
		Jack Coffindaffer and Janice Lee Coffindaffer, H/W	
		Esther Doak	
		Virginia McBee and Robert McBee, W/H	
		Karen Y. Meiter and Robert Lynn Meiter, W/H	
		Paul Wagner and Joan Wagner, H/W	
		Leona Smith and John Smith, W/H	
		Sylvia Knowleton and Clee Knowleton, W/H	
		Ruth M. Hubbard	
		Ina M. Wagner	
		Juliana M. Moore	
		Gussie Devoll	
		Martha Moore Hanson and Peter S. Hanson, W/H	
		Vonda Wagner	
		Wayne Kellar and Peggy Kellar, H/W, aka Wayne Kellar and Margaret H. Kellar, H/W	
		Catherine Moore	
		C. H. Wagner and Olive Irene Wagner, H/W	
		Darryl Pratt	
		Mary D. Southern	

12/17/2021



API WELL NO 47 - 095 - 02770
STATE COUNTY PERMIT

	SURFACE OWNER	LESSOR	PIN
		Wilda Doak Beverly Delancey and Eleanor Knight and Stanford Knight, W/H and James W. Ash and Hazel Ash, H/W, Lelia Washburn, Charlene Smith and George Smith, W/H, and Barbara Thalrose and Harold Thalrose, W/H Theresa Pratt Sherry Lynn Quay	
117	Lonnie C James	Mrs. Sylvia Wulfert, Ruby Hunt, Mr. Lynn Wulfert U. G. Summers Estate: William G. Summers and Kathryn Summers, H/W, Hector Keith Summers, Pauline Summers, Kathleen Clara Summers U. G. Summers Estate: William G. Summers and Kathryn Summers, H/W, Hector Keith Summers, Pauline Summers, Kathleen Clara Summers Lorena G. Hammer Ardena Kay Rienstra EIGG Land Limited Robert Swearingen Sandra Swearingen Charles W. Hendrickson and Elizabeth Hendrickson Terry L. Snider Martha Ann Hanes Mary Garland Hanes Nicholas Osborne Hanes Barbara G. Clark Donald Reynolds, aka Donald R. Reynolds Ronald Glenn Hurst James Lee Hurst, Sr. Pamela Sue Summers Kathy Mae Fenstermaker David Leroy Gray David Charles Hurst Westlake Energy Partners, LLC Cynthia Gray Linda Sue Oxendine Tina Hurst Kitty Ann Sams Catherine L. Snider Barbara L. Wilson Aunix Acquisition Fund, LLC Harold Wayne Hurst, aka H. Wayne Hurst Rodney Gale Smith Sandra S. DiGiacobbe fka Sandra S. Hurst and Ronald D. DiGiacobbe, W/H Angela Fay Miller Rebecca Ann Goff Stephen Duane Jackson Jeffery Allen Hurst Richard Duane Hurst Ed Broome, Inc. Gwendalyn Rae Swartzfager fka Gwendalyn Rae Rose Mark Allen Jackson and Andrea Jackson, H/W Jennifer Lee Harris Jack Lee Smith and Cyndi Smith, H/W Norman L. Jackson Annette N. Davis and David A. Davis Ruth Ann Nicholson Maria Alexandrovna Stihary aka Maria Alexandrovna Standafer Warren Scott Standafer Testamentary Trust Michael Keith Gearhart Brian Phillip Gearhart Joseph Edward Gearhart Jason Alan Gearhart Melanie Faith Gearhart Donald Wayne Hurst, Jr. Vicki Dean aka Vicki Darlene Kriner Glenn Richard Gray Bruce Patrick Smith Jamie Lynn Munn Larry Arden Hurst Donald Allen Hurst	1-4-6
118	Antero Midstream LLC	Cisco Dotson and Lola B. Dotson, his wife; and Isiah S. Dotson	1-2-6
125A	James E Shepard II	James E. Shepherd, II	1-4-1.1
125B	James E Shepard II	James E. Shepherd II	1-4-1.2
125C	Michael Shepard	Michael Shepherf and Diane E. Shepherd H/W	1-4-1.3
126	West Virginia Department of Transportation, Division of Highways	West Virginia Department of Transportation, Division of Highways	Unknown
127A	Michael Shepard	Susan Swentzel Lytle	1-4-11.1
127A	Timothy R Shepard II	Sandra Jo Evenson The Max G. Karshner and Lois D. Karshner Revocable Living Trust dated 5/29/2009, by Max G. Karshner and Lois D. Karshner, Trustees Keely A. Carabin Cheryl Overmeyer Samuel Curtis Graves Guy T. Pigott, Jr. Marcia L. Todd Barbara Shipley	1-4-11.2

12/17/2021

SURFACE OWNER		LESSOR	PIN
		Dorothy A. Pigott, aka Dorothy A. Beck, aka Dorothy P. Hileman Norma J. Simon and George P. Simon, by his AIF, Norma J. Simon Dorothy A. Pigott, AIF for Lucia C. Anderson nee Pigot, Carolyn D. Erambert nee Pigot, Janet W. Coffman nee Pigott June Pigott Hickel Antero Resources Appalachian Corporation Antero Resources Corporation K. Clark Swentzel Judy L. Frashure Walter S. Stout Ann Stout Newman William P. Stout, Jr. Tony V. James Melissa S. Cutter Robert B. James Frances Lorena Swentzel, by her attorney-in-fact, Cheryl Lynn Meredith Eugene Vance Chipps, II	
128	Michael Shepard	Susan Swentzel Lytle	1-4-11.1
		Sandra Jo Evenson The Max G. Karshner and Lois D. Karshner Revocable Living Trust dated 5/29/2009, by Max G. Karshner and Lois D. Karshner, Trustees Keely A. Carabin Cheryl Overmeyer Samuel Curtis Graves Guy T. Pigott, Jr. Marcia L. Todd Barbara Shipley Dorothy A. Pigott, aka Dorothy A. Beck, aka Dorothy P. Hileman Norma J. Simon and George P. Simon, by his AIF, Norma J. Simon Dorothy A. Pigott, AIF for Lucia C. Anderson nee Pigot, Carolyn D. Erambert nee Pigot, Janet W. Coffman nee Pigott June Pigott Hickel K. Clark Swentzel Judy L. Frashure Walter S. Stout Ann Stout Newman William P. Stout, Jr. Tony V. James Melissa S. Cutter Robert B. James Tamara C. Marquardt Timothy Russell Beckwith, fka James Russell Wamsley, Jr., aka Tim "Butch" Beckwith Black Gold Group, Ltd. Frances Lorena Swentzel, by her attorney-in-fact, Cheryl Lynn Meredith Eugene Vance Chipps, II Nicholas R. Wamsley Glen W. Hawk, fka Glen W. Wamsley and Heather J. Hawk, H/W Edwin L. Winemiller aka Edwin L. Winemiller, Jr. and Angelina C. Winemiller, H/W Carolyn Sue Wilkes Judy P. Cole Chelsea Rose Seiller Nancy Sue Clark and Grady O. Clark, W/H Charles R. LeMasters, Jr. James E. Lemasters Jason Seiller	
130B	Carlie James	Carlie James	1-4-2
		Susan Dankel Wanda Zeitler Stearns Beverly Lorraine Kvochick, fka Beverly Lorraine Blake, Beverly Lorraine Dillon and Beverly Lorraine Bryan Charles Alvin Blake Trustees of the First United Methodist Church, Williamstown,	12/17/2021
130F	Carlie James	Carlie James	1-4-2
		Susan Dankel Wanda Zeitler Stearns	

	SURFACE OWNER	LESSOR	PIN
		Beverly Lorraine Kvochick, fka Beverly Lorraine Blake, Beverly Lorraine Dillon and Beverly Lorraine Bryan Charles Alvin Blake Trustees of the First United Methodist Church, Williamstown, West Virginia, aka First Williamstown United Methodist Church	
141	Carlie James	West Virginia Department of Transportation, Division of Highways	1-4-2 1-4-5

12/17/2021

LATITUDE 39° 22' 30" TH: 3,530'

LATITUDE 39° 20' 00" BH: 1,265'

LONGITUDE 80° 52' 30" BH: 4,705'

TH: 7,825'

LONGITUDE 80° 50' 00"

SHR37MHSM
CNX Gas Company LLC



- NOTES ON SURVEY**
- COORDINATES SYSTEM IS UTM, HAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
 - SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
 - THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 - THERE IS AN EXISTING HOUSE AND BUILDINGS WITHIN 625 FEET OF PROPOSED WELL.
 - THERE ARE WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
 - NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
 - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

- LEGEND**
- Active Well Location
 - Proposed Well Location
 - Abandoned Well
 - Permit Issued
 - Lease Number
 - Proposed Gas Well
 - Located Corner, as noted
 - County Line
 - Surface Tract Lines
 - Reference Line
 - Lease Boundary
 - Creek or Drain
 - WV County Route
 - WV State Route

See Page 3 For Surface Owners and Lessors

(*) Denotes Location of Well on United States Topographic Maps

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

L.L.S.
L. L. S. 687



SEAL

FILE NO:
DRAWING NO:
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: SG-GPS (OPUS)

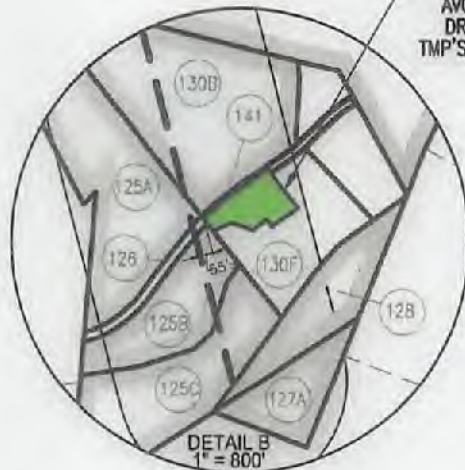
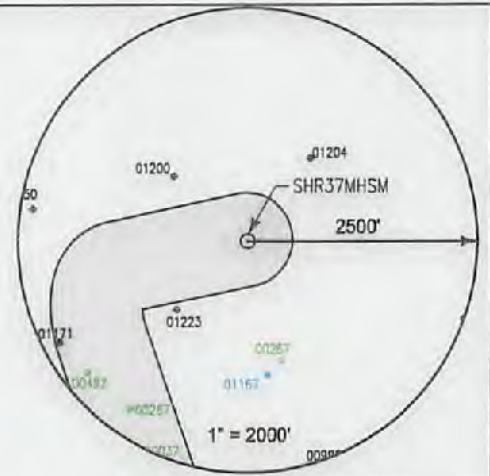
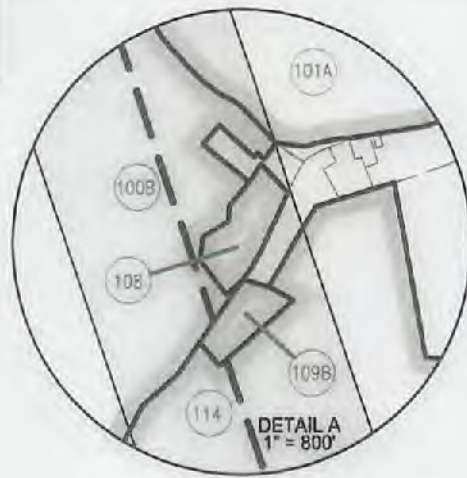


DATE: November 03 20 21
OPERATORS WELL NO: SHR37MHSM
API WELL NO: 46A
47 - 095 - 02770
STATE COUNTY PERMIT

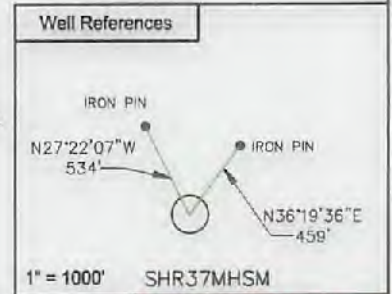
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION ELEVATION: 828' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union, WV 7.5'
DISTRICT: Centerville COUNTY: Tyler
SURFACE OWNER: CNX Gas Company LLC ACREAGE: 18 ±
ROYALTY OWNER: Eleanor V. & Dean A. Earnheart, et al. LEASE NO: 269278000 ACREAGE: 720.525 ±
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: TVD: 6,302'
WELL OPERATOR: CNX Gas Company LLC DESIGNATED AGENT: Anthony Kendziora
ADDRESS: 1000 Consol Energy Drive ADDRESS: 1000 Consol Energy Drive
Canonsburg, PA 15317 Canonsburg, PA 15317

12/17/2021

SHR37MHSM
CNX Gas Company LLC



ADVERSE TRACTS TO AVOID DURING DRILLING OPERATIONS
TMP'S 01-4-3 & 01-4-4



SURFACE HOLE LOCATION (SHL)	
UTM 17 NAD 83	
N:	4356019.448
E:	513284.082
NAD 83, WV NORTH	
N:	313725.319
E:	1587952.064
LAT/LON DATUM NAD 83	
LAT:	39°21'12.667"
LOX:	80°50'44.951"
LANDING POINT	
UTM 17 NAD 83	
N:	4356675.936
E:	512814.500
NAD 83, WV NORTH	
N:	312623.791
E:	1586392.372
LAT/LON DATUM NAD 83	
LAT:	39°21'01.549"
LOX:	80°51'04.594"

SHR 37 WELL PAD		BOTTOM HOLE LOCATION (BHL)	
		UTM 17 NAD 83	
		N: 4352347.262	
		E: 513980.682	
		NAD 83, WV NORTH	
		N: 301638.755	
		E: 1590036.948	
LAT/LON DATUM NAD 83		LAT: 39°19'13.506"	
		LOX: 80°50'16.119"	



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

L. L. S.

L. L. S. 687



SEAL

FILE NO:
DRAWING NO:
SCALE: 1" = 1000'
MINIMUM DEGREE OF ACCURACY:
1:2500
PROVEN SOURCE OF ELEVATION:
NGS CORS Station



DATE: November 03 20 21
OPERATORS WELL NO: SHR37MHSM
API WELL NO: 47 - 095 - 02770
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION ELEVATION: 828' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union, WV 7.5'
DISTRICT: Centerville COUNTY: Tyler

SURFACE OWNER: CNX Gas Company LLC ACREAGE: 18 ±
ROYALTY OWNER: Eleanor V. & Dean A. Earnheart, et al. LEASE NO: 269278000 ACREAGE: 720.525 ±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: TVD: 6,302'

WELL OPERATOR: CNX Gas Company LLC DESIGNATED AGENT: Anthony Kendziora
ADDRESS: 1000 Consol Energy Drive ADDRESS: 1000 Consol Energy Drive
Canonsburg, PA 15317 Canonsburg, PA 15317

12/17/2021

	SURFACE OWNER	LESSOR	PIN
1	CNX Gas Company LLC	Eleanor V. Earnheart and Dean A. Earnheart, her husband	1-17-5
		Ciella Boice, widow	
		Luella I. McConnell, widow	
		Agnes Godwin, widow	
		Nancy P. McClain and Ralph E. McClain, wife and husband	
		Georgia P. Snyder, divorced	
		Bradie Pipes and Goldie Pipes, his wife	
		Pursie Pipes and Norma J. Pipes, husband and wife	
		Dorothy Belle Wells and Byron Wells, her husband	
		Wanda Weekley, widow	
		Myrna Morgan and David Morgan, her husband	
2	Gail Williamson	Eleanor V. Earnheart and Dean A. Earnheart, her husband	1-17-6
		Ciella Boice, widow	
		Luella I. McConnell, widow	
		Agnes Godwin, widow	
		Nancy P. McClain and Ralph E. McClain, wife and husband	
		Georgia P. Snyder, divorced	
		Bradie Pipes and Goldie Pipes, his wife	
		Pursie Pipes and Norma J. Pipes, husband and wife	
		Dorothy Belle Wells and Byron Wells, her husband	
		Wanda Weekley, widow	
		Myrna Morgan and David Morgan, her husband	
		Reva D. Rowland, aka Reva Rowland and Ronelid Royce Rowland	
3A	West Virginia Division of Natural Resources	West Virginia Division of Natural Resources	Middle Island Creek
4A	James R Sr. & James R Jr. Underwood & Mitzie Johnson	Mattie Dotson Flint	1-17-12.1
		Aris Hope Jack Parker, AIF for Colen C. Jack	
		Linda K. Bright, aka Linda Bright	
		Viola M. Trenton, aka, Viola Trenton	
		Judy Schillace and Nicholas Schillace, W/H	
		William Christopher Taylor and Cynthia Taylor, H/W	
		Maryless Haymond and Floyd Haymond, W/H	
		Gayla A. Beech, fka, Gayla A. Hickman	
		Helen Louise Hickman, a/k/a Helen L. Hickman, fka Helen Louise Leasure, by her AIF, Frances Louise Bunner, aka Frances L. Bunner	
		Ruby Newlon	
		Cheryl L. Tadsen, fka Cheryl L Gill and James F. Tadsen, W/H	
		Barbara J. Davis, aka Barbara Davis	
		Cindy A. Gill, aka Cynthia Ann Gill	
		David M. Gill, aka David Michael Gill and Catherine J. Gill, aka Cathy Gill, H/W	
		Terry R. Washburn, aka Terry Washburn and Joy D. Washburn, H/W	
		Jean Kuchenbecker, aka, Nellie Jean Kuchenbecker, fka Nellie Jean Hickman and William Kuchenbecker, W/H	
		James Albert Taylor	
		Judy Webb, fka, Judy Newbrough	
		Cledith H. Davis	
		Linda L. Catona, fka Linda L. Sellers	
		B. Pauline Murphy, fka B. Pauline Moore	
		Denver Hickman	
		Delmas Hickman	
		Donna D. Hart	
		Howard W. Smith, aka Bill Smith	
		Amanda L. Davis	
		Connie Sue Maxwell and Michael Mayne Maxwell, W/H	
		Alex Craig Smith, aka Alex C. Smith and Bobbie Smith, H/W	
		Eric Scott Smith	
		William Gene Stone	
		Emerson C. Davis, II	
		Theodore K. Davis and Jill Davis, H/W	
		Michael P. Davis	
		Martha Jill Holliday	
		Juli Edith Germany	
		Kimberly Wilcox and Danny Wilcox, W/H	
		Matthew Storm	
		Shirley L. Urbanowicz, aka Shirley L. Quinn, fka, Shirley L. Hickman and John Quinn, W/H	
		Deanna Zirkelbach, fka Deanna Stamper and Tommy Zirkelbach, W/H	
		Ronald Sessle	
5A	James R Sr. & James R Jr. Underwood & Mitzie Johnson	Sarah E. Doak, Austin Doak, and Myrtle E. Doak, H/W, Dorsey Doak and Sarah E. Doak, H/W, Oliver A. Doak, Kirby D. Doak, Ida Lemasters and Elzy Lemasters, W/H, Myrtle White and Jasper White, W/H	1-17-12.1
		Tribune Resources Minerals, LLC, fka Ascent Resources Marcellus Minerals, LLC	
7	Anita K Elkins & Mark B Gooch	BRC Appalachian Minerals I LLC	1-17-14
		Norma Long, widow	
		J&N Management Enterprises, LLC	

12/17/2021

API WELL NO **H6A**
47 - 095 - **02770**
STATE COUNTY PERMIT

	SURFACE OWNER	LESSOR	PIN
10	Elden L Pratt & Christine Lasure	Artis Hope Jack Parker, AIF for Colen C. Jack	1-15-38
10	Timothy R Pratt		1-15-39
10	Elden L Pratt, Dean Rodney & Timothy Ray Pratt		1-17-11
10	Thomas D Snyder II & Connie S Snyder		1-17-11.1
10	Rodney D Pratt		1-17-11.2
10	Wayne C Mumbauer & Ronda Mumbauer		1-17-11.3
10	Wayne C Mumbauer & Ronda G Mumbauer		1-17-11.4
10	State of West Virginia		1-17-11.5
10	Forrest G Powell		1-17-11.6
10	Roger L Williams & Marjorie P Williams		1-17-11.7
10	Jason L Pratt & Rebecca M Pratt		1-17-11.8
92A	Samuel V Ash & Denise Rule	A.E. Doak and Callie Doak	1-17-4
93A	Shirley J Bemby	Ancel Doak and Flora Doak, H/W Goldie McKittrick, widow	1-17-15.2
94	George W Ash	Donna J. Griffith and Jacob Paul Griffith	1-17-13
		Peggy A. Bumpass	
		Laura Jean Suddreth	
		Michael R. Burk	
		Janet Cliff Pitts	
		Paul Conger and Mary Conger	
		Debbie Hileman and Mark A. Hileman	
		Jeffrey A. James and Maria J. James	
		William Patrick James and Dianne James	
		Pamela Fern Friedman	
		Dwight Eugene Sturm	
		Anna Colleen Presley aka Colleen Presley	
		Patrida G. Doty	
		Philip Wayne Sturm	
		Lisa Schafer	
		Carol Elaine Higgins and Everett Higgins aka Everett W. Higgins	
		Michael James and Vicky L. James	
		Doris J. Bee and Livingstone S. Bee	
		Jill Robin Thompson and Kelvin Thompson	
		Jock Jeffrey Pitts aka Jock J. Pitts and Deborah M. Pitts	
		David Eugene Bersebach	
		Judith Adams fka Judith Diane Poling and Clifford Adams	
		Denise Gambill aka Denis K. Gambill	
		Gregory R. Mercer	
		James W. Schumacher and Lisa B. Schumacher	
		Larry O. Schumacher and Kathleen M. Schumacher	
		Lori Hufstedler	
		Mary Jane Schumacher	
		Bryan Bumgarner and Lisa D. Bumgarner	
		Patricia Ruth Heater, By Paul Eugene Heater, Jr. POA	
		Sheryl Groves	
		Waco Oil and Gas Co., Inc.	
		Gregory Sellers aka Greg Sellers and D. Lee Seller	
		James Lindsey	
		Betty Lewis and Douglas C. Lewis	
		Robert Groves and Carol J. Groves	
		Ann Adel Gosney	
		Kimberley Abrecht fka Kimberly Gene Pitts	
		C. Gloria Atkinson aka Gloria Atkinson and Charles W. Atkinson	
		Matthew Pitts	
		Boda Family Trust, by Margaret E. Boda, Co-Trustee by Wanda L. Boda, POA and Wand L. Boda Co-Trustee	
		Kathryn Stephens	
		Nicholas R. Lucas	
		Tyler Pitts	
		Linda J. Franz	
		Terri Ann Suddreth	
		Ernest M. Sharp	
		Thomas Lee Suddreth	
		Michael Allan McGlasson	
		Carol Groves	
		AMP Fund II, LP	
		Deanna L. Weese	
		Gary Alan Listoe	
		Lorraine E. Gildenhorn	
		James C. Pierce, Jr.	
		Jan B. Crawford	
		Julie K. Walsh	
		Don Leroy Pierce	
		Kathleen McCluskey	
		Christopher Scott Power	
		Beverly J. Collins	
		Sandra Gail Stevens, nee Power	
		Harold Hunt Power Trust U/A/D 7/29/2004	
		Antero Minerals, LLC	
95	Harry R & Vonda K Galloop	BRC Appalachian Minerals I, LLC	1-17-16
96	George A Sabol & Cristina A Zettel	Norma Long, widow	1-17-17
		Shirley A. Lohr	

12/17/2021



API WELL NO H6A
47 - 095 - 02770
STATE COUNTY PERMIT

	SURFACE OWNER	LESSOR	PIN
100A	Ronald & Frances Hurst	Margaret E. Doak	1-17-24.1
		Robert L. Doak and Aline Doak, h/w	
		Donna Jean Long	
		Waco Oil and Gas Co., Inc.	
		Norma Long, widow	
100B	Charles M Young Jr & Crystal R Young	Margaret E. Doak	1-17-24
		Robert L. Doak and Aline Doak, h/w	
		Donna Jean Long	
		Waco Oil and Gas Co., Inc.	
		Norma Long, widow	
101A	Ralph Paul McCutchan (Life)	Margaret C. Nied	1-18-11
		Helen C. Dahle	
		James P. Cullinan	
		Mary C. Schilling Trust – 2010, by Keith Schilling, Trustee	
		William Paul McCutchan and Virginia B. McCutchan	
		Kathleen Bradford Upton	
		William Warren Upton and Frances J. Upton, H/W	
		Marie L. Bradford, widow and heir under the Last Will and Testament of James Perry Bradford	
108	Jean Hayes	Star Furniture Company of West Union	1-17-30.1
		Teresa Rush and Ronal Rush, W/H	
109B	Kevin L Kelley & Lynne A Kelley	Teresa Rush and Ronal Rush, W/H	1-17-30
110A	James R & Tricia Mushinsky	Ina M. Montgomery, AIF, for Leslie E. Montgomery and Ina M. Montgomery, H/W	1-20-6.2
		Mildred M. Stevens, widow and Cleryl B. Ash, Sr., single	
		Sam Horton and Carol Horton, H/W, Frank Butler and Molly Butler, H/W, Edward Mullooly, single	
		Ralph Thacker and Betty Thacker, H/W, J. Maurice Carlisle and Mary Ann Carlisle, H/W	
		Kenneth R. Mason and Jennifer L. Mason, H/W	
112	Lonnie C James	Lillie M. Shepherd	1-2-5
		Allegheny Land and Mineral Company	
		The Union National Bank as Trustee for Truman E. Gore and C. Burke Morris, u/a dtd. 8/25/1966	
113	Charter D Stinespring & Victor Goff Stinespring	David Allen Bess, aka David A. Bess	1-2-1.1
		Shirley Lohr	
		Charter D. Stinespring II and Stephanie Stinespring, H/W	
		Victor Goff Stinespring and Pamela R. Stinespring, H/W	
114	Victor Goff Stinespring, Charter D Stinespring	Sonya Rickel and Joe Rickel Jr. W/H	1-2-1
114	Victor Stinespring et ux	Charlotte Bryant and Ervin Bryant, W/H	1-2-1.2
		Garrett G. Pyles	
		Janice Phelps and Harry Phelps, W/H	
		Robert F. Pratt and Glenna Z. Pratt, H/W	
		Kenneth E. Pratt and Laura L. Pratt, H/W	
		Janet P. Tinkham and Elwin I. Tinkham, W/H	
		Allen Pratt and Patricia Pratt, H/W	
		Jean Cole and Robert L. Cole, W/H	
		Dorothy A. Greenwood and Malcolm Greenwood, W/H	
		Margaret R. Mead and Richard F. Mead, W/H	
		Mary J. Borer and Donald E. Borer, W/H	
		Kenneth M. Wagner and Mary A. Wagner, H/W	
		John Paladino	
		Patty Lou Fox and Harry R. Fox, W/H	
		Robert D. L. Doak	
		Ida Bower	
		Jack Coffindaffer and Janice Lee Coffindaffer, H/W	
		Esther Doak	
		Virginia McBee and Robert McBee, W/H	
		Karen Y. Meiter and Robert Lynn Meiter, W/H	
		Paul Wagner and Joan Wagner, H/W	
		Leona Smith and John Smith, W/H	
		Sylvia Knowleton and Clee Knowleton, W/H	
		Ruth M. Hubbard	
		Ina M. Wagner	
		Juliana M. Moore	
		Gussie Devoll	
		Martha Moore Hanson and Peter S. Hanson, W/H	
		Vonda Wagner	
		Wayne Kellar and Peggy Kellar, H/W, aka Wayne Kellar and Margaret H. Kellar, H/W	
		Catherine Moore	
		C. H. Wagner and Olive Irene Wagner, H/W	
		Darryl Pratt	
		Mary D. Southern	

12/17/2021



API WELL NO 47 - 095 - 46A - 02710
STATE COUNTY PERMIT

SURFACE OWNER		LESSOR	PIN
		Wilda Doak Beverly Delancey and Eleanor Knight and Stanford Knight, W/H and James W. Ash and Hazel Ash, H/W, Lelia Washburn, Charlene Smith and George Smith, W/H, and Barbara Thalrose and Harold Thalrose, W/H Theresa Pratt Sherry Lynn Quay	
117	Lonnie C James	Mrs. Sylvia Wulfert, Ruby Hunt, Mr. Lynn Wulfert U. G. Summers Estate: William G. Summers and Kathryn Summers, H/W, Hector Keith Summers, Pauline Summers, Kathleen Clara Summers U. G. Summers Estate: William G. Summers and Kathryn Summers, H/W, Hector Keith Summers, Pauline Summers, Kathleen Clara Summers Lorena G. Hammer Ardenna Kay Rienstra EIGG Land Limited Robert Swearingen Sandra Swearingen Charles W. Hendrickson and Elizabeth Hendrickson Terry L. Snider Martha Ann Hanes Mary Garland Hanes Nicholas Osborne Hanes Barbara G. Clark Donald Reynolds, aka Donald R. Reynolds Ronald Glenn Hurst James Lee Hurst, Sr. Pamela Sue Summers Kathy Mae Fenstermaker David Leroy Gray David Charles Hurst Westlake Energy Partners, LLC Cynthia Gray Linda Sue Oxendine Tina Hurst Kitty Ann Sams Catherine L. Snider Barbara L. Wilson Aunix Acquisition Fund, LLC Harold Wayne Hurst, aka H. Wayne Hurst Rodney Gale Smith Sandra S. DiGiacobbe fka Sandra S. Hurst and Ronald D. DiGiacobbe, W/H Angela Fay Miller Rebecca Ann Goff Stephen Duane Jackson Jeffery Allen Hurst Richard Duane Hurst Ed Broome, Inc. Gwendalyn Rae Swartzfager fka Gwendalyn Rae Rose Mark Allen Jackson and Andrea Jackson, H/W Jennifer Lee Harris Jack Lee Smith and Cyndi Smith, H/W Norman L. Jackson Annette N. Davis and David A. Davis Ruth Ann Nicholson Maria Alexandrovna Stihary aka Maria Alexandrovna Standafer Warren Scott Standafer Testamentary Trust Michael Keith Gearhart Brian Phillip Gearhart Joseph Edward Gearhart Jason Alan Gearhart Melanie Falth Gearhart Donald Wayne Hurst, Jr. Vicki Dean aka Vicki Darlene Kriner Glenn Richard Gray Bruce Patrick Smith Jamie Lynn Munn Larry Arden Hurst Donald Allen Hurst	1-4-6
118	Antero Midstream LLC	Cisco Dotson and Lola B. Dotson, his wife; and Isiah S. Dotson	1-2-6
125A	James E Shepard II	James E. Shepherd, II	1-4-1.1
125B	James E Shepard II	James E. Shepherd II	1-4-1.2
125C	Michael Shepard	Michael Shepherd and Diane E. Shepherd H/W	1-4-1.3
126	West Virginia Department of Transportation, Division of Highways	West Virginia Department of Transportation, Division of Highways	Unknown
127A	Michael Shepard	Susan Swentzel Lytle	1-4-11.1
127A	Timothy R Shepard II	Sandra Jo Evenson	1-4-11.2
		The Max G. Karshner and Lois D. Karshner Revocable Living Trust dated 5/29/2009, by Max G. Karshner and Lois D. Karshner, Trustees Keely A. Carabin Cheryl Overmeyer Samuel Curtis Graves Guy T. Pigott, Jr. Marcia L. Todd Barbara Shipley	

12/17/2021

	SURFACE OWNER	LESSOR	PIN
		Dorothy A. Pigott, aka Dorothy A. Beck, aka Dorothy P. Hileman Norma J. Simon and George P. Simon, by his AIF, Norma J. Simon	
		Dorothy A. Pigott, AIF for Lucia C. Anderson nee Pigot, Carolyn D. Erambert nee Pigot, Janet W. Coffman nee Pigott	
		June Pigott Hickel	
		Antero Resources Appalachian Corporation	
		Antero Resources Corporation	
		K. Clark Swentzel	
		Judy L. Frashure	
		Walter S. Stout	
		Ann Stout Newman	
		William P. Stout, Jr.	
		Tony V. James	
		Melissa S. Cutter	
		Robert B. James	
		Frances Lorena Swentzel, by her attorney-in-fact, Cheryl Lynn Meredith	
		Eugene Vance Chipps, II	
128	Michael Shepard	Susan Swentzel Lytle	1-4-11.1
		Sandra Jo Evenson	
		The Max G. Karshner and Lois D. Karshner Revocable Living Trust dated 5/29/2009, by Max G. Karshner and Lois D. Karshner, Trustees	
		Keely A. Carabin	
		Cheryl Overmeyer	
		Samuel Curtis Graves	
		Guy T. Pigott, Jr.	
		Marcia L. Todd	
		Barbara Shipley	
		Dorothy A. Pigott, aka Dorothy A. Beck, aka Dorothy P. Hileman	
		Norma J. Simon and George P. Simon, by his AIF, Norma J. Simon	
		Dorothy A. Pigott, AIF for Lucia C. Anderson nee Pigot, Carolyn D. Erambert nee Pigot, Janet W. Coffman nee Pigott	
		June Pigott Hickel	
		K. Clark Swentzel	
		Judy L. Frashure	
		Walter S. Stout	
		Ann Stout Newman	
		William P. Stout, Jr.	
		Tony V. James	
		Melissa S. Cutter	
		Robert B. James	
		Tamara C. Marquardt	
		Timothy Russell Beckwith, fka James Russell Wamsley, Jr., aka Tim "Butch" Beckwith	
		Black Gold Group, Ltd.	
		Frances Lorena Swentzel, by her attorney-in-fact, Cheryl Lynn Meredith	
		Eugene Vance Chipps, II	
		Nicholas R. Wamsley	
		Glen W. Hawk, fka Glen W. Wamsley and Heather J. Hawk, H/W	
		Edwin L. Winemiller aka Edwin L. Winemiller, Jr. and Angelina C. Winemiller, H/W	
		Carolyn Sue Wilkes	
		Judy P. Cole	
		Chelsea Rose Seiller	
		Nancy Sue Clark and Grady O. Clark, W/H	
		Charles R. LeMasters, Jr.	
		James E. Lemasters	
		Jason Seiller	
130B	Carlie James	Carlie James	1-4-2
		Susan Dankel	
		Wanda Zeitler Stearns	
		Beverly Lorraine Kvochick, fka Beverly Lorraine Blake, Beverly Lorraine Dillon and Beverly Lorraine Bryan	
		Charles Alvin Blake	
		Trustees of the First United Methodist Church, Williamstown,	
130F	Carlie James	Carlie James	1-4-2
		Susan Dankel	
		Wanda Zeitler Stearns	

12/17/2021

	SURFACE OWNER	LESSOR	PIN
		Beverly Lorraine Kvochick, fka Beverly Lorraine Blake, Beverly Lorraine Dillon and Beverly Lorraine Bryan Charles Alvin Blake Trustees of the First United Methodist Church, Williamstown, West Virginia, aka First Williamstown United Methodist Church	
141	Carlie James	West Virginia Department of Transportation, Division of Highways	1-4-2 1-4-5

12/17/2021

**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
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See attached

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Environmental Protection

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

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

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

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

Well Operator: CNX GAS COMPANY LLC
 By: Sarah Weigand *Sarah Weigand*
 Its: Manager Upstream Permitting

NOV 19 2021

WV Department of
Environmental Protection

Attachment - Form WW-6A-1 for SHR37MHSM						
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
1	1-17-5	269278000	Eleanor V. Earnheart and Dean A. Earnheart, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/74
			Clella Boice, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/76
			Luella I. McConnell, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/78
			Agnes Godwin, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/80
			Nancy P. McClain and Ralph E. McClain, wife and husband	Sefco Enterprises, Inc.	Not less than 1/8	267/82
			Georgia P. Snyder, divorced	Sefco Enterprises, Inc.	Not less than 1/8	267/84
			Bradley Pipes and Goldie Pipes, his wife	Sefco Enterprises, Inc.	Not less than 1/8	267/86
			Pursie Pipes and Norma J. Pipes, husband and wife	Sefco Enterprises, Inc.	Not less than 1/8	267/88
			Dorothy Belle Wells and Byron Wells, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/90
			Wanda Weekley, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/98
			Myrna Morgan and David Morgan, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/640
			Sefco Enterprises, Inc.	Eastern American Energy Corporation	Assignment	285/650
			Eastern American Energy Corporation	Seneca-Upshur Petroleum, Inc.	Assignment	354/757
			Seneca-Upshur Petroleum, Inc.	Seneca-Upshur Petroleum, LLC	Assignment	381/540
			Seneca-Upshur Petroleum, LLC	Antero Resources Appalachian Corporation	Assignment	402/132
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	WVSOS
			Antero Resources Corporation	CNX Gas Company, LLC & Noble Energy Inc.	Assignment	425/701
						427/564
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
2	1-17-6	266300000	Eleanor V. Earnheart and Dean A. Earnheart, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/74
			Clella Boice, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/76
			Luella I. McConnell, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/78
			Agnes Godwin, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/80
			Nancy P. McClain and Ralph E. McClain, wife and husband	Sefco Enterprises, Inc.	Not less than 1/8	267/82
			Georgia P. Snyder, divorced	Sefco Enterprises, Inc.	Not less than 1/8	267/84
			Bradley Pipes and Goldie Pipes, his wife	Sefco Enterprises, Inc.	Not less than 1/8	267/86
			Pursie Pipes and Norma J. Pipes, husband and wife	Sefco Enterprises, Inc.	Not less than 1/8	267/88
			Dorothy Belle Wells and Byron Wells, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/90
			Wanda Weekley, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/98
			Myrna Morgan and David Morgan, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/640
			Sefco Enterprises, Inc.	Eastern American Energy Corporation	Assignment	285/650
			Eastern American Energy Corporation	Seneca-Upshur Petroleum, Inc.	Assignment	354/757
			Seneca-Upshur Petroleum, Inc.	Seneca-Upshur Petroleum, LLC	Assignment	381/540
			Seneca-Upshur Petroleum, LLC	Antero Resources Appalachian Corporation	Assignment	402/132
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	WVSOS
			Antero Resources Corporation	CNX Gas Company, LLC & Noble Energy Inc.	Assignment	425/701
						427/564
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
			Reva D. Rowland, a/k/a Reva Rowland and Ronald Royce Rowland	CNX Gas Company, LLC	Not less than 1/8	661/912
3A	Middle Island Creek	N/A	West Virginia Division of Natural Resources	Antero Resources Corporation	Not less than 1/8	558/295
			Antero Resources Corporation	CNX Gas Company, LLC	Affidavit of Agreement	624/332
4A	1-17-12.1	266302000	Mattie Dotson Flint	J&J Enterprises, Inc.	Not less than 1/8	259/283
			Aris Hope Jack Parker, AIF for Colen C. Jack	J&J Enterprises, Inc.	Not less than 1/8	259/281
			J&J Enterprises, Inc.	Eastern American Energy Corp.	Assignment	282/296
			Eastern American Energy Corp.	Seneca-Upshur Petroleum, Inc.	Assignment	354/757
			Seneca-Upshur Petroleum, Inc.	Seneca-Upshur Petroleum, LLC	Assignment	381/540
			Seneca-Upshur Petroleum, LLC	Antero Resources Appalachian Corp.	Assignment	402/132
			Antero Resources Appalachian Corp.	CNX Gas Company, LLC and Noble Energy, Inc.	Assignment	433/7
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
			Linda K. Bright, a/k/a, Linda Bright	Noble Energy, Inc.	Not less than 1/8	518/326
			Viola M. Trenton, a/k/a, Viola Trenton	Noble Energy, Inc.	Not less than 1/8	519/228
			Judy Schillace and Nicholas Schillace, w/h	Noble Energy, Inc.	Not less than 1/8	519/224
			William Christopher Taylor and Cynthia Taylor, h/w	Noble Energy, Inc.	Not less than 1/8	519/214
			Maryless Haymond and Floyd Haymond, w/h	Noble Energy, Inc.	Not less than 1/8	508/655
			Gayla A. Beech, f/h/a, Gayla A. Hickman	Noble Energy, Inc.	Not less than 1/8	526/547
			Helen Louise Hickman, a/h/a Helen L. Hickman, f/h/a Helen Louise Leasure, by her AIF, Frances Louise Bunner, a/h/a Frances L. Bunner	Noble Energy, Inc.	Not less than 1/8	520/433
			Ruby Newton	Noble Energy, Inc.	Not less than 1/8	526/604
			Cheryl L. Tadsen, f/h/a Cheryl L. Gill and James F. Tadsen, w/h	Noble Energy, Inc.	Not less than 1/8	526/600
			Barbara J. Davis, a/h/a Barbara Davis	Noble Energy, Inc.	Not less than 1/8	520/384
			Cindy A. Gill, a/h/a Cynthia Ann Gill	Noble Energy, Inc.	Not less than 1/8	520/856
			David M. Gill, a/h/a David Michael Gill and Catherine J. Gill, a/k/a Cathy Gill, h/w	Noble Energy, Inc.	Not less than 1/8	520/358
			Terry R. Washburn, a/h/a Terry Washburn and Joy D. Washburn, h/w	Noble Energy, Inc.	Not less than 1/8	520/386
			Jean Kuchenbecker, a/h/a, Nettie Jean Kuchenbecker, f/h/a Nettie Jean Hickman and William Kuchenbecker, w/h	Noble Energy, Inc.	Not less than 1/8	526/614
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	542/134
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	542/147
			James Albert Taylor	CNX Gas Company, LLC	Not less than 1/8	595/29
			Judy Webb, f/h/a, Judy Newbrough	CNX Gas Company, LLC	Not less than 1/8	585/339
			Cedith H. Davis	CNX Gas Company, LLC	Not less than 1/8	589/140
			Linda L. Catona, f/h/a Linda L. Sellers	CNX Gas Company, LLC	Not less than 1/8	590/102
			B. Pauline Murphy, f/h/a B. Pauline Moore	CNX Gas Company, LLC	Not less than 1/8	669/206
			Denver Hickman	CNX Gas Company, LLC	Not less than 1/8	3/72
			Delmas Hickman	CNX Gas Company, LLC	Not less than 1/8	671/781
			Donna D. Hart	CNX Gas Company, LLC	Not less than 1/8	12/231
			Howard W. Smith, a/h/a Bill Smith	CNX Gas Company, LLC	Not less than 1/8	14/609
			Amanda L. Davis	CNX Gas Company, LLC	Not less than 1/8	12/236
			Conita Sue Maxwell and Michael Mayne Maxwell, w/h	CNX Gas Company, LLC	Not less than 1/8	17/169
			Alex Craig Smith, a/h/a Alex C. Smith and Bobbie Smith, h/w	CNX Gas Company, LLC	Not less than 1/8	20/373
			Eric Scott Smith	CNX Gas Company, LLC	Not less than 1/8	20/368
			William Gene Stone	CNX Gas Company, LLC	Not less than 1/8	31/270
			Emerson C. Davis, II	CNX Gas Company, LLC	Not less than 1/8	82/475
			Theodore K. Davis and Jill Davis, h/w	CNX Gas Company, LLC	Not less than 1/8	85/574

Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
			Michael P. Davis	CNX Gas Company, LLC	Not less than 1/8	98/599
			Martha Jill Holliday	CNX Gas Company, LLC	Not less than 1/8	
			Juli Edith Germany	CNX Gas Company, LLC	Not less than 1/8	108/584
			Kimberly Wilcox and Danny Wilcox, w/h	CNX Gas Company, LLC	Not less than 1/8	108/574
			Matthew Storm	CNX Gas Company, LLC	Not less than 1/8	121/192
			Shirley L. Urbanowicz, s/h/a Shirley L. Quinn, f/h/a, Shirley L. Hickman and John Quinn, w/h	CNX Gas Company, LLC	Not less than 1/8	108/579
			Deanna Zirkelbach, f/h/a Deanna Stamper and Tommy Zirkelbach, w/h	CNX Gas Company, LLC	Not less than 1/8	121/458
			Ronald Sessler	CNX Gas Company, LLC	Not less than 1/8	121/454
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
SA	1-17-12.1	271971000	Sarah E. Doak, Austin Doak, and Myrtle E. Doak, h/w, Dorsey Doak and Sarah E. Doak, h/w, Oliver A. Doak, Kirby D. Doak, Ida Lemasters and Eby Lemasters, w/h, Myrtle White and Jasper White, w/h	Hope Natural Gas Company	Not less than 1/8	73/158
			Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	169/26
			Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	249/287
			Consolidated Gas Transmission Corporation	CNG Transmission Corporation		
			Mike Ross, Inc.	Mike Ross, Inc.	Assignment	326/34
			Mike Ross, Inc.	Antero Resources Corporation	Assignment	643/153
			Mike Ross, Inc.	Antero Resources Corporation	Extension	20/291
			Antero Resources Corporation	CNX Gas Company, LLC	Assignment	23/398
			Tribune Resources Minerals, LLC, f/h/a Ascent Resources Marcellus Minerals, LLC	CNX Gas Company, LLC	Fee	655/515
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
7	1-17-14	271970000	BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	Not less than 1/8	868/300
			BRC Working Interest Company LLC	Chesapeake Appalachia, LLC	Assignment	369/784
			Chesapeake Appalachia, LLC	StatOil USA Onshore Properties Inc.	Assignment	378/764
			Chesapeake Appalachia, LLC	SWN Production Company, LLC	Assignment	465/463
			StatOil USA Onshore Properties Inc.	SWN Exchange Titleholder LLC	Assignment	470/668
			SWN Exchange Titleholder LLC	SWN Production Company, LLC	Merger	Corp. Bk. 9/404
			SWN Production Company, LLC & StatOil USA Onshore Properties Inc.	Noble Energy, Inc. & CNX Gas Company LLC	Assignment	518/207
			Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
			Norme Long, widow	Exxon Corporation	Not less than 1/8	209/132
			Exxon Corporation	Exxon Mobil Corporation	Name Change	WV505
			Exxon Mobil Corporation	XTO Energy Inc.	Assignment	496/126
			XTO Energy Inc.	Antero Resources Corporation	Assignment	532/239
			Antero Resources Corporation	CNX Gas Company LLC	Assignment	629/658
			J&N Management Enterprises, LLC	CNX Gas Company, LLC	Not less than 1/8	27/699
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
10	1-15-58 1-15-59 1-17-11 1-17-11.1 THROUGH 1-17-11.8	263403000	Artis Hope Jack Parker, AIF for Colen C. Jack	J & J Enterprises	Not less than 1/8	257/620
			J & J Enterprises	Eastern American Energy Corporation	Assignment	282/296
			Eastern American Energy Corporation	Seneca-Upshur Petroleum, Inc. d/b/a Keyspan Production & Development	Assignment	354/757
			Seneca-Upshur Petroleum, Inc.	Seneca-Upshur Petroleum, LLC	Assignment	381/540
			Seneca-Upshur Petroleum, LLC	Antero Resources Appalachian Corporation	Assignment	402/132
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	WV505
			Antero Resources Corporation	CNX Gas Company, LLC and Noble Energy, Inc.	Assignment	425/701
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
92A	1-17-4	266301000	A.E. Doak and Caille Doak	J. E. Trainer	Not less than 1/8	71/174
			J. E. Trainer and Tressie May Trainer, George H. Trainer and J. E. Trainer, partners trading under the firm name and style of Sun Gas Company	W. W. Hepburn	Assignment	80/346
			W. W. Hepburn	Eastern Petroleum Company	Assignment	80/338
			Eastern Petroleum Company	Clifton Oil & Gas Company	Assignment	94/61
			Clifton Oil & Gas Company	Quaker State Oil Refining Corporation	Assignment	270/111
			Quaker State Oil Refining Corporation	Quaker State Corporation	Name Change	WV505
			Quaker State Corporation	Belden & Blake Corporation	Assignment	311/584
			Belden & Blake Corporation	Peake Energy, Inc.	Assignment	321/340
			Peake Energy, Inc.	North Coast Energy Eastern, Inc.	Name Change	8/702
			North Coast Energy Eastern, Inc.	EXCO-North Coast Energy Eastern, Inc.	Name Change	9/80
			EXCO-North Coast Energy Eastern, Inc.	EXCO Resources (WV)	Name Change	WV505
			EXCO Resources (WV)	EXCO Resources (WV), LLC	Name Change	WV505
			EXCO Resources (WV), Inc.	EXCO Resources (WV), LLC, BG Production Company (WV), LLC, and EXCO Resources (PA), LLC	Assignment	374/808
			EXCO Resources (WV), LLC	EXCO Production Company (WV), LLC	Name Change	WV505
			EXCO Production Company (WV), LLC, BG Production Company (WV), LLC and EXCO Resources (PA), LLC	Antero Resources Appalachian Corporation	Assignment	406/195
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	WV505
			Antero Resources Corporation	CNX Gas Company LLC and Noble Energy, Inc.	Assignment	433/77
			Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
98A	1-17-15.2	265336000	Ancel Doak and Flora Doak, h/w Goddie McKittrick, widow	Dorsey Duty and R. H. Duty	Not less than 1/8	150/460
			R. H. Duty, d/b/a Duty Oil Company	Edwin E. Cox and John A. Smith, d/b/a Ash Oil and Gas Company	Assignment	187/384
			John A. Smith and Edwin E. Cox, d/b/a Ash Oil and Gas Company	John A. Smith	Assignment	244/429
			John A. Smith and Edith U. Smith, h/w	John M. McKittrick and Clarence H. Wagner	Assignment	259/439
			C. H. Wagner and J. McKittrick	Appalachian Energy Development, Inc.	Assignment	363/311
			Appalachian Energy Development, Inc.	Triad Energy Corporation of West Virginia, Inc.	Assignment	329/538
			Triad Energy Corporation of West Virginia, Inc.	Viking International Resources Co., Inc., d/b/a Virco	Assignment	333/230
			Viking International Resources Co., Inc.	Triad Energy Corporation	Assignment	338/164

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Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
			Triad Energy Corporation	Triad Hunter, LLC	Assignment	
			Triad Hunter, LLC	Antero Resources Corporation	Assignment	
			Antero Resources Corporation	CNX Gas Company LLC	Assignment	
94	1-17-13	26707000	Donna J. Griffith and Jacob Paul Griffith	Noble Energy, Inc.	Not less than 1/8	486/520
			Peggy A. Bumpass	Noble Energy, Inc.	Not less than 1/8	508/663
			Laura Jean Suddreth	Noble Energy, Inc.	Not less than 1/8	524/312
			Michael R. Burk	Noble Energy, Inc.	Not less than 1/8	527/478
			Janet CRR Pitts	Noble Energy, Inc.	Not less than 1/8	526/608
			Paul Conger and Mary Conger	Noble Energy, Inc.	Not less than 1/8	520/403
			Debbie Hilerman and Mark A. Hilerman	Noble Energy, Inc.	Not less than 1/8	503/56
			Jeffrey A. James and Maria J. James	Noble Energy, Inc.	Not less than 1/8	503/58
			William Patrick James and Dianne James	Noble Energy, Inc.	Not less than 1/8	506/68
			Pamela Fern Friedman	Noble Energy, Inc.	Not less than 1/8	520/332
			Dwight Eugene Sturm	Noble Energy, Inc.	Not less than 1/8	524/317
			Anna Colleen Presley aka Colleen Presley	Noble Energy, Inc.	Not less than 1/8	524/335
			Patricia G. Doty	Noble Energy, Inc.	Not less than 1/8	524/332
			Philip Wayne Sturm	Noble Energy, Inc.	Not less than 1/8	524/320
			Lisa Schafer	Noble Energy, Inc.	Not less than 1/8	524/347
			Carol Elaine Higgins and Everett Higgins aka Everett W. Higgins	Noble Energy, Inc.	Not less than 1/8	527/425
			Michael James and Vicki L. James	Noble Energy, Inc.	Not less than 1/8	520/417
			Doris J. Bee and Livingstone S. Bee	Noble Energy, Inc.	Not less than 1/8	520/397
			Jill Robin Thompson and Kelvin Thompson	Noble Energy, Inc.	Not less than 1/8	520/538
			Jock Jeffrey Pitts aka Jock J. Pitts and Deborah M. Pitts	Noble Energy, Inc.	Not less than 1/8	520/324
			David Eugene Bernsbach	Noble Energy, Inc.	Not less than 1/8	527/472
			Judith Adams flia Judith Diane Poling and Clifford Adams	Noble Energy, Inc.	Not less than 1/8	534/233
			Denise Gambill aka Denis K. Gambill	Noble Energy, Inc.	Not less than 1/8	534/265
			Gregory R. Mercer	Noble Energy, Inc.	Not less than 1/8	534/262
			James W. Schumacher and Lisa B. Schumacher	Noble Energy, Inc.	Not less than 1/8	532/207
			Larry O. Schumacher and Kathleen M. Schumacher	Noble Energy, Inc.	Not less than 1/8	532/187
			Lori Hufstader	Noble Energy, Inc.	Not less than 1/8	532/171
			Mary Jane Schumacher	Noble Energy, Inc.	Not less than 1/8	534/287
			Bryan Bumgarner and Lisa D. Bumgarner	Noble Energy, Inc.	Not less than 1/8	535/519
			Patricia Ruth Hester, By Paul Eugene Hester, Jr. POA	Noble Energy, Inc.	Not less than 1/8	534/278
			Sheryl Groves	Noble Energy, Inc.	Not less than 1/8	532/167
			Waco Oil and Gas Co., Inc.	Noble Energy, Inc.	Not less than 1/8	534/302
			Gregory Sellers aka Greg Sellers and D. Lee Seller	Noble Energy, Inc.	Not less than 1/8	538/525
			James Lindsay	Noble Energy, Inc.	Not less than 1/8	538/541
			Betty Lewis and Douglas C. Lewis	Noble Energy, Inc.	Not less than 1/8	538/511
			Robert Groves and Carol J. Groves	Noble Energy, Inc.	Not less than 1/8	541/430
			Ann Adel Gosney	Noble Energy, Inc.	Not less than 1/8	543/362
			Kimberley Abrecht flia Kimberly Gene Pitts	Noble Energy, Inc.	Not less than 1/8	543/534
			C. Gloria Atkinson aka Gloria Atkinson and Charles W. Atkinson	Noble Energy, Inc.	Not less than 1/8	545/845
			Matthew Pitts	Noble Energy, Inc.	Not less than 1/8	543/538
			Boda Family Trust, by Margaret E. Boda, Co-Trustee by Wanda L. Boda, POA and Wand L. Boda Co-Trustee	Noble Energy, Inc.	Not less than 1/8	541/506
			Kathryn Stephens	Noble Energy, Inc.	Not less than 1/8	546/21
			Nicholas R. Lucas	Noble Energy, Inc.	Not less than 1/8	546/13
			Tyler Pitts	Noble Energy, Inc.	Not less than 1/8	545/841
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	521/80
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	542/134
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	542/147
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
			Linda J. Franz	Noble Energy, Inc.	Not less than 1/8	543/403
			Noble Energy, Inc.	HG Energy Appalachia II, LLC	Assignment	570/96
			HG Energy Appalachia II, LLC	Antero Resources Corporation	Assignment	667/1
			Antero Resources Corporation	CNX Gas Company, LLC	Assignment	23/398
			Terri Ann Suddreth	CNX Gas Company, LLC	Not less than 1/8	588/688
			Ernest M. Sharp	CNX Gas Company, LLC	Not less than 1/8	593/469
			Thomas Lee Suddreth	CNX Gas Company, LLC	Not less than 1/8	597/817
			Michael Allan McGlasson	CNX Gas Company, LLC	Not less than 1/8	665/752
			Carol Groves	CNX Gas Company, LLC	Not less than 1/8	135/196
			AMP Fund II, LP	Antero Resources Corporation	Not less than 1/8	656/747
			Deanna L. Weese	Antero Resources Corporation	Not less than 1/8	658/384
			Gary Alan Listoe	Antero Resources Corporation	Not less than 1/8	658/389
			Lorraine E. Galdenborn	Antero Resources Corporation	Not less than 1/8	660/225
			James C. Pierce, Jr.	Antero Resources Corporation	Not less than 1/8	659/485
			Jan B. Crawford	Antero Resources Corporation	Not less than 1/8	659/341
			Julie K. Walsh	Antero Resources Corporation	Not less than 1/8	659/490
			Don Leroy Pierce	Antero Resources Corporation	Not less than 1/8	659/685
			Kathleen McCluskey	Antero Resources Corporation	Not less than 1/8	660/260
			Christopher Scott Power	Antero Resources Corporation	Not less than 1/8	663/749
			Beverly J. Collins	Antero Resources Corporation	Not less than 1/8	659/495
			Antero Resources Corporation	CNX Gas Company, LLC	Assignment	23/398
			Sandra Gail Stevens, nee Power Harold Hunt Power Trust U/A/D 7/29/2004	Antero Resources Corporation	Not less than 1/8	664/328
			Antero Minerals, LLC	Antero Resources Corporation	Not less than 1/8	68/755
			Antero Resources Corporation	CNX Gas Company, LLC	Assignment	109/674
95	1-17-16	26630200	BRC Appalachian Minerals I, LLC	BRC Working Interest Company LLC	Not less than 1/8	369/300
			BRC Working Interest Company LLC	Chesapeake Appalachia, LLC	Assignment	369/648
			Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc.	Assignment	378/764
			Chesapeake Appalachia, LLC	SWN Production Company, LLC	Assignment	465/463
			Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder LLC	Assignment	470/668
			SWN Exchange Titleholder LLC	SWN Production Company, LLC	Merger	Corp. Bk. 9/404
			SWN Production Company, LLC & Statoil USA Onshore Properties Inc.	Noble Energy, Inc. & CNX Gas Company LLC	Assignment	518/207
			Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273
			Norma Long, widow	Exxon Corporation	Not less than 1/8	209/133
			Exxon Corporation	Exxon Mobil Corporation	Name Change	WVSOS
			Exxon Mobil Corporation	XTO Energy Inc.	Assignment	496/126
			XTO Energy Inc.	Antero Resources Corporation	Assignment	532/239
			Antero Resources Corporation	CNX Gas Company LLC	Assignment	629/658
			AMP Fund II, LP	CNX Gas Company, LLC	Not less than 1/8	121/232

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Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
			J&N Management LLC	CNX Gas Company, LLC	Not less than 1/8	
96	1-17-17	292201000	Norma Long, widow Exxon Corporation Exxon Mobil Corporation XTO Energy Inc. Antero Resources Corporation	Exxon Corporation Exxon Mobil Corporation XTO Energy Inc. Antero Resources Corporation CNX Gas Company LLC	Not less than 1/8 Name Change Assignment Assignment Assignment	209/132 WVS05 496/126 532/239 629/658
			Shirley A. Lohr Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company LLC	Not less than 1/8 Assignment	534/268 550/273
100A	1-17-24.1	269990000	Margaret E. Doak Robert L. Doak and Aline Doak, h/w Donna Jean Long Drilling Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Antero Resources Corporation	Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Antero Resources Corporation CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Assignment Assignment	818/150 818/164 817/518 391/416 421/130 503/738 550/273 629/658
			Waco Oil and Gas Co., Inc. Antero Resources Corporation	Antero Resources Corporation CNX Gas Company, LLC	Not less than 1/8 Assignment	559/675 629/658
			Norma Long, widow Exxon Corporation XTO Energy Inc. Antero Resources Corporation	Exxon Corporation XTO Energy Inc. Antero Resources Corporation CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment	209/132 496/126 532/239 629/658
100B	1-17-24	269990000	Margaret E. Doak Robert L. Doak and Aline Doak, h/w Donna Jean Long Drilling Appalachian Corporation Antero Resources Corporation Noble Energy, Inc. Antero Resources Corporation	Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Antero Resources Corporation CNX Gas Company LLC and Noble Energy, Inc. CNX Gas Company, LLC CNX Gas Company, LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Assignment Assignment	818/150 818/164 817/518 391/416 421/130 503/738 550/273 629/658
			Waco Oil and Gas Co., Inc. Antero Resources Corporation	Antero Resources Corporation CNX Gas Company, LLC	Not less than 1/8 Assignment	559/675 629/658
			Norma Long, widow Exxon Corporation XTO Energy Inc. Antero Resources Corporation	Exxon Corporation XTO Energy Inc. Antero Resources Corporation CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Assignment	209/132 496/126 532/239 629/658
101A	1-18-11	271990000	Margaret C. Nied Helen C. Dahle James P. Cullinan Mary C. Schilling Trust - 2010, by Keith Schilling, Trustee Antero Resources Corporation	Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment	603/744 601/585 604/606 607/488 629/658
			William Paul McCutchan and Virginia B. McCutchan Kathleen Bradford Upton William Warren Upton and Frances J. Upton, h/w Marie L. Bradford, widow and heir under the Last Will and Testament of James Perry Bradford	Exxon Corporation Exxon Corporation Exxon Corporation Exxon Corporation	Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8	209/336 209/79 209/356 211/80
			Exxon Corporation Exxon Mobil Corporation XTO Energy, Inc. Antero Resources Corporation	Exxon Mobil Corporation XTO Energy, Inc. Antero Resources Corporation CNX Gas Company LLC	Name Change Assignment Assignment Assignment	WVS05 496/126 532/239 629/658
10B	1-17-30.1	267819000	Star Furniture Company of West Union Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company LLC	Not less than 1/8 Assignment	492/294 521/80
			Teresa Rush and Ronald Rush, w/h Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company LLC	Not less than 1/8 Assignment	534/295 550/273
109B	1-17-30	295168000	Ronal Rush and Teresa Rush, h/w Noble Energy, Inc. Noble Energy, Inc.	Noble Energy, Inc. CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Assignment Assignment	534/291 542/147 550/273
110A	1-20-6.2	271969000	Ina M. Montgomery, A/F, for Leslie E. Montgomery and Ina M. Mildred M. Stevens, widow and Cheryl B. Ash, Sr., single Bojacque, Inc. Bojacque, Inc. Stonewall Gas Company Stonewall Gas Company	Bojacque, Inc. Bojacque, Inc. Stonewall Gas Company Stonewall Gas Company	Not less than 1/8 Not less than 1/8 Assignment Assignment	273/338 274/250 278/485 278/464
			Stonewall Gas Company Drilling Appalachian Corporation Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation CNX Gas Company LLC	Assignment Assignment Assignment Assignment	282/392 287/547 401/499 421/138 629/658
			Sam Horton and Carol Horton, h/w, Frank Butler and Molly Butler, h/w, Edward Mullooly, single Stonewall Gas Company Drilling Appalachian Corporation Drilling Appalachian Corporation	Stonewall Gas Company Drilling Appalachian Corporation Antero Resources Corporation	Not less than 1/8 Assignment Assignment	287/325 287/547 401/499 421/138 629/658
			Antero Resources Corporation	CNX Gas Company LLC	Assignment	629/658

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			Ralph Thacker and Betty Thacker, h/w, J. Maurice Carlisle and Mary Ann Carlisle, h/w	Drilling Appalachian Corporation	Not less than 1/8	285/444
			Drilling Appalachian Corporation	Antero Resources Corporation	Assignment	401/499
			Antero Resources Corporation	CNX Gas Company LLC	Assignment	421/138
			Kenneth R. Mason and Jennifer L. Mason, h/w	CNX Gas Company, LLC	Not less than 1/8	629/658
						124/765
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
112	1-2-5	29356000	Little M. Shepherd	Petroleum Services, Inc.	Not less than 1/8	107/499
			Allegheny Land and Mineral Company	Petroleum Services, Inc.	Not less than 1/8	107/679
			The Union National Bank as Trustee for Truman E. Gore and C. Burke Morris, u/a dtd. 8/25/1966	Petroleum Services, Inc.	Not less than 1/8	107/677
			Petroleum Services, Inc.	Summer Gas Associates 78-2	Assignment	108/446
			Summer Gas Associates 78-2	Frontier Energy Corporation	Affidavit	175/533
			Frontier Energy Corporation	Key Oil Company	Assignment	175/490
			Key Oil Company	Antero Resources Appalachian Corporation	Assignment	172/655
			Key Oil Company	Antero Resources Appalachian Corporation	Assignment	256/285
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Assignment	276/526
			Antero Resources Corporation	Antero Resources Corporation	Name Change	WV505
			Antero Resources Corporation	CNX Gas Company, LLC	Assignment	481/395
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
113	1-2-1.1	293589000	David Allen Bess, s/h/a David A. Bess	Antero Resources Corporation	Not less than 1/8	443/269
			Antero Resources Corporation	CNX Gas Company, LLC	Assignment	481/395
			Shirley Lohr	EQT Production Company	Not less than 1/8	440/487
			Charter D. Stinespring II and Stephanie Stinespring, h/w	EQT Production Company	Not less than 1/8	441/618
			Victor Goff Stinespring and Pamela R. Stinespring, h/w	EQT Production Company	Not less than 1/8	443/504
			EQT Production Company	CNX Gas Company, LLC	Assignment	498/388
			IN SEARCH OF THE LORD'S WAY, INC. s/h/a, IN SEARCH OF THE LORD'S WAY	CNX Gas Company, LLC	Not less than 1/8	497/450
			Norma T. Long Trust, dated November 8, 2013	CNX Gas Company, LLC	Not less than 1/8	488/382
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
114	1-2-1 1-2.1.2	293579000	Sonya Rickel and Joe Rickel Jr., w/h	Clarence W. Mutschelknaus	Not less than 1/8	141/176
			Charlotte Bryant and Ervin Bryant, w/h	Clarence W. Mutschelknaus	Not less than 1/8	140/492
			Garrett G. Pyles	Clarence W. Mutschelknaus	Not less than 1/8	140/496
			Janice Phelps and Harry Phelps, w/h	Clarence W. Mutschelknaus	Not less than 1/8	141/31
			Robert F. Pratt and Glenna Z. Pratt, h/w	Clarence W. Mutschelknaus	Not less than 1/8	141/35
			Kenneth E. Pratt and Laura L. Pratt, h/w	Clarence W. Mutschelknaus	Not less than 1/8	141/11
			Janet P. Tinkham and Erwin L. Tinkham, w/h	Clarence W. Mutschelknaus	Not less than 1/8	140/360
			Allen Pratt and Patricia Pratt, h/w	Clarence W. Mutschelknaus	Not less than 1/8	140/500
			Jan Cole and Robert L. Cole, w/h	Clarence W. Mutschelknaus	Not less than 1/8	140/488
			Dorothy A. Greenwood and Malcolm Greenwood, w/h	Clarence W. Mutschelknaus	Not less than 1/8	141/37
			Margaret R. Mead and Richard F. Mead, w/h	Clarence W. Mutschelknaus	Not less than 1/8	140/370
			Mary J. Borer and Donald E. Borer, w/h	Clarence W. Mutschelknaus	Not less than 1/8	140/884
			Kenneth M. Wagner and Mary A. Wagner, h/w	Clarence W. Mutschelknaus	Not less than 1/8	141/190
			John Paladino	Clarence W. Mutschelknaus	Not less than 1/8	141/8
			Patty Lou Fox and Harry R. Fox, w/h	Clarence W. Mutschelknaus	Not less than 1/8	140/362
			Robert D. L. Doak	Clarence W. Mutschelknaus	Not less than 1/8	141/25
			Ida Bower	Clarence W. Mutschelknaus	Not less than 1/8	141/17
			Jack Coffindaffer and Janice Lee Coffindaffer, h/w	Clarence W. Mutschelknaus	Not less than 1/8	141/13
			Esther Doak	Clarence W. Mutschelknaus	Not less than 1/8	141/7
			Virginia McBee and Robert McBee, w/h	Clarence W. Mutschelknaus	Not less than 1/8	141/19
			Karen Y. Meiter and Robert Lynn Meiter, w/h	Clarence W. Mutschelknaus	Not less than 1/8	143/301
			Paul Wagner and Joan Wagner, h/w	Clarence W. Mutschelknaus	Not less than 1/8	140/766
			Leona Smith and John Smith, w/h	Clarence W. Mutschelknaus	Not less than 1/8	140/768
			Sylvia Knowlton and Cleo Knowlton, w/h	Clarence W. Mutschelknaus	Not less than 1/8	140/490
			Ruth M. Hubbard	Clarence W. Mutschelknaus	Not less than 1/8	141/29
			Ina M. Wagner	Clarence W. Mutschelknaus	Not less than 1/8	140/770
			Juliana M. Moore	Clarence W. Mutschelknaus	Not less than 1/8	140/366
			Gussie Devoll	Clarence W. Mutschelknaus	Not less than 1/8	140/760
			Martha Moore Hanson and Peter S. Hanson, w/h	Clarence W. Mutschelknaus	Not less than 1/8	141/188
			Vonda Wagner	Clarence W. Mutschelknaus	Not less than 1/8	140/764
			Wayne Kellar and Peggy Kellar, h/w, s/h/a Wayne Kellar and Margaret H. Kellar, h/w	Clarence W. Mutschelknaus	Not less than 1/8	141/33
			Catherine Moore	Clarence W. Mutschelknaus	Not less than 1/8	140/494
			C. H. Wagner and Olive Irene Wagner, h/w	Clarence W. Mutschelknaus	Not less than 1/8	141/21
			Darryl Pratt	Clarence W. Mutschelknaus	Not less than 1/8	140/356
			Mary D. Southern	Clarence W. Mutschelknaus	Not less than 1/8	140/762
			Wilda Doak	Clarence W. Mutschelknaus	Not less than 1/8	141/15
			Beverly Delaney and Eleanor Knight and Stanford Knight, w/h and James W. Ash and Hazel Ash, h/w, Lella Washburn, Charlene Smith and George Smith, w/h, and Barbara Thairose and Harold Thairose, w/h	Clarence W. Mutschelknaus	Not less than 1/8	140/757
			Theresa Pratt	Clarence W. Mutschelknaus	Not less than 1/8	140/368
			Sherry Lynn Quay	Clarence W. Mutschelknaus	Not less than 1/8	149/667
			Clarence W. Mutschelknaus	Antero Resources Corporation	Assignment	322/275
			Antero Resources Corporation	CNX Gas Company, LLC	Assignment	629/658
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117	1-4-6	293582000	Mrs. Sylvia Wuffert, Ruby Hunt, Mr. Lynn Wuffert	Petroleum Services, Inc.	Not less than 1/8	111/497
			U. G. Summers Estate: William G. Summers and Kathryn Summers, h/w, Hector Keith Summers, Pauline Summers, Kathleen Clara Summers	Petroleum Services, Inc.	Not less than 1/8	111/448
			U. G. Summers Estate: William G. Summers and Kathryn Summers, h/w, Hector Keith Summers, Pauline Summers, Kathleen Clara Summers	Petroleum Services, Inc.	Not less than 1/8	111/445
			Lorena G. Hammer	Petroleum Services, Inc.	Not less than 1/8	108/672
			Petroleum Services, Inc.	J & J Enterprises, Inc.	Assignment	117/226
			J & J Enterprises, Inc.	Eastern American Energy Corporation	Assignment	159/139
			Eastern American Energy Corporation	Energy Corporation of America	Assignment	240/498
			Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	272/307
			Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	328/648
			Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation	Assignment	424/486
			Antero Resources Corporation	Antero Resources Corporation	Name Change	WV505
			Antero Resources Corporation	CNX Gas Company LLC	Assignment	481/395

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			Ardenna Kay Rlenstra	Antero Resources Corporation	Not less than 1/8	417/6
			EKG Land Limited	Antero Resources Corporation	Not less than 1/8	423/255
			Robert Swearingen	Antero Resources Corporation	Not less than 1/8	420/516
			Sandra Swearingen	Antero Resources Corporation	Not less than 1/8	420/521
			Charles W. Hendrickson and Elizabeth Hendrickson	Antero Resources Corporation	Not less than 1/8	417/624
			Terry L. Snider	Antero Resources Corporation	Not less than 1/8	417/622
			Martha Ann Hanes	Antero Resources Corporation	Not less than 1/8	427/281
			Mary Garland Hanes	Antero Resources Corporation	Not less than 1/8	443/254
			Nicholas Osborne Hanes	Antero Resources Corporation	Not less than 1/8	443/259
			Barbara G. Clark	Antero Resources Corporation	Not less than 1/8	474/56
			Antero Resources Corporation	CNX Gas Company LLC	Assignment	481/395
			Donald Reynolds, a/k/a Donald R. Reynolds	CNX Gas Company LLC	Not less than 1/8	76/213
			Ronald Glenn Hurst	CNX Gas Company LLC	Not less than 1/8	496/575
			James Lee Hurst, Sr.	CNX Gas Company LLC	Not less than 1/8	496/568
			Pamela Sue Summers	CNX Gas Company LLC	Not less than 1/8	497/197
			Kathy Mae Fenstermaker	CNX Gas Company LLC	Not less than 1/8	497/186
			David Leroy Gray	CNX Gas Company LLC	Not less than 1/8	497/203
			David Charles Hurst	CNX Gas Company LLC	Not less than 1/8	497/58
			Westlake Energy Partners, LLC	CNX Gas Company LLC	Not less than 1/8	495/505
			Cynthia Gray	CNX Gas Company LLC	Not less than 1/8	497/52
			Linda Sue Ozendine	CNX Gas Company LLC	Not less than 1/8	497/64
			Tina Hurst	CNX Gas Company LLC	Not less than 1/8	497/422
			Kitty Ann Sams	CNX Gas Company LLC	Not less than 1/8	497/557
			Catherine L. Snider	CNX Gas Company LLC	Not less than 1/8	497/634
			Barbara L. Wilson	CNX Gas Company LLC	Not less than 1/8	498/72
			Aurix Acquisition Fund, LLC	CNX Gas Company LLC	Not less than 1/8	497/309
			Harold Wayne Hurst, a/k/a H. Wayne Hurst	CNX Gas Company LLC	Not less than 1/8	498/11
			Rodney Gale Smith	CNX Gas Company LLC	Not less than 1/8	498/95
			Sandra S. DiGiacobbe f/k/a Sandra S. Hurst and Ronald D. DiGiacobbe, w/h	CNX Gas Company LLC	Not less than 1/8	498/257
			Angela Fay Miller	CNX Gas Company LLC	Not less than 1/8	488/287
			Rebecca Ann Goff	CNX Gas Company LLC	Not less than 1/8	498/292
			Stephen Duane Jackson	CNX Gas Company LLC	Not less than 1/8	498/297
			Jeffery Allen Hurst	CNX Gas Company LLC	Not less than 1/8	498/302
			Richard Duane Hurst	CNX Gas Company LLC	Not less than 1/8	498/347
			Ed Broome, Inc.	CNX Gas Company LLC	Not less than 1/8	497/709
			Gwendalyn Rae Swartzfager f/k/a Gwendalyn Rae Rose	CNX Gas Company LLC	Not less than 1/8	498/322
			Mark Allen Jackson and Andrea Jackson, h/w	CNX Gas Company LLC	Not less than 1/8	498/327
			Jennifer Lee Harris	CNX Gas Company LLC	Not less than 1/8	498/317
			Jack Lee Smith and Cyndi Smith, h/w	CNX Gas Company LLC	Not less than 1/8	498/247
			Norman L. Jackson	CNX Gas Company LLC	Not less than 1/8	498/332
			Annette N. Davis and David A. Davis	CNX Gas Company LLC	Not less than 1/8	487/389
			Ruth Ann Nicholson	CNX Gas Company LLC	Not less than 1/8	488/505
			Maria Alexandrovna Stihary a/k/a Maria Alexandrovna Standafer	CNX Gas Company LLC	Affidavit - Cotenancy	62/142
			Warren Scott Standafer Testamentary Trust	CNX Gas Company LLC	Affidavit - Cotenancy	62/142
			Michael Keith Gearhart	CNX Gas Company LLC	Affidavit - Cotenancy	62/142
			Brian Phillip Gearhart	CNX Gas Company LLC	Affidavit - Cotenancy	62/142
			Joseph Edward Gearhart	CNX Gas Company LLC	Affidavit - Cotenancy	62/142
			Jason Alan Gearhart	CNX Gas Company LLC	Affidavit - Cotenancy	62/142
			Melanie Faith Gearhart	CNX Gas Company LLC	Affidavit - Cotenancy	62/142
			Donald Wayne Hurst, Jr.	CNX Gas Company LLC	Affidavit - Cotenancy	62/142
			Vicki Dean a/k/a Vicki Darlene Kriner	CNX Gas Company LLC	Affidavit - Cotenancy	62/142
			Glenn Richard Gray	CNX Gas Company LLC	Affidavit - Cotenancy	62/142
			Bruce Patrick Smith	CNX Gas Company LLC	Affidavit - Cotenancy	62/142
			Jamie Lynn Munn	CNX Gas Company LLC	Affidavit - Cotenancy	62/142
			Larry Arden Hurst	CNX Gas Company LLC	Affidavit - Cotenancy	62/142
			Donald Allen Hurst	CNX Gas Company LLC	Affidavit - Cotenancy	62/142
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118	1-2-6	293581000	Cisco Dotson and Lois B. Dotson, his wife; and Isiah S. Dotson	James D. Foley	Not less than 1/8	46/4
			James D. Foley	James P. Droppelman and J.J. Graham, mining partners	Assignment	59/267
			Joseph J. Graham, deceased	Ella Graham	Last Will and Testament	WB 6/466
			James P. Droppelman	Charles L. Hickman	Assignment	81/538
			Charles L. Hickman, deceased	Charles D. Hickman	Last Will and Testament	WB 51/696
			Ella Graham	Charles D. Hickman	Assignment	81/546
			Charles D. Hickman, deceased	Carl D. Perkins	Assignment	81/542
			Carl D. Perkins	Charlize M. Hickman	Last Will and Testament	WB 51/699
			Charlize M. Hickman, widow, and Perkins Oil and Gas, Inc.	Perkins Oil and Gas, Inc.	Assignment	176/607
			Shackelford Energy, Inc.	Shackelford Energy, Inc.	Assignment	163/524
			Key Oil Company	Key Oil Company	Assignment	171/107
			Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation	Assignment	268/607
			Antero Resources Corporation	Antero Resources Corporation	Name Change	WVSC5
			Antero Resources Corporation	CNX Gas Company, LLC	Assignment	481/395
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
125A	1-4-1.1	293585000	James E. Shepherd, II	CNX Gas Company, LLC	Not less than 1/8	496/360
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
125B	1-4-1.2	293585000	James E. Shepherd, II	CNX Gas Company, LLC	Not less than 1/8	496/370
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
125C	1-4-1.3	293585000	Michael Shepherd and Diane E. Shepherd, h/w	CNX Gas Company, LLC	Not less than 1/8	496/365
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
126	Unknown	297221000	West Virginia Department of Transportation, Division of Highways	CNX Gas Company, LLC	Not less than 1/8	497/316
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
127A	1-4-11.1 1-4-11.2	293600000	Susan Swenzel Lytle	Antero Resources Appalachian Corporation	Not less than 1/8	268/58
			Sandra Jo Evenson	Antero Resources Appalachian Corporation	Not less than 1/8	293/613
			The Max G. Karshner and Lois D. Karshner Revocable Living Trust dated 9/29/2009, by Max G. Karshner and Lois D. Karshner, Trustees	Antero Resources Appalachian Corporation	Not less than 1/8	268/58
			Keely A. Carabin	Antero Resources Appalachian Corporation	Not less than 1/8	277/540
			Cheryl Overmeyer	Antero Resources Appalachian Corporation	Not less than 1/8	280/333

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Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
			Samuel Curtis Graves	Antero Resources Appalachian Corporation	Not less than 1/8	267/63
			Guy T. Pigott, Jr.	Antero Resources Appalachian Corporation	Not less than 1/8	285/614
			Marcia L. Todd	Antero Resources Appalachian Corporation	Not less than 1/8	293/136
			Barbara Shipley	Antero Resources Appalachian Corporation	Not less than 1/8	294/549
			Dorothy A. Pigott, a/k/a Dorothy A. Beck, a/k/a Dorothy P. Hileman	Antero Resources Appalachian Corporation	Not less than 1/8	267/67
			Norma J. Simon and George P. Simon, by his AIF, Norma J. Simon	Antero Resources Appalachian Corporation	Not less than 1/8	265/672
			Dorothy A. Pigott, AIF for Lucie C. Anderson nee Pigot, Carolyn D. Erambert nee Pigot, Janet W. Coffman nee Pigott	Antero Resources Appalachian Corporation	Not less than 1/8	267/58
			June Pigott Hickle	Antero Resources Appalachian Corporation	Not less than 1/8	294/554
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	WV50S
			Antero Resources Corporation	CNX Gas Company, LLC	Assignment	481/395
			K. Clark Swentzel	Antero Resources Appalachian Corporation	Not less than 1/8	267/228
			Judy L. Frashure	Antero Resources Appalachian Corporation	Not less than 1/8	267/232
			Walter S. Stout	Antero Resources Appalachian Corporation	Not less than 1/8	267/511
			Ann Stout Newman	Antero Resources Appalachian Corporation	Not less than 1/8	268/48
			William P. Stout, Jr.	Antero Resources Appalachian Corporation	Not less than 1/8	269/270
			Tony V. James	Antero Resources Appalachian Corporation	Not less than 1/8	271/169
			Melissa S. Cutter	Antero Resources Appalachian Corporation	Not less than 1/8	271/179
			Robert B. James	Antero Resources Appalachian Corporation	Not less than 1/8	271/189
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	WV50S
			Antero Resources Corporation	CNX Gas Company, LLC	Assignment	490/679
			Frances Lorena Swentzel, by her attorney-in-fact, Cheryl Lynn Meredith	CNX Gas Company, LLC	Not less than 1/8	498/109
			Eugene Vance Chipps, II	CNX Gas Company, LLC	Not less than 1/8	498/482
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
128	1-4-11.1	293591000	Susan Swentzel Lytle	Antero Resources Appalachian Corporation	Not less than 1/8	268/58
			Sandra Jo Evenson	Antero Resources Appalachian Corporation	Not less than 1/8	293/613
			The Max G. Karshner and Lois D. Karshner Revocable Living Trust dated 5/29/2009, by Max G. Karshner and Lois D. Karshner, Trustees	Antero Resources Appalachian Corporation	Not less than 1/8	268/38
			Keely A. Carabin	Antero Resources Appalachian Corporation	Not less than 1/8	277/540
			Cheryl Owensmeyer	Antero Resources Appalachian Corporation	Not less than 1/8	280/333
			Samuel Curtis Graves	Antero Resources Appalachian Corporation	Not less than 1/8	267/63
			Guy T. Pigott, Jr.	Antero Resources Appalachian Corporation	Not less than 1/8	285/614
			Marcia L. Todd	Antero Resources Appalachian Corporation	Not less than 1/8	293/136
			Barbara Shipley	Antero Resources Appalachian Corporation	Not less than 1/8	294/549
			Dorothy A. Pigott, a/k/a Dorothy A. Beck, a/k/a Dorothy P. Hileman	Antero Resources Appalachian Corporation	Not less than 1/8	267/67
			Norma J. Simon and George P. Simon, by his AIF, Norma J. Simon	Antero Resources Appalachian Corporation	Not less than 1/8	265/672
			Dorothy A. Pigott, AIF for Lucie C. Anderson nee Pigot, Carolyn D. Erambert nee Pigot, Janet W. Coffman nee Pigott	Antero Resources Appalachian Corporation	Not less than 1/8	267/58
			June Pigott Hickle	Antero Resources Appalachian Corporation	Not less than 1/8	294/554
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	WV50S
			Antero Resources Corporation	CNX Gas Company, LLC	Assignment	481/395
			K. Clark Swentzel	Antero Resources Appalachian Corporation	Not less than 1/8	267/228
			Judy L. Frashure	Antero Resources Appalachian Corporation	Not less than 1/8	267/232
			Walter S. Stout	Antero Resources Appalachian Corporation	Not less than 1/8	267/511
			Ann Stout Newman	Antero Resources Appalachian Corporation	Not less than 1/8	268/48
			William P. Stout, Jr.	Antero Resources Appalachian Corporation	Not less than 1/8	269/270
			Tony V. James	Antero Resources Appalachian Corporation	Not less than 1/8	271/169
			Melissa S. Cutter	Antero Resources Appalachian Corporation	Not less than 1/8	271/179
			Robert B. James	Antero Resources Appalachian Corporation	Not less than 1/8	271/189
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	WV50S
			Antero Resources Corporation	CNX Gas Company, LLC	Assignment	490/679
			Tamara C. Wierquardt	Antero Resources Corporation	Not less than 1/8	475/16
			Timothy Russell Beckwith, f/k/a James Russell Wamsley, Jr., a/k/a Tim "Butch" Beckwith	Antero Resources Corporation	Not less than 1/8	478/192
			Antero Resources Corporation	CNX Gas Company, LLC	Assignment	481/395
			Black Gold Group, Ltd.	Antero Resources Corporation	Not less than 1/8	486/309
			Antero Resources Corporation	CNX Gas Company, LLC	Assignment	490/679
			Frances Lorena Swentzel, by her attorney-in-fact, Cheryl Lynn Meredith	CNX Gas Company, LLC	Not less than 1/8	498/109
			Eugene Vance Chipps, II	CNX Gas Company, LLC	Not less than 1/8	498/482
			Nicholas R. Wamsley	CNX Gas Company, LLC	Not less than 1/8	495/520
			Glen W. Hawk, f/k/a Glen W. Wamsley and Heather J. Hawk, h/w	CNX Gas Company, LLC	Not less than 1/8	495/525
			Edwin L. Winemiller a/k/a Edwin L. Winemiller, Jr. and Angelina C. Winemiller, h/w	CNX Gas Company, LLC	Not less than 1/8	497/42
			Carolyn Sue Wilkes	CNX Gas Company, LLC	Not less than 1/8	497/629
			Judy P. Cole	CNX Gas Company, LLC	Not less than 1/8	498/277
			Chelsea Rose Seller	CNX Gas Company, LLC	Not less than 1/8	498/272
			Nancy Sue Clark and Grady O. Clark, w/h	CNX Gas Company, LLC	Not less than 1/8	498/282
			Charles R. LeMasters, Jr.	CNX Gas Company, LLC	Cotenancy	62/133
			James E. Lemasters	CNX Gas Company, LLC	Cotenancy	62/133
			Jason Seller	CNX Gas Company, LLC	Cotenancy	62/133
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
180B	1-4-2	293584000 293605000	Carlie James	Antero Resources Corporation	Not less than 1/8	434/158
			Susan Dankel	Antero Resources Corporation	Not less than 1/8	468/143
			Wanda Zetler Stearns	Antero Resources Corporation	Not less than 1/8	433/569
			Beverly Lorraine Kvochick, f/k/a Beverly Lorraine Blake, Beverly Lorraine Dillon and Beverly Lorraine Bryan	Antero Resources Corporation	Not less than 1/8	433/445
			Charles Alvin Blake	Antero Resources Corporation	Not less than 1/8	433/441
			Antero Resources Corporation	CNX Gas Company, LLC	Assignment	481/395
			Trustees of the First United Methodist Church, Williamstown, West Virginia, a/k/a First Williamstown United Methodist Church	CNX Gas Company, LLC	Not less than 1/8	498/997
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
180F	1-4-2	293584000 293605000	Carlie James	Antero Resources Corporation	Not less than 1/8	434/158
			Susan Dankel	Antero Resources Corporation	Not less than 1/8	468/143
			Wanda Zetler Stearns	Antero Resources Corporation	Not less than 1/8	433/569

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<u>Trest ID</u>	<u>Tax Map & Parcel</u>	<u>Title Opinion QLS #</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
			Beverly Lorraine Kvochick, f/k/a Beverly Lorraine Blake, Beverly Lorraine Dillon and Beverly Lorraine Bryan	Antero Resources Corporation	Not less than 1/8	433/445
			Charles Alvin Blake	Antero Resources Corporation	Not less than 1/8	433/441
			Antero Resources Corporation	CNX Gas Company, LLC	Assignment	481/395
			Trustees of the First United Methodist Church, Williamstown, West Virginia, a/k/a First Williamstown United Methodist Church	CNX Gas Company, LLC	Not less than 1/8	498/397

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Environmental Protection

12/17/2021

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

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

October 8, 2021

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

RE: Road Letter – SHR37 M2 Well Pad Drilling Applications

To Whom It May Concern:

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

If any further information or correspondence is required, please contact me at (724) 485-3244 or SarahWeigand@cnx.com.

Sincerely,

A handwritten signature in blue ink that reads 'Sarah Weigand'.

Sarah Weigand

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12/17/2021

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

Date of Notice Certification: 11/17/2021

API No. 47- 095 - 02770
Operator's Well No. SHR37MHSM
Well Pad Name: SHR37

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>513284.062</u>
County: <u>Tyler</u>		Northing: <u>4356019.448</u>
District: <u>Centerville</u>	Public Road Access: <u>Duckworth Ridge Road (CR 58/2)</u>	
Quadrangle: <u>West Union</u>	Generally used farm name: <u>CNX</u>	
Watershed: <u>Headwaters Middle Island Creek</u>		

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten 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 <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input checked="" type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		<p align="center">OOG OFFICE USE ONLY</p> <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED
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Office of Oil and Gas
NOV 15 2021
WV Department of
Environmental Protection

Required Attachments:

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

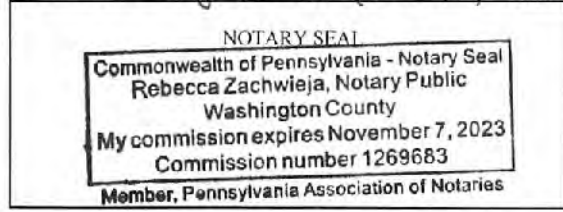
12/17/2021

Certification of Notice is hereby given:

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

Well Operator:	CNX GAS COMPANY LLC	Address:	1000 CONSOL Energy Drive
By:	Sarah Weigand <u>Sarah Weigand</u>		Canonsburg, PA 15317
Its:	Manager Upstream Permitting	Facsimile:	
Telephone:	724-485-3244	Email:	sarahweigand@cnx.com

Commonwealth of Pennsylvania, County of Washington



Subscribed and sworn before me this 3rd day of November 2021
Rebecca Zachwieja Notary Public
 My Commission Expires November 7, 2023

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 depprivacvofficer@wv.gov.

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: 11/12/2021 Date Permit Application Filed: 11/15/2021

Notice of:

- PERMIT FOR ANY WELL WORK CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE REGISTERED MAIL METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)
Name: CNX Gas Company LLC
Address: 1000 CONSOL Energy Drive
Canonsburg, PA 15317
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: CNX Gas Company LLC
Address: 1000 CONSOL Energy Drive
Canonsburg, PA 15317
 COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: _____
Address: _____
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: See attached.
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____
NOV 15 2021

*Please attach additional forms if necessary

Office of Oil and Gas
WV Department of Environmental Protection

12/17/2021

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

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

Well Location Restrictions

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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.**

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

WW-6A
(8-13)

API NO. 47- 095 - 02770
OPERATOR WELL NO. SHR37MHSM
Well Pad Name: SHR37

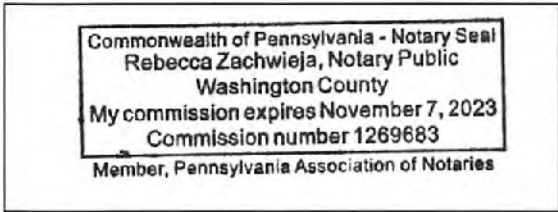
Notice is hereby given by:

Well Operator: CNX Gas Company LLC
Telephone: 724-485-3244
Email: SarahWeigand@cnx.com *Sarah Weigand*

Address: 1000 CONSOL Energy Drive, Canonsburg, PA 15317
Facsimile: _____

Oil and Gas Privacy Notice:

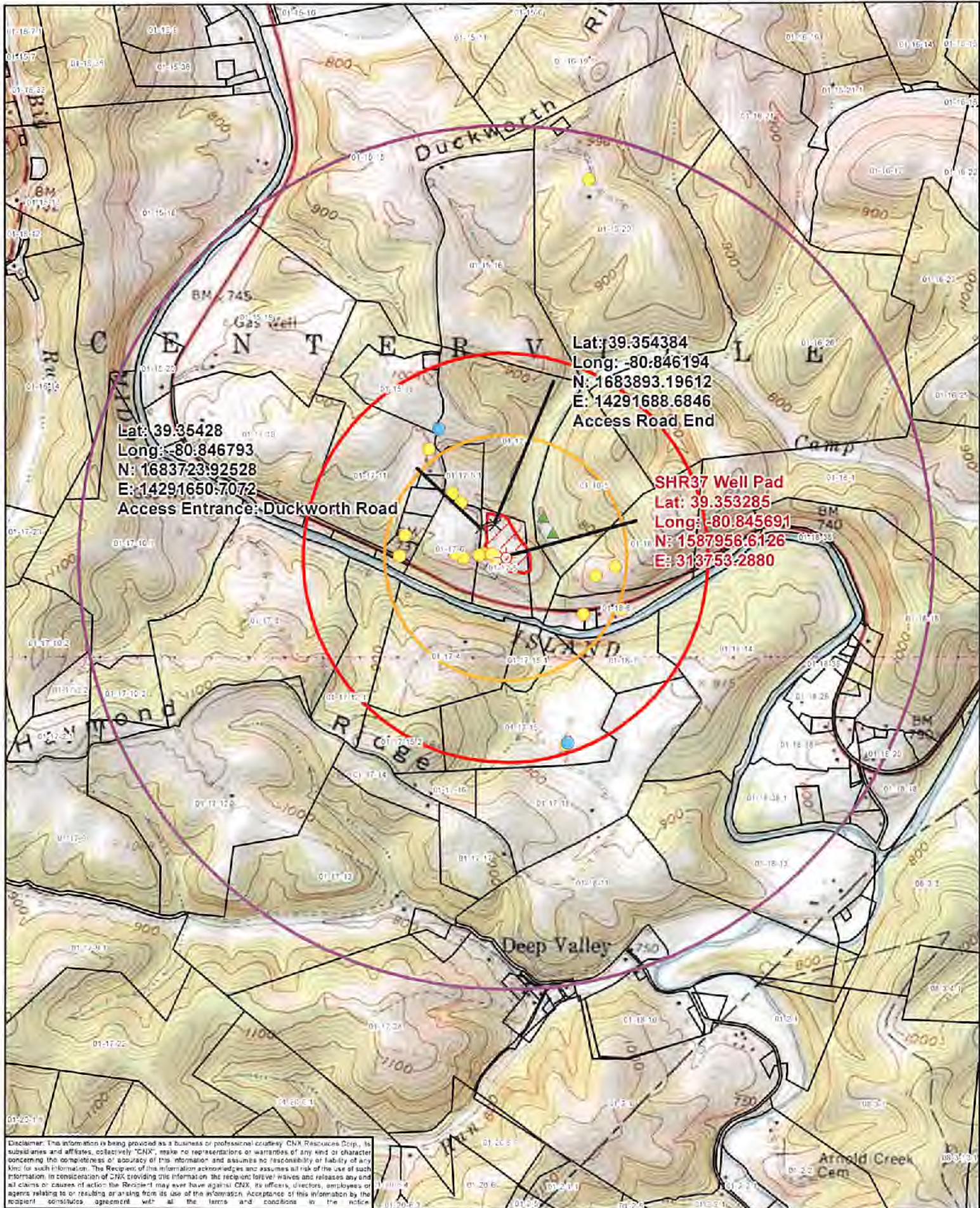
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory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



Subscribed and sworn before me this 27th day of October, 2021

Rebecca Zachwieja Notary Public

My Commission Expires November 7, 2023



Lat: 39.35428
 Long: -80.846793
 N: 1683723.92528
 E: 14291650.7072
 Access Entrance: Duckworth Road

Lat: 39.354384
 Long: -80.846194
 N: 1683893.19612
 E: 14291688.6846
 Access Road End

SHR37 Well Pad
 Lat: 39.353285
 Long: -80.845691
 N: 1587956.6126
 E: 313753.2880

Disclaimer: This information is being provided as a business or professional courtesy. CNX Resources Corp., its subsidiaries and affiliates, collectively "CNX", make no representations or warranties of any kind or character concerning the completeness or accuracy of this information and assumes no responsibility or liability of any kind for such information. The Recipient of this information acknowledges and assumes all risk of the use of such information. In consideration of CNX providing this information, the Recipient hereby waives and releases any and all claims or causes of action the Recipient may ever have against CNX, its officers, directors, employees or agents relating to or resulting or arising from its use of the information. Acceptance of this information by the recipient constitutes agreement with all the terms and conditions in the notice.

SHR37 Well Pad	Pond	1 Mile Buffer
Spring	Well	2,500ft Buffer
Access Points	Access Road	1,500ft Buffer
Surface Parcel	Well Pad LOD	

Date: 10/7/2021
 Revisions: 1
 Prepared By: GIS
 Approved By:

This map is property of CNX Resources Corp. and contains information that is proprietary and confidential in nature and may not be copied or reproduced without prior written consent.

12/17/2021

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

CNX RESOURCES CORPORATION
1000 CONSOL ENERGY DRIVE
CANONSBURG, PA 15317

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

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

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

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

FORREST G. POWELL
PO BOX 91
ALMA, WV 26320

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

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

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

GAIL WILLIAMSON
195 DUCKWORTH RIDGE ROAD
ALMA, WV 26320

DOUG LANTZ
1376 MIDWAY ROAD
BELINGTON, WV 26250

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 11/15/2021 **Date Permit Application Filed:** 11/15/2021

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL HAND
- RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: CNX Gas Company LLC
Address: 1000 CONSOL Energy Drive
Canonsburg, PA 15317

Name: _____
Address: _____
RECEIVED
Office of Oil and Gas
NOV 15 2021
WV Department of
Environmental Protection

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>513284.062</u>
County:	<u>Tyler</u>		Northing:	<u>4356019.448</u>
District:	<u>Centerville</u>	Public Road Access:	<u>Duckworth Ridge Road (CR 58/2)</u>	
Quadrangle:	<u>West Union</u>	Generally used farm name:	<u>CNX</u>	
Watershed:	<u>Headwaters Middle Island Creek</u>			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator:	<u>CNX Gas Company LLC</u>	Address:	<u>1000 CONSOL Energy Drive</u>
Telephone:	<u>724-485-3244</u>		<u>Canonsburg, PA 15317</u>
Email:	<u>SarahWeigand@cnx.com</u>	Facsimile:	_____

Oil and Gas Privacy Notice:

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

TMP 1-17-5	
Surface Owner	Address
CNX Gas Company LLC	1000 Consol Energy Drive Canonsburg, PA 15317
Coal Owner	Address
CNX Gas Company LLC	1000 Consol Energy Drive Canonsburg, PA 15317

RECEIVED
Office of Oil and Gas

NOV 15 2021

PA Department of
Environmental Protection

12/17/2021



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

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

October 11, 2021

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

RE: SHR37MHSM Waiver Request

To Whom It May Concern:

CNX Gas Company LLC (CNX) as surface and coal owner of the SHR37MHSM drill tract hereby waives the right to receive the Notice of Intent to Drill. An executed Voluntary Statement of No Objection form has been included with this application.

If any further information or correspondence is required, please contact me at (724) 485-3244 or SarahWeigand@cnx.com.

Sincerely,

A handwritten signature in blue ink that reads 'Sarah Weigand'. The signature is written in a cursive, flowing style.

Sarah Weigand

12/17/2021

WW-6RW
(1-12) CNX # 294099001

API NO. 47-095 - 02770
OPERATOR WELL NO. See Exhibit A
Well Pad Name: SHR 37

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

The well operator, CNX GAS COMPANY LLC is applying for a permit from the State of West Virginia to conduct oil or gas well work. Please be advised that well work permits are valid for twenty-four (24) months.

Well Location Restrictions

Pursuant to West Virginia Code § 22-6A-12(a), 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.

WAIVER

I, Timothy Surmick, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through ALL, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 513285.2620 m
County: Tyler UTM NAD 83 Northing: 4356027.9910 m
District: Centerville Public Road Access: Duckworth Ridge Road (CR 58/2)
Quadrangle: West Union Generally used farm name: CNX
Watershed: Headwaters Middle Island Creek

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials and I therefore waive all well site restrictions listed under West Virginia Code § 22-6A-12(a).

WELL SITE RESTRICTIONS BEING WAIVED

*Please check all that apply

- EXISTING WATER WELLS
- DEVELOPED SPRINGS
- DWELLINGS
- AGRICULTURAL BUILDINGS

FOR EXECUTION BY A NATURAL PERSON

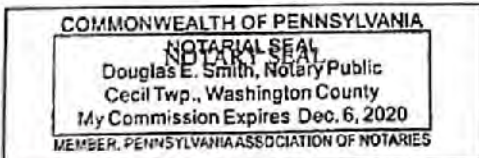
Signature: _____
Print Name: _____
Date: _____

FOR EXECUTION BY A CORPORATION, ETC.

Company: CNX Gas Company LLC
By: Timothy Surmick
Its: Assistant Vice President
Signature: _____
Date: 12/17/2020

Well Operator: CNX GAS COMPANY LLC
By: Raymond Hoon
Its: Permitting Supervisor

Signature: _____
Telephone: 724-485-3540



Subscribed and sworn before me this 17 day of December
Douglas E. Smith Notary Public
My Commission Expires 12-6-2020

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 regulatory 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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

NOV 15 2021

WV Department of Environmental Protection

12/17/2021

WW-6RW Well Location Restriction Waiver

EXHIBIT A

SHR37HSM

Operator Well No.

- SHR37DHSM
- SHR37EHSM
- SHR37FHSM
- SHR37GHSM
- SHR37HHSM
- SHR37IHSM
- SHR37KHSM
- SHR37LHSM
- SHR37MHSM
- SHR37NHSM
- SHR37OHSM
- SHR37PHSM
- SHR37QHSM
- SHR37RHSM

SARAH SHILACK
 CAMPBELL DEVELOPMENT
 2006 E CARSON STREET
 PITTSBURGH, PA 15203-1902

Neil A Archer II
 TYLER County 10:31:58 AM
 Instrument No 1191946
 Date Recorded 12/18/2018
 Document Type OG
 Pages Recorded 2
 Book-Page 627-619
 Recording Fee \$5.00
 Additional \$6.00

RECEIVED
Office of Oil and Gas

NOV 15 2021

WV Department of
Environmental Protection

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

Instructions to Persons Named on Page WW-6A

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

Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

I, Sarah Weigand, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>513284.062</u>
County:	<u>Tyler</u>		Northing:	<u>4356019.448</u>
District:	<u>Centerville</u>	Public Road Access:	<u>Duckworth Ridge Road</u>	
Quadrangle:	<u>West Union</u>	Generally used farm name:	<u>CNX Gas Company</u>	
Watershed:	<u>Middle Island Creek</u>			

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

*Please check the box that applies

- SURFACE OWNER
- SURFACE OWNER (Road and/or Other Disturbance)
- SURFACE OWNER (Impoundments/Pits)
- COAL OWNER OR LESSEE
- COAL OPERATOR
- WATER PURVEYOR
- OPERATOR OF ANY NATURAL GAS STORAGE FIELD

FOR EXECUTION BY A NATURAL PERSON

Signature: _____
 Print Name: _____
 Date: _____

FOR EXECUTION BY A CORPORATION, ETC.

Company: CNX Gas Company LLC
 By: Sarah Weigand
 Its: Permitting Manager
 Signature: Sarah Weigand
 Date: 11/3/2021

Oil and Gas Privacy Notice:

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

NOV 15 2021

Section V – Proposed Additives to be used in Fracturing or Stimulations		
Chemical	Chemical Name	CAS No.
28% HCL Acid	Water	7732-18-5
	Hydrogen Chloride	7647-01-0
ACI-150	Methyl Alcohol	67-56-1
	N,N-Dimethylformamide	68-12-2
	Ethylene glycol	107-21-1
	2-Butoxyethanol	111-76-2
	Poly(oxy-1,2-ethanediyl),.alpha.-(4-nonylphenyl)-.omega.-hydroxy-,branched	127087-87-0
	Tar Bases, quinoline derivs, benzyl chloride-quat	72480-70-7
	Cinnamaldehyde	104-55-2
Citric Acid 50%	Citric Acid	77-92-9
	Water	7732-18-5
StimSTREAM FR 9800	Alkanes, C16-20-iso	90622-59-6
	Butene, homopolymer	9003-29-6
	Ethoxylated alcohols (C12-18)	68213-23-0
StimSTREAM SC 398	Bis(HexaMethylene Triamine Penta (Methylene Phosphonic Acid) (BHMT)	34690-00-1
	Non-hazardous substances	Proprietary
Clearal 268	Glutaraldehyde	111-30-8
	Didecyl dimethyl ammonium chloride	7173-51-5
	Quaternary Ammonium Compounds	68424-85-1
	Ethanol	64-17-5
	Non-hazardous substances	Proprietary
VB 625	Heavy Aliphatic Naphtha	64742-96-7
	TRADE SECRET	Proprietary
	TRADE SECRET	Proprietary
	TRADE SECRET	Proprietary
	Guar gum	9000-30-0
Ammonium Persulfate	Ammonium Persulfate	7727-54-0



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

D. Alan Reed, P.E.
State Highway Engineer

Jimmy Wriston, P. E.
Secretary of Transportation
Commissioner of Highways

October 12, 2021

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

Subject: DOH Permit for the SHR-37 Pad, Tyler County
SHR37MHSM Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2018-0949 which has been issued to CNX Gas Company for access to the State Road for a well site located off Tyler County Route 58/2 SLS MP 0.25.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

Cc: Becky Zachwieja
CNX Gas Company
CH, OM, D-6
File

RECEIVED
Office of Oil and Gas

NOV 15 2021

WV Department of
Environmental Protection

National Flood Hazard Layer FIRMette



39°21'27.88"N



USGS The National Map, Orthorectified, Data refreshed October, 2017. 39°21'0.15"N

0 250 500 1,000 1,500 2,000 Feet 1:6,000

Legend

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

- | | | |
|------------------------------------|--|--|
| SPECIAL FLOOD HAZARD AREAS | | Without Base Flood Elevation (BFE)
Zone A, V, ASP |
| | | With BFE or Depth Zone AE, AO, AH, VE, AR |
| | | Regulatory Floodway |
| OTHER AREAS OF FLOOD HAZARD | | 0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone J |
| | | Future Conditions 1% Annual Chance Flood Hazard Zone X |
| | | Area with Reduced Flood Risk due to Levee, See Notes, Zone X |
| | | Area with Flood Risk due to Levee Zone D |
| OTHER AREAS | | Area of Minimal Flood Hazard Zone X |
| | | Effective LOMRs |
| GENERAL STRUCTURES | | Area of Undetermined Flood Hazard Zone C |
| | | Channel, Culvert, or Storm Sewer |
| | | Levee, Dike, or Floodwall |
| OTHER FEATURES | | Cross Sections with 1% Annual Chance Water Surface Elevation |
| | | Coastal Transect |
| | | Base Flood Elevation Line (BFE) |
| | | Limit of Study |
| MAP PANELS | | Jurisdiction Boundary |
| | | Coastal Transect Baseline |
| | | Profile Baseline |
| | | Hydrographic Feature |
| | | Digital Data Available |
| | | No Digital Data Available |
| | | Unmapped |
| | | The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location. |



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/19/2018 at 11:31:08 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

80°50'24.73"W



LOCATION MAP
15055 WEST LINCOLN, WV
Scale 1"=2000'

CNX RESOURCES CORPORATION

SHIRLEY 37 WELL PAD

AS-BUILT

ENTRANCE LOCATION

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

CENTERVILLE DISTRICT,
 TYLER COUNTY, WEST VIRGINIA

DATE: JULY 02, 2019



LOCATION MAP
Scale 1"=2000'

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



Know what's below.
 Call before you dig.

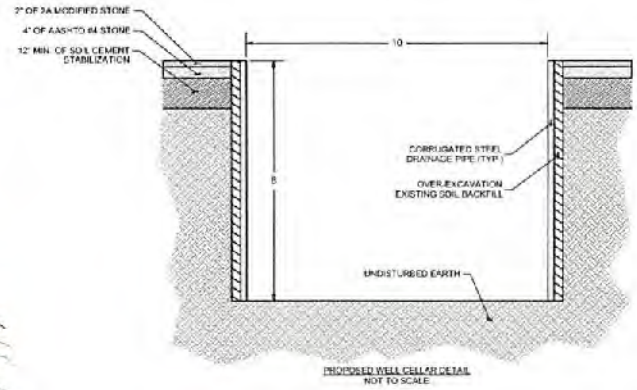
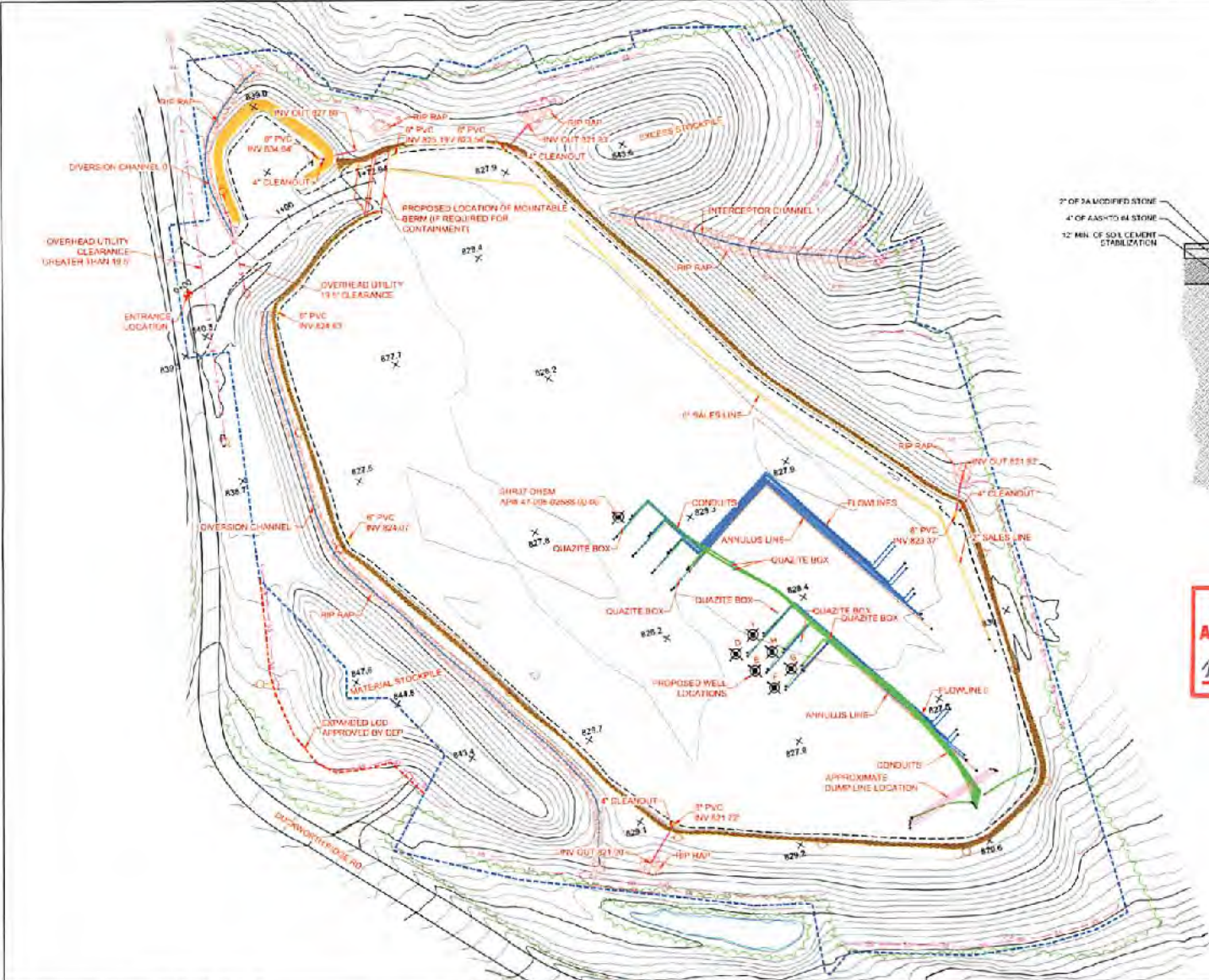
Note: Drawing was created on 22x34 paper. 11x17 drawings are half scale. Refer to scale bar for proper scaling.

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

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	<small>DATE: 10-28-15</small> <small>DATE: 10-28-15</small> <small>DATE: 10-28-15</small> <small>DATE: 10-28-15</small>	<small>PROJECT NO:</small> <small>CONTRACT NO:</small> <small>PROJECT NO:</small> <small>PROJECT NO:</small>	<small>PROJECT NO:</small> <small>CONTRACT NO:</small> <small>PROJECT NO:</small> <small>PROJECT NO:</small>	<small>PROJECT NO:</small> <small>CONTRACT NO:</small> <small>PROJECT NO:</small> <small>PROJECT NO:</small>	<small>PROJECT NO:</small> <small>CONTRACT NO:</small> <small>PROJECT NO:</small> <small>PROJECT NO:</small>

DIARY OF PROPOSED WELL SPOTS AND SITE LOCATION

POINT	API #	NAD83 N/E NORTH	UTM NAD83 (7) (METERS)
		EASTING	NORTHING
SHR37 G	TRD	397719.389	4550943.033
SHR37 E	TRD	397719.389	4550943.033
SHR37 F	TRD	397719.389	4550943.033
SHR37 G	TRD	397719.389	4550943.033
SHR37 H	TRD	397719.389	4550943.033
SHR37 I	TRD	397719.389	4550943.033
ENTRANCE		397719.389	4550943.033



**WVDEP OOG
ACCEPTED AS-BUILT**

WJL 10/31/2019

- LEGEND**
- - - - - EDGE OF GRAVEL
 - - - - - DITCH
 - - - - - OPENING LINE
 - - - - - TRESLINE
 - - - - - S-LET SOCK
 - - - - - COMPOSITE F-LET SOCK
 - - - - - POST
 - - - - - UTILITY POLE
 - - - - - RIP RAP
 - - - - - BERM
 - - - - - FLOWLINE
 - - - - - ANNULUS LINE
 - - - - - CONDUIT LINES
 - - - - - SALES LINES
 - - - - - DUMP LINES
 - - - - - QUARTZITE BOX
 - - - - - OVERHEAD UTILITY



NOTE: DRAWING WAS CREATED ON 22x36 PAPER. EXIST DRAWINGS ARE HALF SCALE. REFER TO SCALE BAR FOR PROPER SCALING.

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NO.	REV.	DATE	DESCRIPTION
1	001	10/28/19	ISSUED FOR PERMITS
2	002	10/28/19	ISSUED FOR PERMITS
3	003	10/28/19	ISSUED FOR PERMITS
4	004	10/28/19	ISSUED FOR PERMITS
5	005	10/28/19	ISSUED FOR PERMITS
6	006	10/28/19	ISSUED FOR PERMITS
7	007	10/28/19	ISSUED FOR PERMITS
8	008	10/28/19	ISSUED FOR PERMITS
9	009	10/28/19	ISSUED FOR PERMITS
10	010	10/28/19	ISSUED FOR PERMITS

CNX
CNX RESOURCES CORPORATION
TYLER COUNTY ENERGY SERVICES
CANTON, OHIO 44705

NO.	REV.	DATE	DESCRIPTION
1	001	10/28/19	ISSUED FOR PERMITS
2	002	10/28/19	ISSUED FOR PERMITS
3	003	10/28/19	ISSUED FOR PERMITS
4	004	10/28/19	ISSUED FOR PERMITS
5	005	10/28/19	ISSUED FOR PERMITS
6	006	10/28/19	ISSUED FOR PERMITS
7	007	10/28/19	ISSUED FOR PERMITS
8	008	10/28/19	ISSUED FOR PERMITS
9	009	10/28/19	ISSUED FOR PERMITS
10	010	10/28/19	ISSUED FOR PERMITS

THRASHER
101 THASHER DRIVE, SUITE 100
CANTON, OHIO 44705
WWW.THRASHER.COM

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6	006	10/28/19	ISSUED FOR PERMITS
7	007	10/28/19	ISSUED FOR PERMITS
8	008	10/28/19	ISSUED FOR PERMITS
9	009	10/28/19	ISSUED FOR PERMITS
10	010	10/28/19	ISSUED FOR PERMITS

CNX RESOURCES CORPORATION
SHIRLEY 37 SITE
PAO AS-BUILT
TYLER COUNTY, WEST VIRGINIA
PLAN VIEW

SHEET NO.
2

SHR-37 WELL PAD

Erosion & Sedimentation Control Plan

RECEIVED
Office of Oil and Gas
NOV 15 2021
West Virginia Department of Environmental Protection

Centerville District, Tyler County, West Virginia

Prepared For:
CNX GAS COMPANY, LLC

APPROVED
WVDEP OOG
1/25/2019

SITE ENTRANCE COORDINATES:
N39°21'15.37"
W80°50'48.61"
(39.354269, -80.846836)

WELL PAD CENTER:
N39°21'12.90"
W80°50'44.67"
(39.353583, -80.845742)

1000 CONSOL Energy Drive
Canonsburg, PA 15317

Issue Date: November 19, 2018
Revised: January 16, 2019

DRAWING SCHEDULE

SHEET NO.	SHEET TITLE
1 OF 13	TITLE SHEET
2 OF 13	GENERAL NOTES
3 OF 13	EXISTING CONDITIONS PLAN
4 OF 13	SITE SOILS PLAN
5 OF 13	EROSION & SEDIMENTATION CONTROL AND GRADING PLAN
6 OF 13	ACCESS ROAD PROFILES, SECTIONS, AND OFFSET EXHIBIT
7 OF 13	WELL PAD PROFILES
8 OF 13	GEOTECHNICAL DETAILS
9 OF 13	EROSION AND SEDIMENTATION CONTROL DETAILS
10 OF 13	CONSTRUCTION DETAILS
11 OF 13	SITE RESTORATION PLAN
12 OF 13	SITE REVEGETATION PLAN
13 OF 13	QUANTITY SUMMARY

SITE VICINITY MAP



SITE LOCATION MAP



LANDOWNER IMPACT TABLE

ACRES	LANDOWNER
8.5	CNX Gas Company, LLC 01-17-5



Prepared By:
Sheffler & Company, Inc.
ENGINEERING • SURVEYING

1712 Mt. Nebo Road
Sewickley, PA 15143

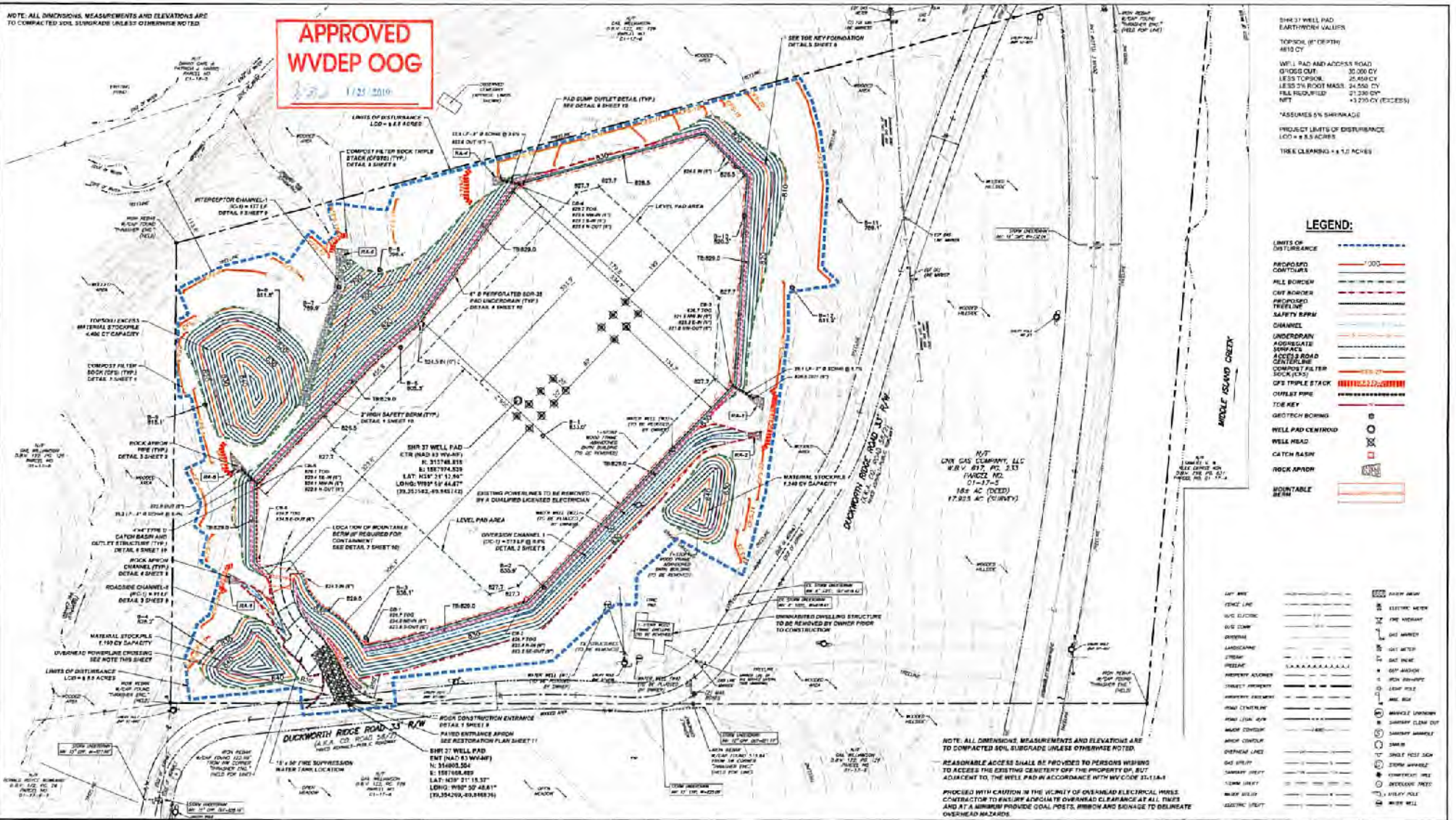
Office Phone: 412-219-4509
Email: Info@ShefflerCo.com

Cragin Blevins
Digitally signed by Cragin Blevins
Date: 2021.11.08 10:40:01 -05'00'

NOTE: ALL DIMENSIONAL MEASUREMENTS AND ELEVATIONS ARE TO COMPACTED SOIL SURFACE UNLESS OTHERWISE NOTED

APPROVED
WVDEP OOG

1/23/2010



LEGEND:

LIMITS OF DISTURBANCE	- - - - -
PROPOSED CONTOURS	—————
PILE BORDERS	—————
EXIST. BORDERS	—————
PROPOSED TRAILLINE	—————
SAFETY BARRIERS	—————
CHANNEL	—————
UNDERDRAIN	—————
AGGREGATE SURFACE	—————
ACCESS ROAD	—————
CENTRAL LINE	—————
COMPOST FILTER ROCK (C-FR)	—————
OUTLET PIPE	—————
THE KEY	—————
GEOTECH BORING	B
WELL PAD CENTERLINE	○
WELL HEAD	⊙
CATCH BASIN	⊠
ROCK APRON	⊞
STABLE BERM	—————

PIPE	—————	PROPERTY BOUNDARY	—————
ROCK APRON	⊞	EXISTING UTILITY	—————
WELL PAD CENTERLINE	○	PROPOSED UTILITY	—————
WELL HEAD	⊙	EXISTING CONDUIT	—————
CATCH BASIN	⊠	PROPOSED CONDUIT	—————
ROCK APRON	⊞	EXISTING PIPE	—————
STABLE BERM	—————	PROPOSED PIPE	—————

NOTE: ALL DIMENSIONAL MEASUREMENTS AND ELEVATIONS ARE TO COMPACTED SOIL SURFACE UNLESS OTHERWISE NOTED

REASONABLE ACCESS SHALL BE PROVIDED TO PERSONS WISHING TO ACCESS THE EXISTING CEMETERY OFF THE PROPERTY OF, BUT ADJACENT TO, THE WELL PAD IN ACCORDANCE WITH WV CODE 33-13-4

PROCEED WITH CAUTION IN THE VICINITY OF OVERHEAD ELECTRICAL LINES. CONTRACTOR TO MAINTAIN ADEQUATE OVERHEAD CLEARANCE AT ALL TIMES AND AT A MINIMUM PROVIDE GOAL POSTS, BRIBBON AND SIGNAGE TO DELINEATE OVERHEAD MAZARDS

Where it's below, Call before you dig.

WV 811: 800-858-1515

Horizontal Scale

Date	Revision Description	By	Professional Seal	Prepared By
1/23/10	FOR SHR 37 WELL PAD CENTERLINE PLAN SHEET 1/18	DAVE		

Sheffer & Company, Inc.
ENGINEERING • SURVEYING

1733 Ashford Road, Sewerby, PA 15942 | Phone: (812) 782-6099 | Email: info@sc-m.com

SHR 37 WELL PAD
Centerville District, Tyler County, West Virginia

Designed for:

EROSION & SEDIMENTATION CONTROL AND GRADING PLAN		
DRAWING SCALE: AS NOTED	DESIGNED BY: KDP	
DATE ISSUED: 1/17/2010	REVIEWED BY: GAS	
PROJECT JOB#: 3738-21-00-02	FIELD BOOK #:	
CADD#:		

John Wood, Jr.
1905 S. 26th Ave., Suite 20
Martinsburg, WV 26157
Phone: (304) 283-2000

Sheet No.
5/13