



---

west virginia department of environmental protection

---

Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

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

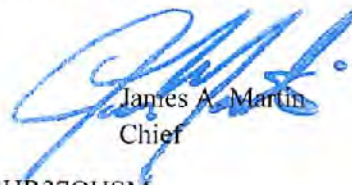
CNX GAS COMPANY LLC  
1000 CONSOL ENERGY DR  
CANONSBURG, PA 15370

Re: Permit approval for SHR37QHSM  
47-095-02774

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: SHR37QHSM  
Farm Name: CNX GAS COMPANY LLC  
U.S. WELL NUMBER: 47-095-02774  
Horizontal 6A New Drill  
Date Issued: 12/16/2021

Promoting a healthy environment.

12/24/2021

# 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](mailto:DEPOOGNotify@wv.gov).

12/24/2021

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: SHR37QHSM 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  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
Other \_\_\_\_\_  
(b) If Gas Shallow  Deep \_\_\_\_\_  
Horizontal

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: 14,513' MD at TD

11) Proposed Horizontal Leg Length: 7,605'

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

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

Cragin Blevins  
Digitally signed by Cragin Blevins  
Date: 2021.11.09 11:30:59 -0500

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

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	5150	5150 /	1,725 / CTS
Production	5.5	New	P-110	20	14,513	14,513 /	3,754 / TOC @ 2,100
Tubing	2.375	New	J-55	4.7	Above assumes RF = 29'	TBD	N/A
Liners	N/A						

*908 11/17/21*

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 PBSD. 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:

Fresh water/coal string: Class A cement with 1%-3% CaCl<sub>2</sub> and 1/4 pps cello-flake/LCM. Intermediate string: Class A cement with 0%-2% CaCl<sub>2</sub> 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:

Cragin Blevins Digitally signed by Cragin Blevins  
Date: 2021.11.09 11:31:42 -0500

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

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



**DRILLING WELL PLAN**  
 SHR37Q HSM-HS (Marcellus H2)  
 Marcellus Shale Horizontal  
 Tyler County, WV

Ground Elevation	1273.08	SHR37Q HSM LP (Lentlung)	306346.41 N, 1623155.85E (NAD27)
Acn	161'		

WELLBORE DIAPHRAGM	HOLE	CASING	GEOLOGY	Depths from RKB			CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
				MD	TVD	MLD				
	38"	28"	Conductor	100	160	AIR	To Surface	N/A	Ensure the hole is clean at TD.	Statistics surface float conductor casing = 0.37" wall thickness
			DRGM	240						
	17.5"	13.3/8" 54.5# J-55 BTC	Freeport Coal	183	183	AIR	18.8 890 Class H *2% CMC, 0.25% Lead 20% Excels Yield = 1.295	Flow Spring on face 2 joints in 100' from surface	Stop the hole while drilling below base of Freeport Coal. If Freeport casing = 0.387" wall thickness, 0.09" = 27.90 psi	Casing to be run 100' below the set-back block. Intermediate casing = 0.337" wall thickness. Bitsets 3500 psi
			un-named shale and sand	184	184					
			Coal Casing	370	370					
			Hardam Coal	555	555					
			Bakerdown Coal	647	647					
			Upper Kilmahing Coal Seam	884	884					
			Middle Kilmahing Coal Seam	1,021	1,021					
			Lower Kilmahing Coal Seam	1,073	1,073					
			Lilia Lime	1,615	1,615					
			Keener / Big Indian Top	1,656	1,656					
	12.25"	J-55 L TC	Pison Formation (Seam of Big Indian)	1,736	1,736	AIR	15.8 890 Class A -0.4% Rex, 0.15% Dye, 0.2% Aulcran, 0.125% Lead 20% Excels Yield = 1.203 To surface	Flow Spring centralizers every third joint to 100' from surface	Ensure the hole is open at TD.	Casing to be run 100' below the set-back block. Intermediate casing = 0.337" wall thickness. Bitsets 3500 psi
			Wick Sand	1,876	1,876					
			Big Indian	2,028	2,028					
			Berea	2,176	2,176					
			Clinton	2,268	2,268					
			Warren Sand	3,168	3,168					
			Bearson	4,758	4,758					
			Avganator	4,896	4,896					
			Int. Casing	5,192	5,000					
			Carbonyl Shale	6,964	5,746	AIR	15.890 Class A 25750 System			
	8.75" Vertical		Middlesex	7,364	6,146		*2.5% Cement extender, 0.7% Fluid Loss additive, 0.4% High Temp Reducer			
			Berkel Shale	7,475	6,257		0.4% High Temp Reducer			
			Tully Limestone	6,293	5,075		12.55% Excels	Unbody bonding every 100' to TIC		
	8.5" Curve 15-110	5-1/2" 23# 15-110	Hemlin Shale	6,313	5,095		10% Excels Yield = 1.27	Once on bottom with casing circulate a minimum of one hole volume prior to purging cement.	Disc at TD, circulate at minimum allowable pump rate for at least 60 minutes up. Once on bottom with casing circulate a minimum of one hole volume prior to purging cement.	Production casing = 0.381" wall thickness. Intermediate casing = 0.337" wall thickness. Bitsets 3500 psi
			Upper Marcellus	6,332	5,114					
			Middle Marcellus	6,344	5,126					
			Cherry Valley	6,358	5,140					
			Lower Marcellus	6,368	5,150					
			Oriental Limestone	6,375	5,157					

LP @ +/- 6302  
 TVD  
 8.75 / 8.5 Hole - Cemented Long String  
 5-1/2" 23# P-110  
 +/- 7600' N. Latival  
 TD @ +/- 14513' MD  
 X-centrifugers

Point	SHR37	Inputs	MD	TVD
Wellbore	Q HSM	1273.08	0.00	N/A
Ground Elev	161'		67.38	5586
Admitt	7895		6908	6302
Lat Length				
Coordinate System	NAD27			
TVD	6302			
SHL	Northing	161 0421.12		
KOP	NA	NA		
LP	313536.40	1623155.85		
BHL	306346.41	1623155.85	14513	6302

*QOS 11/17/21*

*4709502774*



## 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.

RECEIVED  
Office of Oil and Gas

NOV 15 2021

WV Department of  
Environmental Protection

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.

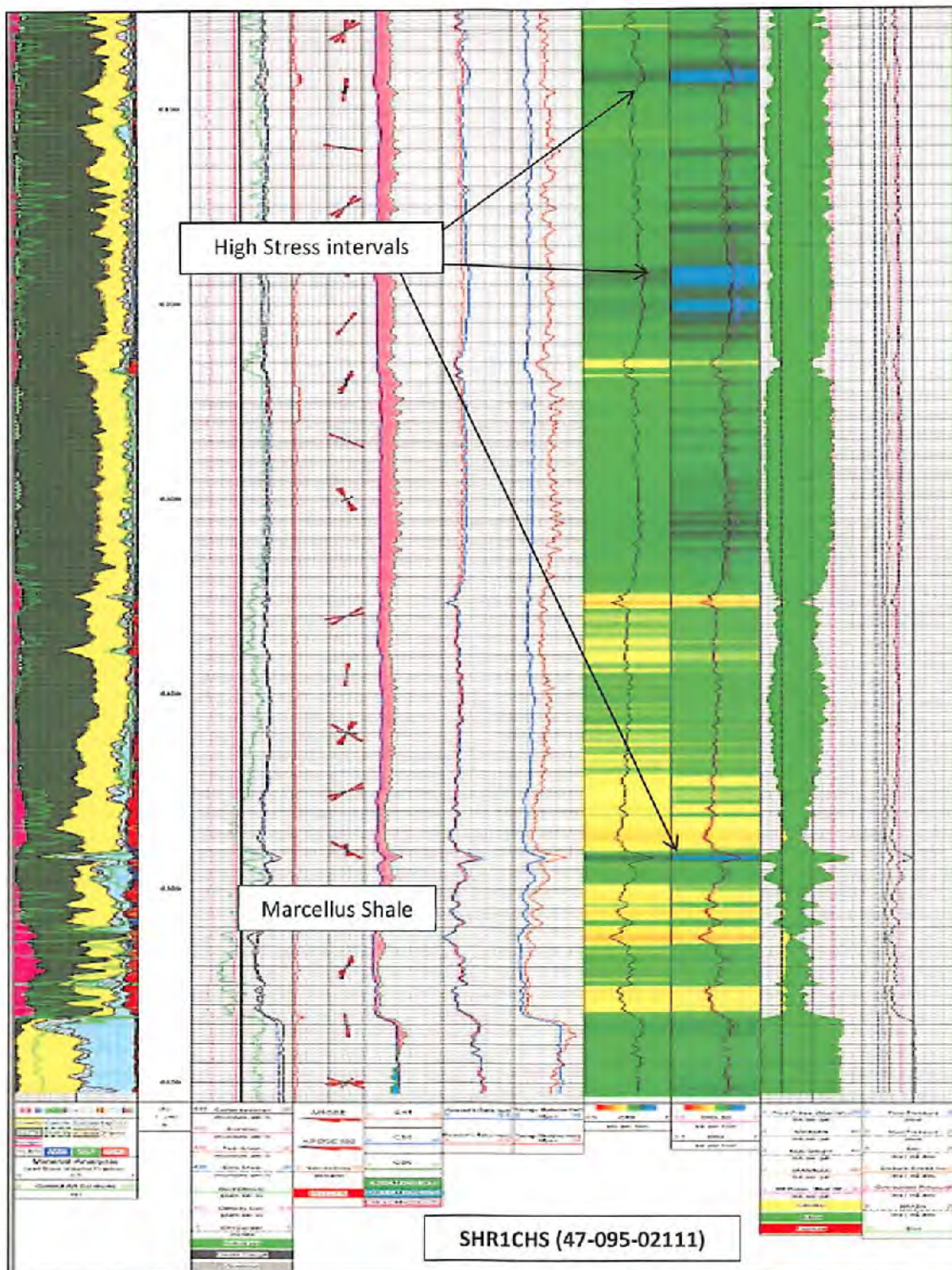


Figure 2. Stratigraphic intervals of high stress should serve as adequate frac barriers for a Marcellus frac. The frac modeling example below is from the Oxford area of western Doddridge County, where the Marcellus and adjacent shales are lithologically similar to the same formations in the Shirley area. 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.

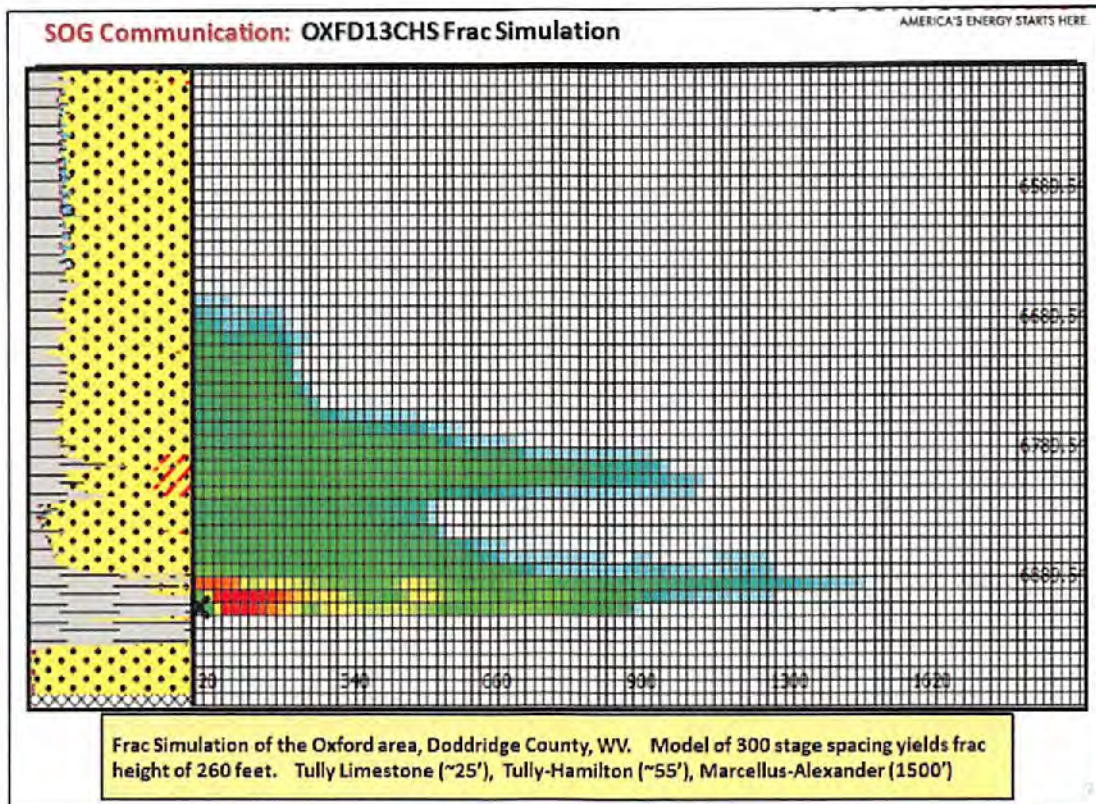


Figure 3. All wells within a 1000' buffer around the laterals have been reviewed and listed below. Wells with TD less than 3000' are colored green and TD' deeper than 3000' colored red.

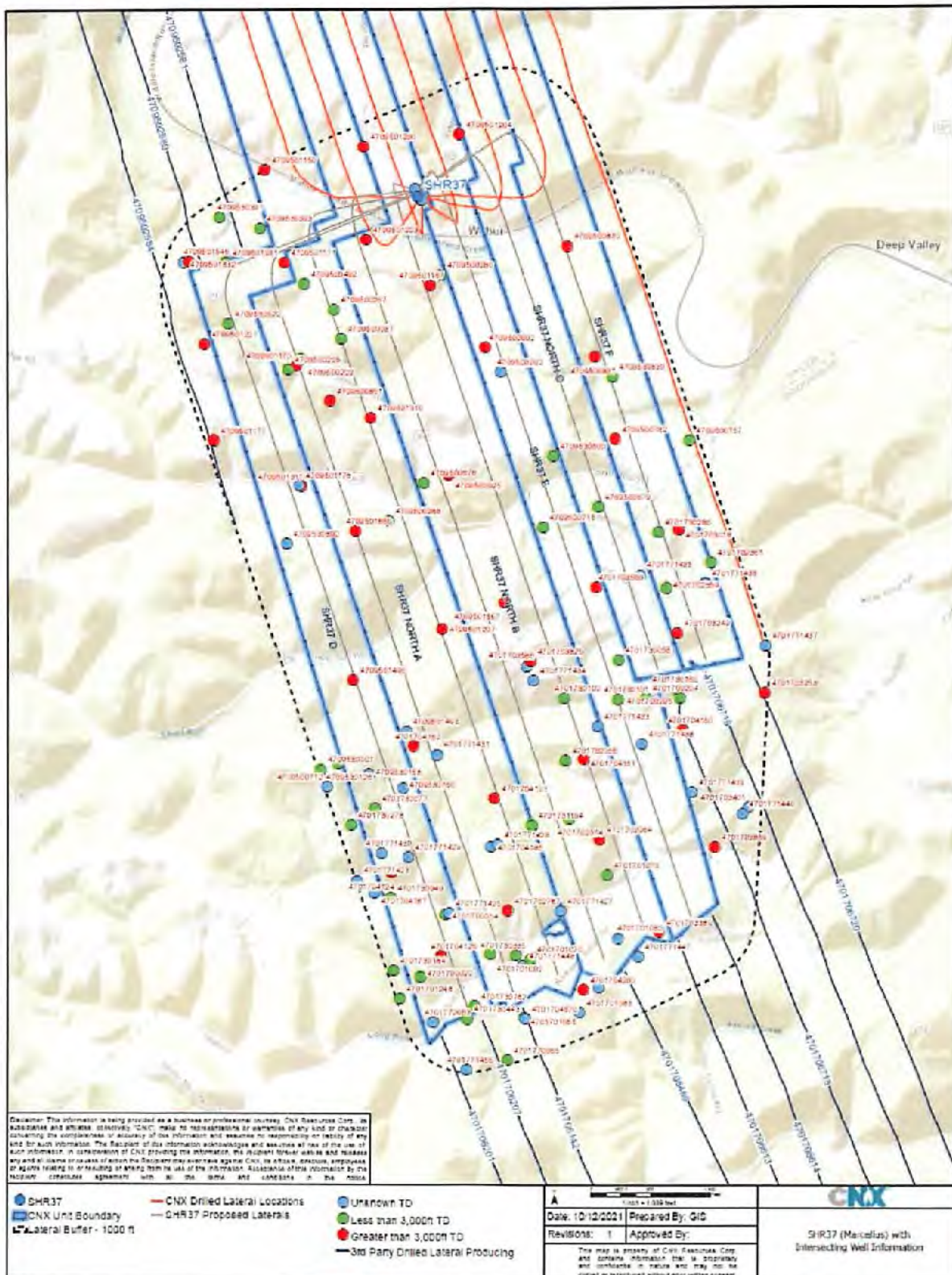


Figure 4. A list of all wells within a 1000' buffer around the laterals have been reviewed and listed below.

ApiId	CurrentOperator	WellName	CurrentStatus	TotalDepth	FormationAtTL
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	2360	WEIR
4701703859	HARPER CROSBY HOLDINGS, LLC	JAMES 1	ACTIVE	5091	BENSON
4701704182	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	MCCUTCHAN, W. PAUL J-515	ACTIVE	5428	BENSON
4709501204	DIVERSIFIED GAS & OIL PLC	HARRIS, DANNY & PATRICIA WVGK-2552	ACTIVE	4919	BENSON
4709500879	RITCHIE PETROLEUM CORPORATION, INC.	BRADFORD, HATTIE 2	ACTIVE	2313	WEIR
4709501221	GREYLOCK CONVENTIONAL	AYERS, VIRGINIA J-1385	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-664	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
4709501689	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	FormationATTD
4701700014	RITCHIE PETROLEUM CORPORATION, INC.	DOTSON, ARLINGTON 2	INACTIVE	1845	INJUN
4701704186	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, H. 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
4701770063	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	1882	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	2682	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
4709530160	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	2968	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#	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
4709500762	BRAXTON OIL & GAS CORP.	MULVAY J-162	P & A	5100	UNKNOWN

WW-9  
(4/16)

API Number 47 - 095 - 02774  
Operator's Well No. SHR37QHSM

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, 47-097-01613, 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 subsurface to covee 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 landfill

-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.

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 1269663  
Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 10<sup>th</sup> day of November, 20 21

Rebecca Zachwieja Notary Public

My commission expires November 7, 2023

Cragin Blevins  
Digitally signed by Cragin Blevins  
Date: 2021.11.08 12:32:58 -05'00'

12/24/2021



**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: 2021.11.08 12:33:18 -05'00'

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: Environmental Resources Specialist III

Date: 11/8/2021

Field Reviewed? ( ) Yes (  ) No

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

Type of Waste	Disposal Company Name	Disposal Location	Disposal Location Coe Well ID / Name	Permit # (if applicable)	Accepted Waste Streams	Disposal 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.: 2608201 A-2	Brine (Produced Water) and oily water from compressor stations.	Rob Bealko 304-291-0383 Office 304-282-8814 Cell rob.bealko@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	Belmont 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.	Dave Brown 412-848-1828 Winsap 330-692-0423; dbrown@ApexLF.com
Brine Injection - Treatment	Cambrian Well Services - Kemble (Orr Petroleum Corporation)	Zanesville, Muskingum County, Perry Township, OH	39.974954, -81.845389	Kemble 1-D (SWIW#28)	34-119-2-8780	Brine (Produced Water)	Bob Orr 740-796-6495 614-648-8898 orropetro@gmail.com
Brine Injection - Treatment	CNX Resources Corporation	Buchanan County, VA	37.087460, -82.047918	BPC01	VAS2D960BBUC	CNX Owned UIC SWIWs: Frac water, brine, produced water	Contact Ops Groups
Brine Injection - Treatment	CNX Resources Corporation	Buchanan County, VA	37.222201, -81.959987	N26	VAS2D930BBUC	CNX Owned UIC SWIWs: Frac water, brine, produced water	Contact Ops Groups
Brine Injection - Treatment	CNX Resources Corporation	Buchanan County, VA	37.184198, -82.082549	U7	VAS2D926BBUC	CNX Owned UIC SWIWs: Frac water, brine, produced water	Contact Ops Groups
Brine Injection - Treatment	CNX Resources Corporation	Russell County, VA	37.120547, -81.961222	AW114A	VAS2D970BRUS	CNX Owned UIC SWIWs: Frac water, brine, produced water	Contact Ops Groups
Brine Injection - Treatment	CNX Resources Corporation	Buchanan County, VA	37.147934, -82.075320	Ball Well	VAS52D921BBUC	CNX Owned UIC SWIWs: 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; SWIW No. 20	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	39.425172, -81.507900	Order No. 2015-582; Heinrich Unit #2 Well, SWIW No. 22	API # 34-167-2-9464-00-00	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, -81.511020	Order No. 2015-581; Heinrich Unit #1 Well, SWIW 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, Marietta Township, OH	39.402842, -81.476913	Order No. 2019-79; American Growers No. 1 Well, SWIW 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

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

									Michael Chapin: Ph. 740-763-3966 Cell 740-403-9664 tantrumr@aol.com
Brine Injection - Treatment	EGO Water Solutions LLC	5367 E. State Street, Newcomerstown, OH 43832	40.283293, - 81.578068	Mozena #1 Well (SWW #13)	API # 34-157-2-5511	Brine (Produced Water)			Robert Schenken Director Business Development HydroEdge Solutions Wisconsin White Sand rschenken@hydroedgesolutions.com Cell 412.295.3614
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: 412.289.0069 Office: 724.465.9399 bforce@forceincorporated.com
Brine Injection - Treatment	Environmental Energy Services LLC (Force, Inc.)	Barnsville, Belmont County, OH	NEED	Barnsville (SWW #2)	34-013-2-0609 LIC #509	Frac water, brine, produced water			Bryan Force Mobile: 412.289.0069 Office: 724.465.9399 bforce@forceincorporated.com
Brine Injection - Treatment	Gas Field Services, Inc.	200 Camp Creek Road, Camp Creek, WV 25820	37.495138, -81.105161	Camp Creek Disposal Well	UIC: UIC2D0550319 API: 47-055-00319	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.			Zachery Reed zacheryr4@yahoo.com PO Box 555, Rosedale, VA 24280 Phone: (276) 880-2323
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			Gary Carpenter 267-246-6176 JRBGCarpenter@aol.com Office: (330) 270-9900
RW & TENORM	Ground Tech LLC	240 Sinter Court, Youngstown, OH 44510	41.113260, - 80.674500	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 330-398-5919 lchamberlain@gtc-inc.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			Ashley Cromley 570-394-4450 Ashley.cromley@hydrorecoverylp.com
Non-Haz Disosal	Mascaro & Sons- Wetzel Co LF	1521 Wetzel County Landfill Rd. New Martinsville, WV 26155	N/A	Wetzel County 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, Process Waste, Municipal Solid Waste			Terry Gadd terry.gadd@jpmascaro.com, 610-636-4133
RW & TENORM	Mud Masters LLC	64054 Wintergreen Rd Lore City, OH 43725	40.027531, - 81.449219	N/A	N/A	Non-radioactive material, low level radioactive material (NORM/TENORM), and high level TENORM material handling, storage, and transport. (TENORM downblending of low level TENORM material (< 85 pCi) on-site. High level TENORM (< 85 pCi) materials will be directed to Austin Master Services in Martins Ferry, Ohio by Ground Tech).			Tom Melnert 740-255-0257 heavymudmasters@gmail.com
Non-Haz Disosal	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) 929-7694
RW & TENORM	Pressure Tech	7675 East Pike Norwich, Ohio 43767	39.97415, -81.844765	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.			Bob Orr: 614-648-8838
City & Oily Water Treat - Recycle	Quila	515 Industrial Blvd., Wooster, OH 44691	N/A	N/A	N/A	Non-hazardous wastewater, transportation, treatment and disposal facility. Also offer transportation and solidification services.			330-264-8080 (O) jplater@quila.us.com
Non-Haz Disosal	Republic Services - Imperial (Allied Waste of PA)	11 Boggs 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, 330-536-2575
Brine Injection - Treatment	Reserved Environmental Services (RES)	1119 Old Route 119 South Mt. Pleasant, PA 15666	40.215555, - 79.606388	New Stanton Facility	WMGR1233W005	Oil and Gas Fluids with minimal oil and solids present			Matt Kicinski 814-574-9701 mkicinski@reswater.com
Brine Injection - Treatment	Reserved Environmental Services (RES)	506 Lippencott Road Waynesburg, PA 15370	39.945555, - 80.140833	Waynesburg Facility	WMGR1233W031	Oil and Gas Fluids with minimal oil and solids present			Matt Kicinski 814-574-9701 mkicinski@reswater.com
Hazardous Waste Disposal	Safety Klean	10 Industrial Park Drive Wheeling, Wv. 26003	N/A	Wheeling Landfill	N/A	RCRA/TSCA Waste, PCB Transformers & Capacitors, PCB Sol/Debris, Non-Hazardous Wastes, Asbestos Waste, Solidification Services			Gordon Cooper Gordon.cooper@safety-klean.com 304-215-2284 1-866-670-9034
Oily & 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 mix. Also offer transportation and solidification services. Capable of other types of waste disposal and handling with prior Environmental and Supply Chain approval.			Joe Staton: 717-360-7916 Office: 301-223-1251 Fax: 301-223-1253 jstaton@spiritservices.com

RW & TENORM	Empire Fluid Solutions (Formerly Troo Clean)	41540 National Road Belmont, OH 43718	40 0687, -81.04963	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@trooclean.com 918-413-6426 Corporate Number: 734-442-2353 Guy Turturice gturturice@valicor.com 304-963-1563 Steve Atkinson SATkinson@valicor.com
Oil & Oily Water Treat - Recycle	Valicor Environmental Services LLC	515 N. 8th Ave, Huntington, WV 25301	N/A	N/A	N/A	Approved for non-haz water treatment of oil & water mix, oil, oil filters, and antifreeze only.	
Non-Haz Disosal	Waste Management - American Landfill	7916 Chapel St SE, Waynesburg, OH 44688	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 Disosal	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 Disosal	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, 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 Disosal	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 Disosal	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 Disosal	Waste Management - Meadowhill Landfill	1488 Dawson Dr, Bridgeport, WV 26330	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 Davie: 716-286-0365 or 716-754-8231 or 800-963-4776
Non-Haz Disosal	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 Disosal	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 Disosal	Waste Management - South Hills (Arnom)	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 Disosal	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

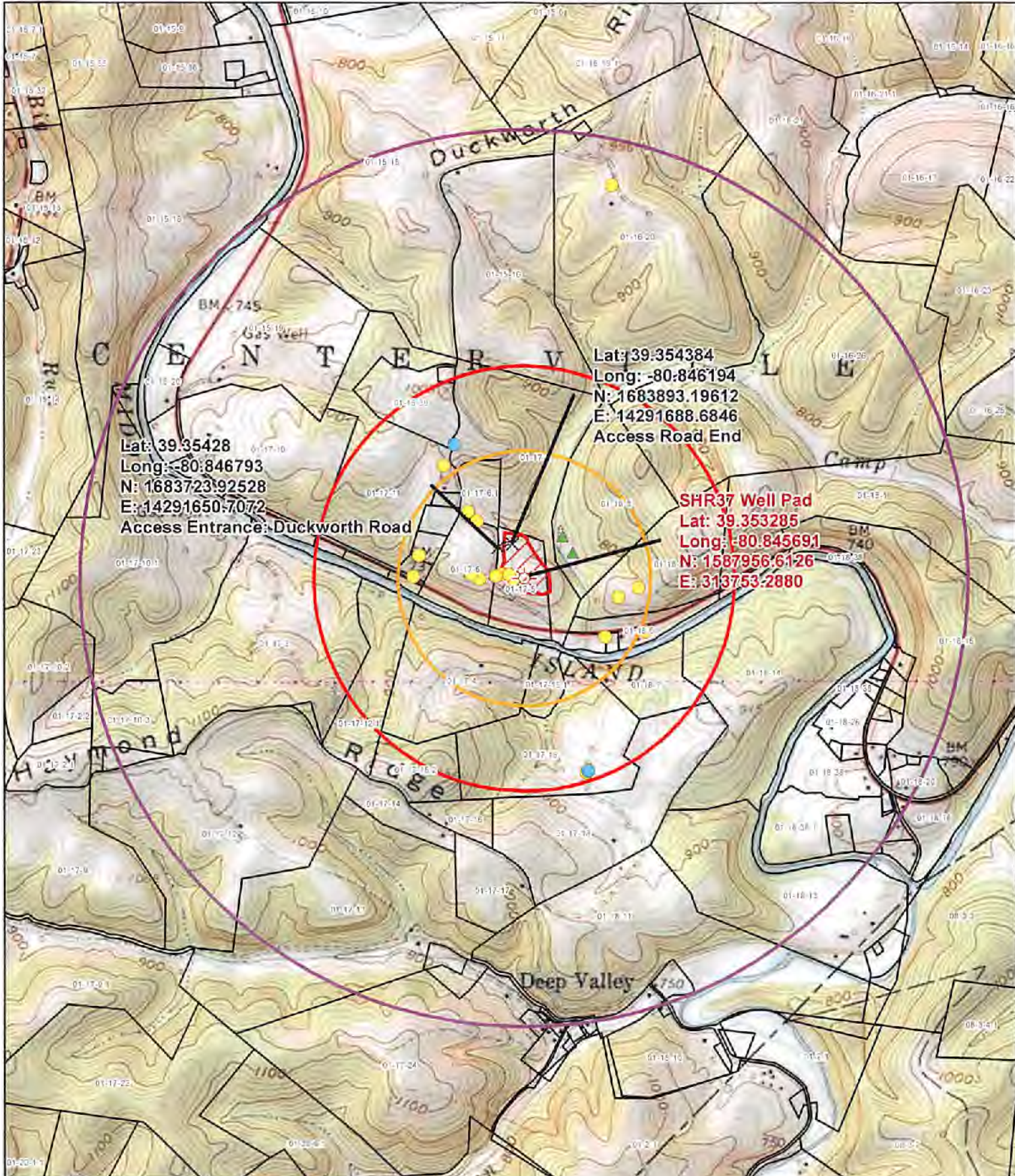
Non-Haz Disposal	Waste Management - Chestnut Ridge	385 Harr Ln, Blountville, TN 37617				Spencer to complete	Travis Maryanski tmaryanski@wm.com (865) 388-7279 Cell (205) 652-8137 Tech Service
Non-Haz Disposal	MXI Environmental Services LLC	2619 Old Trail Road Abingdon, VA 24210				Spencer to complete	John Twiddy johni@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 mudmasters takes ex	Fluid Management Solutions (FMS)	5445 US-40 East, Tridadelphia, 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



**Site Safety Plan for Well  
SHR37QHSM CNX Gas Company,**



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



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: The 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 the information acknowledges and assumes all risk of the use of such information. In consideration of CNX providing this information, the Recipient forever 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 the 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	

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.

12/24/2021  
 Prepared By: GIS  
 Approved By:

LATITUDE 39° 22' 30"

TH: 3.505'

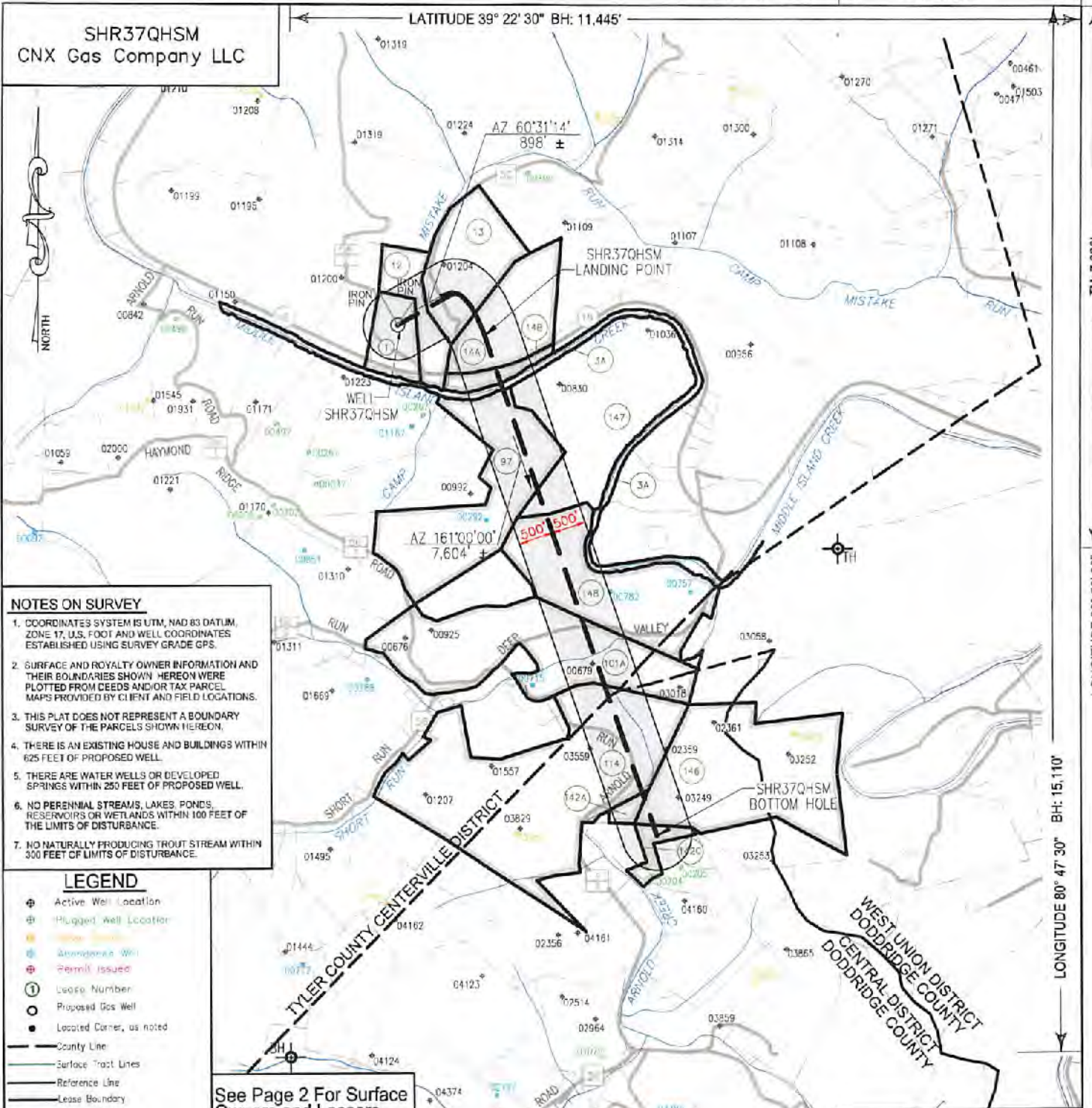
LATITUDE 39° 22' 30" BH: 11.445'

TH: 7.930'

LONGITUDE 80° 50' 00"

LONGITUDE 80° 47' 30" BH: 15.110'

SHR37QHSM  
CNX Gas Company LLC



**NOTES ON SURVEY**

- COORDINATES SYSTEM IS UTM, NAD 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 CEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOGATIONS.
- 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
- Plugged Well Location
- Abandoned Well
- Permit Issued
- Loop 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

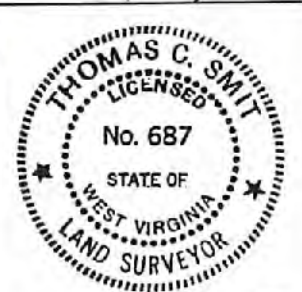
See Page 2 For Surface Owners and Lessors

(●) 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

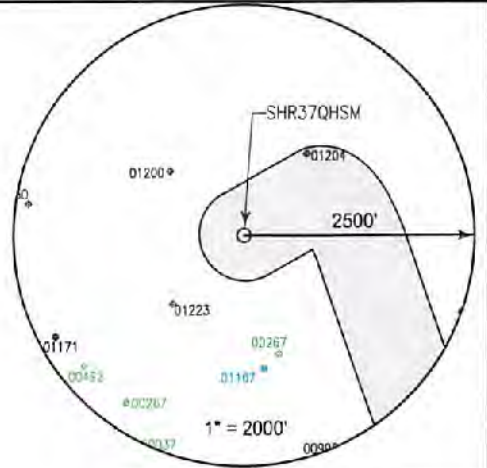
FILE NO: \_\_\_\_\_  
 DRAWING NO: \_\_\_\_\_  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1:2500  
 PROVEN SOURCE OF ELEVATION: SG-GPS (OPUS)

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

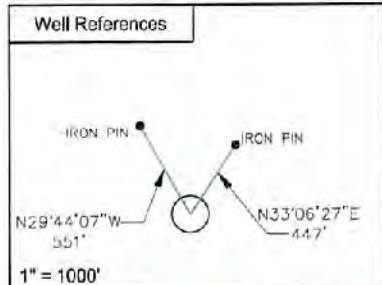
DATE: November 03 20 21  
 OPERATORS WELL NO: SHR37QHSM  
 API WELL NO  
 47 - 095 - 02774  
 STATE COUNTY PERMIT

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

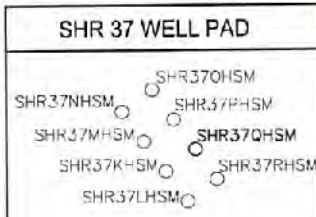




SURFACE OWNER	LESSOR	PIN
1 CNX Gas Company LLC	Nancy P. McLain and Ralph E. McLain Pursie E. Pipes and Norma J. Pipes Bradie Pipes and Goldie Pipes Georgia P. Snyder Agnes Godwin aka Georgia Agnes Godwin Luella I. McConnell Clella Boice Eleanor V. Earnheart and Dean A. Earnhart Dorothy Belle Wells and Byron Wells Myrna Morgan and David Morgan	1-17-5
3A West Virginia Division of Natural Resources	West Virginia Division of Natural Resources	Middle Island Creek
12 Gail Williamson	Nancy P. McLain and Ralph E. McLain Pursie E. Pipes and Norma J. Pipes Bradie Pipes and Goldie Pipes Georgia P. Snyder Agnes Godwin aka Georgia Agnes Godwin Luella I. McConnell Clella Boice Eleanor V. Earnheart and Dean A. Earnhart Dorothy Belle Wells and Byron Wells Myrna Morgan and David Morgan	1-17-6
13 Danny Carl Harris & Patricia J Harris	Nancy P. McLain and Ralph E. McLain Pursie E. Pipes and Norma J. Pipes Bradie Pipes and Goldie Pipes Georgia P. Snyder Agnes Godwin aka Georgia Agnes Godwin Luella I. McConnell Clella Boice Eleanor V. Earnheart and Dean A. Earnhart Dorothy Belle Wells and Byron Wells Myrna Morgan and David Morgan	1-18-5
14A Danny & Patricia Harris	Nancy P. McLain and Ralph E. McLain Pursie E. Pipes and Norma J. Pipes Bradie Pipes and Goldie Pipes Georgia P. Snyder Agnes Godwin aka Georgia Agnes Godwin Luella I. McConnell Clella Boice Eleanor V. Earnheart and Dean A. Earnhart Dorothy Belle Wells and Byron Wells Myrna Morgan and David Morgan	1-18-6.1
14B William D Lantz & Paula T Lantz Riki Nicole Riley William R. Doll	Nancy P. McLain and Ralph E. McLain Pursie E. Pipes and Norma J. Pipes Bradie Pipes and Goldie Pipes Georgia P. Snyder Agnes Godwin aka Georgia Agnes Godwin Luella I. McConnell Clella Boice Eleanor V. Earnheart and Dean A. Earnhart Dorothy Belle Wells and Byron Wells Myrna Morgan and David Morgan	1-18-6 1-18-6.2 1-18-6.3
97 Ryan Davis & Carrie L. Davis Ryan & Carrie L. Davis	Pearl I. Slack Norma Long	1-17-15 1-18-7
101A Ralph Paul McCutchan (U/e)	Margaret C. Nield Helen C. Dahlie James P. Callinan 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, HW Marie L. Bradford, widow and heir under the Last Will and Testament of James Perry Bradford	1-18-11
114 Victor Goff Stinespring, Charter D. Stinespring Victor Stinespring et ux	Sonya Rickel and Joe Rickel Jr. W/H Charlotte Bryant and Ervin Bryant, W/H 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 L. Tinkham, W/H	1-2-1 1-2-1.2



SURFACE HOLE LOCATION (SHL)	
UTM 17 NAD 83	N: 4356018.250 E: 513292.589
NAD 83, WY NORTH	N: 313720.921 E: 1587979.980
LAT/LON DATUM NAD 83	
LAT: 39° 21' 12.628" LON: 80° 50' 44.594"	
LANDING POINT	
UTM 17 NAD 83	N: 4356079.075 E: 513676.909
NAD 83, WY NORTH	N: 313571.321 E: 1589230.989
LAT/LON DATUM NAD 83	
LAT: 39° 21' 11.335" LON: 80° 50' 28.539"	
BOTTOM HOLE LOCATION (BHL)	
UTM 17 NAD 83	N: 4353801.236 E: 514467.688
NAD 83, WY NORTH	N: 306381.380 E: 1591714.690
LAT/LON DATUM NAD 83	
LAT: 39° 20' 00.642" LON: 80° 49' 55.667"	



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



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: SHR37QHSM  
API WELL NO: 47 - 095 - 02774  
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: 12/24/2021  
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
		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 Cleo 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	
		Wilda Doak	
		Beverly Delancey 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 Thalrose and Harold Thalrose, W/H	
		Theresa Pratt	
		Sherry Lynn Quay	
142A	Betty Jane Robinson Phyllis Marie Steele (Life)	Dorothy P. Hileman, aka Dorothy A. Pigott, individually and as AIF for Lucia C. Anderson nee Pigott, Carolyn Erambert nee Pigott, and Janet W. Coffmann nee	1-2-2 8-3-7
142C	Betty Jane Robinson	Dorothy P. Hileman, aka Dorothy A. Pigott, individually and as AIF for Lucia C. Anderson nee Pigott, Carolyn Erambert nee Pigott, and Janet W. Coffmann nee	1-2-2
146	Phyllis Marie Steele (Life)	William Paul McCutchan and Virginia B. McCutchan, his wife Jacqueline L. Standafer and Warren G. Standafer, her husband Marylynn H. Roberts and John E. Roberts, her husband J. W. Morton Field	8-3-7
147	Edwin D Mulvay & Patricia L Mulvay	Edwin Delmer Mulvay and Patricia Vaughn Mulvay A. E. Pratt Heirs, executed by Jean Cole and Robert L. Cole A. E. Pratt Heirs, executed by Patricia P. Pratt and Allen T. Pratt A. E. Pratt Heirs, executed by Darryl A. Pratt A. E. Pratt Heirs, executed by Robert F. Pratt and Glenna Z. Pratt A. E. Pratt Heirs, executed by Richard F. Mead and Margaret Mead A. E. Pratt Heirs, executed by Janet Tinkham and Elvin I. Tinkham A. E. Pratt Heirs, executed by Kenneth E. Pratt and Laura L. Pratt A. E. Pratt Heirs, executed by Malcolm E. Greenwood and Dorothy Ann Greenwood A. E. Pratt Heirs, executed by Donald E. Borer and Mary Jane Borer A. E. Pratt Heirs, executed by Theresa C. Pratt Edwin Delmer Mulvay and Patricia Vaughn Mulvay	1-18-14
148	Edwin D Mulvay & Patricia L Mulvay	Martha C. Price	1-18-13

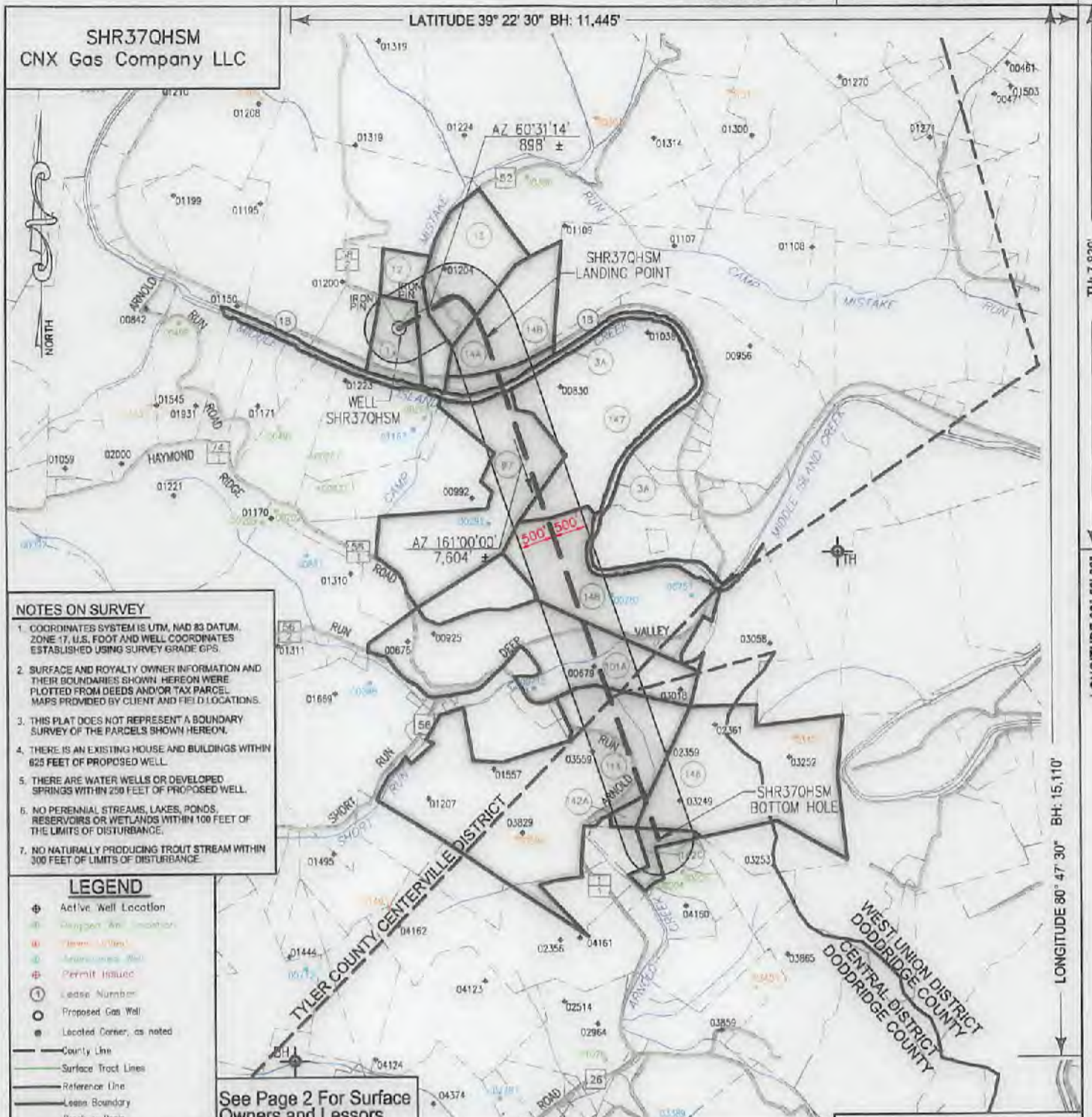
12/24/2021

LATITUDE 39° 22' 30"

TH: 3.505'

LATITUDE 39° 22' 30" BH: 11,445'

SHR37QHSM  
CNX Gas Company LLC



TH: 7,830'

BH: 15,110'

LONGITUDE 80° 50' 00"

**NOTES ON SURVEY**

- COORDINATES SYSTEM IS UTM, NAD 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 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 2 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

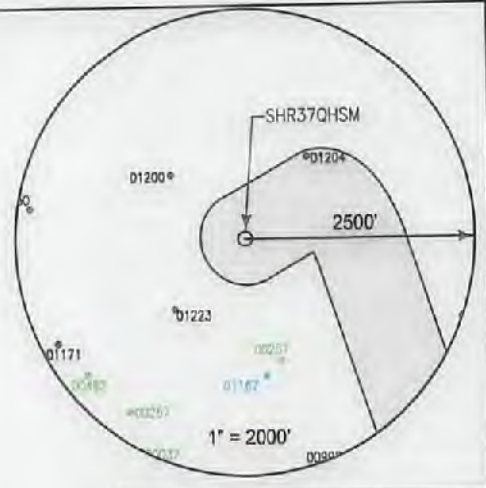
FILE NO: \_\_\_\_\_  
 DRAWING NO: \_\_\_\_\_  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1:2500  
 PROVEN SOURCE OF ELEVATION: SG-GPS (OPUS)



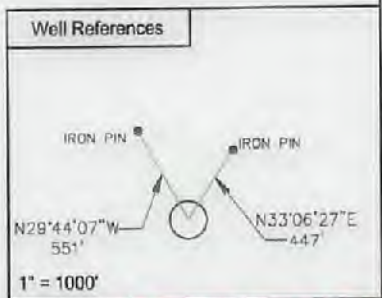
DATE: November 03 20 21  
 OPERATORS WELL NO: SHR37QHSM  
 API WELL NO: 47 - 095 - 02774  
 STATE COUNTY PERMIT

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: 720.525 ±  
 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

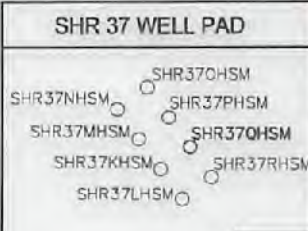
12/24/2021



SURFACE OWNER	LESSOR	PIN
1 CNX Gas Company LLC	Nancy P. McLain and Ralph E. McLain Pursie E. Pipes and Norma J. Pipes Bradie Pipes and Goldie Pipes Georgia P. Snyder Agnes Godwin aka Georgia Agnes Godwin Luella I. McConnell Clella Boice Eleanor V. Earnheart and Dean A. Earnhart Dorothy Belle Wells and Byron Wells Myrna Morgan and David Morgan West Virginia Division of Natural Resources	1-17-5 Middle Island Creek 1-17-6
3A West Virginia Division of Natural Resources		
12 Gall Williamson	Nancy P. McLain and Ralph E. McLain Pursie E. Pipes and Norma J. Pipes Bradie Pipes and Goldie Pipes Georgia P. Snyder Agnes Godwin aka Georgia Agnes Godwin Luella I. McConnell Clella Boice Eleanor V. Earnheart and Dean A. Earnhart Dorothy Belle Wells and Byron Wells Myrna Morgan and David Morgan	1-18-5
13 Danny Carl Harris & Patricia J. Harris	Nancy P. McLain and Ralph E. McLain Pursie E. Pipes and Norma J. Pipes Bradie Pipes and Goldie Pipes Georgia P. Snyder Agnes Godwin aka Georgia Agnes Godwin Luella I. McConnell Clella Boice Eleanor V. Earnheart and Dean A. Earnhart Dorothy Belle Wells and Byron Wells Myrna Morgan and David Morgan	1-18-5.1
14A Danny & Patricia Harris	Nancy P. McLain and Ralph E. McLain Pursie E. Pipes and Norma J. Pipes Bradie Pipes and Goldie Pipes Georgia P. Snyder Agnes Godwin aka Georgia Agnes Godwin Luella I. McConnell Clella Boice Eleanor V. Earnheart and Dean A. Earnhart Dorothy Belle Wells and Byron Wells Myrna Morgan and David Morgan	1-18-6 1-18-6.2 1-18-6.3
14B William D Lantz & Paula T Lantz Riki Nicole Riley William R. Doll	Nancy P. McLain and Ralph E. McLain Pursie E. Pipes and Norma J. Pipes Bradie Pipes and Goldie Pipes Georgia P. Snyder Agnes Godwin aka Georgia Agnes Godwin Luella I. McConnell Clella Boice Eleanor V. Earnheart and Dean A. Earnhart Dorothy Belle Wells and Byron Wells Myrna Morgan and David Morgan	1-17-15 1-18-7
97 Ryan Davis & Carrie L. Davis Ryan & Carrie L. Davis	Pearl I. Stack Norma Long	1-18-11
101A Ralph Paul McCutchan (Life)	Margaret C. Nied 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	1-2-1 1-2-1.2
114 Victor Goff Stinespring, Charter D. Stinespring Victor Stinespring et al	Sonya Richel and Joe Richel Jr, W/H Charlotte Bryant and Ervin Bryant, W/H 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	

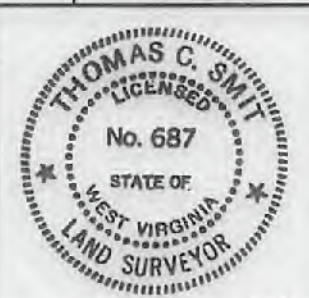


SURFACE HOLE LOCATION (SHL)
UTM 17 NAD 83 N: 4358018.250 E: 513292.589
NAD 83, WV NORTH N: 313720.921 E: 1587979.980
LAT/LON DATUM NAD 83 LAT: 39° 21' 12.628" LON: 80° 50' 44.594"
LANDING POINT
UTM 17 NAD 83 N: 4355979.075 E: 513575.909
NAD 83, WV NORTH N: 313571.321 E: 1589238.989
LAT/LON DATUM NAD 83 LAT: 39° 21' 11.335" LON: 80° 50' 28.539"
BOTTOM HOLE LOCATION (BHL)
UTM 17 NAD 83 N: 4353801.236 E: 514467.688
NAD 83, WV NORTH N: 306381.380 E: 1591714.690
LAT/LON DATUM NAD 83 LAT: 39° 20' 00.642" LON: 80° 49' 55.667"



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



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: SHR37QHSM  
API WELL NO: 47 - 095 - 02714  
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

SURFACE OWNER		LESSOR	PIN
		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. Melter and Robert Lynn Melter, W/H	
		Paul Wagner and Joan Wagner, H/W	
		Leona Smith and John Smith, W/H	
		Sylvia Knowleton and Cleo 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	
		Wilda Doak	
		Beverly Delancey 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 Thalrose and Harold Thalrose, W/H	
		Theresa Pratt	
		Sherry Lynn Quay	
142A	Betty Jane Robinson Phyllis Marie Steele (Life)	Dorothy P. Hileman, aka Dorothy A. Pigott, individually and as AIF for Lucie C. Anderson nee Pigott, Carolyn Erambert nee Pigott, and Janet W. Coffmann nee	1-2-2 8-3-7
142C	Betty Jane Robinson	Dorothy P. Hileman, aka Dorothy A. Pigott, individually and as AIF for Lucie C. Anderson nee Pigott, Carolyn Erambert nee Pigott, and Janet W. Coffmann nee	1-2-2
146	Phyllis Marie Steele (Life)	William Paul McCutchan and Virginia B. McCutchan, his wife	8-3-7
		Jacqueline L. Standafer and Warren G. Standafer, her husband	
		Marylynn H. Roberts and John E. Roberts, her husband	
		J.W. Morton Field	
147	Edwin D Mulvay & Patricia L Mulvay	Edwin Delmer Mulvay and Patricia Vaughn Mulvay	1-18-14
		A. E. Pratt Heirs, executed by Jean Cole and Robert L. Cole	
		A. E. Pratt Heirs, executed by Patricia P. Pratt and Allen T. Pratt	
		A. E. Pratt Heirs, executed by Darryl A. Pratt	
		A. E. Pratt Heirs, executed by Robert F. Pratt and Glenna Z. Pratt	
		A. E. Pratt Heirs, executed by Richard F. Mead and Margaret Mead	
		A. E. Pratt Heirs, executed by Janet Tinkham and Elwin I. Tinkham	
		A. E. Pratt Heirs, executed by Kenneth E. Pratt and Laura L. Pratt	
		A. E. Pratt Heirs, executed by Malcolm E. Greenwood and Dorothy Ann Greenwood	
		A. E. Pratt Heirs, executed by Donald E. Borer and Mary Jane Borer	
		A. E. Pratt Heirs, executed by Theresa C. Pratt	
		Edwin Delmer Mulvay and Patricia Vaughn Mulvay	
148	Edwin D Mulvay & Patricia L Mulvay	Martha C. Price	1-18-13

12/24/2021

WW-6A1  
(5/13)

Operator's Well No. SHR37QHSM

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

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

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

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

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

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

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

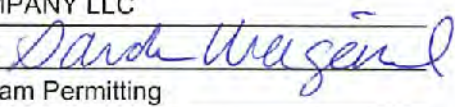
RECEIVED  
Office of Oil and Gas

NOV 15 2021

WV Department of  
Environmental Protection

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 

Its: Manager Upstream Permitting

Attachment - Form WW-6A-1 for SHR37QJSM						
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
1	1-17, Parcel 5	269278000	Nancy P. McLain and Ralph E. McLain	Sefco Enterprises, Inc.	Not less than 1/8	267/82
			Pursie E. Pipes and Norma J. Pipes	Sefco Enterprises, Inc.	Not less than 1/8	267/88
			Bradie Pipes and Goldie Pipes	Sefco Enterprises, Inc.	Not less than 1/8	267/86
			Georgia P. Snyder	Sefco Enterprises, Inc.	Not less than 1/8	267/84
			Agnes Godwin a/k/a Georgia Agnes Godwin	Sefco Enterprises, Inc.	Not less than 1/8	267/80
			Luella I. McConnell	Sefco Enterprises, Inc.	Not less than 1/8	267/78
			Clella Boice	Sefco Enterprises, Inc.	Not less than 1/8	267/76
			Eleanor V. Earnheart and Dean A. Earnhart	Sefco Enterprises, Inc.	Not less than 1/8	267/74
			Dorothy Belle Wells and Byron Wells	Sefco Enterprises, Inc.	Not less than 1/8	267/90
			Myrna Morgan and David Morgan	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 and Noble Energy, Inc.	Assignment	425/701 427/564			
Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273			
12	1-17, P/O Parcel 6	266300000	Nancy P. McLain and Ralph E. McLain	Sefco Enterprises, Inc.	Not less than 1/8	267/82
			Pursie E. Pipes and Norma J. Pipes	Sefco Enterprises, Inc.	Not less than 1/8	267/88
			Bradie Pipes and Goldie Pipes	Sefco Enterprises, Inc.	Not less than 1/8	267/86
			Georgia P. Snyder	Sefco Enterprises, Inc.	Not less than 1/8	267/84
			Agnes Godwin a/k/a Georgia Agnes Godwin	Sefco Enterprises, Inc.	Not less than 1/8	267/80
			Luella I. McConnell	Sefco Enterprises, Inc.	Not less than 1/8	267/78
			Clella Boice	Sefco Enterprises, Inc.	Not less than 1/8	267/76
			Eleanor V. Earnheart and Dean A. Earnhart	Sefco Enterprises, Inc.	Not less than 1/8	267/74
			Dorothy Belle Wells and Byron Wells	Sefco Enterprises, Inc.	Not less than 1/8	267/90
			Myrna Morgan and David Morgan	Sefco Enterprises, Inc.	Not less than 1/8	267/640
			Reva D. Rowland a/k/a Reva Rowland and Ronald Royce Rowland	Sefco Enterprises, Inc.	Not less than 1/8	661/312
			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 and Noble Energy, Inc.	Assignment	425/701 427/564			
Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273			
13	1-18, Parcel 5	263458000	Nancy P. McLain and Ralph E. McLain	Sefco Enterprises, Inc.	Not less than 1/8	267/82
			Pursie E. Pipes and Norma J. Pipes	Sefco Enterprises, Inc.	Not less than 1/8	267/88
			Bradie Pipes and Goldie Pipes	Sefco Enterprises, Inc.	Not less than 1/8	267/86
			Georgia P. Snyder	Sefco Enterprises, Inc.	Not less than 1/8	267/84
			Agnes Godwin a/k/a Georgia Agnes Godwin	Sefco Enterprises, Inc.	Not less than 1/8	267/80
			Luella I. McConnell	Sefco Enterprises, Inc.	Not less than 1/8	267/78
			Clella Boice	Sefco Enterprises, Inc.	Not less than 1/8	267/76
			Eleanor V. Earnheart and Dean A. Earnhart	Sefco Enterprises, Inc.	Not less than 1/8	267/74
			Dorothy Belle Wells and Byron Wells	Sefco Enterprises, Inc.	Not less than 1/8	267/90
			Myrna Morgan and David Morgan	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 and Noble Energy, Inc.	Assignment	425/701 427/564			
Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273			
14A	1-18, Parcel 6.1	263459000	Nancy P. McLain and Ralph E. McLain	Sefco Enterprises, Inc.	Not less than 1/8	267/82
			Pursie E. Pipes and Norma J. Pipes	Sefco Enterprises, Inc.	Not less than 1/8	267/88
			Bradie Pipes and Goldie Pipes	Sefco Enterprises, Inc.	Not less than 1/8	267/86
			Georgia P. Snyder	Sefco Enterprises, Inc.	Not less than 1/8	267/84
			Agnes Godwin a/k/a Georgia Agnes Godwin	Sefco Enterprises, Inc.	Not less than 1/8	267/80
			Luella I. McConnell	Sefco Enterprises, Inc.	Not less than 1/8	267/78
			Clella Boice	Sefco Enterprises, Inc.	Not less than 1/8	267/76
			Eleanor V. Earnheart and Dean A. Earnhart	Sefco Enterprises, Inc.	Not less than 1/8	267/74
			Dorothy Belle Wells and Byron Wells	Sefco Enterprises, Inc.	Not less than 1/8	267/90
			Myrna Morgan and David Morgan	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 and Noble Energy, Inc.	Assignment	425/701 427/564			
Noble Energy, Inc.	CNX Gas Company LLC	Assignment	550/273			
14B	1-18, Parcels 6, 6.2 and 6.3	263459000	Nancy P. McLain and Ralph E. McLain	Sefco Enterprises, Inc.	Not less than 1/8	267/82
			Pursie E. Pipes and Norma J. Pipes	Sefco Enterprises, Inc.	Not less than 1/8	267/88
			Bradie Pipes and Goldie Pipes	Sefco Enterprises, Inc.	Not less than 1/8	267/86
			Georgia P. Snyder	Sefco Enterprises, Inc.	Not less than 1/8	267/84
			Agnes Godwin a/k/a Georgia Agnes Godwin	Sefco Enterprises, Inc.	Not less than 1/8	267/80

2 12/24/2021





			Janet P. Tinkham and Ewin I. 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
			Jean 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	140/354
			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	141/9
			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
			Sherry Lynn Quay	Clarence W. Mutschelknaus	Not less than 1/8	149/667
			Karen Y. Melter and Robert Lynn Melter, 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 Knowleton and Cleo Knowleton, w/h	Clarence W. Mutschelknaus	Not less than 1/8	140/490
			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	141/186
			Vonda Wagner	Clarence W. Mutschelknaus	Not less than 1/8	140/764
			Janice Phelps and Harry Phelps, w/h	Clarence W. Mutschelknaus	Not less than 1/8	141/31
			Wayne Kellar and Peggy Kellar, h/w, a/k/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
			Ruth M. Hubbard	Clarence W. Mutschelknaus	Not less than 1/8	141/29
			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
			Garrett G. Pyles	Clarence W. Mutschelknaus	Not less than 1/8	140/496
			Theresa Pratt	Clarence W. Mutschelknaus	Not less than 1/8	140/368
			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	Clarence W. Mutschelknaus	Not less than 1/8	140/757
			Clarence W. Mutschelknaus	Antero Resources Corporation	Assignment	322/275
			Antero Resources Corporation	CNX Gas Company LLC	Assignment	481/395
<b>Tract ID</b>	<b>Tax Map &amp; Parcel</b>	<b>Title Opinion QLS #</b>	<b>Grantor, Lessor, etc</b>	<b>Grantee, Lessee, etc</b>	<b>Royalty</b>	<b>Book/Page</b>
142A	1-2, P/O Parcel 2; 3, P/O Parcel 7	293616000	Dorothy P. Hileman, a/k/a Dorothy A. Pigott, individually and as AIF for Lucia C. Anderson nee Pigott, Carolyn Erambert nee Pigott, and Janet W. Coffmann nee Pigott Lucia Christine Gauthier a/k/a Christine Lucia Gauthier Antero Resources Corporation	Antero Resources Corporation CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Ratification Assignment	389/487 498/563 481/395
<b>Tract ID</b>	<b>Tax Map &amp; Parcel</b>	<b>Title Opinion QLS #</b>	<b>Grantor, Lessor, etc</b>	<b>Grantee, Lessee, etc</b>	<b>Royalty</b>	<b>Book/Page</b>
146	8-3, P/O Parcel 7	293603000	William Paul McCutchan and Virginia B. McCutchan, his wife Exxon Corporation Exxon Mobil Corporation, ExxonMobil Oil Corporation, Mobil Producing Texas & New Mexico Inc., Mobil Oil Exploration & Producing Southeast Inc., and Mobil Exploration and Producing North America Inc. 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	102/38 WVSOS 359/150 423/613 629/658
			Jacqueline L. Standafer and Warren G. Standafer, her husband Marylynn H. Roberts and John E. Roberts, her husband J. W. Morton Field J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Corporation	J & J Enterprises, Inc. J & J Enterprises, Inc. J & J Enterprises, Inc. Eastern American Energy Corporation Energy Corporation of America Antero Resources Corporation CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Merger Assignment Assignment Assignment	130/571 130/704 131/188 159/139 240/498 460/453 629/658
<b>Tract ID</b>	<b>Tax Map &amp; Parcel</b>	<b>Title Opinion QLS #</b>	<b>Grantor, Lessor, etc</b>	<b>Grantee, Lessee, etc</b>	<b>Royalty</b>	<b>Book/Page</b>
142C	1-2, P/O Parcel 2	293616000	Dorothy P. Hileman, a/k/a Dorothy A. Pigott, individually and as AIF for Lucia C. Anderson nee Pigott, Carolyn Erambert nee Pigott, and Janet W. Coffmann nee Pigott Lucia Christine Gauthier a/k/a Christine Lucia Gauthier Antero Resources Corporation	Antero Resources Corporation CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Ratification Assignment	389/487 498/563 481/395



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

CNX Center  
1000 CONSOL Energy Drive  
Canonsburg, PA 15317-5505  
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](mailto: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

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

12/24/2021

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

Date of Notice Certification: 11/12/2021

API No. 47- \_\_\_\_\_ - \_\_\_\_\_  
Operator's Well No. SHR37QHSM  
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>513292.589</u>
County: <u>Tyler</u>		Northing: <u>4356018.250</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		<b>OOG OFFICE USE ONLY</b>  <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
RECEIVED Office of Oil and Gas NOV 15 2021  WV Department of Environmental Protection		

**Required Attachments:**

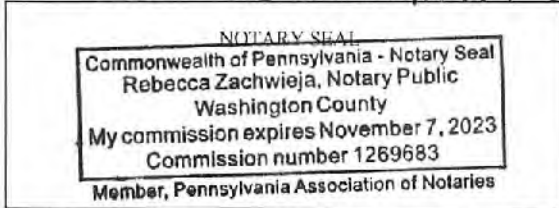
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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.

**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><i>Sarah Weigand</i></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 3<sup>rd</sup> 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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

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  
NOTICE OF APPLICATION

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

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: \_\_\_\_\_

\*Please attach additional forms if necessary

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-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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Well Location Restrictions**

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

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 57<sup>th</sup> 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.**

12/24/2021

**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 - 02774  
OPERATOR WELL NO. SHR37QHSM  
Well Pad Name: SHR37

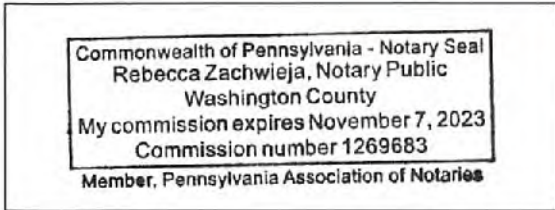
**Notice is hereby given by:**

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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).



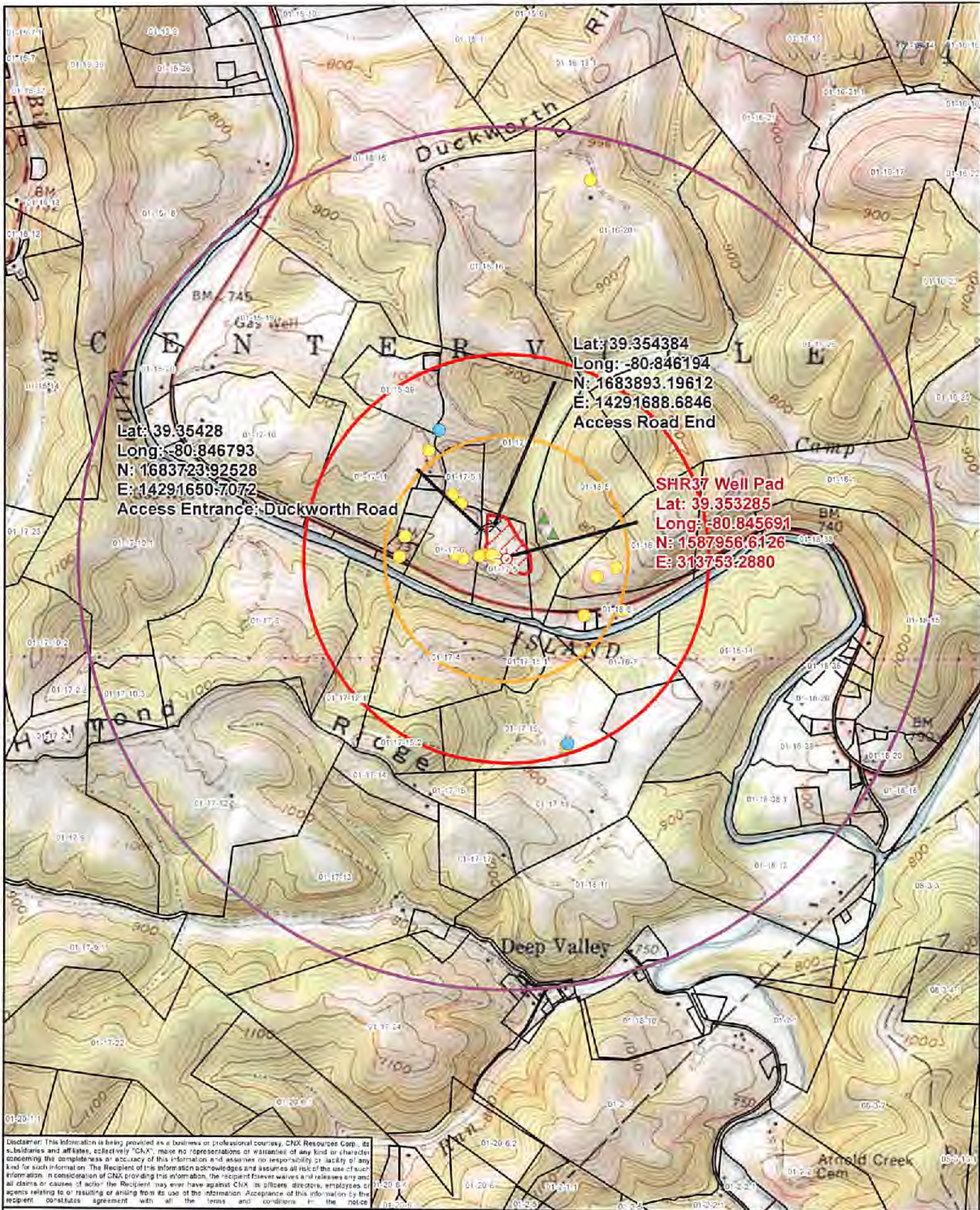
Subscribed and sworn before me this 27<sup>th</sup> day of October, 2021  
Rebecca Zachwieja Notary Public  
My Commission Expires November 7, 2023

RECEIVED  
Office of Oil and Gas

NOV 15 2021

WV Department of  
Environmental Protection

12/24/2021



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 forever 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	2,500ft Buffer	1,500ft Buffer
Well	Surface Parcel	Well Pad LOD
Access Points	Access Road	

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

12/24/2021 Map

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

RECEIVED  
Office of Oil and Gas

NOV 15 2021

WV Department of  
Environmental Protection

12/24/2021



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: SHR37QHSM Waiver Request**

To Whom It May Concern:

CNX Gas Company LLC (CNX) as surface and coal owner of the SHR37QHSM 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](mailto: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

RECEIVED  
Office of Oil and Gas

NOV 15 2021

WV Department of  
Environmental Protection

12/24/2021



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

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

4709502774  
API NO. 47-  
OPERATOR WELL NO. See Exhibit A  
Well Pad Name: SHR37

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:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>513285.2620 m</u>
County:	<u>Tyler</u>	UTM NAD 83 Northing:	<u>4356027.9910 m</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>		

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: 12/17/2018

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

Signature: \_\_\_\_\_  
Telephone: 724-485-3540

RECEIVED  
Office of Oil and Gas

NOV 15 2021

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL  
Douglas E. Smith, Notary Public  
Cecil Twp., Washington County  
My Commission Expires Dec. 6, 2020  
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Subscribed and sworn before me this 17 day of December, 2021  
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 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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

12/24/2021

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

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

Neil A Archer II  
TYLER County 10:31:59 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

12/24/2021



**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 Weisand 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>513292.589</u>
County: <u>Tyler</u>		Northing: <u>4356018.250</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

RECEIVED  
Oil and Gas

**FOR EXECUTION BY A NATURAL PERSON**

Signature: \_\_\_\_\_ NOV 15 2021  
Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_ WV Department of Environmental Protection

**FOR EXECUTION BY A CORPORATION, ETC.**

Company: CNX Gas Company LLC  
By: Sarah Weisand  
Its: Permitting manager

Signature: Sarah Weisand  
Date: 11/13/2021

**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](mailto:depprivacyofficer@wv.gov).



4709502774

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 57<sup>th</sup> Street, SE  
Charleston, WV 25304

Subject: DOH Permit for the SHR-37 Pad, Tyler County  
SHR37QHSM 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

<b>Section V – Proposed Additives to be used in Fracturing or Stimulations</b>		
<b>Chemical</b>	<b>Chemical Name</b>	<b>CAS No.</b>
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
Ammonium Persulfate	Guar gum	9000-30-0
	Ammonium Persulfate	7727-54-0

RECEIVED  
Office of Oil and Gas

NOV 15 2021

WV Department of  
Environmental Protection

12/24/2021

# National Flood Hazard Layer FIRMette



39°21'27.98"N



USGS The National Map, Orthoimagery. Data refreshed October, 2017.



39°21'0.15"N

## 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, A99
  - 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**
  - NO SCREEN Area of Minimal Flood Hazard Zone X
  - Effective LOMRs
  - Area of Undetermined Flood Hazard Zone X
  
- GENERAL STRUCTURES**
  - 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
  - Jurisdiction Boundary
  - Coastal Transect Baseline
  - Profile Baseline
  - Hydrographic Feature
  
- MAP PANELS**
  - 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°50'24.72"W



LOCATION MAP  
USGS - WEST UNION, 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.



**WVDEP OOG  
ACCEPTED AS-BUILT**

10/31/2019



Know what's below.  
Call before you dig.



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

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

THE INFORMATION CONTAINED HEREIN IS THE SOLE PROPERTY OF THE THRASHER GROUP AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE THRASHER GROUP, INC.

1	DATE	BY	CHKD BY	DATE	DESCRIPTION
2	10/31/19				
3	10/31/19				



SCALE: 1/4" = 10'	DATE: 07/02/19
DRAWN BY: J. H. HARRIS	CHECKED BY: J. H. HARRIS
REVIEWED BY: J. H. HARRIS	DATE: 07/02/19
SUPPLY DATE:	
CLIENT:	
FILE NO.:	



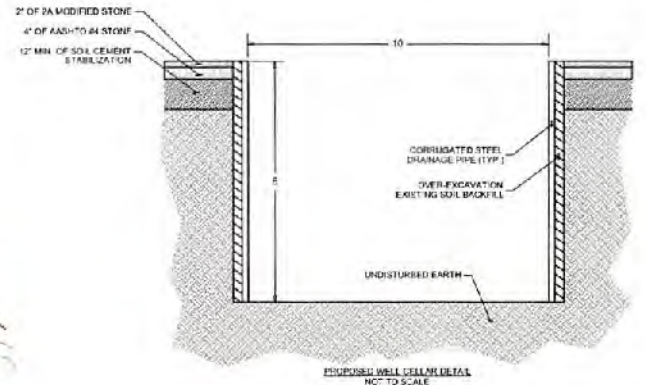
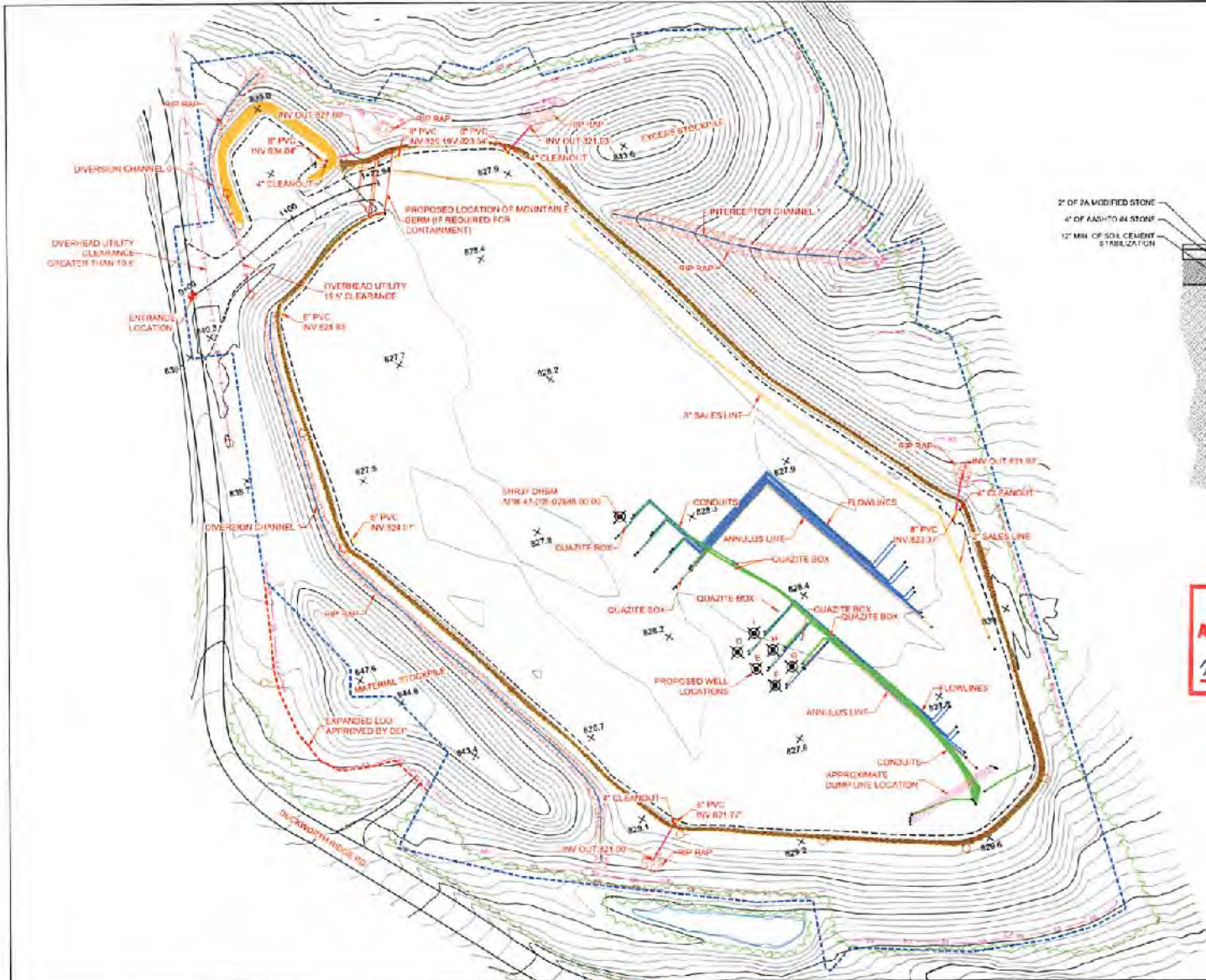
PROJECT NO:	050-10290
DATE:	07/02/2019

CNX RESOURCES CORPORATION  
SHIRLEY 37 SITE  
PAD AS-BUILT  
TYLER COUNTY, WEST VIRGINIA  
COVER SHEET

SHEET No  
**1**

CHART OF PROPOSED WELL SPOTS AND SITE LOCATION

POINT	API #	MARKS W/ NORTH LATITUDE	LONGITUDE	UTM NORTH (7 METERS)	EASTING
SHRST 0	TRC	39°21'0.790"	80°50'44.017"	4355949.755	518000.074
SHRST 1	TRC	39°21'0.840"	80°50'43.880"	4355949.871	518000.260
SHRST 2	TRC	39°21'0.400"	80°50'43.747"	4355949.505	518000.103
SHRST 3	TRC	39°21'0.520"	80°50'43.627"	4355949.871	518000.767
SHRST 4	TRC	39°21'0.600"	80°50'43.877"	4355949.667	518000.403
SHRST 5	TRC	39°21'0.650"	80°50'43.800"	4355949.976	518000.940
ENTRANCE		39°21'0.520"	80°50'48.946"	4354108.096	518193.950



**WVDEP OOG  
ACCEPTED AS-BUILT**  
10/31/2018

- LEGEND**
- - - EDGE OF GRAVEL
  - - - DITCH
  - - - DESIGN LOG
  - - - TREE LINE
  - - - EULY BOX
  - - - COMPOSITE FILTER SOCK
  - POST
  - UTILITY POLE
  - RP RAP
  - ERM
  - FLOWLINES
  - ANNULUS LINE
  - CONDUIT LINES
  - SALES LINES
  - CMP LINES
  - QUARTZ BOX
  - OVERHEAD UTILITY



NOTE: DRAWING WAS CREATED ON 22 X 34 PAPER. 1/12 DRAWINGS ARE HALF SCALE. REFER TO SCALE BAR FOR PROPER SCALING

THE INFORMATION CONTAINED HEREIN IS THE SOLE PROPERTY OF THE THRASHER GROUP, INC. REPRODUCTION OF THIS DOCUMENT IN WHOLE OR IN PART, FOR ANY REASON WITHOUT PRIOR WRITTEN PERMISSION, IS STRICTLY PROHIBITED. COPYRIGHT © 2018 THE THRASHER GROUP, INC.

NO.	DATE	DESCRIPTION
1	10/26/18	ISSUED AS-BUILT
2	10/31/18	ISSUED AS-BUILT
3	11/01/18	ISSUED AS-BUILT

**CNX**  
CNX RESOURCES CORPORATION  
SHIRLEY 37 SITE  
TYLER COUNTY, WEST VIRGINIA

SCALE	DATE
AS-BUILT	10/31/2018
AS-BUILT	10/31/2018
AS-BUILT	10/31/2018

**THRASHER**  
ENGINEERING & CONSTRUCTION  
1001 1/2 AVENUE, SUITE 100  
WHEELING, WEST VIRGINIA 26061

PROJECT	NO.
050-10290	

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

2

# SHR-37 WELL PAD

## Erosion & Sedimentation Control Plan

Centerville District, Tyler County, West Virginia

Prepared For:

**CNX GAS COMPANY, LLC**

1000 CONSOL Energy Drive  
Canonsburg, PA 15317

Issue Date: November 19, 2018

Revised: January 16, 2019



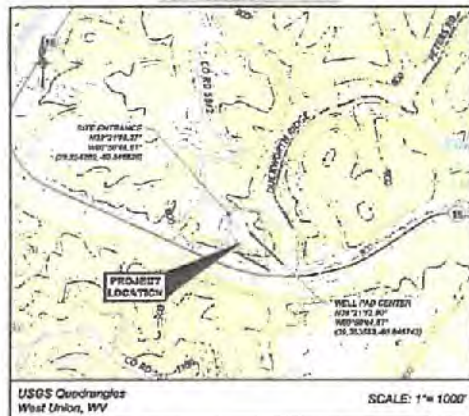
**SITE ENTRANCE COORDINATES:**  
N39°21'15.37"  
W80°50'48.61"  
(39.354269, -80.846836)

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

**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



WV Department of  
Environmental Protection



NOV 15 2021

RECEIVED  
Office of Oil and Gas

Prepared By:

**Sheffler & Company, Inc.**  
ENGINEERING • SURVEYING

1712 ML Nebo Road  
Sewickley, PA 15143

Office Phone: 412-219-4509  
Email: [Info@ShefflerCo.com](mailto:Info@ShefflerCo.com)

Cragin Blevins

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

