

west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Monday, April 1, 2019 WELL WORK PERMIT Horizontal 6A / New Drill

CNX GAS COMPANY LLC POST OFFICE BOX 1248 JANE LEW, WV 263786506

Permit approval for SHR37OHSM Re:

47-095-02588-00-00

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

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

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

James A. Martin

Chief

Operator's Well Number: SHR370HSM

Farm Name:

KAREN BAKER

U.S. WELL NUMBER: 47-095-02588-00-00 Horizontal 6A New Drill

Date Issued: 4/1/2019

API Number:	04/05/2019
	0 17 0 07 = 0 1 0

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.

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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, cessation of drilling, sending an email to DEPOOGNotify@wv.gov.

47 0 9 5 04/05/2089

OPERATOR WELL NO. SHR37OHSM
Well Pad Name: SHR37

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

1) Well Operato	or: CNX Gas	s Compan	y, LLC	494458046	Tyler	Centervill	West Union
				Operator ID	County	District	Quadrangle
2) Operator's W	Vell Number:	SHR370H	ISM	Well P	ad Name: SH	R37	
3) Farm Name/	Surface Owne	er:		Public Ro	oad Access: _		
4) Elevation, cu	irrent ground:	828'	E	levation, propose	d post-constru	ction: 828'	
5) Well Type	(a) Gas	Χ	_ Oil _	Un	derground Sto	rage	
		Shallow	X	Deep			NB.
	I	Horizontal	X				1/2/20/18
6) Existing Pad	: Yes or No		No		-0.4		1-1-1
맛이 그리는 그래요 이게 하는 하다.				cipated Thickness			1888
larget forma	tion is Marcellu	us Shale @	6292'-63	37' TVD, 45' thick,	expected form	ation pressure	~4000 psi
8) Proposed To	tal Vertical D	epth: 631	5'				
9) Formation at	Total Vertica	l Depth:	Marcellu	s Shale (will not	penetrate On	ondaga)	
10) Proposed T	otal Measured	Depth:	7894'				
11) Proposed H	orizontal Leg	Length:	1157'				
12) Approxima	te Fresh Wate	r Strata De	pths:	137', 247'			
13) Method to I	Determine Fre	sh Water D	epths:	Offset well inform	mation		
14) Approxima	te Saltwater D	epths: 17	12'				_
15) Approxima	te Coal Seam	Depths: N	o knowr	mineable coal	seams; trace	@ 971'	
				ine karet other):	None antici	pated	
16) Approxima	te Depth to Po	ossible Voi	d (coal m	ille, Karst, Other).	Tions and	1.515.5	
16) Approxima 17) Does Propo directly overlyi	sed well locat	tion contain	coal sea	ms		No	x
17) Does Propo	sed well locating or adjacent	tion contair t to an activ	coal seare mine?	ms			X
17) Does Propo directly overlyi	sed well locating or adjacent	tion contair t to an activ	ocoal sea	ms			X
17) Does Propo directly overlyi	sed well locating or adjacent	tion contair t to an activ	o coal sea re mine?	ms			x

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WV Department of Environmental Protection Page 1 of 3

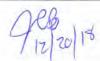
WW-6B (04/15) 47 0 9 5 0 2 5 8 8 API NO. 47- 04/05/2019

OPERATOR WELL NO. SHR37OHSM
Well Pad Name: SHR37

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	100	100 🗸	96 / CTS
Fresh Water	13.375	New	J-55	54.5	400	400 ₹	278 / CTS
Coal	N/A						
Intermediate	9.625	New	J-55	36.0	2390	2390 🗸	768 / CTS
Production	5.5	New	P-110	20.0	7894	7894	1261 / TC @ 1890'
Tubing	2.375	New	J-55	4.7		TBD	N/A
Liners	N/A						



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	24	0.375	N/A	N/A	Type 1	1.18
Fresh Water	13.375	17.5	0.380	2730	<500	Class A	1.19
Coal	N/A						
Intermediate	9.625	12.25	0.352	3520	<2815	Class A	1.19
Production	5.5	8.75 x 8.5	0.361	12360	~10000 during frac	Class H	1.10
Tubing	2.375	N/A	0.190	7700	N/A	N/A	N/A
Liners	N/A					TE SU	

PACKERS

Kind:	N/A		
Sizes:			
Depths Set:			

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OPERATOR WELL NO. SHR370HSM

Well Pad Name: SHR37

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

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

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

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

						at
21)	Total Area to be disturbed	including roads	stocknile area	nits etc.	(acres)	17.

- 22) Area to be disturbed for well pad only, less access road (acres):
- 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 string: Class A cement with 1%-3% CaCl2 and 1/4 pps cello-flake/LCM. Intermediate string: Class A cement with 0%-2% CaCl2 and 1/4 pps cello-flake/LCM. Production string: Class H cement or Class H:Poz blend with dry blend and/or liquid additives including retarder, suspension agent, gas block, defoamer, fluid loss control, extender, dispersant, anti-settling agent. Actual cement blends may vary slightly depending upon cementing service company utilized.

25) Proposed borehole conditioning procedures:

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

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*Note: Attach additional sheets as needed.

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SHR37 Cement Additives

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

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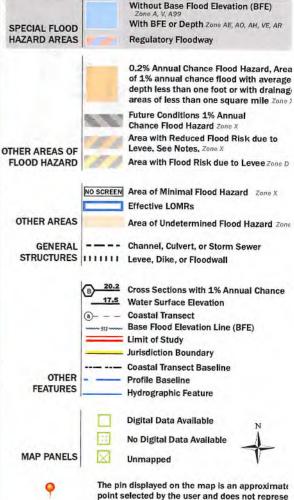
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National Flood Hazard Layer FIRMette



Legend

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

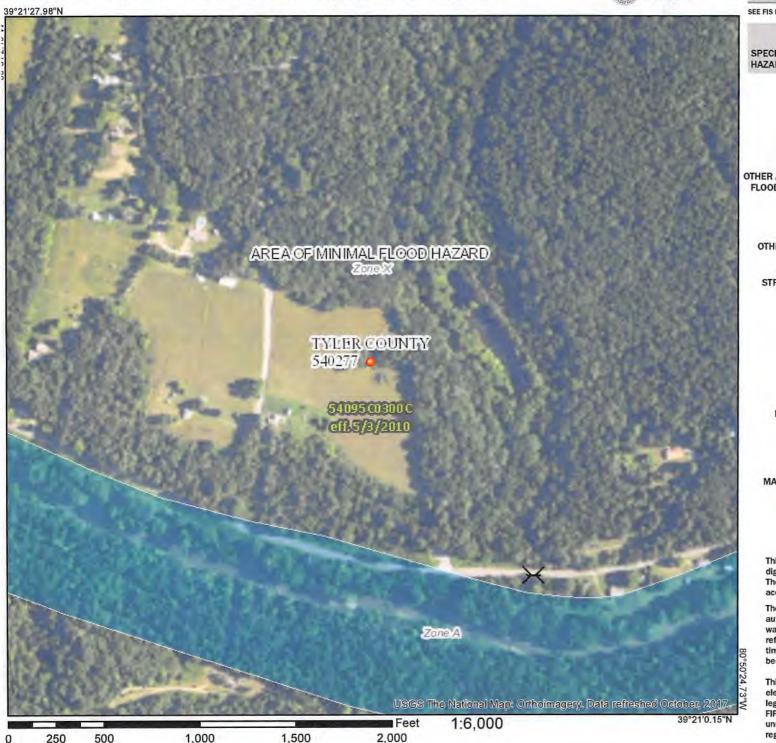


This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

an authoritative property location.

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.



WW-9 (4/16)

API	Num	ber	47	2	

Operator's Well No. SHR370HSM

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

FLUIDS/ CUTTINGS DISPO	OSAL & 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 comple	lete 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:	JeB balis
Land Application	7 12/20/18
Underground Injection (UIC Permit) Reuse (at API Number SHR35 wells API	Number 47-001-00561, 47-097-01514, 47-097-01613, 34-013-2-0609
Off Site Disposal (Supply form WW-	DECENTED
Other (Explain No Pits	
	JAN 2 2018
Will closed loop system be used? If so, describe: Yes	WV Department of Environmental Protection
Drilling medium anticipated for this well (vertical and horizontal	al)? Air, freshwater, oil based, etc. Vertical air Nort spud/surface to turne kick-from (NOP). Horizontal: synthetic oil-based mud (SOBM) from curve KOP to lateral TD
-If oil based, what type? Synthetic, petroleum, etc. Syn	
Additives to be used in drilling medium? Bactericide, Polymers, ar	and Weighting Agents
Orill cuttings disposal method? Leave in pit, landfill, removed o	offsite, etc. Land Application of soil conductor culturgs only, rock cuttings will be taken to an approved Landfill
-If left in pit and plan to solidify what medium will be u	
-Landfill or offsite name/permit number? See attached.	
Permittee shall provide written notice to the Office of Oil and Ga West Virginia solid waste facility. The notice shall be provided waster it was properly disposed.	ias of any load of drill cuttings or associated waste rejected at any within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West Virg provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that, based	conditions of the GENERAL WATER POLLUTION PERMIT issued reginia Department of Environmental Protection. I understand that the fany term or condition of the general permit and/or other applicable examined and am familiar with the information submitted on this don my inquiry of those individuals immediately responsible for rue, accurate, and complete. I am aware that there are significant lity of fine or imprisonment.
Company Official Signature Many How	
Company Official (Typed Name) Raymond Hoon	
Company Official Title Supervisor - Permitting	
Subscribed and sworn before me this 28h July of	Locam ter 19 20 Blungton
Double hallon	Notary Public COMMONWEALTH OF PENNSYLV
My commission expires February 23, 20	Lori L. Walker, Notary Public
	My Commission Expires Feb. 23, 2019 MEMBER, PENNSYLVANIA ASSOCIATION OF NOT.

		CHD27OHCM
()nerator's	Well No	SHR37OHSM

Proposed Revegetation Treatn	nent: Acres Disturbed _1	5.57 Prevegetation	pH 6.5
Lime according to pH	test Tons/acre or to corre	ect to pH 7.0	
Fertilizer type 10-2	0-20		
Fertilizer amount 50	0	lbs/acre	
Mulch_ hay or stra	w @ 2	_Tons/acre	
		Seed Mixtures	
Ten	nporary	Per	manent
Seed Type Orchard Grass	lbs/acre 25	Seed Type Orchard Grass	lbs/acre 25
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15
Ladino Clover	10	Ladino Clover	10
Maps(s) of road, location, pit a provided). If water from the pi acreage, of the land application	it will be land applied, ind n area.	nd application (unless engineered plans include dimensions (L x W x D) of the pit, a	cluding this info have be and dimensions (L x W)
Attach: Maps(s) of road, location, pit a provided). If water from the pi acreage, of the land application Photocopied section of involve Plan Approved by: Comments:	it will be land applied, ind n area.	clude dimensions (L x W x D) of the pit,	cluding this info have be and dimensions (L x W)
Maps(s) of road, location, pit a provided). If water from the piacreage, of the land application Photocopied section of involve Plan Approved by:	it will be land applied, income area. ed 7.5' topographic sheet.	clude dimensions (L x W x D) of the pit,	cluding this info have be and dimensions (L x W)
Maps(s) of road, location, pit a provided). If water from the piacreage, of the land application Photocopied section of involve Plan Approved by:	it will be land applied, income area. ed 7.5' topographic sheet.	clude dimensions (L x W x D) of the pit,	cluding this info have be
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Standard Operating Procedure

TASK: BOS-106 STRIP MUD

Document Control

Owner: Operations, Leduc

Author: Clayton Cameron, Field Supervisor

Reviewer: Technical Advisor

Approver Andrew Pow

Revision & Approval Record

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MAR 26 2019

WV Department of Environmental Protection

Revision	Date	Description/changes:	Prepared by:
Original 02	Jan. 29, 2007 Aug. 24, 2011	Original Release of Standard <changes made="" original="" the="" to=""></changes>	John Richardson Clayton Cameron
03 <above +1></above 	Mar. 12, 2012	<changes made="" original="" the="" to=""></changes>	Clayton Cameron

Competency Review

Employee Supervisor

Date

Competent Yes No
If No Insert Follow Up Date
Follow Up Date:

Revised < 12/03/12>



MAR 2 6 2019

TASK: STRIP MUD

WV Department of

75.5		Environmental Protection
	Steps of task in order:	Hazards with each step:
i	Meet with Site Supervisor to discuss scope of work to be performed	
li	Perform walk around check to complete Pre-job Risk Assessment, speaking with Derrick, Mud and Company Men to establish understanding of fluid to be processed and were to ship processed fluid along with properties to be reached. A pilot mud test should be completed to better understand best way to treat fluid to be processed.	Uneven ground, Weather, Pinch points, Physical stress, Slips trips and falls, Check and verify Mud Report Check MSDS of all fluids and chemicals being used.
1	First set up the BOS tank so centrifuge overflows is going in to cell #1	Physical stress, Potential Energy- Pressurized Gases/Liquids, Slips trips and falls, Potential fumes
2	Close all other bridge gates, Open up the bridge gate in cell#1. Fill cell #1 to 75% capacity with fresh water. While filling mix in one bag of calcium nitrate.	Physical stress, Slips trips and falls, Pinch points, Potential fumes
3	Start to fill you poly tank with water, As you fill the poly tanks you can add your chemicals. Once they are full you can hook up your poly injection lines in the pump room to the suction side of appropriate centrifuge feed pumps. Place mud gun pump discharge line/s into feed pump discharge lines by plumbing in stripping y/s and valves.	Potential Energy-Pressurized Gases/Liquids, Slips trips and falls, Potential fumes
4	Set up centrifuges, adjust accordingly for maintaining clear water loop and plumb mud gun pump suction with appropriate vessel containing mud to be processed.	Physical stress, Potential Energy- Pressurized Gases/Liquids, Slips trips and falls, Potential fumes



TASK: STRIP MUD

	Steps of task in order:	Hazards with each step:
5	Once all rigged in start centrifuge/s to process the clear water loop ensuring all valving is set accordingly. Start and set poly pumps, begin injecting mud and slowly increase feed rate and adjust settings to optimize maximum process rates. once the clean water gets to cell # 9 transfer you will then be able to transfer. Transfer is best done with a submersible pump to be located in cell #9, this pump is also able to be used for filling polymer injection tanks. Before transferring processed fluid it must be checked for ph and calcium to ensure within pre-set limits, also check to see that polymer is not being over injected and being carried in overflow.	Physical stress, Potential Energy- Pressurized Gases/Liquids, Slips trips and falls, Pinch points, Lifting and handling, Potential fumes

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TASK: STRIP MUD



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TASK: STRIP MUD

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RISK Ranking

MAR 26 2019

	Likelih	ood – Pi	obabili	ty – Freq	uency
SEVERITY ¬	Impractical - Improbable - Rarely (1)	Unlikely - Not Probable - Infrequent (2)	Likely - Probable - Frequent (3)	More Likely - More Probable More Frequent (4)	Very Likely- Very Probable Very Frequent (5)
Catastrophic (4)	4	8	12	16	20
Major (3)	3	6	0	12	15
Serious (2)	2	4	6	8	10
Minor (1)	1	2	3	4	5

WV Department of Environmental Protection

Level III Unacceptable RISK No Work until additional Safety Controls are implemented and with Manager approval

Level II Undesirable RISK Proceed with additional Safety Controls and Supervisor approval

Level I Acceptable RISK Proceed with Caution

SOLUTIONS

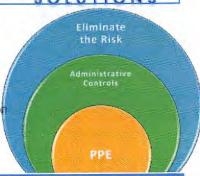
TASK: STRIP MUD

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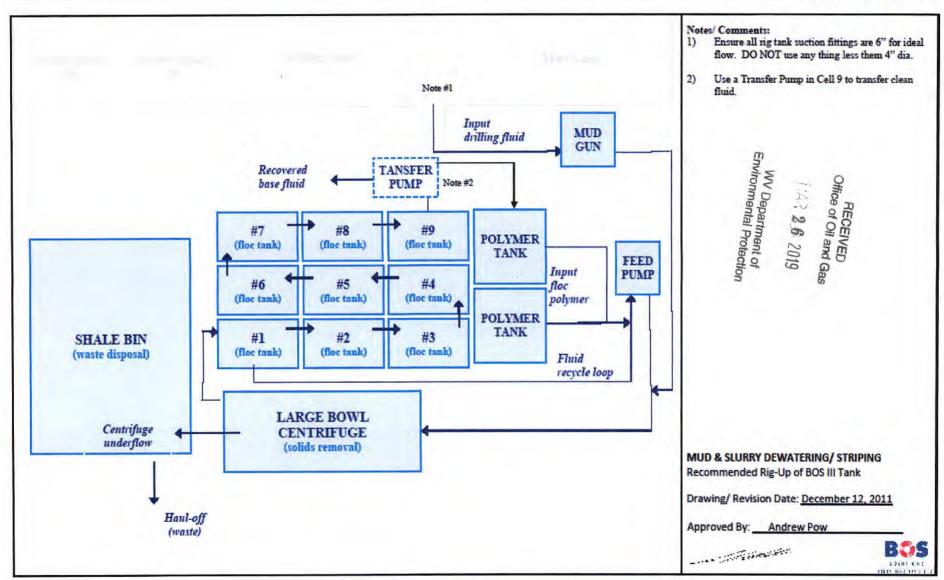
• Controls < List Controls to make task safe>



Elimination Control:	Administrative Control:	PPE:
Guards	Standard Operating Procedures #106	Fire Retardant Coveralls
Valves	Pre Job Risk Assessments	Steel Toed Safety Boots
Gates	HSE Policy	Safety Glasses
	PPE Standards	Hearing Protection
	Training/ New hire, equipment, PPE, ERP	Hard Hat
		Gloves/ per task
		Rubber Boots/ per task
		Rain Suit / per task
		Respirator/ per task

FLOW CHART MUD AND SLURRY DEWATERING RECOMMENDED RIG UP





				HSF	APPR	OVED NON-HAZ	ARDOUS WA	ASTE DISP	OSAL FA	CHATTE	S (version 05	5-23-2016)		
Republic Services (Allied V Industrial Landfills	(aste)		Gas Spec	One Specific Waste Streams Ottier Accepted Waste Streams									2017		
Landfill	Location		Drill * Cuttings	Waste	Waste Brine	Contaminated Soll	Construction & Demulition Waste	Industrial Waste	Sludge	Friable Asbestos	Non-Friable Asbestos	Process Waste	Solidification Services	Municipal Solid Waste	Contact Information
AcLean County	Bloomington	IL	X	X		X	X	X	X	X	X	X	344002	X	
RC/Coles County	Charleston	IL	X	Х		X	X	X	X	X	X	X		X	
rickyard Disposal	Danville	IL.	X	X		X	X	X	X	X	X	X		X	
outhern Illinois Regional	De Soto	IL												X	
ee County	Dixon	IL	X	X		X	X	Х	X	X	X	X		X	
Jpper Rock Island	East Moline	IL	X	X		X	X	X	X	x	X	Х		X	
lond County	Greensville	II.	X	X		X	X	X	X	Х	X	X		X	
llinois	Hoopeston	IL	X	X		X	X	X	х	X	X	X		X	the second second
andComp	LaSalle	IL	X	X		X	X	X	X	X	X	х			317-921-1667 or 480-627-2700 1-800-634-0215
itchfield-Hillsboro	Litchfield	IL	X	X		X	X	X	- X	X	X	х		X	
invirontech	Morris	II.	X	X		X	X	X	X	X	X	Х		Х	
ivingston	Pontiac	II.	х	X		X	X	X	X		X	х		X	
Roxana	Roxana	IL	X	X		X	X	X	X	X	X	X	X	X	
Sangamon Valley	Springfield	IL.	X	X		X	X	X	X	х	X	X	1	X	
Benson Valley	Frankfort	KY	X	X		X	X	X	X	X	X	X		X	
Blue Ridge	Irvine	KY	X	X		X	X	X	X	X	X	х		X	
Morehead	Morehead	KY	X	X		X	X	X	X	X	X	X		X	
Green Valley	Rush	KY	X	X		X	X	X	X	X	X	X	X	X	
herokee Run	Bellefontaine	OH				X	X	X	Х		X	X	-	X	
Williams County	Bryan	OH				X	X	X	Х	X	X	X		X	
County Environmental	Carey	OH				X	X	X			X	X		X	
Celina	Celina	OH	1000			X	X	X	X		X	X		X	
arbon-Limestone**	Lowellville	ОН	X	X		X	X	X	X			X	X		Jack Palermo:
Countywide Landfill**	East Sparta	OH	X	X		X	X	X		1-1			-	X	
orain County	Oberlin	OH				X	X	X	х			X		X	work: 330-536-8013
Dakland Marsh	Shiloh	OH			-		X	X	X	X	X			X	cell: 330-806-9660
mperial	Imperial	PA				X	X	X	X	X	X			x	
Conesto a	Morgantown	PA		VS - 3		X	X		X	X	X	Х		X	Barbara Harsanye:
Iranswick	Lawrenceville	VA				X	X	X	X	X	X	X		x	work: 330-536-8013 x 120 cell: 330-423-7267
King and Queen	Little Plymouth	VA				X	X	X	X	X	X	X		x	
Old Dominion	Richmond	VA				X	X	X	X	X	x	X		X	
Sycamore	Hurricane	wv				X	X	X	X	A	1	X		X	
Short Creek	Wheeling (Short Creek)	WV		х		X	X	X	X			X		X	
Carter Valley	Church Hill	TN						-				- ^-		- 0	

JAN 2 2018

WW Department of Environmental Protection

Waste Wanagement industrial Landfills			Gas Spec	lfic Waste	Streams			(Other Accepte	d Waste Stream	ns				The state of the s	
Landfill	Location		Drill *	Waste	Waste Brine	Contaminated Soil	Construction & Demolition Waste	Industrial Waste	Studge	Friable Asbestos	Non-Friable Asbestos	Process Waste	Solidification Services	Municipal Solid Waste	Contact Information	
viden Landfill	Washington	PA	X	X		X	X	X	X			Х	X	X		
South Hills (Arnoni)	South Park	PA	Х	X			X	X	X			Х	X	Х		
Celly Run	Elizabeth	PA	X	X		X	X	X	х			X	X	X	1	
/alley Landfill	Irwin	PA	X	X		X	X	X	X	X	X	X	X	X		
Evergreen Landfill	Blairsville	PA	Х	X		X	X	X						X		
Charleston Landfill	Charleston	wv	x	x		x	x	х	x			х		x	Scott Allen: 412-604-2256	
Kanawha County		4										414		X		
Aeadowfill Landfill	Bridgeport	WV	Х	X		X	X	X	х	X	X	X	X	X		
orthwestern Landfill	Parkersburg	WV	X	X		X	X	X	Х			X	X	X		
&S Grading Landfill	Clarksburg	WY	X	X		X	X	X	X			X		X		
merican Landfill	Waynesburg	OH	X	X		X	X	Х	X	X	X	х	X	X	7 - 1 - 1 - 1 - 1 - 1	
uburban RDF	Glenford	OH	X	X		X	X	X	X	Х	X	X	X		Patty Landolt: 262-532-8001	
eshocton Landfill***	Coshocton	OH	X	X		X	X	X						X	John Miller: 1-800-963-4776	
Mahoning Landfill	New Springfield	OH	X	X		X	X	X			X	X		X		
dditional Landfills			Gas Spec	ific Waste	Streams	Other Accepted Waste Streams									2000 1000	
Landfill	Location		Drill*	Waste Liners	Waste Brine	Contaminated Soil	Construction & Demolition Waste	Industrial Waste	Sludge	Friable Asbestos	Non-Friable Asbestos	Process	Selidification Services	Municipal Solid Waste		
Vestmoreland Waste WWLC Group)	111 Conner Lane, Belle Vernon, PA 15012	PA	х	x		x	х	x	x	х	х		x	The second second second second	Mike Home: 412-552-4427 Mark Thomas: 724-929-7694	
MAX Environmental	200 Max Drive,	PA	x	х		x	х	х	x				x	-	Carl Spadaro: 412-343-4900	
Bulger Facility	Balger, PA 15019	***	Α.				^	^	^					x		
MAX Environmental	233 MAX Lane	PA	х	X		x	x	х	x				x	х	cell: 412-445-9789	
Yukon Facility	Yukon PA 15698	***					76						^		Contract of the contract of th	
Apex Sanitary landfill Apex Environmental	11 County Road 78 Amsterdam, Ohio 43903	ОН	х	x		x	x	х	х				x	x	Joe Teterick: 740-275-2887	
Rumpke, Mt. Sterling	30 Larison Rd.	1						-		-	-		-		octa els-company.com	
Rum/ke Consolidated	Jeffersonville, KY 40337	KY	X	х		X	х	х		х	х			x	Carl Walter: 513-623-2471	
Laurel Ridge Landfill Waste Connections of KV	3612 B State Highway 552 Lily, KY 40740	KY	х	x		х	х	х		х	х	х		х	Bruce Crouch: Work: 606-864-7996 Ceil: 606-219-0261	
	Chestnut Valley 1184 McClellandtown Rd, McClellandtown, PA 15458	PA	х	x		x	x	x	х					х	Tony Labenne	
Advanced Disposal	Greentree Landfill; 635 Toby Rd.; Kersey, PA	PA	x	x		х	x	х	x					х	6184 Route 219, Brockway, PA 15824 814-590-9906	
	Mostoller Landfill; 7035 Glades Pike Rd.; Somerset, PA	PA	х	х		х	х	х	x					x		

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. Accepts drilling wastes but profile for disposal is not currently completed.

Waste stream accepted by facility.

Waste stream is not or may not be accepted by facility. Contact facility directly to verify waste streams accepted.

New PADEP rules regarding "TENORM" testing requirement are pending.

* Drill Cuttings include frae sand for the purpose of this table (Contact facility directly to verify waste streams accepted).

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Notes:

TD @ +/- 6315' TVD



LP @ +/- 6315' TVD

WV Department of Environmental Protection

DRILLING WELL PLAN

SHR37OHSM (Marcellus HZ)

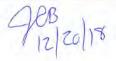
Marcellus Shale Horizontal

Tyler County, WV

+/- 1157' Lateral

					SH	R370H	SM SHL	N 31	13718.4, E 1619397.	.61 (NAD27)	
Ground Elevation		828 GL E	evation	SHR37OHSM LP				N 313034.78, E 1619266.44 (NAD27)			
Azimuth	161°			SHR37OHSM BHL				N 311941.03, E 1619643.04 (NAD27)			
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	MD	TVD	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS	
MI IM	24"	20" L/S	Conductor	100	100	AIR	To Surface	N/A	N/A	Stabilize surface fill/soil	
			Shallowest Fresh Water		137		+ 1% to 3% CaCl2	Centralize every other joint from shoe to	Ensure the hole is clean at section TD	Set through fresh water zones	
	17-1/2"	13-3/8" 54.5# J-55 BTC	Deepest Fresh Water		247	AIR / FW Mist	+ 1/4 pps Flake 20% OH Excess Yield = 1.19	surface Bow spring centralizers		Cemented to surface No known mineable coal seams	
			Fresh Water Casing	400	400		TOC @ surface				
			No known coal zones		N/A	1					
			Big Lime		1712		15.6 ppg Class A	Centralize every 3rd		Set through potential salt water	
111 111	11 - 11	0 5/01/ 20 0#	Big Injun		1777	Mod	+ 0% to 2% CaCl2 + 1/4 pps Flake 20% OH Excess Yield = 1.19 TOC @ surface	Joint from shoe to surface Bow spring centralizers	Soap the hole as needed	zones Cemented to surface	
	12-1/4"	9-5/8" 36.0# J-55 LTC	Price		1917	AIR / Soap			and ensure the hole is clean	Casing to be set below the Big Injun and Berea and into Devonian Shale	
			Weir		2077	-			at section TD		
88			Berea		2267						
			Intermediate Casing	2390	2390						
			Gordon		2487						
	1		Warren		3182						
10 - 10	8-3/4"		Benson		4762	AIR	15.0 ppg Class H		Once at TD, circulate at max		
10 10	Tangent		Alexander		5007	Silv	with additives (retarder, suspension agent, gas		flowrate with max rotation	Note: Actual centralizer placem	
	1 7 7 1	1 4 44	Cashaqua		6007		block, defoamer, fluid	Centralize every joint	until shakers clean-up (typically requires multiple	may be changed due to hole	
		5-1/2" 20.0#	Middlesex		6112		loss, extender, etc.)	from shoe to TOC	bottoms-up)	conditions	
Office		P-110 VAR	West River		6152		10% OH Excess	Single-piece/rigid bow	Once on bottom with casing,	Note: Actual cement blends ma	
Ce +B	15 11		Burkett	1	6222		Yield = 1.10	centralizers	circulate a minimum of one	vary slightly depending upon service company utilized	
9.50 9.50	8-1/2" Curve	11 19	Tully	1	6236	12.0-12.8	TOC @ >= 500' above		hole volume prior to pumping cement	service company unized	
of Oil and	& Lateral		Hamilton		6257	ppg SOBM	9-5/8" shoe				
38		13	Marcellus		6292						
Gas			Production Casing	7894	6315	100					

8-3/4" x 8-1/2" Hole - Cemented Long String 5-1/2" 20.0# P-110 VAR





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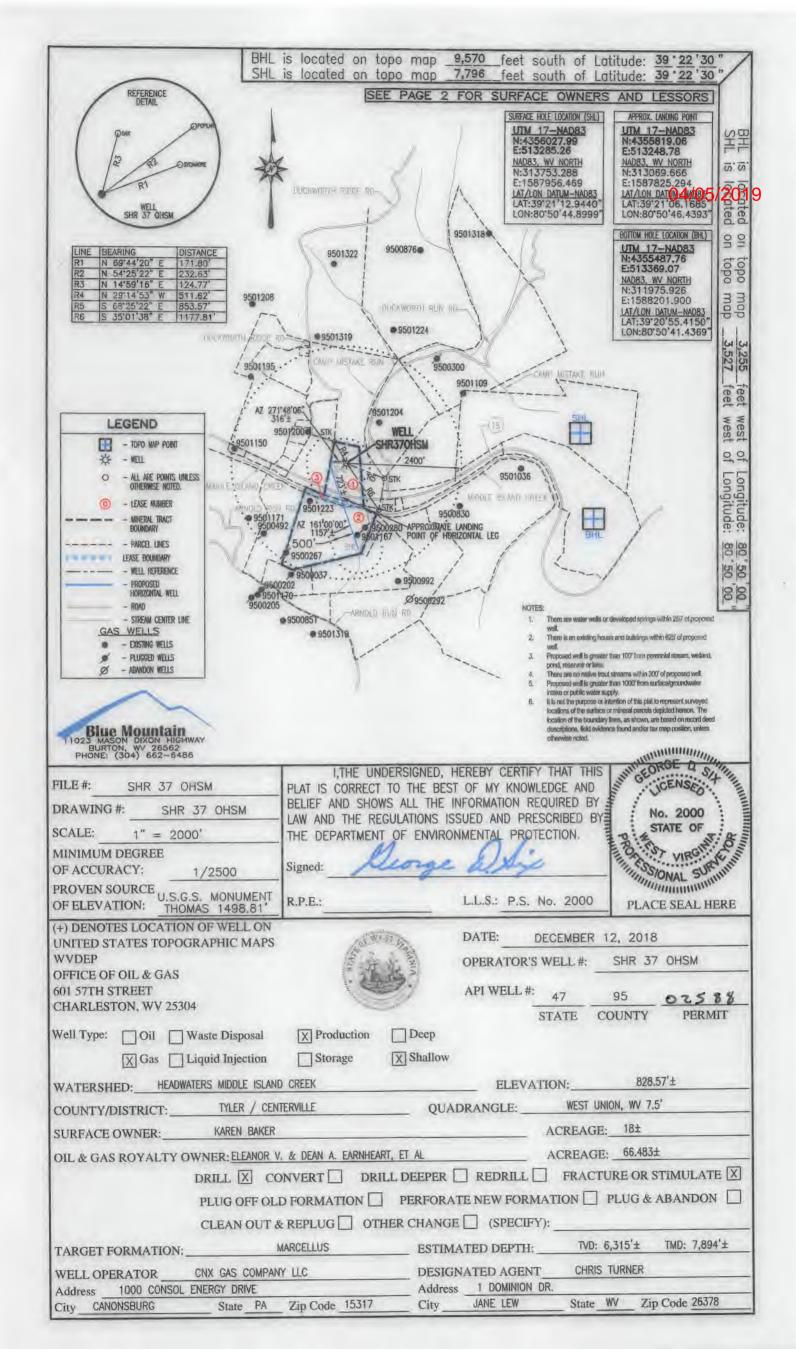
JAN 2 2018

WV Department of Environmental Protection

Site Safety Plan for Well SHR370HSM CNX Gas Company, LLC.



Jeb 12/20/18



SHR 37 OHSM PAGE 2 OF 2

04/05/2019

	SURFACE OWNER	LESSOR	DIST-TM/PAR		
1	KAREN BAKER	ELEANOR V. EARNHEART AND DEAN A. EARNHEART, H/W	1-17/5		
	Company of the Compan	CLELLA BOICE			
		LUELLA L. MCCONNELL			
		AGNESS GODWIN			
		NANCY P. MCCLAIN AND RALPH E. MCCLAIN, H/W	1		
		GEORGIA P. SNYDER			
		BRADIE PIPES AND GOLDIE PIPES, H/W			
		PURSIE PIPES AND NORMA J. PIPES, H/W			
		DOROTHY BELLE WELLS AND BYRON WELLS, H/W			
		WANDA WEEKLEY			
		MYRNA MORGAN AND DAVID MORGAN, H/W	land to the same of		
2	SAMUEL V. ASH & DENISE RULE	A. E. DOAK AND CALLIE DOAK, H/W	1-17/4		
3	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	N/A		

SURFACE HOLE LOCATION (SHL)

UTM 17—NAD83

N:4356027.99
E:513285.26

NAD83. WV NORTH
N:313753.288
E:1587956.469
LAT/LON DATUM—NAD83
LAT:39'21'12.9440"
LON:80'50'44.8999"

APPROX. LANDING POINT

UTM 17—NADB3
N:4355819.06
E:513248.78
NADB3. WV NORTH
N:313069.666
E:1587825.294
LAT/LON DATUM—NADB3
LAT:39°21'06.1685"
LON:80°50'46.4393"

BOTTOM HOLE LOCATION (BHL)

UTM 17—NAD83
N:4355487.76
E:513369.07
NAD83, W NORTH
N:311975.926
E:1588201.900
LAT/LON DATUM—NAD83
LAT:39'20'55.4150"
LON:80'50'41.4369"

DECEMBER 12, 2018



WW-6A1 (5/13) Operator's Well No. SHR37OHSM

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

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WV Department of Environmental Protection

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

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

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

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

Well Operator: CNX Gas Company, LLC

By: Raymond Hoon Permitting Supervisor

Attachment - Form WW-6A-1 for SHR370HSM

<u>Iract (D</u>	Tax Map & Parcel	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page /
1	TMP 1-17-5	# 269278000	Eleanor V. Earnheart and Dean A. Earnheart, her husband			<i>_</i>
_		200270000	Clella Boice, widow	Sefco Enterprises, Inc. Sefco Enterprises, Inc.	Not less than 1/8	267/74
			Luella I. McConnell, widow	Sefco Enterprises, Inc.	Not less than 1/8 Not less than 1/8	267/76
			Agnes Godwin, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/78 267/80
			Nancy P. McClain and Raiph E. McClain, wife and husband	Sefco Enterprises, Inc.	Not less than 1/8	• •
			Georgia P. Snyder, divorced	Sefco Enterprises, Inc.	Not less than 1/8	267/82 267/84
			Bradie Pipes and Goldie Pipes, his wife	Sefco Enterprises, Inc.	Not less than 1/8	267/86
			Pursie Pipes and Norma J. Pipes, husband and wife	Sefco Enterprises, Inc.	Not less than 1/8	267/88
			Dorothy Belie Wells and Byron Wells, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/90
			Wanda Weekley, widow	Sefco Enterprises, Inc.	Not less than 1/8	267/581
			Myrna Morgan and David Morgan, her husband	Sefco Enterprises, Inc.	Not less than 1/8	267/640
			Sefco Enterprises, Inc.	Eastern American Energy Corporation	•	285/650
			Eastern American Energy Corporation	Seneca-Upshur Petroleum, Inc.	Assignment	265/65U 354/757
			Seneca-Upshur Petroleum, Inc.	Seneca-Upshur Petroleum, Inc. Seneca-Upshur Petroleum, LLC	Assignment	381/540
			Seneca-Upshur Petroleum, LLC	·	Assignment	402/132
			Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	Assignment Name Change	402/132 WV\$OS
			Antero Resources Apparacitair corporation	Attero Resources Corporation	Name Change	425/701
			Antero Resources Corporation	CNV Gas Company 11 C & Noble Francisco	Assissment	427/564
			Noble Energy, Inc.	CNX Gas Company, LLC & Noble Energy Inc. CNX Gas Company, LLC	Assignment Assignment	550/273
			Nobie Eller By, Ilic.	City das Company, EC	Assignment	330/2/3
Tract ID	Tax Map & Parcel	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page V
2	TMP 1-17-4	266301000	A. E. Doak and Callie Doak, husband and wife	J. E. Trainer	Not less than 1/8	71/174
-	2 2. 4	20030200	1. E. Trainer	W. W. Hepburn	Assignment	80/346
			W. W. Hepburn	Eastern Petroleum Company	Assignment	80/338
			-	The Pennsylvania Company for Insurances on Lives and Granting		
			Eastern Petroleum Company	Annuities	Deed of Trust	17/1
			The Pennsylvania Company for Insurances on Lives and Granting Annuities	Clifton Oil & Gas Company	Assignment	94/71
			Eastern Petroleum Company	Clifton Oil & Gas Company	Assignment	94/61
			Clifton Oil & Gas Company	Quaker State Oil Refining Corporation	Assignment	270/111
			Quaker State Oil Refining Corporation	Quaker State Corporation	Name Change	wvsos
				•	•	311/584
			Quaker State Corporation	Belden & Blake Corporation	Assignment	311/590
				•	-	321/340
			Belden & Blake Corporation	Peake Energy, Inc.	Assignment	321/344
			Peake Energy, Inc.	North Coast Energy Eastern, Inc.	Name Change	8/702
			North Coast Energy Eastern, Inc.	EXCO- North Coast Energy Eastern, Inc.	Name Change	9/80
			EXCO- North Coast Energy Eastern, Inc.	EXCO Resources (WV), Inc.	Name Change	wvsos
			,	EXCO Resources (WV), LLC.		
				BG Production Company (WV), LLC		
			EXCO Resources (WV), inc.	EXCO Resources (PA), LLC	Merger	374/808
			EXCO Resources (WV), LLC.	EXCO Production Company (WV), LLC	Name Change	wvsos
			EXCO Production Company (WV), LLC			
			BG Production Company (WV), LLC			
			EXCO Resources (PA), LLC	Antero Resources Appalachian Corporation	Assignment	406/195
			Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	wvsos
			Antero Resources Corporation	CNX Gas Company, LLC & Noble Energy Inc.	Assignment	433/7
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	550/273
Tract ID	Tax Map &	Title Opinion QLS	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
	Parcel	<u>#</u>				V
_	Middle Island	41.54	14/act Marinia Philipp of Natural Descriptor	Antero Resources Corporation	Not less than 1/8	553/295
3	Creek	N/A	West Virginia Division of Natural Resources	CNX Gas Company, LLC	Affidavit of Agreement	624/332
			Antero Resources Corporation	City das company, LCC	or reprovident	,

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WW Department of Environmental Protection

2012



Raymond Hoon Permitting Supervisor 1000 Consol Energy Dr. Canonsburg, PA 15317 (724) 485-3540

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

RE: Road Letter - SHR37 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) 485-3540 or RaymondHoon@cnx.com.

Sincerely,

Raymond Hoon Permitting Supervisor

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> > JAN 2 2018

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

Date of Noti	ce Certification: 12-27-18	API No. 47-			
_ nccar.,	<u> </u>	Operator's Well N	O SHR37OHSM		
		Well Pad Name:			
Notice has	been given:				
Pursuant to th	he provisions in West Virginia Code	§ 22-6A, the Operator has provided the required p	arties with the Notice Forms listed		
State:	tract of land as follows:	Davidor Steppe	0000		
	West Virginia	111M NAD 83	513285.2620 4356027.9910		
County:	Tyler				
District:	Centerville		Duckworth Ridge Road (CR 58/2)		
Quadrangle:	West Union	Generally used farm name: CNX	CNX		
Watershed:	Headwaters Middle Island Creek				
Virginia Cod of this article Pursuant to	e § 22-6A-11(b), the applicant shall the have been completed by the applicant	perator has attached proof to this Notice Certifica	notice requirements of section ter		
*PLEASE CH	ECK ALL THAT APPLY		OOG OFFICE USE ONLY		
□ 1. NO	TICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED		
☐ 2, NO	TICE OF ENTRY FOR PLAT SUR	VEY or 🔳 NO PLAT SURVEY WAS CONDUC	CTED RECEIVED		
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	☐ RECEIVED/ NOT REQUIRED		
		☐ WRITTEN WAIVER BY SURFACE OW (PLEASE ATTACH)	NER		
■ 4. NO	TICE OF PLANNED OPERATION	RECEIVED Office of Oil and Gas	☐ RECEIVED		
■ 5. PU	BLIC NOTICE	JAN 2 2018	☐ RECEIVED		
■ 6. NO	TICE OF APPLICATION	WV Department of Environmental Protection	☐ RECEIVED		

Required Attachments:

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

Certification of Notice is hereby given:

THEREFORE, I Many for the continuous personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator:	CNX Gas Company, LLC	Address:	1000 Consol Energy Drive			
By:	Raymond Hoon		Canonsburg, PA 15317			
Its:	ts: Permitting Supervisor					
Telephone:	724-485-3540	Email:	RaymondHoon@CNX.com_			
Lori Rich My Comn	NOTARIAL SEAL L. Walker, Notary Public hill Twp., Greene County	bscribed and swo	orn before me this 18 day of 10 mle 108. Notary Public xpires February 13, 1019			

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.

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IAN 2 2018

WW-6A (9-13)

API NO. 47-470-9502588

OPERATOR WELL NO. SHR370HSW O4705/2019

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.

SALE OF CONTROL OF A CONTROL OF THE SECOND S	and the same of became abbuttants
Date of Notice: 12-11-17 Date Permit Application Filed: Notice of:	12-27-18 RECEIVED Office of Oil and Gas
PERMIT FOR ANY CERTIFICATE OF A	JAN 2 2018
	APPROVAL FOR THE OF AN IMPOUNDMENT OR PIT WV Department of Environmental Protection
Delivery method pursuant to West Virginia Code § 22-6A	
	THOD OF DELIVERY THAT REQUIRES A CEIPT OR SIGNATURE CONFIRMATION
described in the erosion and sediment control plan submitted purpoperator or lessee, in the event the tract of land on which the we more coal seams; (4) The owners of record of the surface tract of well work, if the surface tract is to be used for the placement, or impoundment or pit as described in section nine of this article; (have a water well, spring or water supply source located within provide water for consumption by humans or domestic animals; proposed well work activity is to take place. (c)(1) If more than subsection (b) of this section hold interests in the lands, the apprecords of the sheriff required to be maintained pursuant to sect provision of this article to the contrary, notice to a lien holder is	
	COAL OWNER OR LESSEE
☑ SURFACE OWNER(s) Name: CNX Gas Company LLC	Name: CNX Gas Company LLC
Address: 1000 Consol Energy Drive	Address: 1000 Consol Energy Drive
Canonsburg, PA 15317	Canonsburg, PA 15317
Name:	□ COAL OPERATOR
Address:	Name:
	Address:
SURFACE OWNER(s) (Road and/or Other Disturbance)	The state of the s
Name:	☑ SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
	Name: See attached.
Name:	Address:
Address:	DOPERATOR OF ANY NATURAL GAS STORAGE FIELD
= CUIDEA OF OWNED (A) (Territory description District	
SURFACE OWNER(s) (Impoundments or Pits)	Name:Address:
Name:	ridulvaa.
Address:	*Please attach additional forms if necessary

WW-6A (8-13) Office of Oil and Gas

JAN 2 2018

API NO. 47-OPERATOR WELL NO. SHR370HSM Well Pad Name: SHR37 04/05/2019

Notice is hereby given:

VIV Department of Environmental Protection

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

This Notice Shall Include:

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

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

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

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

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

API NO. 47-____OPERATOR WELL NO. SHR370HSM
Well Pad Name: SHR37

WHOM SHR37

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

RECEIVED
Office of Oil and Gas**

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

JAN 2 2018

WV Department of Environmental Protection

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

API NO. 47-____OPERATOR WELL NO. SHR370HSM 04/05/2019

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.

RECEIVED Office of Oil and Gas

JAN 2 2018

WW-6A (8-13)

API NO. 47-___OPERATOR WELL NO. SHR370HSM 04/05/2019

Notice is hereby given by:		
Well Operator: CNX Gas Company, LLC Mann Here	Address: 1000 Consol Energy Drive	
Telephone: 724-485-3540	Canonsburg, PA 15317	
Email: RaymondHoon@CNX.com	Facsimile:	

Oil and Gas Privacy Notice:

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

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COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL
Lori L. Walker, Notary Public
Richhill Twp., Greene County
My Commission Expires Feb. 23, 2019
PEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Subscribed and sworn before me this 28 day of

Notary Public

My Commission Expires

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JAN 2 2018

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

CNX RESOURCES CORPORATION 1000 CONSOL ENERGY DRIVE CANONSBURG, PA 15317

RYAN & DAVIS 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

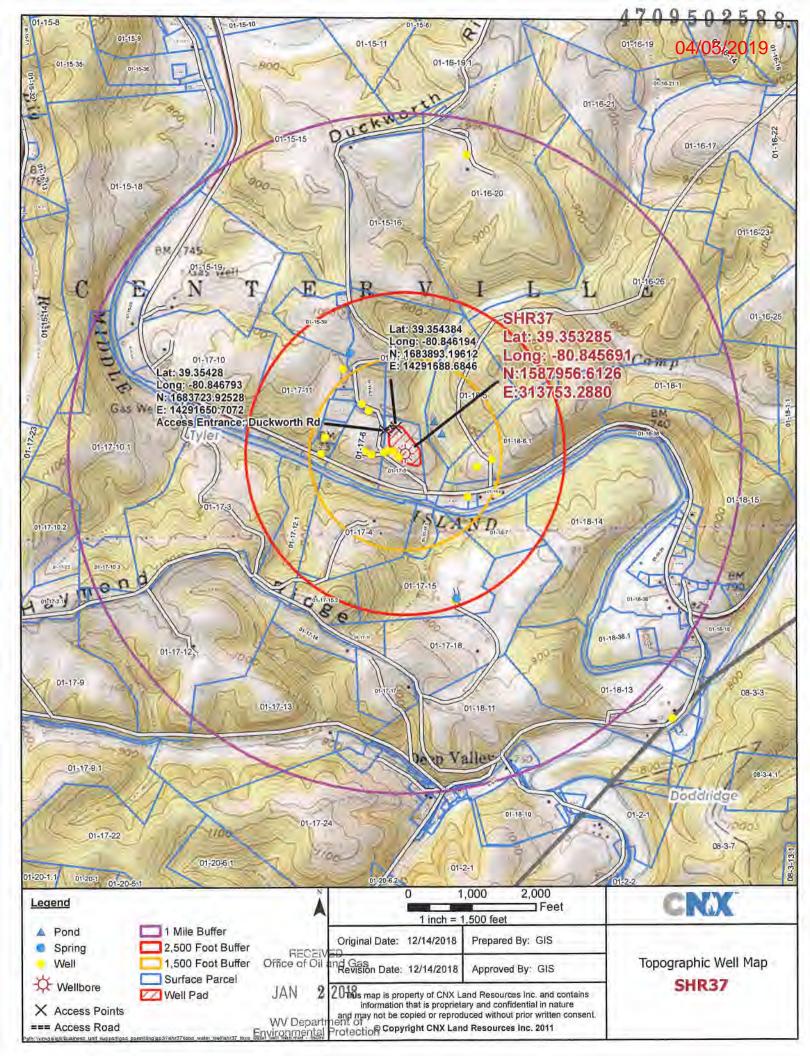
RONALD ROYCE & REVA D. ROWLAND 358 DUCKWORTH RIDGE ROAD ALMA, WV 26320

GAIL WILLIAMSON

195 DUCKWORTH RIDGE ROAD
ALMA, WV 26320

DOUG LANTZ 1376 MIDWAY ROAD BELINGTON, WV 26250 RECEIVED Office of Oil and Gas

JAN 2 2018



04/05/2019

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

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

Date of Notic	Requirement: Notice shall be ce: _/2-/8-/8	provided at least TEN (Date Permit Applica				
Delivery me	thod pursuant to West Virgi	nia Code § 22-6A-16(b)				
☐ HAND	■ CERTIFIED	МАП				
DELIVE		CEIPT REQUESTED				
DELIVI	KETOKIN KE	CEIL I KEQUESTED				
receipt reque drilling a hor of this subsec subsection m	V. Va. Code § 22-6A-16(b), at sted or hand delivery, give the izontal well: <i>Provided</i> , That it ition as of the date the notice vay be waived in writing by the le, facsimile number and elect	surface owner notice of notice given pursuant to was provided to the surface surface owner. The notice	its intent to ent subsection (a), ce owner: <i>Pro</i> ce, if required,	ter upon the section te wided, how shall incl	ne surface owner's land for the n of this article satisfies the never, That the notice require ude the name, address, teleph	ne purpose of requirement ments of thit none number
	reby provided to the SUR					
Name: CNX Ga			Name:			
Address: 1000 Canonsburg, PA	Consol Energy Drive		Address:			
oanonaburg, i A	10011					
Pursuant to V the surface of	reby given: Vest Virginia Code § 22-6A-1 wner's land for the purpose of		on the tract of	land as fo	llows:	o enter upo
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov. RECEIVED Office of Oil and Gas

JAN 2 2018

WW-6A5 (1/12) 407eralor Well No. 2545378458

04/05/2019

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

	Requirement: notice shall be provide: 12-18-18 Date Perm	led no later than the filing nit Application Filed:/		application.
Delivery me	thod pursuant to West Virginia Cod	de § 22-6A-16(c)		
■ CERTI	FIED MAIL	☐ HAND		
	RN RECEIPT REQUESTED	DELIVERY		
return receipt the planned or required to be drilling of a damages to th (d) The notic of notice. Notice is her (at the addres	requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section thorizontal well; and (3) A proposed he surface affected by oil and gas operes required by this section shall be given by provided to the SURFACE OW is listed in the records of the sheriff at a Company LLC	surface owner whose land his subsection shall incluten of this article to a surf surface use and compensations to the extent the dayen to the surface owner at the time of notice): Name:	I will be used for de: (1) A copy ace owner whose action agreement amages are compatitude address list	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
Address: 1000 Canonsburg, PA Notice is her Pursuant to V	eby given: Vest Virginia Code § 22-6A-16(c), no		ne undersigned v	well operator has developed a planned
Address: 1000 Canonsburg, PA Notice is her Pursuant to V operation on	eby given: Vest Virginia Code § 22-6A-16(c), no the surface owner's land for the purp	otice is hereby given that the	ne undersigned v	
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Address: 1000 Canonsburg, PA Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice is Pursuant to V to be provide horizontal we surface affect information in	eby given: Vest Virginia Code § 22-6A-16(c), nor the surface owner's land for the purpowest Virginia Tyler Centerville West Union Headwaters Middle Island Creek Shall Include: Vest Virginia Code § 22-6A-16(c), the ed by W. Va. Code § 22-6A-10(b) the edl; and (3) A proposed surface use are ted by oil and gas operations to the crelated to horizontal drilling may be a located at 601 57th Street, SE,	Detice is hereby given that the cose of drilling a horizonta and a UTM NAD 8. Public Road Generally use this notice shall include: (1 to a surface owner whose and compensation agreement the damages are cost obtained from the Secre	ne undersigned value on the tra Easting: Northing: Access: ed farm name: OA copy of this e land will be understand and compensable undersy, at the WV	act of land as follows: 513285,2620 4356027,9910 Duckworth Ridge Road (CR 58/2)
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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.

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JAN 2 2018

WW-6RW CNX # 294094001

OPERATOR WELL NO. See Exhibit A Well Pad Name: SHR 37

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

The well ope work. Please	erator, CNX GAS COMPANY LLC be advised that well work perm	is applying for a perm nits are valid for twenty-four (it from the State 24) months.	of West Virginia to conduct oil or gas well
Pursuant to Vany existing located within larger used to dwellings or provided in starticle was proby written to clerk of the variance by the practices to conditions the	water well or developed spring in six hundred twenty-five feet to house or shelter dairy cattle agricultural buildings that exis- ection ten of this article or a no ovided, whichever occurs first, insent of the surface owner tra- county commission for the co- ne secretary from these distance	g used for human or domestic of an occupied dwelling struc- e or poultry husbandry. This ted on the date a notice to the dice of intent to drill a horizor, and to any dwelling under co- ansmitted to the department a unty in which such property i e restrictions upon submission e construction, drilling and of the safety and protection of a	c animal consum ture, or a buildin limitation is appersured to the surface owner of the test owner of the postruction prior and recorded in the solution of a plan which perations. The waffected persons a	adred fifty feet measured horizontally from ption. The center of well pads may not be g two thousand five hundred square feet or plicable to those wells, developed springs, of planned entry for surveying or staking as ded in subsection (b), section sixteen of this to that date. This limitation may be waived he real property records maintained by the ermore, the well operator may be granted a dentifies the sufficient measures, facilities variance, if granted, shall include terms and and property. The terms and conditions may
provisions lis	ted chove and that I have rece	ived copies of a Notice of App is one (1) through well work on the tract of land UTM NAI	ons to Persons Na plication, an App , including the	med on Page WW-6A and the associated lication for a Well Work Permit on Form erosion and sediment control plan, if 513285.2620 m 4356027.9910 m
District:	Centerville	Public Ros	ad Access:	Duckworth Ridge Road (CR 58/2)
Quadrangle:	West Union	Generally	used farm name:	CNX
WELL SITE	that I have no objection to the materials and I therefore was RESTRICTIONS BEING V all that apply	ive all well site restrictions lis	sted under West	d I have no objection to a permit being Virginia Code § 22-6A-12(a). TION BY A NATURAL PERSON
	NG WATER WELLS	RECEIVED Office of Oil and Gas	Print Name: _ Date:	The second secon
■ DEVEL	OPED SPRINGS	JAN 2 2018	Company:	THON BY A CORPORATION, ETC. CNX Gas Company LLC
DWELI	LINGS	and of	Its: Accel	Hice President
■ AGRICU	JLTURAL BUILDINGS	WV Department of Environmental Protection	Signature:	1017 2018
Well Operator	CNX GAS COMPANY LLC	Signa	ature: Man	on / for
By: Raymond Hos	on law the	Tele	phone: 724-485-354	0
Its: Permitting Su				
Doug Ceci My Com	NOTABLE SEAL NOTABLE SMITH, NOTABLE SEAL NOTABLE SMITH, NOTABLE COUNTY WASHINGTON COUNTY IMPOSSION EXPIRES DEC. 6, 2020 WASTLVANIAASSOCIATION OF NOTABLES	Dougle	, L Sm	

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.

04/05/2010

WW-6RW Well Location Restriction Waiver

EXHIBIT A

SHR37HSM

Operator Well No.

SHR37DHSM SHR37EHSM SHR37FHSM SHR37GHSM SHR37HHSM SHR37HSM SHR37KHSM SHR37LHSM SHR37MHSM SHR37NHSM SHR37OHSM SHR37PHSM

SHR37QHSM SHR37RHSM

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

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JAN 2 2018



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

December 14, 2018

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

Jill M. Newman Deputy Commissioner

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

Subject: DOH Permit for the SHR-37 Well Pad, Tyler County shr37ohsm Well Site

Dear Mr. Martin.

The West Virginia Division of Highways has issued Permit #06-2018-0949 for the subject site to CNX Gas Company for access to the State Road for the well sites located off of Tyler County Route 58/2 SLS.

The operator has signed an OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018.

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JAN 2 2018

WV Department of Environmental Protection Very Truly Yours,

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

Dary t. Clayton

Cc: Shannon Miller

CNX Gas Company, LLC

CH, OM, D-6

File

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

Type: Water CAS: 7732-18-5

Type: Silica CAS: 14808-60-7

Type: Hydrochloric Acid CAS: 7647-01-0

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

Type: Petroleum distillate CAS: 64742-47-8

Type: Glutaraldehyde CAS: 111-30-8

Type: Ethylene glycol CAS: 107-21-1

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

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

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

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

Type: Ammonium chloride CAS: 12125-02-9

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

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

Type: Metanol CAS: 67-56-1

Type: Formaldehyde CAS: 50-00-0

Type: Thiourea CAS: 62-56-6

Type: Acetophenone CAS: 98-86-2

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JAN 2 2018

SHR-37 WELL PAD

Erosion & Sedimentation Control Plan

Centerville District, Tyler County, West Virginia

Prepared For:

SITE ENTRANCE COORDINATES: N39°21'15.37"

W80°50'48.61"

WELL PAD CENTER: N39°21'12.90" W80°50'44.67" (39.354269, -80.846836) (39.353583, -80.845742) CNX GAS COMPANY, LLC

1000 CONSOL Energy Drive Canonsburg, PA 15317

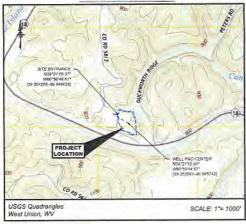
Issue Date: November 19, 2018 Revised: January 16, 2019

APPROVED WVDEP OOG 1/21/1 1/25/2019

DRAWING SCHEDULE

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

SITE VICINITY MAP



SITE LOCATION MAP



Prepared By:



1712 Mt. Nebo Road Sewickley, PA 15143 Office Phone: 412-219-4509 Email: Info@ShefflerCo.com





LANDOWNER IMPACT TABLE

ER
mpany, LLC

1/13

