

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

Tuesday, July 17, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

CNX GAS COMPANY LLC POST OFFICE BOX 1248

JANE LEW, WV 263786506

Re: Permit approval for SHR38GHSM 47-095-02514-00-00

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: SHR38GHSM Farm Name: JAMES E. ASH ET AL U.S. WELL NUMBER: 47-095-02514-00-00 Horizontal 6A New Drill Date Issued: 7/17/2018

Promoting a healthy environment.



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. <u>Failure to adhere to the specified permit</u> 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.

07/20/2018

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, sending an email to DEPOOGNotify@wv.gov.

API NO. 47-____ OPERATOR WELL NO. SHR38GHSM

Well Pad Name: SHR38

4709502514

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

1) Well Operato	r: CNX G	as Compan	y, LLC	494458046	Tyler	Centervi	West Union
- •				Operator ID	County	District	Quadrangle
2) Operator's W	ell Number	: SHR38GH	ISM	Well Pad	Name: SHR3	8	
3) Farm Name/S	Surface Own	ner: Ash		Public Road	d Access: Duc	kworth Ric	lge Road
4) Elevation, cu	rrent groun	d: <u>1026'</u>	El	evation, proposed j	post-construction	on: <u>1012'</u>	
5) Well Type	(a) Gas	<u>X</u>	_ Oil	Unde	rground Storag	je	
	Other	<u>.</u>					·····
	(b)If Gas	Shallow	X	Deep			
		Horizontal	X			DMg	H 5/10/18 3 5/10/2018
6) Existing Pad:	Yes or No		No			JCë	3 5/10/2018
· •	•	• • •		bipated Thickness and	-	• •	• 4000 pei
)5' TVD, 45' thick, e>		on pressure	~4000 psi
8) Proposed Tot	al Vertical						
9) Formation at	Total Verti	cal Depth:	Marcellus	s Shale (will not pe	enetrate Onon	daga)	
10) Proposed To	otal Measur	ed Depth:	11,906'				
11) Proposed He	orizontal Le	eg Length:	4909'				
12) Approximat	e Fresh Wa	ter Strata De	pths:	305', 415'			
13) Method to E	Determine F	resh Water I	Depths:	Offset well informa	ation	DEOE	
14) Approximat	e Saltwater	Depths: 19	45'			Office of Oil a	ed and Gas
15) Approximat	e Coal Sear	n Depths: <u>N</u>	lo known	coal seams		MAY 16	2018
16) Approximat	e Depth to	Possible Voi	d (coal m	ine, karst, other): <u>1</u>	None anticipat	edW Departr	nent of Protection
17) Does Propos directly overlyin				ms Yes	No		x
(a) If Yes, pro	vide Mine I	nfo: Name	:				
-		Depth	:				
		Seam					
		Owne	r:				

API NO. 47-___-

OPERATOR WELL NO. SHR38GHSM Well Pad Name: SHR38

WW-6B

(04/15)

CASING AND T	UBING PROGRAM

4709502514

ТҮРЕ	<u>Size</u> (in)	<u>New</u> or Used	Grade	<u>Weight per ft.</u> (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	20	New	L/S	<94.0	100	100	96 / CTS
Fresh Water	13.375	New	J-55	54.5	565	565	392 / CTS
Coal	N/A						
Intermediate	9.625	New	J-55	36.0	2335	2335	759 / CTS
Production	5.5	New	P-110	20.0	11906	11906	2193 / TOC @ 2135'
Tubing	2.375	New	J-55	4.7	Above assumes RF=29'	TBD	N/A
Liners	N/A						

					DMA	H 5/10/ CB 5,	18 10 2018
ТҮРЕ	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	20	24	0.375	N/A	N/A	Type 1	1.18
Fresh Water	13.375	17.5	0.380	2730	<500	Class A	1.19
Coal	N/A						
Intermediate	9.625	12.25	0.352	3520	<2815	Class A	1.19
Production	5.5	8.75 x 8.5	0.361	12360	~10000 during frac	Class H	1.07
Tubing	2.375	N/A	0.190	7700	N/A	N/A	N/A
Liners	N/A						

PACKERS

Kind:	N/A	Offi	RECEIVED
Sizes:			Y 16 2018
Depths Set:			Department of mental Protection

18)

API NO. 47	
OPERATOR WELL NO. SHR:	38GHSM
Well Pad Name: SHR38	
47095025	1 /
	1 4

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

Utilize conductor rig to set 20" conductor into solid rock and cement back to surface. MIRU drilling rig. Air drill 17-1/2" hole. Run and cement 13-3/8" fresh water casing. Note that there are no known coal seams in this area. Air drill 12-1/4" hole. Run and cement 9-5/8" intermediate casing. Air drill 8-3/4" production hole to curve KOP (this section is typically directionally drilled with a slant/tangent profile for anti-collision and for lateral spacing). Displace hole with 12.0-12.5 ppg SOBM. Drill 8-1/2" curve from KOP to landing point. Continue drilling 8-1/2" lateral to TD (geosteer this section to remain in Marcellus target window). Perform clean-up cycle to condition well. Run and cement 5-1/2" production casing. Suspend well and skid to next well or RDMO drilling rig.

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 15.57

22) Area to be disturbed for well pad only, less access road (acres): 6.97

23) Describe centralizer placement for each casing string:

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

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

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

25) Proposed borehole conditioning procedures:

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

MAY 1 6 2018

*Note: Attach additional sheets as needed.

WV Department of Environmental Protection

DMA 5/10/18

QCB 5/10/2018

SHR38 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.

> RECEIVED Office of Oil and Gas

MAY 1 6 2018

WV Department of Environmental Protection

		(Ne.	X					SHR38GHSM Marcellus Sh Tyler Co	WELL PLAN (Marcellus HZ) nale Horizontal punty, WV	
							SI	HR38GH	SM SHL	N	320182, E 1622485	(NAD27)
Groun	d Elev	vation	1	1012 GL E	levation	1	S	HR38G	ISM LP	N	320200, E 1622443	(NAD27)
A	zimuti	h		161.4	12°		SH	HR38GH	SM BHL	N	315547, E 1624008	(NAD27)
WELLB	BORE DIA	GRAM	HOLE	CASING	GEOLOGY	MD	TVD	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
											1	
			24"	20" L/S	Conductor	100	100	AIR	To Surface	N/A	N/A	Stabilize surface fill/soil
					Shallowest Fresh Water		305	AIR / FW Mist	15.6 ppg Class A + 1% to 3% CaCl2	Centralize every 3rd joint from shoe to		Set through fresh water zone
			17-1/2"	13-3/8" 54.5# J-55 BTC	Deepest Fresh Water		415		+ 1/4 pps Flake 20% OH Excess Yield = 1.19	surface Bow spring centralizers	Ensure the hole is clean at section TD	Cemented to surface No known coal seams
					Fresh Water Casing	565	565	-	TOC @ surface			
					No known coal zones		N/A			1		1
				9-5/8" 36.0# J-55 LTC	Big Lime		1880		15.6 ppg Class A + 0% to 2% CaCl2	Centralize every 3rd		Set through potential salt was zones
			12-1/4"		Big Injun	1	1945		+ 1/4 pps Flake	joint from shoe to surface	Soap the hole as needed and ensure the hole is	Cemented to surface
					Price	2245	20% OH Excess Yield = 1.19 TOC @ surface	Bow spring centralizers	clean at section TD	Casing to be set ~200'-250' bel the Big Injun base		
		-	2.0		Weir							
					Intermediate Casing	2335	2335					
					Berea		2435		1.00		Once at TD, circulate at	
					Gordon	1	2655		Sound Station			
		9	8-3/4"		Warren	Q	3350	AIR	15.2 ppg Class H 50:50 Class H:Poz			
NA I	MAY 1	E.	Tangent		Benson	1	4930		with additives (retarder,	Centralize every joint	max flowrate with max	Note: Actual centralizer placer
	×	3.0	1.1		Alexander	_	5175		suspension agent, gas block, defoamer, fluid	from shoe to KOP -	rotation until shakers clean- up (typically requires	may be changed due to ho
enta	16	RECEIVED		5-1/2" 20.0#	Cashaqua	1	6175		loss, extender, etc.)	then every 3rd joint from KOP to TOC	multiple bottoms-up)	conditions
		PE		P-110 VAR	Middlesex		6280		10% OH Excess		Once on bottom with	Note: Actual cement blends r
rot	2018	G	1.1.1		Burkett		6390		Yield = 1.07	Single-piece/rigid bow centralizers	casing, circulate a minimum	vary slightly depending upo service company utilized
WV Department of Environmental Protection	00	as	8-1/2" Curve		Tully		6420	12.0-12.5	TOC @ >= 200' above	Contraine Or O	of one hole volume prior to pumping cement	as the company marzor
9			& Lateral		Hamilton	1	6440	ppg SOBM	9-5/8" shoe		Paripard comen	
					Marcellus		6460					
					Production Casing	11906	6480					
		LP @ +	/- 6480' TVD	DMH	8-3/4" x 8-1/2" H 5-1/2"	lole - Ce 20.0# P			qu	B +/- 48	09' Lateral	TD @ +/- 6480' TVD

WW-9	4709302514
(4/16)	API Number 47 Operator's Well No. SHR38 G HSM
DEPARTMI	STATE OF WEST VIRGINIA ENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS
FLUIDS/ CU	TTINGS DISPOSAL & RECLAMATION PLAN
Dperator Name CNX Gas Company, LLC	OP Code 494458046
Vatershed (HUC 10) Headwaters Middle Island	d Creek Quadrangle West Union
	water to complete the proposed well work? Yes Vo No
Vill a pit be used? Yes No 🗸	
If so, please describe anticipated pit wa	ste: 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: 510-05
Land Application	1 510-15
	n (UIC Permit Number 47-001-00561, 47-097-01514, 47-097-01613, 34-013-2-0609)
	er_shr35 wells API TBD () () () () () () () () () () () () ()
Other (Explain No P	
Vill closed loop system be used? If so, describe	Yes
orilling medium anticipated for this well (vertication	al and horizontal)? Air, freshwater, oil based, etc. Vencet as terr sputherback to any kickoff port (KOP). Horizontal: synthetic oil-based mud (SOBM) from curve KOP to lateral TD
-If oil based, what type? Synthetic, pet	
Additives to be used in drilling medium? Bacte	ricide, Polymers, and Weighting Agents \checkmark
Drill cuttings disposal method? Leave in pit, lar	ndfill, removed offsite, etcLand Application of sail conductor cuttings only, rock cuttings will be taken to an approved Landfil
-If left in pit and plan to solidify what r	nedium will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit numbe	
	ice of Oil and Gas of any load of drill cuttings or associated waste rejected at any all be provided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas provisions of the permit are enforceable by law law or regulation can lead to enforcement action I certify under penalty of law that I h application form and all attachments thereto a obtaining the information, I believe that the ir penalties for submitting false information, include Company Official Signature	have personally examined and am familiar with the information submitted on this and that, based on my inquiry of those individed simple diately responsible for afformation is true, accurate, and complete. If the source of the second
Company Official (Typed Name) Raymond Ho	on WV Department of Environmental Protection
Company Official Title Supervisor - Permitting	
(here and a fit is the second	prania County of Washington
Commonwealth of fennse	te the constant of the constan
1/18	A STATE OF A
	day of May , 20 18 COMMONWEALTH OF PENNSYLVAN Notary Public NOTARIAL SEAL Lori L. Walker, Notary Public

MEMBER, PENNSYLVANIA 05002012010 BRIES

Form WW-9

Operator's Well No. SHR38 G HSM

CNX Gas Company, LLC

Proposed Revegetation Treatm			рН <u>6.5</u>
Lime <u>according to pH</u> Fertilizer type <u>10-2</u> Fertilizer amount <u>50</u>		ct to pH 7.0	
Mulch hay or stra	w @ 2	_Tons/acre	
		Seed Mixtures	
Ten	nporary	Peri	manent
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 ($L \times W \times D$) of the pit, and dimensions ($L \times W$), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Comments:	
	RECEIVED Office of Oil and Gas
	MAY 1 6 2018
	WV Department of Environmental Protectio

Title: 01 7 69 Date: haspecter) Yes Jeb = 110/2015 (_____)No Field Reviewed? (

				HS	APPR	OVED NON-ILAZ	ARDOUS WA	STE DISP	OSAL FA	CHATTE	S (version 05	-23-2016)		
tepublic Services (Allied V adustrial Landfills	Vaste)		Gas Spee	cific Waste	Streams			(ther Accepte	d Waste Stream	ms				Contact Information
Landfill	Location		Drill * Cuttings	Waste	Waste Briffe	Contaminated Soll	Construction &	Industrial Waste	Sludge	Friable	Non-Friable Asbrates	Process Waste	Solidification Services	Municipal Solid Waste	
deLean County	Bloomington IL X			X	X	X			X	X	divino	X			
RC/Coles County	Charleston	IL	X	x	1	х	X	X	x	X	X	x		X	1
rickyard Dispesal	Danville	IL	X	x	-	X	X	X	x	X	x	x		X	1
outhern Illinois Regional	De Soto	IL		C 1279				1	Transfer 1					X	1
ee County	Dixon	IL	X	x	Contraction of the	x	X	X	x	X	X	x		x	1
pper Rock Island	East Moline	IL	X	X		X	X	X	X	X	X	x	1	x	1
ond County	Greensville	IL	X	X		X	X	X	X	X	X	x		x	1
llinois	Hoopeston	IL	X	X		X	X	X	x	x	X	X		X	1
andComp	LaSalle	IL	X	X	1.000	X	X	X	X	X	X	X		x	317-921-1667 or 480-627-2700
itchfield-Hillsboro	Litchfield	IL	x	X		X	X	X	· X	X	X	x		X	1-800-634-0215
nvirontech	Morris	IL.	X	X		X	X	X	X	X	X	x		x	
ivingston	Pontiac	IL	X	X		X	X	X	X		X	x		X	
oxana	Roxana	IL	X	X	1	x	X	X	X	X	X	X	X	x	
ingamon Valley	Springfield	IL	X	x	2	x	X	X	X	X	X	х		X	
enson Valley	Frankfort	KY		X		x	X	X	X	X	X	X		X	
lue Ridge	Irvine	KY		X		x	X	X	X	X	X	X		X	
lorehead	Morchead	KY		X	1	x	X	X	X	x	X	x		X	
iroen Valley	Rush	KY		X	2	x	X	X	X	X	X	x	X	X	1
herokee Run	Bellefontaine	OH		1000	1000	x	X	X	X		X	x		x	
Ailliams County	Bryan	OH		1	10000	X	X	X	X	X	X	X		x	1
ounty Environmental	Catcy	OH		10		X	X	X			X	x		x	1
elina	Celina	OH		-		X	X	X	x		X	x		x	1
arbon-Limestone**	Lowellville	OH		х	(*************************************	X	X	X	x	-		X	x	x	Jack Palermo:
ountywide Landfill**	East Sparta	OH		x	1	X	X	X					-	x	work: 330-536-8013
orain County	Oberlin	OH			1	X	X	X	x			X	-	X	
akland Marsh	Shiloh	110		1			X	X	X	X	X			X	cell: 330-806-9660
operial	Imperial	PA		1	1	X	X	X	X	X	X	-	1	X	
onestoga	Morgantown	PA		N	1000	X	X		x	X	x	x		x	Barbara Harsanye:
runswick	Lawrenceville	VA	1.2	1		X	X	X	x	x	X	X	-	x	work: 330-536-8013 x 120
ing and Queen	Little Plymouth	VA		1		X	X	X	x	x	X	X	-	x	cell: 330-423-7267
ld Dominion	Richmond	VA		1		X	X	X	x	x	X	X		x	1
veainore	Hurricane	WV	2		-	X	X	X	x	-	-	X		x	1
hort Creek	Wheeling (Short Creek)	wv	x	x	1.	X	X	X	x			x	-	x	1
arter Valley	Church Hill	ID	10 0 0 0 T		-							~		Ŷ	1

Disclaimer: Vendors have been appoved for the below category by ENV. UPDATED AGREEMENT with MSCM MUST BE CONFIRMED.

Environmental Protection

Office of Oil and Gas MAY 1.6 2018 4709302514

Waste Management			Gas Spec	ific Waste S	Streams			(Other Accepte	d Waste Stream	ns				
Landfill	Location	-	Drill * Cuttings	Waste	Waste Brine	Contaminated Soil (including Petroleum)	Construction & Demolition Waste	Industrial Waste	Studge	Friable Ashr stos	Non-Friable Ashestos	Process Waste	Solidification Services	Municipal Solid Waste	Contact Information
den Landfill	Washington	PA	X	X		X	X	X	x	Paste sica	- Andreaster -	X	X	Soud Waste	
outh Hills (Arnoni	South Park	PA	X	X			X	X	x	-		X	X	X	-
elly Run	Elizabeth	PA	x	X	1	X	X	X	X			X	X	x	1
alley Landfill	Irwin	PA	x	X	1	x	X	X	X	X	X	X	X	X	1
wengteen Landfill	Blairsville	PA	x	X		X	X	X	and the second s			-		X	
Charleston Landfill	Charleston	WV	x	x		x	x	x	v						Scott Allen: 412-604-2256
Karawha County)		1.0.0					~	A	x		the second second	x		x	
Meadowfill Landfill	Bridgeport	WV	x	X	1 - 7	X	X	X	X	X	X	X	X	X	1
orthwestern Landfill	Parkersburg	WV	X	X		X	X	x	x	11		X	X	x	1
&S Grading Landfill	Clarksburg	WY	X	X		X	X	X	X	1		X		X	1
American Landfill	Waynesburg	OH	X	X	-	X	X	х	X	X	X	X	X	X	
Suburban RDF	Glenford	OH	X	X		X	X	X	x	X	X	x	x		Patty Landolt: 262-532-8001
oshocton Landtill***	Coshocton	OH	X	X	Contraction of the second s	X	X	x						X	John Miller: 1-800-963-4776
aboning Landfill	New Springfield	OH	X	x		X.	X	X			x	X		x	
Additional Landfills Gas Specific Waste Streams				Streams				Other Accente	d Waste Stream	ns.			1.1.1		
Landfill	Location		Drill* Cuttings	Waste	Waste	Contaminated Soli (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Sludge	Frisble	Non-Friable Asbestas	Process	Selidification	Municipal	Contact Information
Westmoreland Waste	111 Conner Lane,	PA	x	x		X	X	X	x	X	X	Waste	Services	Solid Waste	Mike Home: 412-552-4427
WWLC Group)	Belle Vernon, PA 15012 200 Max Drive.						*	^	•	^	^	-			Mark Thomas: 724-929-7694
Bulger Facility	Bulger, PA 15019	PA	x	x		х	x	x	x				x	x	
MAX Environmental	233 MAX Lane														Carl Spadaro: 412-343-4900
Yukon Facility	Yuken PA 14698	PA	x	x		x	X	x	x	In the second se	1		x	x	cell: 412-445-9789
pex Sanitary landfill	11 County Road 78	+ +						-							
Apex Environmental)	Amsterdam, Ohio 43903	OH	x	х		x	x	x	х				x	x	Joe Teterick: 740-275-2887 joeta els-company.com
tumpke, Mt. Sterling Rum ke Consolidated	30 Larison Rd, Jeffersonville, KY 40337	KY	x	х	1	x	x	x		x	x			x	Cari Walter: 513-623-2471
aurel Ridge Landfill	3612 E State Highway	+ +													Contraction and Anti-Anti-
Waste Connections of K.Y)	552 Lity, KY 40740	KY	x	x		х	x	x		x	x	x		x	Bruce Crouch: Work: 605-864-7996 Cell: 606-219-0261
	Chestnut Valley 1184 McClellandtown Rd, McClellandtown, PA 15458	PA	x	x		x	x	x	x					x	Tony Labenne 6184 Route 219, Brockway, PA 15824 814-590-9906
Advanced Disposal	Greentree Landfill; 635 Toby Rd.; Kersey, PA	PA	x	x		x	x	x	x					x	
	Mostoller Landfill; 7035 Glades Pike Rd.; Somerset, PA	PA	x	x		x	x	x	x	1	1			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 pieceuries per gram above the natural background level. Accepts drilling wastes but profile for disposal is not currently completed. Waste stream accepted by facility. Wastes there 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. ** ***

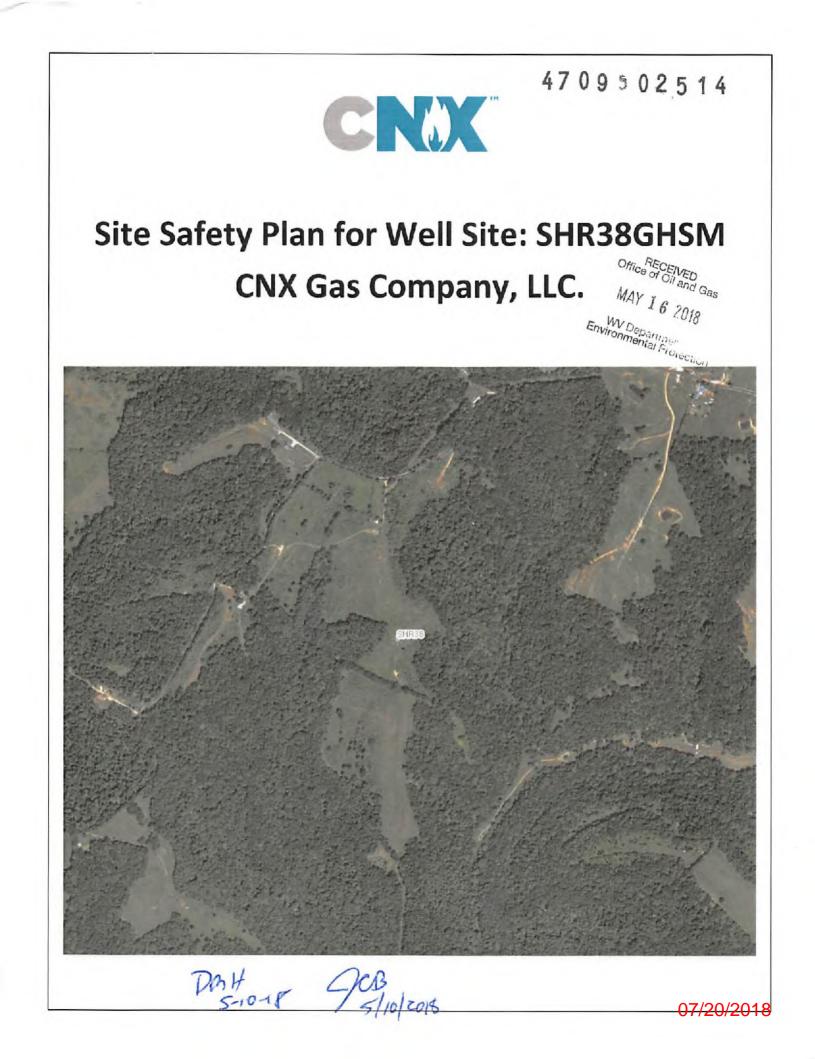
X

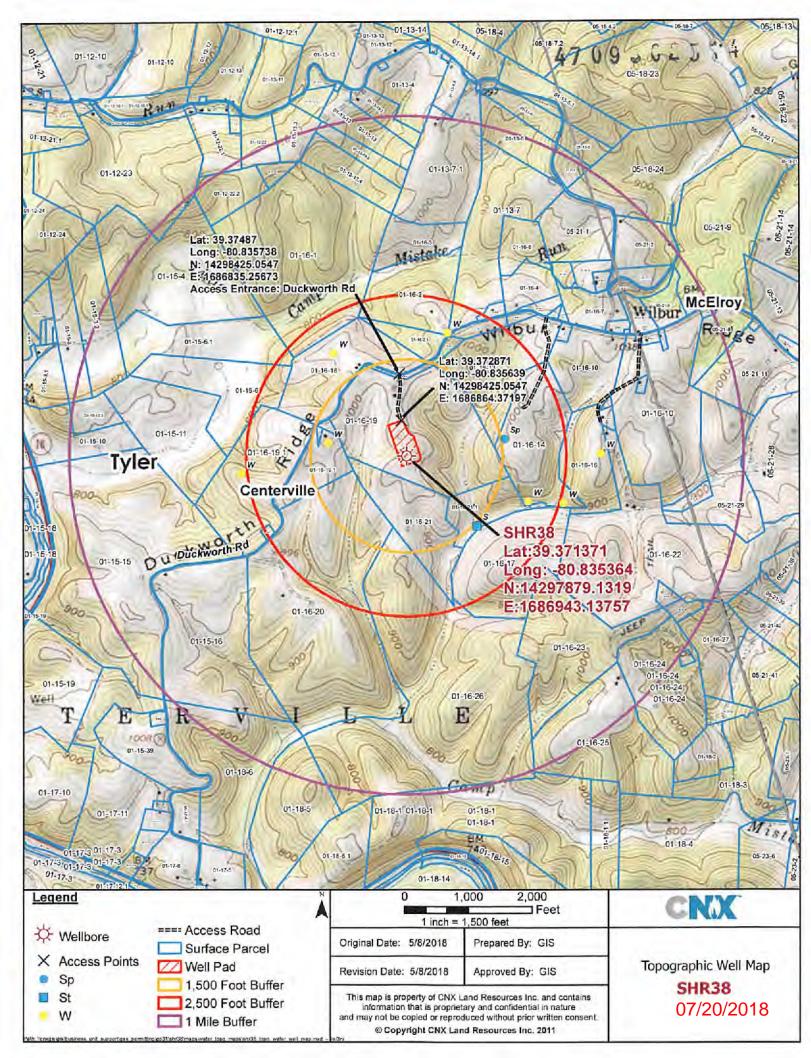
Notes:

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

WV Department of Environmental Protection RECEIVED Office of Oil and Gas MAY 1 6 2018

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REFERENCE	is located on topo map is located on topo map	_5.899 _feet south of L _1.287 _feet south of L	atitude: <u>39 ° 22 ' 30 "</u> atitude: <u>39 ° 22 ' 30 "</u>
LEGEND 9501234 BHR 38 CHSM WELL SHR 38 CHSM WELL SHR 38 CHSM WELL SHR 38 CHSM SHR 39 CH	9501238 WELL SHR38GHSM 9501227 9501226 9501226 9501226 9501226 9501226 9501226 9501227 9501226 9501227 9501226 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501217 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501237 95012126 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501237 9501318 9501318 9501314	NOTES 1. There are no water wells proposed well. 2. There are no existing buil 3. Proposed well is greater 1 pont, reservoir or take. 4. There are no existing buil 5. Proposed well is greater 1 prot, reservoir or take. 4. There are no existing buil 5. Proposed well is greater 1 intake or public water sup 1. There are no existing built 5. Proposed well is greater 1 intake or public water sup 1. There are no existing built 5. Proposed well is greater 1 intake or public water sup 1. There are no existing built 5. Proposed well is greater 1 1. There are no existing built 5. Proposed well is greater 1 intake or public water sup 5. The article of the surface of the 5. Descriptions, field evidence otherwise noted.	Ardeveloped springs with 250 of drugs with 625 of proposed well hen 100 from percentel stream, wekend, streams within 300 of proposed well han 1000 from surface/groundwater py, ention of this plat to represent surveyed minored parcels depicted hencon. The ness, as show, are besed on record deed to found and/or tax mep position, unless SURFACE HOLE LOCATION (SHL) UTM 17—NAD83 N:4358012.76 E:514193.05 NAD83, WY NORTH N:320216.6490 E:1591044.1020 LAT/LON DATUM—NAD83 LAT:39'22'17.2755" LON:80'50'06.8184' APPROX. LANDING POINT UTM 17—NAD83 N:4358018.28 E:514180.20 NAD83, WY NORTH N:320235.4470 E:1591044.174552" LON:80'50'07.3550 BOTTOW HOLE LOCATION (BHL) UTM 17—NAD83 N:4356008.53 E:514680.47 NAD83, WY NORTH N:315581.9270 E:1592566.6730 LAT/LON DATUM—NAD83 LAT:359270 E:1592566.6730 LAT/LON DATUM—NAD83 LAT:159270 E:1592566.6730 LAT/LON DATUM—NAD83 LAT:159270 E:1592566.6730 LAT/LON DATUM—NAD83 N:435581.9270 E:1592566.6730 LAT/LON DATUM—NAD83 N:435581.9270 E:1592566.6730 LAT/LON DATUM—NAD83 LAT:159270 E:1592566.6730 LAT/LON DATUM—NAD83 LAT:159270 E:1592566.6730 LAT/LON DATUM—NAD83 N:435581.9270 E:1592566.6730 LAT/LON DATUM—NAD83 LAT:1592566.730 LAT/LON DATUM—NAD83 LAT:1592566
R5 S 74'30'42" E 1740.72' R6 S 64'11'15" E 2099.29' Blue Mountain Inc. Inc. Inc. Inc. 11023 MASON DIXON HIGHWAY BURTON, WY 26562 PHONE: (304) 662-6486	SEE PAGE 2 FOR S	SURFACE OWNERS AND	
FILE #: SHR38GHSM	PLAT IS CORRECT TO THE BE	HEREBY CERTIFY THAT THIS	WINNINGE DUN
DRAWING #: SHR38GHSM SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: 1/2500	LAW AND THE REGULATIONS THE DEPARTMENT OF ENVIR Signed:	ISSUED AND PRESCRIBED B	No. 2000
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SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT OF ELEVATION: THOMAS 1498.81' (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304	LAW AND THE REGULATIONS THE DEPARTMENT OF ENVIR Signed:	L.L.S.: P.S. No. 2000 DATE: MAY 02 OPERATOR'S WELL #:	PLACE SEAL HERE 2018 SHR38GHSM 95 02514
SCALE: <u>1" = 2000'</u> MINIMUM DEGREE OF ACCURACY: <u>1/2500</u> PROVEN SOURCE OF ELEVATION: <u>U.S.G.S. MONUMENT</u> THOMAS <u>1498.81'</u> (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304	LAW AND THE REGULATIONS THE DEPARTMENT OF ENVIR Signed:	ISSUED AND PRESCRIBED B RONMENTAL PROTECTION. L.L.S.: P.S. No. 2000 DATE: MAY 02 OPERATOR'S WELL #: API WELL #: 47 STATE	PLACE SEAL HERE 2018 SHR38GHSM 95 02514
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SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE U.S.G.S. MONUMENT OF ELEVATION: THOMAS 1498.81' (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304 Well Type: Oil Waste Disposal X Gas Liquid Injection WATERSHED: HEADWATERS MIDDLE ISLAND COUNTY/DISTRICT: TYLER / CEN SURFACE OWNER: JAMES E. ASH OIL & GAS ROYALTY OWNER: JAMES E. A DRILL X CO PLUG OFF OLI CLEAN OUT &	LAW AND THE REGULATIONS THE DEPARTMENT OF ENVIR Signed:	ISSUED AND PRESCRIBED B RONMENTAL PROTECTION. L.L.S.: P.S. No. 2000 DATE: MAY 02 OPERATOR'S WELL #: API WELL #: 47 STATE 0 W ELEVATION: ADRANGLE: WEST U ACREAGE ACREAGE ACREAGE CATE NEW FORMATION C GE (SPECIFY):	Y No. 2000 STATE OF STATE OF B STATE OF VIRGINIT OF PLACE SEAL HERE PLACE SEAL HERE 2018 SHR38GHSM 95 OZSIH 1012'± PERMIT 1012'± NION, WV 7.5' 3: 111± 3: 317.758± Y OT/20/201 Y PLUG & ABANDON
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SHR 38 GHSM PAGE 2 OF 2 4709502514

	SURFACE OWNER	LESSOR	DIST-TM/PAR
1	JAMES E. ASH ET AL	VERNA O. ASH, JAMES E. ASH AND THELMA B. ASH,	P/0 1-16/19
2		BESSIE HAUGHT AND HAROLD WARNER	
-	1	ERNEST G. SECKMAN AND O. JOANNE SECKMAN	
		RALPH E. PHILLIPS AND VELINDA PHILLIPS	
3	JOHN R. ANDERS II	JOHN MICHAEL LEONIAN	1-16/21
-	RICHARD H. METCALF	JOSEPH ROBERT LEONIAN	P/0 1-16/1
		MARGO L. KIEHL AND CHARLES F. KIEHL, W/H	1/0 1 10/1
		BERDINA ROSE AND NORMAN W. ROSE, W/H	
		PHILLIP LEONIAN, AKA PHILLIP MARSHALL LEONIAN	
		MARION RAY BACHELOR, AKA MARION R. BACHELOR AND GLORIA JEAN	
		RITA G. JARVIS	
		MIKE ROSS, INC.	
		I.L. MORRIS	
		JO ELLEN HARPER DAY	
		MARY LEE LILLY	
		ARMEN LEONIAN, AKA ARMEN LANHAM LEONIAN	
		JOHN FULTON LEONIAN	
		NILA ASH SAYLOR REVOCABLE TRUST, BY JOSEPH F. SILEK, JR.	
		BAILEY ANN MILLS	
		WILLIAM PAUL HARPER	
		DAVID PAUL LOCOCO	
		MARY LYNNE SLATTERY, FKA MARY LYNNE LOCOCO	
		DONALD VINCENT LOCOCO	
		ROSE MARIE VANHEUVELN	
		THERESA LEE ROBERTSON	
		MARTHA SUE MUZIO, FKA MICHELLE LUCRETIA BUSHMIRE	
		MICHELE LOCOCO BUSHMIRE, FKA MICHELLE LUCRETIA BUSHMIRE	
		ELIZABETH FLORENCE LOCOCO	
		BRC APPALACHIAN MINERAL I, LLC	1
		BRC APPALACHIAN MINERAL I, LLC	
4	D. RALPH THACKER & J. MAURICE CARLISLE JR.		P/0 1-16/2
5	D. THE THINKEY & D. MINORIDE ONNEISEE ON.	AND CHARLES W. HENDERSON, POWER OF ATTORNEY FOR	
		THE A. I. DOAK HEIRS	
		JOHN A. CONKLIN AND JEAN CONKLIN, H/W	
		GEORGE B. CONKIN AND BETTY M. CONKLIN, H/W	
		BETTY L. CONKLIN	
		ROBERT LEE REED	
		LEWIS H. REED AND CAROL J. REED, H/W	-
			-
		KATHY PRANGER VIRGINIA O'REAR AND RALPH O'REAR, W/H	-
	1	ROBERT H. MELVIN	-
		BETTY L. MELVIN	
		MARY S. LARTZ AND WILLIAM LARTZ, W/H	
		LILLIAN CRABILL AND WILLIAM CRABILL, W/H	
		MELISSA COLL	
		ROBERT BARTHOLOMEW AND EARBARA BARTHOLOMEW, H/W	
		PHILLIP L. MELVIN	



07/20/2018

Blue Mountain Inc. 11023 MASON DIXON HIGHWAY BURTON, WY 25552 PHONE: (304) 652-6486

MAY 02, 2018

WW-6A1 (5/13)

4709502514

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

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 Man Her		
Its:	Permitting Supervisor		

Page 1 of 5 07/20/2018

MAY 1 6 2018

0 2010

WV Department of Environmental Protection

Attachment - Form WW-6A-1 for SHR38GHSM

	Tay Man &	Title Opinion				
Tract ID	Parcel	<u>QLS #</u>	Grantor, Lessor, etc.	<u>Grantee, Lessee, etc</u>	Royalty	Book/Page
			Verna O. Ash , James E. Ash and Thelma B. Ash, Bessle Haught and	Driiling Appalachian Corporation		
1, 2	TMP 1-16-19	258998000	Harold Warner, Ernest G. Seckman and O. Joanne Seckman Ralph E. Phillips and Velinda Phillips, h/w	Drilling Appalachian Corporation	Not less than 1/8 Not less than 1/8	DB 269/571 DB 271/103
			Drilling Appalachian Corporation	Dominion Appalachian Development Properties,		
			Draing Appalachian Corporation	цс	Assignment	DB 322/190
			Dominion Appalachian Development Properties, L.L.C.	CNX Gas Company, LLC	Merger	DB 384/191
			CNX Gas Company, LLC	Noble Energy, Inc.	50% Assignment	DB 388/286
			Noble Energy, Inc.	CNX Gas Company, LLC	50% Assignment	DB 542/134
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	DB 550/273
Tract ID		Title Opinion	Grantor, Lessor, etc	Grantee, Lessee, etc		
	<u>Parcel</u>	<u>QLS #</u>			Royalty	Book/Page
3	TMP 1-16-17 & 1-16-21	288768000	John Michael Leonian	CNX Gas Company, LLC	Not less than 1/8	DB 406/84
-			Joseph Robert Leonian	CNX Gas Company, LLC	Not less than 1/8	DB 406/89
			Margo L. Kiehl and Charles F. Kiehl, w/h	CNX Gas Company, LLC	Not less than 1/8	DB 409/229
			Berdina Rose and Norman W. Rose, w/h	CNX Gas Company, LLC	Not less than 1/8	DB 406/94
			Phillip Leonian, aka Phillip Marshail Leonian	Noble Energy, Inc.	Not less than 1/8	CB 465/276
			Marion Ray Bachelor, aka Marion R. Bachelor and Gioria Jean Bachelor,	Noble Energy, Inc.	Not less than 1/8	DB 449/543
			Rita G. Jarvis	Noble Energy, Inc.	Not less than 1/8	DB 449/539
			Mike Ross, Inc.	Noble Energy, Inc.	Not less than 1/8	DB 480/849
			I. L. Morris	Noble Energy, Inc.	Not less than 1/8	DB 480/821
			Jo Ellen Harper Day	Noble Energy, Inc.	Not less than 1/8	DB 452/692
			Mary Lee Lilly	Noble Energy, Inc.	Not less than 1/8	DB 458/755
			Armen Leonian, aka Armen Lanham Leonian	Noble Energy, Inc.	Not less than 1/8	DB 465/249
			John Fulton Leonian	Noble Energy, Inc.	Not less than 1/8	DB 458/757
			Nila Ash Saylor Revocable Trust, by Joseph F. Silek, Jr	Noble Energy, Inc.	Not less than 1/8	DB 465/266
			Bailey Ann Mills	Noble Energy, inc.	Not less than 1/8	DB 453/527
			William Paul Harper	Noble Energy, Inc.	Not less than 1/8	DB 449/535
			David Paul Lococo	Noble Energy, Inc.	Not less than 1/8	DB 449/497
			Mary Lynne Slattery, fka Mary Lynne Lococo	Noble Energy, Inc.	Not less than 1/8 Not less than 1/8	DB 452/702 DB 453/635
			Donald Vincent Lococo	Noble Energy, Inc.	Not less than 1/8	DB 453/635 DB 526/567
			Rose Marie VanHeuveln Theresa Lee Robertson	Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8	DB 520/307 DB 471/678
			Ineresa Lee Robertson Martha Sue Muzio, fka Martha Sue Lococo	Noble Energy, Inc.	Not less than 1/8	DB 449/541
			Martna Sue Muzio, ika Martna Sue Lococo Michelle Lococo Bushmire, fka Michelle Lucretia Bushmire	Noble Energy, Inc.	Not less than 1/8	DB 443/341 DB 453/523
			Elizabeth Florence Lococo	Noble Energy, Inc.	Not less than 1/8	DB 453/624
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	DB 550/273
			BRC Appalachian Minerals I, LLC	BRC Working Interest Company	Not less than 1/8	DB 369/300
			BRC Appalachian Minerals I, LLC	BRC Working Interest Company	Not less than 1/8	DB 369/648
			BRC Working Interest Company	Chesapeake Appalachia, LLC	Assignment	DB 369/784
			Chesapeake Appalachia, LLC	SWN Production Company, LLC	Assignment	DB 465/463
			Chesapeake Appalachia, LLC	Statoil USA Onshore Properties, LLC	Assignment	DB 378/764
			SWN Production Company, LLC, Statoil USA Onshore Properties, Inc	Noble Energy, Inc and CNX Gas Company, LLC	Assignment	DB 518/207
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	DB 550/273
						Office of Oil and Ga
						MAY 1.6 2018
Tract (D	<u>Tax Map & </u> Parcei	Title Opinion QLS #	<u>Grantor, Lessor, etc</u>	Grantee, Lessee, etc		140.4
		<u></u>	Charles W. Handamen and Develop M. Handamen, blue and Charles		<u>Royalty</u>	Environmental Protectio
4, 5	TMP 1-16-26	259000000	Charles W. Henderson and Dorothy M. Henderson, h/w and Charles W. Henderson, Power of Attorney for the A. I. Doak Heirs	J&J Enterprises	Not less than 1/8	DB 259/588
			John A. Conklin and Jean Conklin, h/w	J&J Enterprises	Not less than 1/8	DB 259/586
			George B. Conklin and Betty M. Conklin, h.w Betty J. Conklin	J&J Enterprises	Not less than 1/8	DB 259/584
			Betty L. Conklin J & J Enterprises	J&J Enterprises Fastern American Energy Corporation	Not less than 1/8	DB 259/582 DB 282/296
			Eastern American Energy Corporation	Eastern American Energy Corporation Energy Corporation of America	Assignment Assignment	DB 282/296 DB 371/528
			Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	DB 398/416
			Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	DB 420/316
			Antero Resources Corporation	CNX Gas Company, LLC and Noble Energy, Inc	Assignment	DB 425/701
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	DB 550/273
			Robert Lee Reed	Eastern American Energy Corporation	Not less than 1/8	DB 282/87
			Lewis H. Reed and Carol J. Reed, h/w	Eastern American Energy Corporation	Not less than 1/8	DB 282/103
			Kathy Pranger	Eastern American Energy Corporation	Not less than 1/8	DB 282/91
			Virginia O'Rear and Ralph O'Rear, w/h	Eastern American Energy Corporation	Not less than 1/8	DB 282/67
			Robert H. Melvin	Eastern American Energy Corporation	Not less than 1/8	DB 282/399
			Betty L. Melvin	Eastern American Energy Corporation	Not less than 1/8	DB 282/79
			Mary S. Lartz and William Lartz, w/h	Eastern American Energy Corporation	Not less than 1/8	DB 282/83
			Lillian Crabill and William Crabill, w/h	Eastern American Energy Corporation	Not less than 1/8	DB 282/95

Mary S. Lartz and William Lartz, w/h Lillian Crabill and William Crabill, w/h Melissa Coll Robert Bartholomew and Barbara Bartholomew, h/w Phillip L. Melvin

Not less than 1/8 Not less than 1/8

Eastern American Energy Corporation

Eastern American Energy Corporation

Eastern American Energy Corporation

Eastern American Energy Corporation

DB 282/79 DB 282/83 DB 282/95 DB 282/75 DB 282/71 DB 396/498



Erika Whetstone Permitting Manager Work: 724-485-4035 Mobile: 724-317-2224 Email: erikawhetstone@cnx.com CNX Center 1000 CONSOL Energy Drive Canonsburg, PA 15317-6506 724-485-4000

4709502514

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

RE: Road Letter SHR38 Well Pad

To Whom it May Concern:

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

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

Sincerely,

Erika Whetstone Permitting Manager

> RECEIVED Office of Oil and Gas

MAY 1 6 2018

WV Department of Environmental Protection

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE CERTIFICATION</u>

Date of Notice Certification: 5-14-18

API No. 47-	· · · · · · · · · · · · · · · · · · ·
Operator's Well No	SHR38GHSM
Well Pad Name: 8	HR38

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:	West Virginia	UTM NAD 83 Easting	g: 514193.054 m
County:	Tyler	Northi	ng: 4358012.764 m
District:	Centerville	Public Road Access:	Duckworth Ridge Road
Quadrangle:	West Union	Generally used farm nan	le: Ash
Watershed:	Headwaters Middle Island Creek		

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 successful 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	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
□ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SURVEY WAS CONDUCTED	RECEIVED
 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) 	RECEIVED/ NOT REQUIRED
4. NOTICE OF PLANNED OPERATION RECEIVE	RECEIVED
5. PUBLIC NOTICE Office of Oil a	
6. NOTICE OF APPLICATION WV Departmental F	

Required Attachments:

1

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:

Well Operator:	CNX Gas Company, LLC	Address:	1000 Consol Energy Drive
By:	Raymond Hoon		Canonsburg, PA 15317
Its:	Permitting Supervisor	Facsimile:	
Telephone:	724-485-3540	Email:	RaymondHoon@CNX.com
M	ONWEXDITIAL OUTERIENNSYLVANIA NOTARIAL SEAL Lori L. Walker, Notary Public Richhill Twp., Greene County y Commission Expires Feb. 23, 2019 PENNSYLVANIA ASSOCIATION OF NOTARIES	Subscribed and swo	orn before methis 14 day of May 2018. Notary Public

Oil and Gas Privacy Notice:

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

RECEIVED Office of Oil and Gas

MAY 1 6 2018

WV Department of Environmental Protection WW-6A (9-13)

4709502514

API NO. 47-____ OPERATOR WELL NO. SHR38GHSM Well Pad Name: SHR38

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: <u>5-14-18</u> Date Permit Application Filed: <u>5-15-18</u> Notice of:

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

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

PERSONAL		GISTERED	\checkmark	METHOD OF DELIVERY THAT REQUIRES A
SERVICE	M	AIL		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)	COAL OWNER OR LESSEE	
Name: See attached	Name: See attached	
Address:	Address:	
Name:	COAL OPERATOR	
Address:	Name:	Office of Oil and G
	Address:	Since of Oil and G.
SURFACE OWNER(s) (Road and/or Other Disturbance)		MAY 1 6 2018
Name:	SURFACE OWNER OF WATER WELL	1 1 0 2018
Address:	AND/OR WATER PURVEYOR(s)	- WV Denast
	Name: See attached	WV Department of Environmental Protect
Name:	Address:	i otech
Address:	and the second	
	OPERATOR OF ANY NATURAL GAS STORA	GE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:	
Name:	Address:	
Address:		
	*Please attach additional forms if necessary	

WW-6A (8-13)

API NO. 47-OPERATOR WELL NO. SHR38GHSM Well Pad Name: SHR38

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 Environmentates and Environmentates and Gas Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/bfil and Gas and-gas/pages/default.aspx. MAY 1 6 2018

Well Location Restrictions

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

WW-6A (8-13) 4709502514

API NO. 47-____

OPERATOR WELL NO. SHR38GHSM Well Pad Name: SHR38

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 supply, the operator may not discontinue providing the required water supply and Gas authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

MAY 16 2018

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 day Environmental Protection application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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

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

WW-6A (8-13) 4709502514 APINO. 47-

OPERATOR WELL NO. SHR38GHSM Well Pad Name: SHR38

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-

<u>Permits/Pages/default.aspx</u> 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.

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MAY 1 6 2018

07/20/2018

WV Department of Environmental Protection

WW-6A	
(8-13)	

API NO. 47-OPERATOR WELL NO. SHR38GHSM Well Pad Name: SHR38

Notice is hereby given by:

Well Operator: CNX Gas Compar	ny, LLC
Telephone: 724-485-3540	0
Email: RaymondHoon@CNX.com	Alyn Dea
	P

Address: 1000 Consol Energy Drive	
Canonsburg, PA 15317	
Facsimile:	

Oil and Gas Privacy Notice:

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

COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL Lori L. Walker, Notary Public Richhill Twp., Greene County My Commission Expires Feb. 23, 2019	Subscribed and sworn before me this 14th day of 1018
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES	My Commission Expires - 20110011 23 2019

RECEIVED Office of Oil and Gas MAY 1 6 2018

WV Department of Environmental Protection

WW-6A Notice of Application

4709502514 SHR38GHSM

Surface Owners:

James Eli Ash /	8707 Middle Island Road Alma, WV, 26320
Becannray LLC /	5042 Tyler Highway Sistersville, WV 26175
Nicole Eastham /	34973 State Route 800 New Matamoras, OH
Alexandria Fetty /	34973 State Route 800 New Matamoras, OH
Rachelle Hise	237 Holiday Avenue Woodsfield, OH 43793
Potts Place LLC	353 Foundry Street New Martinsville, WV 26155
STS Enterprises LLC	659 Jefferson Run Road Alma, WV 26320
Bessie Warner	771 McElroy Creek Road Alma, WV 26320

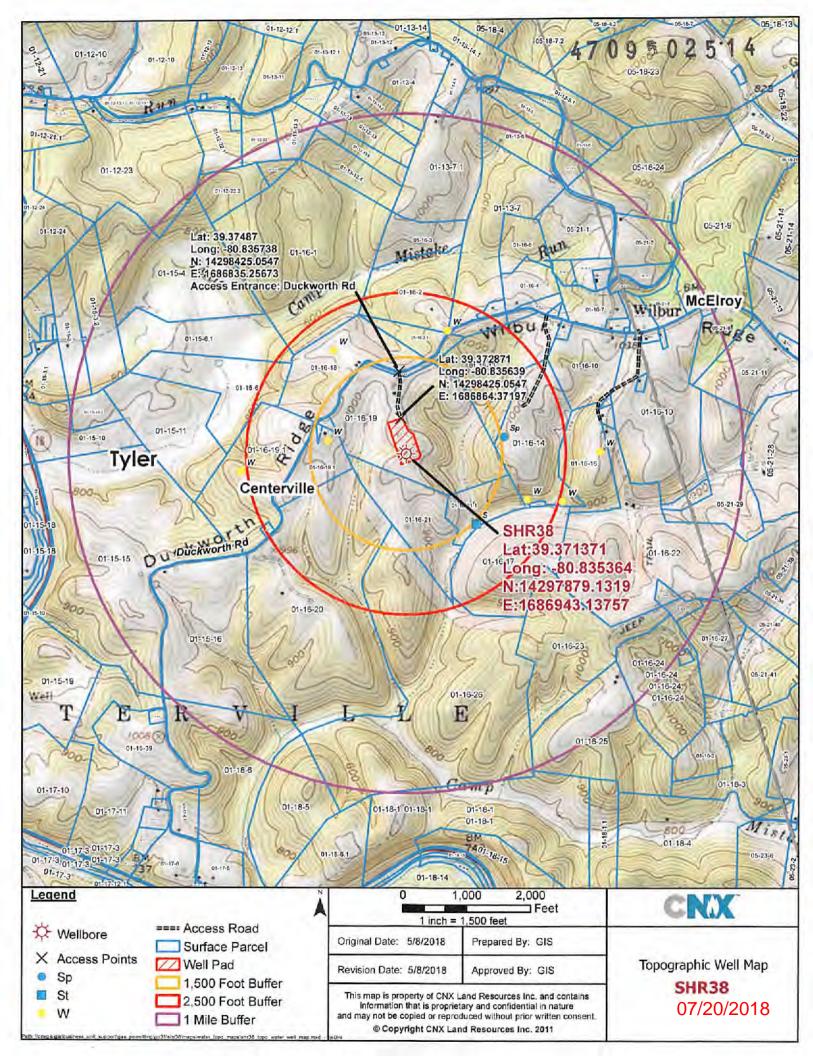
Coal Owners:

James Eli Ash /	8707 Middle Island Road Alma, WV, 26320
Becannray LLC	5042 Tyler Highway Sistersville, WV 26175
Nicole Eastham /	34973 State Route 800 New Matamoras, OH
Alexandria Fetty	34973 State Route 800 New Matamoras, OH
Rachelle Hise	237 Holiday Avenue Woodsfield, OH 43793
Potts Place LLC	353 Foundry Street New Martinsville, WV 26155
STS Enterprises LLC	659 Jefferson Run Road Alma, WV 26320
Bessie Warner	771 McElroy Creek Road Alma, WV 26320
Ralph E Phillips	6411 Veterans Highway New Martinsville, WV 26155

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

ASH, JAMES E 8707 MIDDLE ISLAND RD ALMA WV 26320

ANDERS, JOHN R II / 804 PETERS RUN RD WHEELING WV 26003 RECEIVED Office of Cil and Gas MAY 16 2018 WV Department of Environmental Protection



STATE OF WEST VIRGINIA

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

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 5 - 12 Date Permit Application Filed: 5 - 15 - 13

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

HAND	CERTIFIED MAIL
DELIVERY	RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided*, *however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: See attached.	Name:
Address:	Address:
	2043 W

Notice is hereby given:

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

State:	West Virginia	UTMANAD 02	Easting:	514193.054 m	
County:	Tyler	UTM NAD 83	Northing:	4358012.764 m	
District:	Centerville	Public Road Acce	SS:	Duckworth Ridge Road	
Quadrangle:	West Union	Generally used far	rm name:	Ash	
Watershed:	Headwaters Middle Island Creek				

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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.

Notice is hereby given by:

Well Operator:	CNX Gas Company, LLC	Authorized Representative:	Raymond Hoon	TIMED
Address:	1000 Consol Energy Drive	Address:	1000 Consol Energy Drive	RECEIVED Gas
Canonsburg, PA 15	317	Canonsburg, PA 15317	Out	0 2018
Telephone:	724-485-3540	Telephone:	724-485-3540	16 2018 AAY 16 2018
Email:	RaymondHoon@CNX.com	Email:	RaymondHoon@CNX.com	artment of un
Facsimile:		Facsimile:		WV Department of protection

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 <u>depprivacyofficer@wv.gov</u>.

WW-6A4 Notice of Intent to Drill

Surface Owners:

James Eli Ash	8707 Middle Island Road / Alma, WV, 26320		
Becannray LLC	5042 Tyler Highway Sistersville, WV 26175		
Nicole Eastham	34973 State Route 800 (New Matamoras, OH		
Alexandria Fetty	34973 State Route 800 / New Matamoras, OH		
Rachelle Hise	237 Holiday Avenue Woodsfield, OH 43793		
Potts Place LLC	353 Foundry Street New Martinsville, WV 26155		
STS Enterprises LLC	659 Jefferson Run Road Alma, WV 26320		
Bessie Warner	771 McElroy Creek Road / Alma, WV 26320		

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. 5-15-18 Date of Notice: 5-14-18 Date Permit Application Filed:

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

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name:	Name:
Address:	Address:

Notice is hereby given:

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

State:	West Virginia		
County: Tyler			
District: Centerville			
Quadrangle:	West Union		
Watershed: Headwaters Middle Island Creek			

UTM NAD 83	Easting:	5
UTWINAD 83	Northing:	4
Public Road Ac	cess:	C
Generally used	farm name:	A

14193.054 m 358012.764 m Juckworth Ridge Road sh

This Notice Shall Include:

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

Well Operator:	CNX Gas Company, LLC	Address:	1000 Consol Energy Drive	RECEIVED Office of Oil and Gas
Telephone:	724-485-3540		Canonsburg, PA 15317	
Email:	RaymondHoon@CNX.com	Facsimile:		MAY 1 6 2018

WV Department of

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 approach on third particulation in the part of our regulatory 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.

WW-6A5 Notice of Planned Operations

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Surface	Owners:
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James Eli Ash 🛛 🖊	8707 Middle Island Road Alma, WV, 26320	
Becannray LLC	5042 Tyler Highway Sistersville, WV 26175	
Nicole Eastham	34973 State Route 800 New Matamoras, OH	
Alexandria Fetty	34973 State Route 800 New Matamoras, OH	
Rachelle Hise /	237 Holiday Avenue Woodsfield, OH 43793	
Potts Place LLC /	353 Foundry Street New Martinsville, WV 26155	
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Bessie Warner	771 McElroy Creek Road Alma, WV 26320	

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

April 27, 2018

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-38 Pad, Tyler County SHR-38GHSM Well Site

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2018-0331 for the subject site to CNX Gas Company LLC, for access to the State Road for the well site 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 January 3, 2012.

Very Truly Yours,

Dary K. Clayton

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

Cc: Ray Hoon 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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