

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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Thursday, July 8, 2021
WELL WORK PLUGGING PERMIT
Horizontal 6A Plugging

NORTHEAST NATURAL ENERGY LLC 707 VIRGINIA STREET EAST STE 1200 CHARLESTON, WV 25301

Re: Permit approval for LEMLEY 8H 47-061-01835-00-00

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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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: LEMLEY 8H

Farm Name: CLARENCE W. LEMLEY JR. &

U.S. WELL NUMBER: 47-061-01835-00-00

Horizontal 6A Plugging Date Issued: 7/8/2021



PERMIT CONDITIONS

West Virginia Code § 22-6-11 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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

1) Date 3000 2.	2021
2)Operator's	
Well No. Lemley 8H	
3) API Well No. 47-001	- 01835

4706101835P

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

APPLICATION	FOR	A	PERMIT	TO	PLUG	AND	ABANDON
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APPLICATION FOR A PERF	ALT TO PLUG AND ABANDON
4) Well Type: Oil/ Gas X/ Liquid	d injection/ Waste disposal/
(If "Gas, Production or Und	derground storage) Deep/ Shallow X
5) Location: Elevation 1,540	Watershed Dunkard Creek
District Clay	County Monongalia Quadrangle Blacksville
6) Well Operator Address Northeast Natural Energy LLC 707 Virginia St. E, Suite 1200 Charleston, WV 25301	7) Designated Agent Hollie Medley, Regulatory Manager Address 48 Donley St, Suite 601 Morgantown, WV
8) Oil and Gas Inspector to be notified Name Bryan Hamis Address PO Box 157 Volga, WV 26238	NameTBD Address
1. Cut off welded cap on the conductor 2. Grout cement plug inside conductor from 3. Fill 10'x10' cellar with cement and print information and meeting specificate.	of to surface. Solve the P&A monument with required
Notification must be given to the district of work can commence.	il and gas inspector 24 hours before permitted
Work order approved by inspector Bryan	Harris Date 617121

WR-35 Rev. 8/23/13

State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API 47 - 061 - 01835	County Monong	galia	District Clay	
Quad Blacksville	Pad Name Lemi	ey	Field/Pool Name	
Farm name Clarence W. Lemley	· Jr.		Well Number 8H	
Operator (as registered with the OC	(G) Northeast Natural	Energy LLC		
Address 707 Virginia St. E	City Ch	arleston	State WV	Zip 25301
As Drilled location NAD 83/UT Top hole Landing Point of Curve Bottom Hole	M Attach an as-drille Northing 4391571.5 Northing Northing	Eas	sting <u>573969.5</u> ting	
Elevation (ft) 1,540' GI	Type of Well	■New □ Existing	Type of Report	□Interim ●Final
Permit Type	Horizontal	ntal 6A 🗆 Vertical	Depth Type	□ Deep ■ Shallow
Type of Operation □ Convert	Deepen Drill	□ Plug Back □ Redr	illing 🗆 Rework	Stimulate
Well Type □ Brine Disposal □ C	BM ■ Gas □ Oil □ Se	condary Recovery 🗆 S	Solution Mining 🗆 Sto	orage 🗆 Other
Type of Completion Single I	Multiple Fluids Produ	uced □ Brine □Gas	□ NGL □ Oil	Other NA
Drilled with □ Cable □ Rotary	·			
Drilling Media Surface hole Production hole Air Mud Mud Type(s) and Additive(s) NA				□ Fresh Water □ Brine
				Office of Oil and Ges
Date permit issued 4/3/2019	Date drilling com	menced_Conductor - 7/24		
Date completion activities began _	A + A	_ Date completion act	ivities ceased Enviro	DeNA
Verbal plugging (Y/N) NA	_ Date permission grante	ed	/2019 Date drilling of ivities ceased Environed Granted by	Protection
Please note: Operator is required to	o submit a plugging applic	cation within 5 days of	verbal permission to p	lug
Freshwater depth(s) ft	NA	Open mine(s) (Y/N)	depths	
Salt water depth(s) ft	NA			
Coal depth(s) ft	NA			
Is coal being mined in area (Y/N)_	NA			Reviewed by:
				normod by.

WR-35 Pev 8/23/13

API 47- 061	01835	Farm nam	e_Clarence	e W. Lemle	y Jr.	Well	number_8H	l	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		at circulate (Y/N) details below*
Conductor	30	24	40'	N	1	VA	NA	1	Y
Surface				† • • • • • • • • • • • • • • • • • • •	<u> </u>	"		+	<u> </u>
Coal				<u> </u>	 				
ntermediate I				 	 			 	
Intermediate 2					-				
Intermediate 3				 			·····		
Production								+	
Fubing				 	<u> </u>				
Packer type and d	enth set			<u> </u>	1				
Comment Details									
CEMENT DATA	Class/Type of Cement	Number of Sacks	Slur wt (p		Yield ft ³/sks)	Volume (ft ³)	Cen Top (WOC (hrs)
Conductor	4500 psi ready mb				.75	27	СТ		48
Surface									
Coal									
ntermediate 1									
ntermediate 2									
ntermediate 3									
Production									
Tubing									
Deepest forma) Conductor set to 40' tion penetrated cedure								
Kick off depth	ı (ft)								
Check all wire	line logs run	□ caliper □ neutron	□ density □ resistivity		ted/direction		nduction emperature	□sonic	
Well cored	⊇Yes □ No	Convention	al Side	ewall	W	ere cuttings	collected	n Yes	No
DESCRIBE T	HE CENTRALIZE	ER PLACEMEN	VT USED FO						
						· · · · · · · · · · · · · · · · · · ·			
	COMPLETED AS								
WAS WELL (COMPLETED OP	EN HOLE?	□ Yes 🚇 Ì	No DET	AILS _				
WERE TRAC	ERS USED 🗆 Y	es 🖪 No	TYPE OF T	ΓRACER(S)	USED _	Office	PECEIVED OF CEIVED		
						JUN	1 2021	જ	
					E	nviron Den	1 2021		
						· Menta	men		07/09/2
							Totecti-		0110312
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API	47- 061	01835	Farm name Clarence W.	Lemley Jr.	Well number 8H	

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	NA				
	·			<u></u>	
	4.				
L					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
	NA							
				-				
				†	-	-		
 								
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-				+				
	 		<u>.</u>					
	<u> </u>			- 				
<u> </u>	-			+				
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					O60 6.			
				-	"Cone	Son_		·-
					- Jelan	11350		
Please	insert addition	onal pages as ap	plicable.	Én	vironnental pres	2021		
					10/	ection		
						77)		

WR-35 Rev. 8/23/13

API 47- 061	01835	Farm r	name Clarence	e W. Lemle	y Jr.	Well number	er_8H		_
PRODUCING 1	FORMATION(S	3)	<u>DEPTHS</u>						
NA				_TVD _		MD			
Please insert ad	ditional pages a	s applicable.		_					
GAS TEST	□ Build up □	Drawdown	□ Open Flow	C	DIL TEST D	Flow 🗆 Pum	ıp		
SHUT-IN PRE	SSURE Surfa	ice	_psi Botto	m Hole	psi	DURATION	OF TEST _	hrs	
OPEN FLOW		Oil pd1	NGL bpd	bpd _		GAS MEAS		□ Pilot	
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN F		ROCK TYPE AN LUID (FRESHWA		ANTITYAND IL, GAS, H₂S, ETC)	
NA	0		0			· · · · · · · · · · · · · · · · · · ·			
									_
					-				_
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									_
Please insert ad	ditional pages a	s applicable.							_
		,5,5,5							
	ctor					State	Zip		
	any					Stata	7 in		
Address			City			state	Zip		
	mpany					State	Zip		
	mpany				1,	State V	Zip	=	
	ditional pages a				Englin	NII and G	90	= = = = = = = = = = = = = = = = = = = =	
Completed by	Hollie Medley				Telephone	304-212-0422	2		
Signature +	follin	col	Title R	egulatory Man	ager	Date	6/8/2021	-1	
Submittal of Hy	ydraulic Fracturi	ng Chemical I	Disclosure Info	rmation	Attach copy of	FRACFOCU	JS Registry		

1)	Date:	6-2-21	7	0	6	1	0	1	8	3	5	
2)	Operator's Well	Number										
Local	mu OLI											

3) API Well No.: 47 -

061

01835

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

	Clarence W. Jr. & Charlotte E. Lemley	Name		
(a) Name Address	239 Lemley Hollow	Address		
Address	Core, WV 26541	Address		
(b) Name	500, 117 2001	(h) Cool Or	wner(s) with Declaration	
Address		Name	Murray Energy Corporation	
Address		Address	46226 National Road	
		Address	St. Clairsville, OH 43950	
(c) Name		Name	ot. danoviid, ot 140000	
Address		Address		
71441 035				
6) Inspector	Bryan Harris	- (a) Cool Lo	ssee with Declaration	
Address	PO Box 157	Name	ssee with Declaration	
Address	Volga, WV 26238	Address		
Telephone	304-553-6087	Address		
retephone	304-333-0087			
(2) The	application to Plug and Abandon a Well on its and the plugging work order; and plat (surveyor's map) showing the well location you received these documents is that you have right.	on on Form WW-6.		
Well (2) The p The reason However, y Take notice accompany Protection, the Applica	ts and the plugging work order; and plat (surveyor's map) showing the well locati	on on Form WW-6. this regarding the appliance, the undersigned well well with the Chief of the or certified mail or described application or certified mail or described.	ication which are summarized in the instruction of the instruction of the instruction of the instruction of the instruction and depicted on the attached Form WW	tions on the reverses side
The reason However, y Take notice accompany Protection, the Applica certain circ Northea 48 Du Morg My Commis	its and the plugging work order; and plat (surveyor's map) showing the well locati you received these documents is that you have rigou are not required to take any action at all. that under Chapter 22-6 of the West Virginia Cooking documents for a permit to plug and abandon a with respect to the well at the location described oution, and the plat have been mailed by registered umstances) on or before the day of mailing or delivered.	on on Form WW-6. this regarding the appliance, the undersigned well well with the Chief of the or certified mail or described application or certified mail or described.	I operator proposes to file or has filed this Note of Oil and Gas, West Virginia Deption and depicted on the attached Form WW elivered by hand to the person(s) named absergy LLC	tions on the reverses sid

Oil and Gas Privacy Notice

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

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API Number 47 - 061	_ 01835	Walter		*****	U	U	U	4
Oparatada Wall No 16	mley 8H							

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS FILIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN
Operator Name_Northeast Natural Energy LLC OP Code 494498281
Watershed (HUC 10) Dunkard Creek Quadrangle Blacksville
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No V
If so, please describe anticipated pit waste:
If so, please describe anticipated pit waste: Will a synthetic liner be used in the pit? Yes No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:
Land Application (if selected provide a completed form WW-9-GPP) Underground Injection (UIC Permit Number) Reuse (at API Number) Off Site Disposal (Supply form WW-9 for disposal location) Other (Explainno pit waste will be encountered in this process
Will closed loop systembe used? If so, describe: NA
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. NA
-If oil based, what type? Synthetic, petroleum, etc
Additives to be used in drilling medium? NA
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. NA
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. NA -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) -Landfill or offsite name/permit number?
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for o btaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.
Company Official Signature Holli M. Mool
Company Official (Typed Name) Hollie M. Medley
Company Official Title_Regulatory Manager
Subscribed and swom before me this day of June, 2021, 20 OFFICIAL SEAL NOTARY PUBLIC
Kristen Brooks Notary Paline Northeast Natural Energy
My commission expires Aug 10, 2023 48 Donley St., Suite 60: Morgantown, WV 26501 My Commission Expires Aug. 10

Operator's Well No. Lemley 8H

Lime 2	reatment: Acres Disturbed 0.50	Preve	g etation pH 5-7
	Tons/acre or to correct t	o pH 7	
Fertilizer type	19-19-19		
Fertilizer amou	nt_300	lbs/acre	
Mulch 2		Fons/acre	
		Seed Mixtures	
	Temporary		Permanent
Seed Type	lbs/acre	Seed Ty	pe lbs/acre
Orchard Grass	s 46	Orchard Gras	ss 46
Red Clover	8	Red Clover	8
Tetraploid Perennial Rye 16		Tetraploid Per	rennial Rye 16
Timothy 15	Annual Rye 15	Timothy 15	Annual Rye 15
provided). If water from (L, W), and area in acres	the pit will be land applied, provi s, of the land application area. involved 7.5' topographic sheet.		olans including this info have been nsions (L, W, D) of the pit, and d
provided). If water from (L, W), and area in acres Photocopied section of i	the pit will be land applied, proving the land application area. involved 7.5' topographic sheet.	ide water volume, include dime	nsions (L, W, D) of the pit, and d
provided). If water from (L, W), and area in acres Photocopied section of i	the pit will be land applied, prove s, of the land application area.	ide water volume, include dime	nsions (L, W, D) of the pit, and d
provided). If water from (L, W), and area in acres Photocopied section of i	the pit will be land applied, proving the land application area. involved 7.5' topographic sheet.	ide water volume, include dime	nsions (L, W, D) of the pit, and d
provided). If water from (L, W), and area in acres Photocopied section of i	the pit will be land applied, provis, of the land application area. involved 7.5' topographic sheet. Bryan Harria	ide water volume, include dime	nsions (L, W, D) of the pit, and d
provided). If water from (L, W), and area in acres Photocopied section of i	the pit will be land applied, proving the land application area. involved 7.5' topographic sheet.	ide water volume, include dime	nsions (L, W, D) of the pit, and d
provided). If water from (L, W), and area in acres Photocopied section of i	the pit will be land applied, provis, of the land application area. involved 7.5' topographic sheet. Bryan Harria	ide water volume, include dime	nsions (L, W, D) of the pit, and d
provided). If water from (L, W), and area in acres Photocopied section of i	the pit will be land applied, provis, of the land application area. involved 7.5' topographic sheet. Bryan Harria	ide water volume, include dime	nsions (L, W, D) of the pit, and d
provided). If water from (L, W), and area in acres Photocopied section of i	the pit will be land applied, provis, of the land application area. involved 7.5' topographic sheet. Bryan Harria	ide water volume, include dime	nsions (L, W, D) of the pit, and d
provided). If water from (L, W), and area in acres Photocopied section of i	the pit will be land applied, provis, of the land application area. involved 7.5' topographic sheet. Bryan Harria	ide water volume, include dime	nsions (L, W, D) of the pit, and d

WW-9- GPP Rev. 5/16	Page
NA	
6. Provide a statement that no waste material will be used for o	deicing or fill material on the property.
NA	
 Describe the groundwater protection instruction and training provide direction on how to prevent groundwater contamination. 	ing to be provided to the employees. Job procedures shall ation.
NA	Offic PECENA
8. Provide provisions and frequency for inspections of all GPF	elements and equipment.
NA	P elements and equipment. Environmental ment of roteotion
Signature: Holl: Mecs	

Date: (0-2-2|

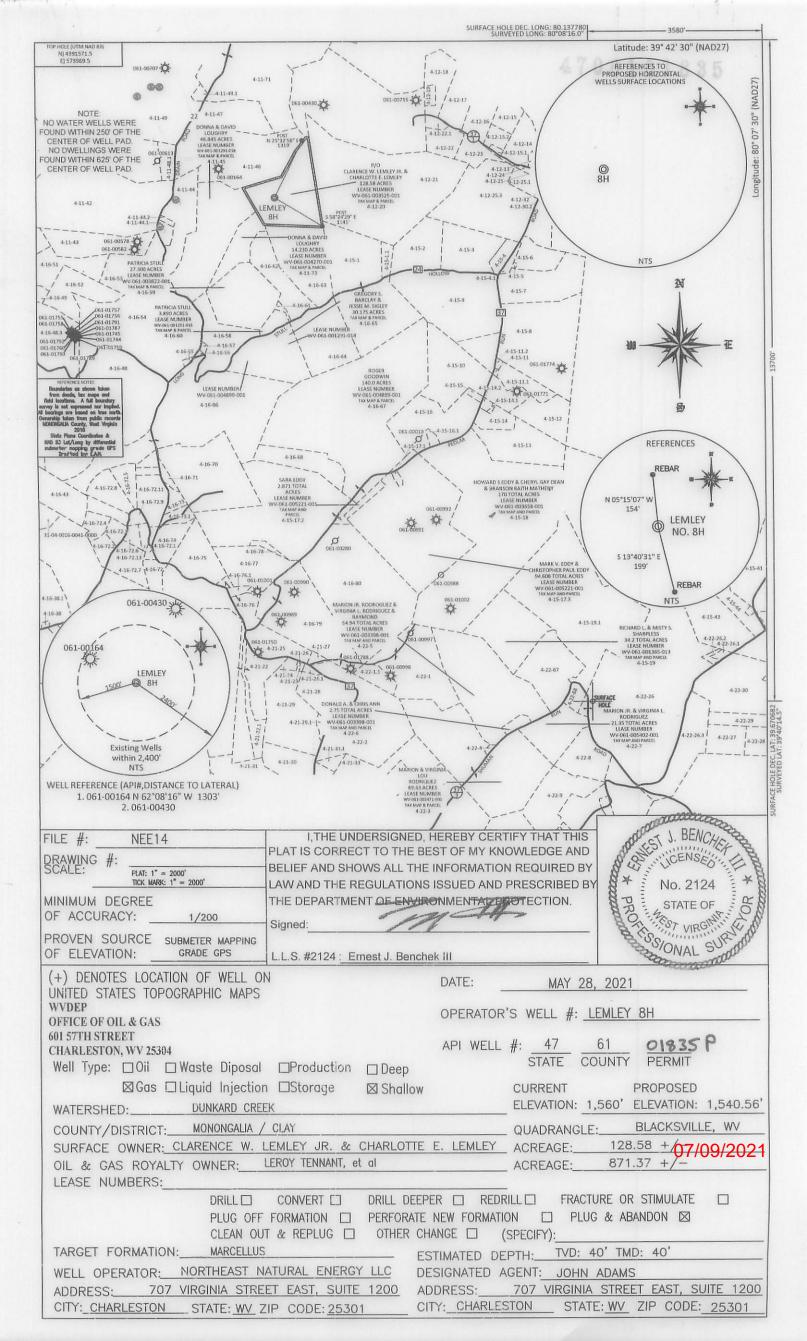
WW-9- GPP Rev. 5/16

Pa	age	<u>t</u>	of	<u></u>
API Number 47				
Operator's Well No.				

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

GROUNDWATER PI	ROTECTION PLAN
Operator Name: Northeast Natural Energy LLC	
Watershed (HUC 10): Dunkard Creek	Quad: Blacksville
Farm Name:Lemley	
 List the procedures used for the treatment and discharge of f groundwater. 	fluids. Include a list of all operations that could contaminate the
NA	
Describe procedures and equipment used to protect groundw	rater quality from the list of potential contaminant sources above.
NA	
3. List the closest water body, distance to closest water body discharge area.	, and distance from closest Well Head Protection Area to the
NA	
	lated for groundwater protection.
4. Summarize all activities at your facility that are already regu	lated for groundwater protection.
NA	₹.

5. Discuss any existing groundwater quality data for your facility or an adjacent property.





PRECEIVED

Office of Oil and Gas

JUN 11 2021

WV Department of Environmental Protection

June 9, 2021

Mr. Jeff McLaughlin WV Department of Environmental Protection Office of Oil and Gas 601 57th Street SE Charleston, WV 25304

Re: Lemley 4H Plugging Permit Application Lemley 8H Plugging Permit Application Lemley 10H Plugging Permit Application

Dear Mr. McLaughlin,

Please find enclosed Plugging Permit Applications for Northeast Natural Energy's ("NNE") Lemley 4H, 8H, 10H wells. Also enclosed with the Plugging Permit Application is the Well Operator's Report of Well Work and all required attachments for your review. Please note that only conductor was set for these wells.

Should you have any questions please contact me at kbrooks@nne-llc.com.

Sincerely,

Kristen Brooks Operations Analyst

Lemley 8H

4706101835

11/10/2016

PLUGGING PERMIT CHECKLIST

Pluggi	ing Permit	JUN I LO
✓✓✓	_ WW-4B _ WW-4B signed by inspector _ WW-4A	Environmental Section
V	- , SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SE _ MAIL	
V	COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROO BY REGISTERED OR CERTIFIED MAIL	F THAT APPLICATION WAS SENT
V	_ WW-9 PAGE 1 (NOTARIZED)	
V	, $_{_{_{\mathrm{T}}}}^{\prime}$ WW-9 PAGE 2 with attached drawing of road, location, pit and p	roposed area for land application
N	WW-9 GPP PAGE 1 and 2 if well effluent will be land applied	
V	RECENT MYLAR PLAT OR WW-7	
M	_ WELL RECORDS/COMPLETION REPORT	
\sqrt{r}	TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED	
V	MUST HAVE VALID BOND IN OPERATOR'S NAME	
V	_ CHECK FOR \$100 IF PIT IS USED	