

05/31/2019



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

Friday, May 31, 2019
WELL WORK PERMIT
Horizontal 6A / New Drill

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


Re: Permit approval for LEMLEY 5H
47-061-01843-00-00

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: LEMLEY 5H
Farm Name: CLARENCE W. LEMLEY JR. 
U.S. WELL NUMBER: 47-061-01843-00-00
Horizontal 6A New Drill
Date Issued: 5/31/2019

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. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

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

PERMIT CONDITIONS

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

4706101843

05/31/2019

WW-6B
(04/15)

API NO. 47- _____

OPERATOR WELL NO. 5H

Well Pad Name: Lemley

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

1) Well Operator: Northeast Natural Energy

<u>494498281</u>	<u>Monongalia</u>	<u>Clay</u>	<u>Blacksville, WV</u>
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Operator ID County District Quadrangle

2) Operator's Well Number: 5H Well Pad Name: Lemley

3) Farm Name/Surface Owner: Clarence W Jr & Charlotte E Lemley Public Road Access: State Route 22

4) Elevation, current ground: 1,560' Elevation, proposed post-construction: 1540'

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

(b) If Gas Shallow Deep _____
Horizontal

6) Existing Pad: Yes or No No *MJK 4/26/2019*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus; 8,206'; 53'; 3,600 psi

8) Proposed Total Vertical Depth: 8,206'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 14,393'

11) Proposed Horizontal Leg Length: 5,654'

12) Approximate Fresh Water Strata Depths: 50', 1,471'

13) Method to Determine Fresh Water Depths: Drillers Log from Offset Wells

14) Approximate Saltwater Depths: 2,361'; 2,511'

15) Approximate Coal Seam Depths: 501', 1,469'

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

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

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

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4706101843

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WW-6B
(04/15)

API NO. 47- _____

OPERATOR WELL NO. ^{5H} _____

Well Pad Name: Lemley _____

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	24"	New	NA	94.71	40'	40'	GTS
Fresh Water	13-3/8"	New	J-55	54.5	1,551'	1,521'	CTS
Coal							
Intermediate	9-5/8"	New	J-55	40	2,591'	2,561'	CTS
Production	5-1/2"	New	P-110	20	14,393'	14,363'	3260 cu ft.
Tubing							
Liners							

MSK 4/26/2019

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	24"	38"	.375"	415		4,500 psi grout	NA
Fresh Water	13-3/8"	17-1/2"	.38"	2,760	2,000	Class A	1.23
Coal							
Intermediate	9-5/8"	12-1/4"	.395"	3,950	3,000	Class A	1.3
Production	5-1/2"	8-3/4"	.361"	12,530	9,700	50:50 poz	1.21
Tubing	2-7/8"	NA	.217"	10,570	3,600	NA	NA
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

Drilling and completion of a horizontal Marcellus well. The well will be drilled on air to an approximate depth of 6,500 TVD/MD. The well will then be horizontally drilled on synthetic based mud from the KOP to approximately 8,206 TVD/14,393' MD along a 323° azimuth.

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

Multi-stage / high-rate slickwater fracture treatment using various size sands as proppant. First stage will be initiated via pressurization against a burst disc ran in the production casing string or perforated with coiled tubing. Subsequent stages will be perforated with pumped down guns ran on wireline. Individual stages will be isolated with composite frac plugs. Maximum pump rate during any stage will be 110 BPM with a maximum allowable surface pressure of 9,500 PSI. Composite bridge plugs will be set at the end of the last stage to isolate the treated formation.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 23.73

22) Area to be disturbed for well pad only, less access road (acres): 8.39

23) Describe centralizer placement for each casing string:

Surface and intermediate casing strings will have bow spring centralizers placed every third joint (~120') from the shoe joint to surface. Production casing will have rigid body centralizers placed at a minimum of every fourth joint (~160') from TD to surface.

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

Surface string cement will be a Type 1 + Max 3% bwoc Calcium Chloride Fresh Water blend.
Intermediate string cement will be a Type 1 Cement + Max 3% bwoc Calcium Chloride + Fresh Water.
Production string cement will be (50:50) Poz (Fly Ash):Type I Cement with a gas migration additive.

25) Proposed borehole conditioning procedures:

Surface string will use a 25.0 bbls Gel Pill + LCM + 25 lbs Cello Flake + 20 lbs/bbl Bentonite @ 8.4 ppg & 10 bbls fresh water spacer prior to cement. Intermediate string will use a 25.0 bbls Gel Pill + LCM + 25 lbs Cello Flake + 20 lbs/bbl Bentonite @ 8.4 ppg & 10 bbls fresh water spacer prior to cement. Production string will use a 50.0 bbls SealBond 25 + 1 gal/bbl US-40 + 275 lbs/bbl Barite + 1 gal/bbl SS-2 Spacer @ 13.5 ppg prior to cement.

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*Note: Attach additional sheets as needed.



NORTHEAST NATURAL ENERGY, LLC

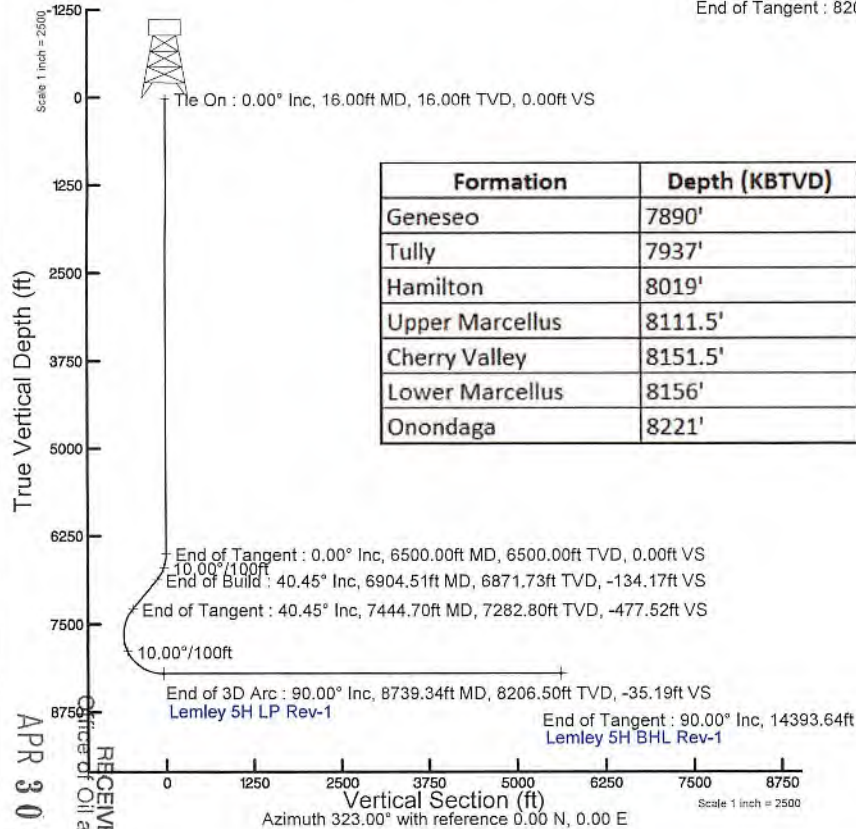
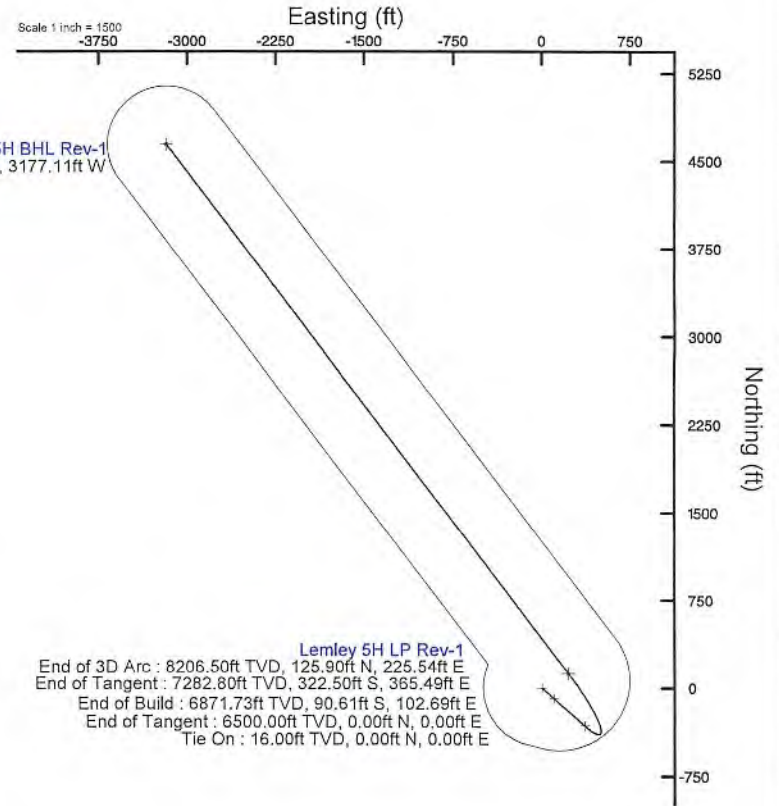
Location: Monongalia County, WV
 Field: Monongalia
 Facility: Lemley Pad

Slot: Slot 5H
 Well: Lemley 5H
 Wellbore: Lemley 5H PWB



Plot reference wellpath is Lemley 5H PWP Ex-00	Grid System: NAD83 / Lambert West Virginia 6P, Northern Zone (4701), US feet
True vertical depths are referenced to Rig on Slot 5H (RKB)	North Reference: Grid north
Measured depths are referenced to Rig on Slot 5H (RKB)	Scale: True distance
Rig on Slot 5H (RKB) to Mean Sea Level: 1550 feet	Depths are in feet
Mean Sea Level to Ground Level (At Slot: Slot 5H): -1534 feet	Created by: atenjcn on 2019-03-06
Coordinates are in feet referenced to Slot	Database: WA_MPL_EASTERNUUS_Defn

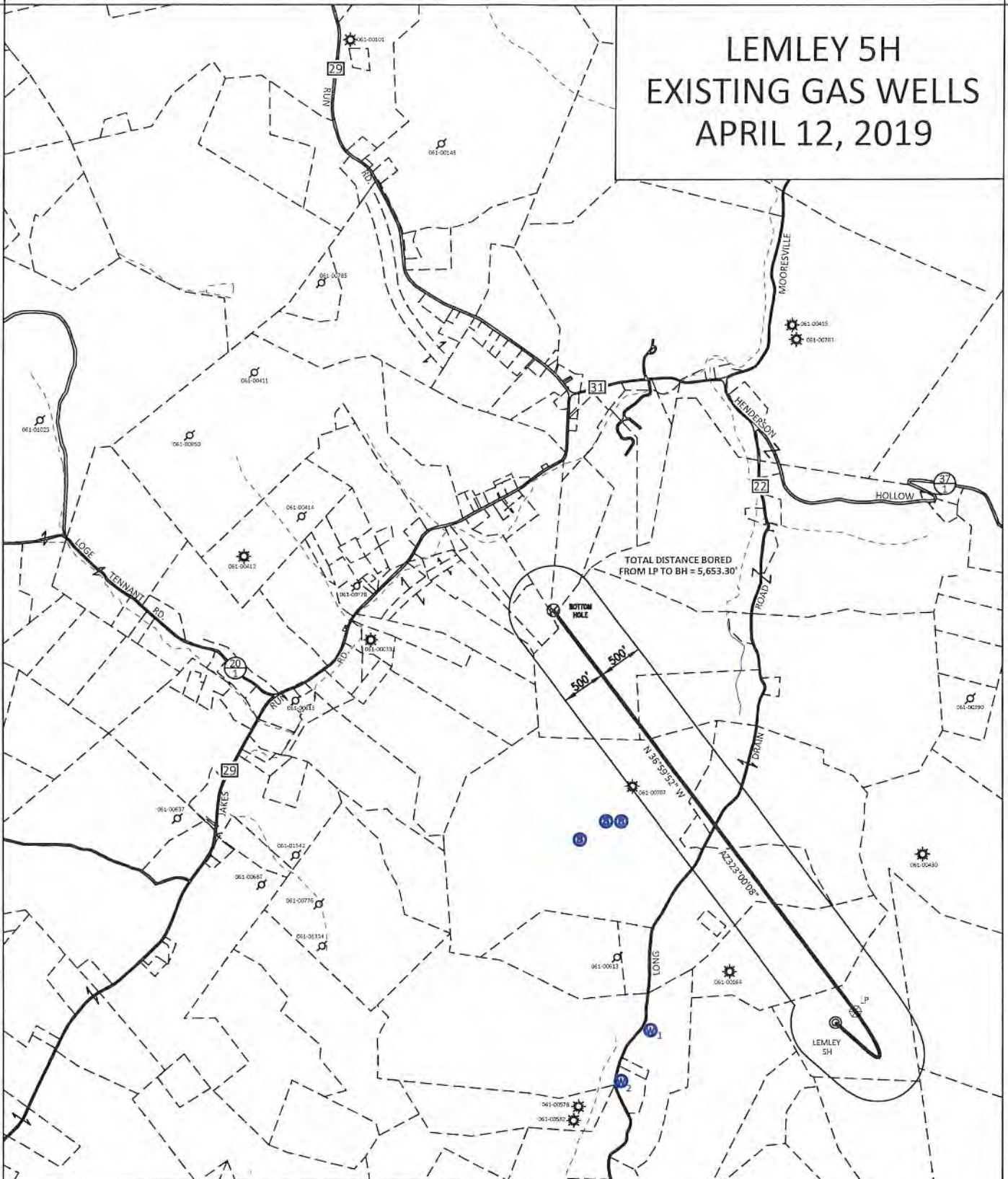
Type	Hole Size	Casing Size	Grade		GL Depth (Csg)
Conductor	28"	24"	NA		40'
Surface	17-1/2"	13-3/8"	J-55	54.5	1521'
Intermediate	12-1/4"	9-5/8"	J-55	40	2561'



Formation	Depth (KBTVD)
Genesee	7890'
Tully	7937'
Hamilton	8019'
Upper Marcellus	8111.5'
Cherry Valley	8151.5'
Lower Marcellus	8156'
Onondaga	8221'

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LEMLEY 5H EXISTING GAS WELLS APRIL 12, 2019



TOTAL DISTANCE BORED
FROM LP TO BH = 5,653.30'

SCALE: 1" = 1,500'



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Lemley 5H Area of Review

API Number	Well Name	Well Number	Operator	Latitude (NAD 27)	Longitude (NAD 27)	TMP	TVD	Comments
47-061-00707	RW Statler	NA	Kepeco, Inc.	39.677962	-80.145246	4-11-49	NA	NA

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WW-9
(4/16)

API Number 47 - _____ - _____
Operator's Well No. Lemley 5H

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

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

If so, please describe anticipated pit waste: NA

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number unknown at this time, TBD)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: Yes, Please See Attachment "A"

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Vertical - Air/ Curve & Horizontal - Oil Based

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

Additives to be used in drilling medium? Organophilic Clay Viscosifiers, Lime, Unsaturated Fatty Acids, CaCl, Barite, Emulsifiers, Mica LCM, Water Loss Agents

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removed Offsite - Please See Attachment "A"

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

-Landfill or offsite name/permit number? Please See Attachment "A"

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

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

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

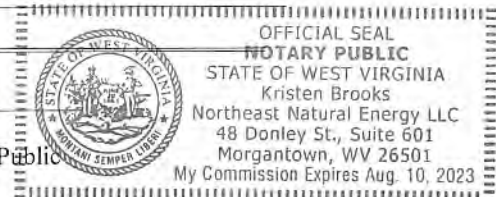
Company Official Signature Hollie Medley
Company Official (Typed Name) Hollie Medley
Company Official Title Regulatory Manager

Subscribed and sworn before me this 23rd day of April, 2019, 20

Kristen Brooks

Notary Public

My commission expires Aug. 10, 2023



Northeast Natural Energy LLC

Proposed Revegetation Treatment: Acres Disturbed 8.36 Prevegetation pH 5-7

Lime 2 Tons/acre or to correct to pH 7

Fertilizer type 19-19-19

Fertilizer amount 300 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	46	Orchard Grass	46
Red Clover	8	Red Clover	8
Tetraploi Perennial Rye	16	Tetraploid Perennial Rye	16
Timothy 15 Annual Rye 15		Timothy 15 Annual Rye	15

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Harold Kuntz*

Comments: _____

Title: Inspector Date: 4/26/2019

Field Reviewed? () Yes () No

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Attachment A to WW-9

Northeast Natural Energy LLC (“NNE”) plans to utilize a closed loop process for its drilling of the Lemley 5H well. Return flow from the well will be separated into its liquid and solid form. Liquids will be held in steel tanks and reused in the drilling and completion process or disposed of at an approved facility listed below. Solids removed from the stream will be diverted to steel half-round tanks where they will be solidified on site and taken to disposal as they are accumulated.

Lemley 5H Drill Cuttings will be taken to disposal at one or more of the following disposal/approved waste facilities, unless listed facilities are no longer approved to accept waste at time of disposal:

- Westmoreland Landfill (Tervita) – Belle Vernon, PA (Permit # 100277)
- Meadowfill Landfill (Waste Management) – Bridgeport, WV (Permit # SWF 103298)
- Max Environmental – Yukon, PA (PAD004835146 and 301071)
- Max Environmental – Bulger, PA (PAD059087072 and 301359)
- Chestnut Valley Landfill (Advanced Disposal) – Export, PA (Permit # 101421)

NNE plans to reuse and recycle all flowback fluid and/or reach out to other operators in the area who may be able to reuse and recycle such fluid. However, in the event that reuse is not obtainable the fluid will be disposed of at one, or multiple, of the following disposal/approved waste facilities unless listed facilities are no longer approved to accept waste at time of disposal:

- Fairmont Brine Processing (WV NPDES #0116408)
- Green Hunter M. E. Elder 1 Disposal Well (Permit # 47-085-05151)
- Green Hunter Mason 1 Disposal Well (Permit #47-085-09721)
- Green Hunter Warren Disposal Well (Permit #34-121-2-3995)
- Green Hunter Travis Unit Disposal Well (Permit #34-121-2-4086)
- Viking Energy Corporation 20320 Disposal Well (Permit#47-039-02210)
- Ohio Oil Gathering Killbuck Disposal Well (Permit #34-075-24527)
- Ohio Oil Gathering Moran Disposal Well (Permit #34-089-24792)
- Ohio Oil Gathering Bells Run Disposal Well (Permit #34-167-29395)
- Ohio Oil Gathering Long Run Disposal Well (Permit #34-167-29658)
- Ohio Oil Gathering Newell Run Disposal Well (Permit #34-167-29685)
- Appalachian Oil Purchaser Greens Run Disposal Well (Permit #2D0732540)
- Appalachian Oil Purchaser BW#4 Disposal Well (Permit # 2D0732523)

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northeast

NATURAL ENERGY

Lemley 5H

SITE SAFETY PLAN

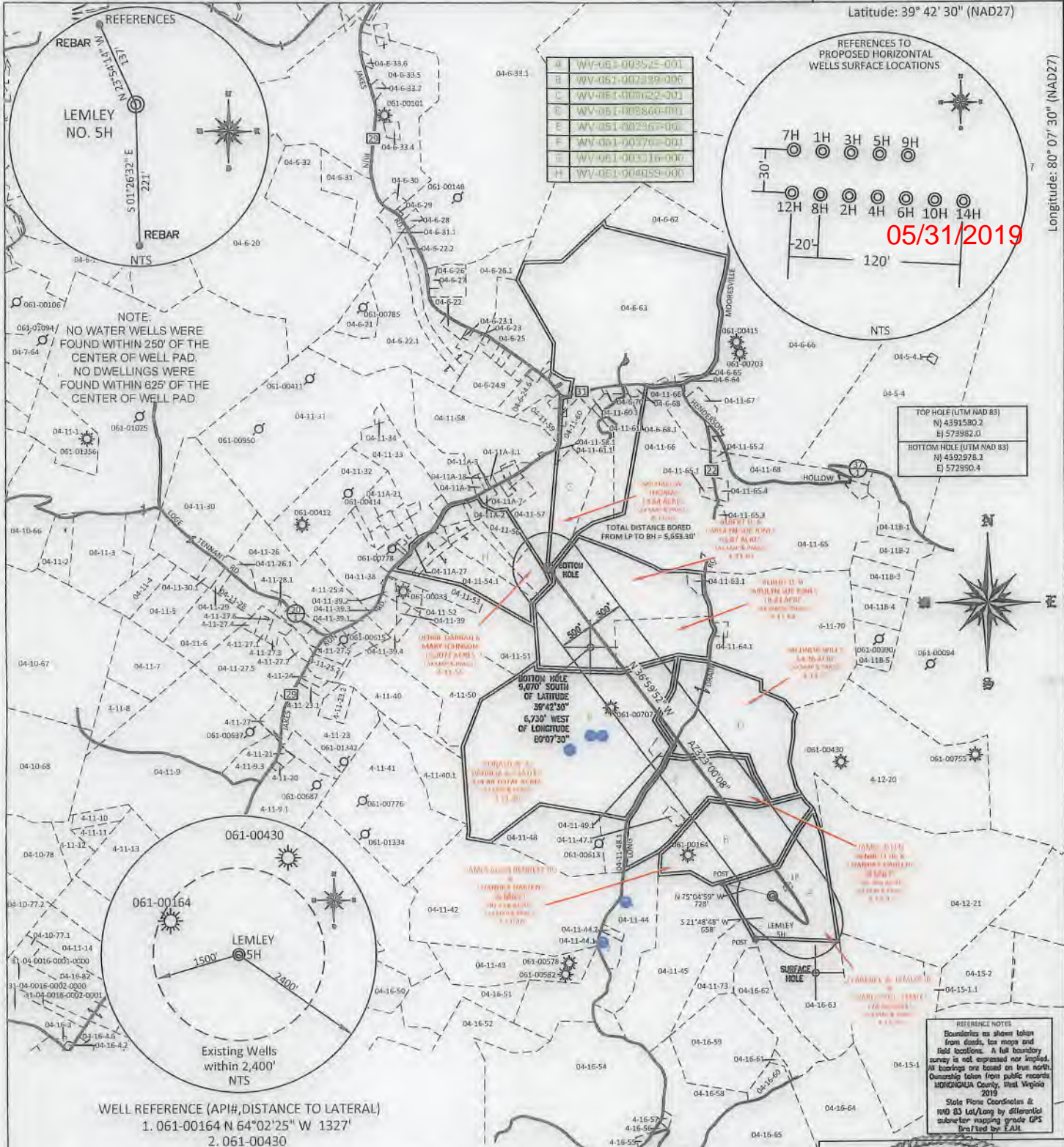
April 2019

Wayne H. ...
4/26/2019

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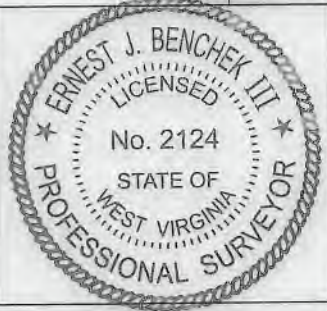


WELL REFERENCE (API#, DISTANCE TO LATERAL)
 1. 061-00164 N 64°02'25" W 1327'
 2. 061-00430

REFERENCE NOTES
 Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records MONONGALIA County, West Virginia 2019
 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS fielded by E.A.H.

FILE #: NEE14
 DRAWING #: 2905
 SCALE: PLAT: 1" = 2000'
TICK MARK: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE SUBMETER MAPPING OF ELEVATION: GRADE GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 Signed: [Signature]
 L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP

OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304

Well Type: Oil Waste Diposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: DUNKARD CREEK
 COUNTY/DISTRICT: MONONGALIA / CLAY
 SURFACE OWNER: CLARENCE W. LEMLEY JR. & CHARLOTTE E. LEMLEY
 OIL & GAS ROYALTY OWNER: LEROY TENNANT, et al
 LEASE NUMBERS: _____

DATE: APRIL 12, 2019
 OPERATOR'S WELL #: LEMLEY 5H
 API WELL #: 47 61 01843 HGA
 STATE COUNTY PERMIT

CURRENT ELEVATION: 1,560' PROPOSED ELEVATION: 1,540.56'
 QUADRANGLE: BLACKSVILLE, WV
 ACREAGE: 128.58 +/-
 ACREAGE: 495.96 +/-

TARGET FORMATION: MARCELLUS
 WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

ESTIMATED DEPTH: TVD: 8,206.50 TMD: 14,393.64
 DESIGNATED AGENT: JOHN ADAMS
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

WW-6A1
(5/13)

Operator's Well No. Lemley 5H

**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
Please 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: Northeast Natural Energy
 By: Hollie Medley *Hollie Medley*
 Its: Regulatory Manager

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
A	WV-061-003525-001	TENNANT, LEROY	Northeast Natural Energy LLC	12.5% or Greater	1524	449
A	WV-061-003525-002	LOHR, LLOYD M	Northeast Natural Energy LLC	12.5% or Greater	1526	74
A	WV-061-003525-003	HICKMAN, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1525	242
A	WV-061-003525-004	MALOTT, ROSE M.	Northeast Natural Energy LLC	12.5% or Greater	1525	250
A	WV-061-003525-007	TENNANT, SHIRLE	Northeast Natural Energy LLC	12.5% or Greater	1534	88
A	WV-061-003525-008	COSNER, SHEILA	Northeast Natural Energy LLC	12.5% or Greater	1534	86
A	WV-061-003525-009	EDDY, RONALD &	Northeast Natural Energy LLC	12.5% or Greater	1535	107
A	WV-061-003525-010	HENDERSON, WILL	Northeast Natural Energy LLC	12.5% or Greater	1536	622
A	WV-061-003525-011	HENDERSON, LARR	Northeast Natural Energy LLC	12.5% or Greater	1536	599
A	WV-061-003525-012	HENDERSON, ALPH	Northeast Natural Energy LLC	12.5% or Greater	1536	535
A	WV-061-003525-013	HENDERSON, JENN	Northeast Natural Energy LLC	12.5% or Greater	1566	289
A	WV-061-003525-014	HENDERSON, JESS	Northeast Natural Energy LLC	12.5% or Greater	1568	430
A	WV-061-003525-015	MCCARVER, STEPH	Northeast Natural Energy LLC	12.5% or Greater	1568	271
A	WV-061-003525-016	CHARVAT, SHAWNA	Northeast Natural Energy LLC	12.5% or Greater	1568	339
A	WV-061-003525-017	STOUT, MARGARET	Northeast Natural Energy LLC	12.5% or Greater	1569	269
A	WV-061-003525-018	TENNANT, DENZIL	Northeast Natural Energy LLC	12.5% or Greater	1569	244
A	WV-061-003525-019	VESELENAK, RONA	Northeast Natural Energy LLC	12.5% or Greater	1617	742
A	WV-061-003525-020	MCJESSY, JUDITH	Northeast Natural Energy LLC	12.5% or Greater	1617	744
A	WV-061-003525-021	CORE, CHARLES L	Northeast Natural Energy LLC	12.5% or Greater	1630	195
A	WV-061-003715-002	TYNER, CHRISTOP	Northeast Natural Energy LLC	12.5% or Greater	1554	828
A	WV-061-003715-003	DODD, NORA LOU	Northeast Natural Energy LLC	12.5% or Greater	1564	400
A	WV-061-004308-001	CORE, WILLIAM B	Northeast Natural Energy LLC	12.5% or Greater	1644	9
A	WV-061-004263-001	JENKINS, PAULA	Northeast Natural Energy LLC	12.5% or Greater	1645	348
A	WV-061-004264-001	MYERS, JUNE C.	Northeast Natural Energy LLC	12.5% or Greater	1571	548
A	WV-061-004267-001	CORE, BEVERLY J	Northeast Natural Energy LLC	12.5% or Greater	1571	578
B	WV-061-002339-006	STATLER, GARY	Northeast Natural Energy LLC	12.5% or Greater	1541	317
B	WV-061-002339-007	STATLER, RONALD	Northeast Natural Energy LLC	12.5% or Greater	1541	345
B	WV-061-002339-008	TENNANT, ARIETT	Northeast Natural Energy LLC	12.5% or Greater	1564	343
B	WV-061-002339-009	MCCORD, RONNIE	Northeast Natural Energy LLC	12.5% or Greater	1545	474
B	WV-061-002339-010	HOWARD, WILLA	Northeast Natural Energy LLC	12.5% or Greater	1545	476
B	WV-061-002339-011	HENDERSON, NELS	Northeast Natural Energy LLC	12.5% or Greater	1542	513
B	WV-061-002339-012	SCHIMMEL, JACQU	Northeast Natural Energy LLC	12.5% or Greater	1542	20
B	WV-061-002339-013	MCCORD, LAWRENC	Northeast Natural Energy LLC	12.5% or Greater	1542	12
B	WV-061-002339-014	CLEVINGER, DOUG	Northeast Natural Energy LLC	12.5% or Greater	1564	539
B	WV-061-002339-015	LORING, HOWARD	Northeast Natural Energy LLC	12.5% or Greater	1542	108
B	WV-061-002339-016	BRYAN, DIANA L	Northeast Natural Energy LLC	12.5% or Greater	1545	309
B	WV-061-002339-017	JACKSON, ALMA H	Northeast Natural Energy LLC	12.5% or Greater	1541	840
B	WV-061-002339-018	LEWIS, RACHEL L	Northeast Natural Energy LLC	12.5% or Greater	1566	291
B	WV-061-002339-019	CLEVINGER, LUC	Northeast Natural Energy LLC	12.5% or Greater	1541	818
B	WV-061-002339-020	STATLER, CLAREN	Northeast Natural Energy LLC	12.5% or Greater	1541	826
B	WV-061-002339-021	MYERS, DEBORAH	Northeast Natural Energy LLC	12.5% or Greater	1550	575
B	WV-061-002339-022	WALLS, DEVON	Northeast Natural Energy LLC	12.5% or Greater	1545	435
B	WV-061-002339-023	ORDER, DENNY R	Northeast Natural Energy LLC	12.5% or Greater	1545	336
B	WV-061-002339-024	ORDER, DANNY O	Northeast Natural Energy LLC	12.5% or Greater	1545	334
B	WV-061-002339-025	MARIETTA, ANGEL	Northeast Natural Energy LLC	12.5% or Greater	1545	344
B	WV-061-002339-026	TENNANT, SHEILA	Northeast Natural Energy LLC	12.5% or Greater	1545	319
B	WV-061-002339-027	ARNETT, PAMELA	Northeast Natural Energy LLC	12.5% or Greater	1545	317
B	WV-061-002339-028	VARNER, DONNA	Northeast Natural Energy LLC	12.5% or Greater	1545	480
B	WV-061-002339-029	DEVINE, JOHN	Northeast Natural Energy LLC	12.5% or Greater	1545	464
B	WV-061-002339-030	EISEMAN, JILL D	Northeast Natural Energy LLC	12.5% or Greater	1566	293
B	WV-061-002339-031	ZUCHINSKI, NORM	Northeast Natural Energy LLC	12.5% or Greater	1545	313
B	WV-061-002339-032	MOORE, AMBER G	Northeast Natural Energy LLC	12.5% or Greater	1545	802
B	WV-061-002339-033	RUSH, RICHARD W	Northeast Natural Energy LLC	12.5% or Greater	1545	462
B	WV-061-002339-034	SHRIVER, JODIE	Northeast Natural Energy LLC	12.5% or Greater	1564	537
B	WV-061-002339-035	STATLER, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1556	479
B	WV-061-002339-036	MCCARTNEY, ANNA	Northeast Natural Energy LLC	12.5% or Greater	1564	390
B	WV-061-002339-037	ORDER, DARRELL	Northeast Natural Energy LLC	12.5% or Greater	1565	420
B	WV-061-002339-038	BERRY, PRUDENCE	Northeast Natural Energy LLC	12.5% or Greater	1565	507
B	WV-061-002339-039	VOITHOFER, PAUL	Northeast Natural Energy LLC	12.5% or Greater	1551	105
B	WV-061-002339-040	WHITE, LINDA LO	Northeast Natural Energy LLC	12.5% or Greater	1551	107
B	WV-061-002339-041	WALLS, DENZIL M	Northeast Natural Energy LLC	12.5% or Greater	1558	837
B	WV-061-002339-042	WALLS, DONZEL B	Northeast Natural Energy LLC	12.5% or Greater	1565	647
B	WV-061-002339-043	WALLS, DANIEL E	Northeast Natural Energy LLC	12.5% or Greater	1567	825
B	WV-061-002339-044	MCMAHON, MARGIE	Northeast Natural Energy LLC	12.5% or Greater	1564	719
B	WV-061-002339-045	WALLS, DELMER J	Northeast Natural Energy LLC	12.5% or Greater	1564	734

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	05/31/2019 Book	Page
B	WV-061-002339-046	WALLS, ELIZABET	Northeast Natural Energy LLC	12.5% or Greater	1566	61
B	WV-061-002339-047	WALLS, TABITHA	Northeast Natural Energy LLC	12.5% or Greater	1568	3
B	WV-061-002339-048	HENDERSON, WAYN	Northeast Natural Energy LLC	12.5% or Greater	1560	55
B	WV-061-002339-049	ANASTAISIAIDIS,	Northeast Natural Energy LLC	12.5% or Greater	1568	396
B	WV-061-002339-050	MOORE, LINDA A	Northeast Natural Energy LLC	12.5% or Greater	1582	45
B	WV-061-002339-051	O'LEARY, JESSIC	Northeast Natural Energy LLC	12.5% or Greater	1584	772
B	WV-061-002339-052	FREEMAN, BRENDA	Northeast Natural Energy LLC	12.5% or Greater	1593	442
B	WV-061-002339-053	JOHNSON, LUCILL	Northeast Natural Energy LLC	12.5% or Greater	1619	26
B	WV-061-002339-054	POLING, GARY C.	Northeast Natural Energy LLC	12.5% or Greater	1619	192
B	WV-061-002339-055	POLING, LESTER	Northeast Natural Energy LLC	12.5% or Greater	1619	201
B	WV-061-002339-056	POLING, DONALD	Northeast Natural Energy LLC	12.5% or Greater	1619	207
B	WV-061-002339-057	COX, SHERRY L	Northeast Natural Energy LLC	12.5% or Greater	1619	216
B	WV-061-002339-058	DEVINE, GILBERT	Northeast Natural Energy LLC	12.5% or Greater	1638	174
B	WV-061-002339-059	TRADER, JOSEPH	Northeast Natural Energy LLC	12.5% or Greater	1637	575
B	WV-061-002339-060	TRADER, DAVID	Northeast Natural Energy LLC	12.5% or Greater	1637	577
B	WV-061-002339-061	TRADER, EDWARD	Northeast Natural Energy LLC	12.5% or Greater	1637	579
B	WV-061-002339-062	COPEN, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1637	581
B	WV-061-002339-063	POLING, LARRY	Northeast Natural Energy LLC	12.5% or Greater	1642	805
B	WV-061-002339-064	BROOKOVER, PAUL	Northeast Natural Energy LLC	12.5% or Greater	1643	539
B	WV-061-002339-065	STATLER, NELSON	Northeast Natural Energy LLC	12.5% or Greater	1643	537
B	WV-061-002339-066	STATLER, JOSEPH	Northeast Natural Energy LLC	12.5% or Greater	1643	404
B	WV-061-002339-067	CHISLER FAMILY	Northeast Natural Energy LLC	12.5% or Greater	1643	237
B	WV-061-002339-068	STATLER, GARY A	Northeast Natural Energy LLC	12.5% or Greater	1643	176
B	WV-061-002339-069	MORRIS, LINDA S	Northeast Natural Energy LLC	12.5% or Greater	1643	174
B	WV-061-002339-070	KING, SHARON	Northeast Natural Energy LLC	12.5% or Greater	1643	172
B	WV-061-002339-071	MORRIS, ANDREW	Northeast Natural Energy LLC	12.5% or Greater	1646	535
B	WV-061-002339-072	KISNER, PHILLIP	Northeast Natural Energy LLC	12.5% or Greater	1646	544
B	WV-061-002339-073	JOHNSON, ASHLEY	Northeast Natural Energy LLC	12.5% or Greater	1646	548
B	WV-061-002339-074	TENNANT, CHA ET	Northeast Natural Energy LLC	12.5% or Greater	1643	788
B	WV-061-002339-075	STATLER, ROB ET	Northeast Natural Energy LLC	12.5% or Greater	1650	70
B	WV-061-002339-076	STATLER, JOHN R	Northeast Natural Energy LLC	12.5% or Greater	1652	272
B	WV-061-002339-077	STATLER, HAROLD	Northeast Natural Energy LLC	12.5% or Greater	1654	86
B	WV-061-002339-078	MALONE, BEVERLY	Northeast Natural Energy LLC	12.5% or Greater	1657	296
B	WV-061-002339-079	HOVATTER, ANTON	Northeast Natural Energy LLC	12.5% or Greater	1660	394
B	WV-061-002503-002	KETCHEM, JOYCE	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1421	385
B	WV-061-002503-002	Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC	12.5% or Greater	120	769
B	WV-061-002503-003	VARNER, JOY	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1421	398
B	WV-061-002503-003	Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC	12.5% or Greater	120	769
B	WV-061-002503-004	KING, CHRISTINA	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1421	394
B	WV-061-002503-004	Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC	12.5% or Greater	120	769
B	WV-061-002503-005	BANE, JANET	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1421	359
B	WV-061-002503-005	Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC	12.5% or Greater	120	769
B	WV-061-003682-001	ASHCRAFT, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1547	801
B	WV-061-003682-002	ASHCRAFT, RICKY	Northeast Natural Energy LLC	12.5% or Greater	1548	262
B	WV-061-003682-003	CRANE, SHIRLEY	Northeast Natural Energy LLC	12.5% or Greater	1545	778
B	WV-061-003682-004	ASHCRAFT, DUSTI	Northeast Natural Energy LLC	12.5% or Greater	1548	258
B	WV-061-003682-005	ASHCRAFT, DAYTO	Northeast Natural Energy LLC	12.5% or Greater	1545	782
B	WV-061-003682-006	ASHCRAFT, JOHN	Northeast Natural Energy LLC	12.5% or Greater	1545	328
B	WV-061-003682-007	ASHCRAFT, CHARL	Northeast Natural Energy LLC	12.5% or Greater	1550	367
B	WV-061-003860-001	SHUMAN, INC.	Northeast Natural Energy LLC	12.5% or Greater	1551	101
B	WV-061-004155-001	NEW AUGUSTA INC	Northeast Natural Energy LLC	12.5% or Greater	1565	671
B	WV-061-004270-001	WILLIAMS, LORET	Northeast Natural Energy LLC	12.5% or Greater	1571	535
B	WV-061-004461-001	HOVATTER, DENNI	Northeast Natural Energy LLC	12.5% or Greater	1586	444
B	WV-061-004461-002	WEST VIRGINIA U	Northeast Natural Energy LLC	12.5% or Greater	1586	556
B	WV-061-004461-003	KENYON, BARB ET	Northeast Natural Energy LLC	12.5% or Greater	1588	842
B	WV-061-004461-004	HENDERSON, ALLE	Northeast Natural Energy LLC	12.5% or Greater	1588	845
B	WV-061-004461-005	HENDERSON, JERR	Northeast Natural Energy LLC	12.5% or Greater	1588	848
B	WV-061-004461-006	FLETCHER, PATRI	Northeast Natural Energy LLC	12.5% or Greater	1589	9
B	WV-061-004461-007	SCHLEGEL, BONNI	Northeast Natural Energy LLC	12.5% or Greater	1589	12
B	WV-061-004461-008	ZICKEFOOSE, EDN	Northeast Natural Energy LLC	12.5% or Greater	1589	15
B	WV-061-004461-009	KOVALSKY, SHIRL	Northeast Natural Energy LLC	12.5% or Greater	1589	18
B	WV-061-004461-010	FRYE, CATHY	Northeast Natural Energy LLC	12.5% or Greater	1589	21
B	WV-061-004461-011	SWENK, SALLY JO	Northeast Natural Energy LLC	12.5% or Greater	1605	102
B	WV-061-004461-012	SCHULTZ, GEORGE	Northeast Natural Energy LLC	12.5% or Greater	1605	105
B	WV-061-004461-013	RICKS, MARY E	Northeast Natural Energy LLC	12.5% or Greater	1606	649

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
B	WV-061-004461-014	LEKSELL, DEBORA	Northeast Natural Energy LLC	12.5% or Greater	1610	468
B	WV-061-004461-015	SCHULTZ, JEFFRE	Northeast Natural Energy LLC	12.5% or Greater	1606	653
B	WV-061-004461-016	WREN, SUZANNE	Northeast Natural Energy LLC	12.5% or Greater	1606	656
B	WV-061-004461-017	WELLS, STACEY	Northeast Natural Energy LLC	12.5% or Greater	1606	669
B	WV-061-004461-018	WELLS, ROBERT S	Northeast Natural Energy LLC	12.5% or Greater	1606	672
B	WV-061-004461-020	BREWER, PATRICI	Northeast Natural Energy LLC	12.5% or Greater	1617	776
B	WV-061-004461-021	LEWIS, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1617	799
B	WV-061-004461-022	LASKODY, PAMELA	Northeast Natural Energy LLC	12.5% or Greater	1617	801
B	WV-061-004461-023	SCHEUCH, JENNIF	Northeast Natural Energy LLC	12.5% or Greater	1617	803
B	WV-061-004461-024	STATLER, GREGOR	Northeast Natural Energy LLC	12.5% or Greater	1620	429
B	WV-061-004461-025	STATLER, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1620	431
B	WV-061-004461-026	STATLER, MICHEL	Northeast Natural Energy LLC	12.5% or Greater	1620	433
B	WV-061-004461-027	STATLER, RON ET	Northeast Natural Energy LLC	12.5% or Greater	1620	435
B	WV-061-004461-028	STATLER, MARY L	Northeast Natural Energy LLC	12.5% or Greater	1630	257
B	WV-061-004461-029	HOVATTER, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1638	259
B	WV-061-004461-030	STATLER, KENNET	Northeast Natural Energy LLC	12.5% or Greater	1636	281
B	WV-061-004461-031	MORRIS, GENEVIE	Northeast Natural Energy LLC	12.5% or Greater	1643	533
B	WV-061-004461-032	SMITH, KATHLEEN	Northeast Natural Energy LLC	12.5% or Greater	1637	827
B	WV-061-004461-033	MCCONAHAY, KEIT	Northeast Natural Energy LLC	12.5% or Greater	1637	829
B	WV-061-004461-034	HOPPER, DANIELL	Northeast Natural Energy LLC	12.5% or Greater	1637	831
B	WV-061-004461-035	SAYLOR, DEBORA	Northeast Natural Energy LLC	12.5% or Greater	1637	833
B	WV-061-004461-036	PATTERSON, T ET	Northeast Natural Energy LLC	12.5% or Greater	1643	726
B	WV-061-004461-037	CURTIS, MARY	Northeast Natural Energy LLC	12.5% or Greater	1641	847
B	WV-061-004461-038	FLUHARTY, DIANN	Northeast Natural Energy LLC	12.5% or Greater	1638	524
B	WV-061-004461-039	REDMAN, MARY E	Northeast Natural Energy LLC	12.5% or Greater	1638	512
B	WV-061-004461-040	STATLER, RICHAR	Northeast Natural Energy LLC	12.5% or Greater	1640	581
B	WV-061-004461-041	STATLER, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1641	350
B	WV-061-004461-042	WALTERS, MARY	Northeast Natural Energy LLC	12.5% or Greater	1641	352
B	WV-061-004461-043	LORD, LISA ETV	Northeast Natural Energy LLC	12.5% or Greater	1642	368
B	WV-061-004461-044	SHAHAN, MICHAEL	Northeast Natural Energy LLC	12.5% or Greater	1642	370
B	WV-061-004461-045	PRICHARD, JOHN	Northeast Natural Energy LLC	12.5% or Greater	1643	535
B	WV-061-004461-046	WARMAN, SHIRLEY	Northeast Natural Energy LLC	12.5% or Greater	1643	447
B	WV-061-004461-047	MOONEY, NORMA E	Northeast Natural Energy LLC	12.5% or Greater	1643	449
B	WV-061-004461-048	WARMAN, WILLIAM	Northeast Natural Energy LLC	12.5% or Greater	1643	451
B	WV-061-004461-049	PRICHARD TRUST	Northeast Natural Energy LLC	12.5% or Greater	1643	100
B	WV-061-004461-050	KERNS, LINDA S	Northeast Natural Energy LLC	12.5% or Greater	1643	10
B	WV-061-004461-051	RUSSELL, REBECC	Northeast Natural Energy LLC	12.5% or Greater	1649	760
B	WV-061-004461-052	PAULY, PAULA ET	Northeast Natural Energy LLC	12.5% or Greater	1647	427
B	WV-061-004461-053	STATLER, HELEN	Northeast Natural Energy LLC	12.5% or Greater	1647	607
B	WV-061-004461-054	KELLEY, NANCY A	Northeast Natural Energy LLC	12.5% or Greater	1647	609
B	WV-061-004461-055	BRAND, HAZEL K	Northeast Natural Energy LLC	12.5% or Greater	1647	611
B	WV-061-004461-056	LEWIS, LORETTA	Northeast Natural Energy LLC	12.5% or Greater	1647	613
B	WV-061-004461-057	LEWIS, LISA K.	Northeast Natural Energy LLC	12.5% or Greater	1647	615
B	WV-061-004461-058	LEWIS, LENA F.	Northeast Natural Energy LLC	12.5% or Greater	1647	617
B	WV-061-004461-059	PHILLIPS, R ET	Northeast Natural Energy LLC	12.5% or Greater	1647	619
B	WV-061-004461-060	HOVATTER, SHARO	Northeast Natural Energy LLC	12.5% or Greater	1649	165
B	WV-061-004461-061	EVANS, PAMELA K	Northeast Natural Energy LLC	12.5% or Greater	1647	765
B	WV-061-004461-062	STATLER, PATRIC	Northeast Natural Energy LLC	12.5% or Greater	1648	237
B	WV-061-004461-063	STATLER, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1648	239
B	WV-061-004461-064	MOREHEAD, LAURA	Northeast Natural Energy LLC	12.5% or Greater	1650	171
B	WV-061-004461-065	CZAKO, LENORA A	Northeast Natural Energy LLC	12.5% or Greater	1650	173
B	WV-061-004461-066	FOLKENS, DOUGLA	Northeast Natural Energy LLC	12.5% or Greater	1650	175
B	WV-061-004461-067	WILLIS, ROLLEY	Northeast Natural Energy LLC	12.5% or Greater	1651	139
B	WV-061-004461-068	MORRIS, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1650	179
B	WV-061-004461-069	VIETS, ELLEN C	Northeast Natural Energy LLC	12.5% or Greater	1650	181
B	WV-061-004461-070	VIETS, LLOYD O	Northeast Natural Energy LLC	12.5% or Greater	1650	183
B	WV-061-004461-071	DURBIN, WILDA J	Northeast Natural Energy LLC	12.5% or Greater	1653	171
B	WV-061-004461-072	MILLER, WILMA J	Northeast Natural Energy LLC	12.5% or Greater	1654	329
B	WV-061-004461-073	MAIN, GEORGE M	Northeast Natural Energy LLC	12.5% or Greater	1653	173
B	WV-061-004461-074	ZAPPI, ALICE M	Northeast Natural Energy LLC	12.5% or Greater	1653	175
B	WV-061-004461-075	BELL, BARBARA A	Northeast Natural Energy LLC	12.5% or Greater	1653	177
B	WV-061-004461-076	TEASDALE, KYLE	Northeast Natural Energy LLC	12.5% or Greater	1653	559
B	WV-061-004461-077	TEASDALE, DANYA	Northeast Natural Energy LLC	12.5% or Greater	1653	561
B	WV-061-004461-078	MAIN, KEANITH P	Northeast Natural Energy LLC	12.5% or Greater	1653	563
B	WV-061-004461-079	BRIGGS, HARRIET	Northeast Natural Energy LLC	12.5% or Greater	1654	331

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
B	WV-061-004461-080	EASTHAM, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1655	607
B	WV-061-004461-081	KELLEY, PAUL R.	Northeast Natural Energy LLC	12.5% or Greater	1655	609
B	WV-061-004535-001	HALL, CHERYL L	Northeast Natural Energy LLC	12.5% or Greater	1591	509
B	WV-061-004535-002	HALL, LUCINDA	Northeast Natural Energy LLC	12.5% or Greater	1591	520
B	WV-061-004535-003	HALL, TAMARA L	Northeast Natural Energy LLC	12.5% or Greater	1591	513
B	WV-061-005201-001	STATLER, KIMBER	Northeast Natural Energy LLC	12.5% or Greater	1628	560
B	WV-061-005201-002	BOYCE, BEVERLY	Northeast Natural Energy LLC	12.5% or Greater	1628	562
B	WV-061-005201-003	ASH, SUSAN	Northeast Natural Energy LLC	12.5% or Greater	1628	564
B	WV-061-005201-004	STATLER, DEBORA	Northeast Natural Energy LLC	12.5% or Greater	1628	566
B	WV-061-005481-001	CNX GAS COMPANY	Northeast Natural Energy LLC	12.5% or Greater	1645	152
C	WV-061-003622-001	KRIER, MARGARET	Northeast Natural Energy LLC	12.5% or Greater	1539	195
C	WV-061-003622-002	SUSKIND, MARY	Northeast Natural Energy LLC	12.5% or Greater	1539	234
C	WV-061-003622-003	WRIGHT, DONALD	Northeast Natural Energy LLC	12.5% or Greater	1539	531
C	WV-061-004642-001	GOODEN, DORIS	Northeast Natural Energy LLC	12.5% or Greater	1600	310
C	WV-061-003582-006	WV MINERALS INC	Northeast Natural Energy LLC	12.5% or Greater	1564	709
D	WV-061-003860-001	SHUMAN, INC.	Northeast Natural Energy LLC	12.5% or Greater	1551	101
E	WV-061-002367-002	JONES, ROBERT H	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1404	474
E	WV-061-002367-002	Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC	12.5% or Greater	120	769
E	WV-061-002367-004	TRADER, FLORENC	Northeast Natural Energy LLC	12.5% or Greater	1510	68
E	WV-061-002367-005	TENNANT, ARIETT	Northeast Natural Energy LLC	12.5% or Greater	1511	554
E	WV-061-002367-006	STATLER, GARY D	Northeast Natural Energy LLC	12.5% or Greater	1576	640
E	WV-061-002367-007	STATLER, RONALD	Northeast Natural Energy LLC	12.5% or Greater	1512	535
E	WV-061-002367-008	ANASTASIADIS, M	Northeast Natural Energy LLC	12.5% or Greater	1516	156
E	WV-061-002367-009	HENDERSON, WAYN	Northeast Natural Energy LLC	12.5% or Greater	1512	691
E	WV-061-002367-010	ZUCHINSKI, NORM	Northeast Natural Energy LLC	12.5% or Greater	1516	162
E	WV-061-002367-011	DEVINE, JOHN N	Northeast Natural Energy LLC	12.5% or Greater	1517	129
E	WV-061-002367-012	TENNANT, SHEILA	Northeast Natural Energy LLC	12.5% or Greater	1517	123
E	WV-061-002367-013	ARNETT, PAMELA	Northeast Natural Energy LLC	12.5% or Greater	1516	152
E	WV-061-002367-014	SHRIVER, JODIE	Northeast Natural Energy LLC	12.5% or Greater	1517	133
E	WV-061-002367-015	BERRY, PRUDENCE	Northeast Natural Energy LLC	12.5% or Greater	1517	117
E	WV-061-002367-016	O'LEARY, JESSIC	Northeast Natural Energy LLC	12.5% or Greater	1517	32
E	WV-061-002367-017	VARNER, DONNA	Northeast Natural Energy LLC	12.5% or Greater	1517	107
E	WV-061-002367-018	POLING, LOUISE	Northeast Natural Energy LLC	12.5% or Greater	1590	131
E	WV-061-002367-019	JOHNSON, LUCILL	Northeast Natural Energy LLC	12.5% or Greater	1518	1
E	WV-061-002367-020	FREEMAN, BRENDA	Northeast Natural Energy LLC	12.5% or Greater	1520	322
E	WV-061-002367-021	KOVALSKY, SHIRL	Northeast Natural Energy LLC	12.5% or Greater	1520	328
E	WV-061-002367-022	KENYON, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1517	808
E	WV-061-002367-023	HENDERSON, JERR	Northeast Natural Energy LLC	12.5% or Greater	1517	849
E	WV-061-002367-024	MCCORD, RONNIE	Northeast Natural Energy LLC	12.5% or Greater	1523	443
E	WV-061-002367-025	HOWARD, WILLA	Northeast Natural Energy LLC	12.5% or Greater	1523	799
E	WV-061-002367-026	MCCORD, LAWRENC	Northeast Natural Energy LLC	12.5% or Greater	1524	325
E	WV-061-002367-032	ORDER, DENNY R	Northeast Natural Energy LLC	12.5% or Greater	1532	711
E	WV-061-002367-033	TENNANT, CHARLE	Northeast Natural Energy LLC	12.5% or Greater	1532	568
E	WV-061-002367-036	ORDER, DANNY O	Northeast Natural Energy LLC	12.5% or Greater	1531	86
E	WV-061-002367-037	ORDER, DARRELL	Northeast Natural Energy LLC	12.5% or Greater	1533	113
E	WV-061-002367-039	MYERS, DEBORAH	Northeast Natural Energy LLC	12.5% or Greater	1535	97
E	WV-061-002367-040	STATLER, CLAREN	Northeast Natural Energy LLC	12.5% or Greater	1535	118
E	WV-061-002367-041	CLEVENGER, DOUG	Northeast Natural Energy LLC	12.5% or Greater	1538	262
E	WV-061-002367-042	SCHIMMEL, JACQU	Northeast Natural Energy LLC	12.5% or Greater	1535	708
E	WV-061-002367-043	EISEMAN, JILL	Northeast Natural Energy LLC	12.5% or Greater	1535	631
E	WV-061-002367-044	EDDY, KENNETH	Northeast Natural Energy LLC	12.5% or Greater	1538	441
E	WV-061-002367-045	EDDY, KYLE	Northeast Natural Energy LLC	12.5% or Greater	1538	288
E	WV-061-002367-046	CLEVENGER, LUCA	Northeast Natural Energy LLC	12.5% or Greater	1539	524
E	WV-061-002367-047	FORTUNE DEVELOP	Northeast Natural Energy LLC	12.5% or Greater	1561	305
E	WV-061-002367-048	HENDERSON, NELS	Northeast Natural Energy LLC	12.5% or Greater	1545	348
E	WV-061-002367-049	LORING, HOWARD	Northeast Natural Energy LLC	12.5% or Greater	1545	338
E	WV-061-002367-050	LEWIS, RACHEL	Northeast Natural Energy LLC	12.5% or Greater	1566	683
E	WV-061-002367-051	BRYAN, DIANA L	Northeast Natural Energy LLC	12.5% or Greater	1545	346
E	WV-061-002367-052	JACKSON, ALMA	Northeast Natural Energy LLC	12.5% or Greater	1541	822
E	WV-061-002367-053	WALLS, DEVON	Northeast Natural Energy LLC	12.5% or Greater	1564	337
E	WV-061-002367-054	MARIETTA, ANGEL	Northeast Natural Energy LLC	12.5% or Greater	1566	685
E	WV-061-002367-055	CARR, NANCY P.	Northeast Natural Energy LLC	12.5% or Greater	1545	472
E	WV-061-002367-056	CARR, TRAVIS S	Northeast Natural Energy LLC	12.5% or Greater	1547	844
E	WV-061-002367-057	JUDGE, TIFFANY	Northeast Natural Energy LLC	12.5% or Greater	1545	794
E	WV-061-002367-058	RUSH, RICHARD W	Northeast Natural Energy LLC	12.5% or Greater	1545	786

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
E	WV-061-002367-059	MOORE, AMBER G.	Northeast Natural Energy LLC	12.5% or Greater	1545	796
E	WV-061-002367-060	MCCARTNEY, ANNA	Northeast Natural Energy LLC	12.5% or Greater	1564	386
E	WV-061-002367-061	VOITHOFER, PAUL	Northeast Natural Energy LLC	12.5% or Greater	1551	103
E	WV-061-002367-062	WHITE, LINDA LO	Northeast Natural Energy LLC	12.5% or Greater	1551	97
E	WV-061-002367-063	WALLS, DENZIL M	Northeast Natural Energy LLC	12.5% or Greater	1566	71
E	WV-061-002367-064	WALLS, DONZEL B	Northeast Natural Energy LLC	12.5% or Greater	1566	73
E	WV-061-002367-065	BENSON, CHRISTI	Northeast Natural Energy LLC	12.5% or Greater	1566	81
E	WV-061-002367-066	MCMAHON, MARGIE	Northeast Natural Energy LLC	12.5% or Greater	1566	63
E	WV-061-002367-067	WALLS, DANIEL E	Northeast Natural Energy LLC	12.5% or Greater	1566	35
E	WV-061-002367-068	WALLS, DELMER J	Northeast Natural Energy LLC	12.5% or Greater	1566	17
E	WV-061-002367-069	MYERS, DAVID B	Northeast Natural Energy LLC	12.5% or Greater	1565	645
E	WV-061-002367-070	WALLS, ELIZABET	Northeast Natural Energy LLC	12.5% or Greater	1566	65
E	WV-061-002367-071	WALLS, TABITHA	Northeast Natural Energy LLC	12.5% or Greater	1565	278
E	WV-061-002367-072	MOORE, LINDA A.	Northeast Natural Energy LLC	12.5% or Greater	1588	357
E	WV-061-002367-073	HUPP, SARA S	Northeast Natural Energy LLC	12.5% or Greater	1647	21
E	WV-061-002367-074	HUPP, MOLLY H	Northeast Natural Energy LLC	12.5% or Greater	1647	442
E	WV-061-002367-075	STATLER, ROB ET	Northeast Natural Energy LLC	12.5% or Greater	1650	72
E	WV-061-002367-076	SCHEINHOLTZ, DA	Northeast Natural Energy LLC	12.5% or Greater	1650	74
E	WV-061-004461-001	HOVATTER, DENNI	Northeast Natural Energy LLC	12.5% or Greater	1586	444
E	WV-061-004461-002	WEST VIRGINIA U	Northeast Natural Energy LLC	12.5% or Greater	1586	556
E	WV-061-004461-003	KENYON, BARB ET	Northeast Natural Energy LLC	12.5% or Greater	1588	842
E	WV-061-004461-004	HENDERSON, ALLE	Northeast Natural Energy LLC	12.5% or Greater	1588	845
E	WV-061-004461-005	HENDERSON, JERR	Northeast Natural Energy LLC	12.5% or Greater	1588	848
E	WV-061-004461-006	FLETCHER, PATRI	Northeast Natural Energy LLC	12.5% or Greater	1589	9
E	WV-061-004461-007	SCHLEGEL, BONNI	Northeast Natural Energy LLC	12.5% or Greater	1589	12
E	WV-061-004461-008	ZICKEFOOSE, EDN	Northeast Natural Energy LLC	12.5% or Greater	1589	15
E	WV-061-004461-009	KOVALSKY, SHIRL	Northeast Natural Energy LLC	12.5% or Greater	1589	18
E	WV-061-004461-010	FRYE, CATHY	Northeast Natural Energy LLC	12.5% or Greater	1589	21
E	WV-061-004461-011	SWENK, SALLY JO	Northeast Natural Energy LLC	12.5% or Greater	1605	102
E	WV-061-004461-012	SCHULTZ, GEORGE	Northeast Natural Energy LLC	12.5% or Greater	1605	105
E	WV-061-004461-013	RICKS, MARY E	Northeast Natural Energy LLC	12.5% or Greater	1606	649
E	WV-061-004461-014	LEKSELL, DEBORA	Northeast Natural Energy LLC	12.5% or Greater	1610	468
E	WV-061-004461-015	SCHULTZ, JEFFRE	Northeast Natural Energy LLC	12.5% or Greater	1606	653
E	WV-061-004461-016	WREN, SUZANNE	Northeast Natural Energy LLC	12.5% or Greater	1606	656
E	WV-061-004461-017	WELLS, STACEY	Northeast Natural Energy LLC	12.5% or Greater	1606	669
E	WV-061-004461-018	WELLS, ROBERT S	Northeast Natural Energy LLC	12.5% or Greater	1606	672
E	WV-061-004461-020	BREWER, PATRICI	Northeast Natural Energy LLC	12.5% or Greater	1617	776
E	WV-061-004461-021	LEWIS, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1617	799
E	WV-061-004461-022	LASKODY, PAMELA	Northeast Natural Energy LLC	12.5% or Greater	1617	801
E	WV-061-004461-023	SCHEUCH, JENNIF	Northeast Natural Energy LLC	12.5% or Greater	1617	803
E	WV-061-004461-024	STATLER, GREGOR	Northeast Natural Energy LLC	12.5% or Greater	1620	429
E	WV-061-004461-025	STATLER, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1620	431
E	WV-061-004461-026	STATLER, MICHEL	Northeast Natural Energy LLC	12.5% or Greater	1620	433
E	WV-061-004461-027	STATLER, RON ET	Northeast Natural Energy LLC	12.5% or Greater	1620	435
E	WV-061-004461-028	STATLER, MARY L	Northeast Natural Energy LLC	12.5% or Greater	1630	257
E	WV-061-004461-029	HOVATTER, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1638	259
E	WV-061-004461-030	STATLER, KENNET	Northeast Natural Energy LLC	12.5% or Greater	1636	281
E	WV-061-004461-031	MORRIS, GENEVIE	Northeast Natural Energy LLC	12.5% or Greater	1643	533
E	WV-061-004461-032	SMITH, KATHLEEN	Northeast Natural Energy LLC	12.5% or Greater	1637	827
E	WV-061-004461-033	MCCONAHAY, KEIT	Northeast Natural Energy LLC	12.5% or Greater	1637	829
E	WV-061-004461-034	HOPPER, DANIELL	Northeast Natural Energy LLC	12.5% or Greater	1637	831
E	WV-061-004461-035	SAYLOR, DEBORA	Northeast Natural Energy LLC	12.5% or Greater	1637	833
E	WV-061-004461-036	PATTERSON, T ET	Northeast Natural Energy LLC	12.5% or Greater	1643	726
E	WV-061-004461-037	CURTIS, MARY	Northeast Natural Energy LLC	12.5% or Greater	1641	847
E	WV-061-004461-038	FLUHARTY, DIANN	Northeast Natural Energy LLC	12.5% or Greater	1638	524
E	WV-061-004461-039	REDMAN, MARY E	Northeast Natural Energy LLC	12.5% or Greater	1638	512
E	WV-061-004461-040	STATLER, RICHA	Northeast Natural Energy LLC	12.5% or Greater	1640	581
E	WV-061-004461-041	STATLER, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1641	350
E	WV-061-004461-042	WALTERS, MARY	Northeast Natural Energy LLC	12.5% or Greater	1641	352
E	WV-061-004461-043	LORD, LISA ETV	Northeast Natural Energy LLC	12.5% or Greater	1642	368
E	WV-061-004461-044	SHAHAN, MICHAEL	Northeast Natural Energy LLC	12.5% or Greater	1642	370
E	WV-061-004461-045	PRICHARD, JOHN	Northeast Natural Energy LLC	12.5% or Greater	1643	535
E	WV-061-004461-046	WARMAN, SHIRLEY	Northeast Natural Energy LLC	12.5% or Greater	1643	447
E	WV-061-004461-047	MOONEY, NORMA E	Northeast Natural Energy LLC	12.5% or Greater	1643	449
E	WV-061-004461-048	WARMAN, WILLIAM	Northeast Natural Energy LLC	12.5% or Greater	1643	451

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
E	WV-061-004461-049	PRICHARD TRUST	Northeast Natural Energy LLC	12.5% or Greater	1643	100
E	WV-061-004461-050	KERNS, LINDA S	Northeast Natural Energy LLC	12.5% or Greater	1643	10
E	WV-061-004461-051	RUSSELL, REBECC	Northeast Natural Energy LLC	12.5% or Greater	1649	760
E	WV-061-004461-052	PAULY, PAULA ET	Northeast Natural Energy LLC	12.5% or Greater	1647	427
E	WV-061-004461-053	STATLER, HELEN	Northeast Natural Energy LLC	12.5% or Greater	1647	607
E	WV-061-004461-054	KELLEY, NANCY A	Northeast Natural Energy LLC	12.5% or Greater	1647	609
E	WV-061-004461-055	BRAND, HAZEL K	Northeast Natural Energy LLC	12.5% or Greater	1647	611
E	WV-061-004461-056	LEWIS, LORETTA	Northeast Natural Energy LLC	12.5% or Greater	1647	613
E	WV-061-004461-057	LEWIS, LISA K.	Northeast Natural Energy LLC	12.5% or Greater	1647	615
E	WV-061-004461-058	LEWIS, LENA F.	Northeast Natural Energy LLC	12.5% or Greater	1647	617
E	WV-061-004461-059	PHILLIPS, R ET	Northeast Natural Energy LLC	12.5% or Greater	1647	619
E	WV-061-004461-060	HOVATTER, SHARO	Northeast Natural Energy LLC	12.5% or Greater	1649	165
E	WV-061-004461-061	EVANS, PAMELA K	Northeast Natural Energy LLC	12.5% or Greater	1647	765
E	WV-061-004461-062	STATLER, PATRIC	Northeast Natural Energy LLC	12.5% or Greater	1648	237
E	WV-061-004461-063	STATLER, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1648	239
E	WV-061-004461-064	MOREHEAD, LAURA	Northeast Natural Energy LLC	12.5% or Greater	1650	171
E	WV-061-004461-065	CZAKO, LENORA A	Northeast Natural Energy LLC	12.5% or Greater	1650	173
E	WV-061-004461-066	FOLKENS, DOUGLA	Northeast Natural Energy LLC	12.5% or Greater	1650	175
E	WV-061-004461-067	WILLIS, ROLLEY	Northeast Natural Energy LLC	12.5% or Greater	1651	139
E	WV-061-004461-068	MORRIS, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1650	179
E	WV-061-004461-069	VIETS, ELLEN C	Northeast Natural Energy LLC	12.5% or Greater	1650	181
E	WV-061-004461-070	VIETS, LLOYD O	Northeast Natural Energy LLC	12.5% or Greater	1650	183
E	WV-061-004461-071	DURBIN, WILDA J	Northeast Natural Energy LLC	12.5% or Greater	1653	171
E	WV-061-004461-072	MILLER, WILMA J	Northeast Natural Energy LLC	12.5% or Greater	1654	329
E	WV-061-004461-073	MAIN, GEORGE M	Northeast Natural Energy LLC	12.5% or Greater	1653	173
E	WV-061-004461-074	ZAPPI, ALICE M	Northeast Natural Energy LLC	12.5% or Greater	1653	175
E	WV-061-004461-075	BELL, BARBARA A	Northeast Natural Energy LLC	12.5% or Greater	1653	177
E	WV-061-004461-076	TEASDALE, KYLE	Northeast Natural Energy LLC	12.5% or Greater	1653	559
E	WV-061-004461-077	TEASDALE, DANYA	Northeast Natural Energy LLC	12.5% or Greater	1653	561
E	WV-061-004461-078	MAIN, KEANITH P	Northeast Natural Energy LLC	12.5% or Greater	1653	563
E	WV-061-004461-079	BRIGGS, HARRIET	Northeast Natural Energy LLC	12.5% or Greater	1654	331
E	WV-061-004461-080	EASTHAM, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1655	607
E	WV-061-004461-081	KELLEY, PAUL R.	Northeast Natural Energy LLC	12.5% or Greater	1655	609
E	WV-061-004535-001	HALL, CHERYL L	Northeast Natural Energy LLC	12.5% or Greater	1591	509
E	WV-061-004535-002	HALL, LUCINDA	Northeast Natural Energy LLC	12.5% or Greater	1591	520
E	WV-061-004535-003	HALL, TAMARA L	Northeast Natural Energy LLC	12.5% or Greater	1591	513
F	WV-061-003763-001	BAUGHMAN, MARCE	Northeast Natural Energy LLC	12.5% or Greater	1545	466
F	WV-061-003763-003	STATLER, PATRIC	Northeast Natural Energy LLC	12.5% or Greater	1564	617
F	WV-061-003763-004	JOHNSON, PHYLLI	Northeast Natural Energy LLC	12.5% or Greater	1545	792
F	WV-061-003763-005	BRUNETT-SANDRID	Northeast Natural Energy LLC	12.5% or Greater	1566	747
F	WV-061-003763-006	KENNEDY, ANNA J	Northeast Natural Energy LLC	12.5% or Greater	1566	673
F	WV-061-003763-007	STOKES, NANCY	Northeast Natural Energy LLC	12.5% or Greater	1566	675
F	WV-061-003763-008	JOHNSON, ZOA R	Northeast Natural Energy LLC	12.5% or Greater	1565	426
F	WV-061-003763-009	JOHNSON, MELVIN	Northeast Natural Energy LLC	12.5% or Greater	1564	535
F	WV-061-003763-010	MCCARTY FAMILY	Northeast Natural Energy LLC	12.5% or Greater	1566	671
F	WV-061-003763-011	SHIPLEY, STEPH	Northeast Natural Energy LLC	12.5% or Greater	1564	713
F	WV-061-003763-012	AMMONS, BUDDY B	Northeast Natural Energy LLC	12.5% or Greater	1565	659
F	WV-061-003763-013	MOORE, CARL W.	Northeast Natural Energy LLC	12.5% or Greater	1565	661
F	WV-061-003763-014	HUGGINS, ROSE M	Northeast Natural Energy LLC	12.5% or Greater	1565	669
F	WV-061-003763-015	AMMONS, DELBERT	Northeast Natural Energy LLC	12.5% or Greater	1564	711
F	WV-061-003763-016	STEWART, PAUL T	Northeast Natural Energy LLC	12.5% or Greater	1562	209
F	WV-061-003763-017	STEWART, EARL W	Northeast Natural Energy LLC	12.5% or Greater	1562	207
F	WV-061-003763-018	ARMSTRONG, JAME	Northeast Natural Energy LLC	12.5% or Greater	1568	71
F	WV-061-003763-019	AMMONS, RONALD	Northeast Natural Energy LLC	12.5% or Greater	1568	65
F	WV-061-003763-020	BROMHAL, BEVERL	Northeast Natural Energy LLC	12.5% or Greater	1568	97
F	WV-061-003763-021	JOHNSON, MARY L	Northeast Natural Energy LLC	12.5% or Greater	1568	20
F	WV-061-003763-022	HALL, MELVIN G.	Northeast Natural Energy LLC	12.5% or Greater	1565	299
F	WV-061-003763-023	CALTRIDER, ROSE	Northeast Natural Energy LLC	12.5% or Greater	1568	63
F	WV-061-003763-024	DARRAH, DEBBIE	Northeast Natural Energy LLC	12.5% or Greater	1568	67
F	WV-061-003763-025	HALL, DAVID JAR	Northeast Natural Energy LLC	12.5% or Greater	1568	73
F	WV-061-003763-026	JOHNSON, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1568	69
F	WV-061-003763-027	JOHNSON, JOHN R	Northeast Natural Energy LLC	12.5% or Greater	1568	89
F	WV-061-003763-028	JOHNSON, JACK J	Northeast Natural Energy LLC	12.5% or Greater	1566	204
F	WV-061-003763-029	STEWART, GRANT	Northeast Natural Energy LLC	12.5% or Greater	1566	519
F	WV-061-003763-030	GASKILL, PAULIN	Northeast Natural Energy LLC	12.5% or Greater	1566	521

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	05/31/2019 Book	Page
F	WV-061-003763-031	TENNANT, ARIETT	Northeast Natural Energy LLC	12.5% or Greater	1565	649
F	WV-061-003763-032	STATLER, RONALD	Northeast Natural Energy LLC	12.5% or Greater	1568	75
F	WV-061-003763-033	STATLER, GARY D	Northeast Natural Energy LLC	12.5% or Greater	1564	384
F	WV-061-003763-034	HALL, BETTY K	Northeast Natural Energy LLC	12.5% or Greater	1600	161
F	WV-061-003763-035	SPITZNOGLGE,ALI	Northeast Natural Energy LLC	12.5% or Greater	1601	735
F	WV-061-003763-036	DEMOSS, GARY L.	Northeast Natural Energy LLC	12.5% or Greater	1611	3
F	WV-061-003763-037	ATKINS, GREGORY	Northeast Natural Energy LLC	12.5% or Greater	1611	5
F	WV-061-003763-038	WILLARD, WANDA	Northeast Natural Energy LLC	12.5% or Greater	1611	7
F	WV-061-003763-039	BATSON, JACKIE	Northeast Natural Energy LLC	12.5% or Greater	1611	9
F	WV-061-003763-040	BRIGGS, KENNETH	Northeast Natural Energy LLC	12.5% or Greater	1611	11
F	WV-061-003763-041	VARNER, DONNA	Northeast Natural Energy LLC	12.5% or Greater	1611	656
F	WV-061-003763-042	RUSSELL, TERESA	Northeast Natural Energy LLC	12.5% or Greater	1611	658
F	WV-061-003763-043	BREWER, RUBY	Northeast Natural Energy LLC	12.5% or Greater	1612	254
F	WV-061-003763-044	HEDE, WALTER	Northeast Natural Energy LLC	12.5% or Greater	1614	526
F	WV-061-003763-045	HEDE, STEVE	Northeast Natural Energy LLC	12.5% or Greater	1616	363
F	WV-061-003763-046	ANTOL, JANET	Northeast Natural Energy LLC	12.5% or Greater	1615	763
F	WV-061-003763-047	WELLS, ALDA KAT	Northeast Natural Energy LLC	12.5% or Greater	1628	325
F	WV-061-003763-048	WELLS, WILDA V.	Northeast Natural Energy LLC	12.5% or Greater	1629	122
F	WV-061-003763-049	COLEMAN, BETH A	Northeast Natural Energy LLC	12.5% or Greater	1634	393
F	WV-061-003763-050	SPENCER, CORDEL	Northeast Natural Energy LLC	12.5% or Greater	1634	396
F	WV-061-003763-051	COLLINS, VANESS	Northeast Natural Energy LLC	12.5% or Greater	1634	399
F	WV-061-003763-052	PRICE, CHAD E	Northeast Natural Energy LLC	12.5% or Greater	1634	404
F	WV-061-003763-053	CRAMER, MELISSA	Northeast Natural Energy LLC	12.5% or Greater	1634	407
F	WV-061-003763-054	RAY, MICHAEL	Northeast Natural Energy LLC	12.5% or Greater	1634	410
F	WV-061-003763-055	HEDE, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1634	413
F	WV-061-003763-056	TALBOT, BYRON J	Northeast Natural Energy LLC	12.5% or Greater	1634	419
F	WV-061-003763-057	TALBOT, DWIGHT	Northeast Natural Energy LLC	12.5% or Greater	1634	429
F	WV-061-003763-058	WELLS, MARSHALL	Northeast Natural Energy LLC	12.5% or Greater	1638	198
F	WV-061-003763-059	SULLIVAN, OLIVI	Northeast Natural Energy LLC	12.5% or Greater	1643	790
F	WV-061-003763-060	FOURNET, LELIA	Northeast Natural Energy LLC	12.5% or Greater	1643	792
F	WV-061-003763-061	WELLS, DAVID LE	Northeast Natural Energy LLC	12.5% or Greater	135	639
F	WV-061-003763-062	ADAMS, MELANIE	Northeast Natural Energy LLC	12.5% or Greater	135	643
F	WV-061-003763-063	BRYAN COLLEGE	Northeast Natural Energy LLC	12.5% or Greater	135	647
F	WV-061-003763-064	WELLS, ADRIAN	Northeast Natural Energy LLC	12.5% or Greater	135	651
F	WV-061-004453-001	STONE, LUCINDA	Northeast Natural Energy LLC	12.5% or Greater	1584	817
F	WV-061-004453-002	KELSEY, SHERRY	Northeast Natural Energy LLC	12.5% or Greater	1584	819
F	WV-061-004453-003	KELSEY, KENNETH	Northeast Natural Energy LLC	12.5% or Greater	1584	821
F	WV-061-004453-004	BINNEY, ERIN	Northeast Natural Energy LLC	12.5% or Greater	1586	552
F	WV-061-004453-005	BINNEY, GAYLE	Northeast Natural Energy LLC	12.5% or Greater	1586	554
F	WV-061-004453-006	BINNEY, KYLE	Northeast Natural Energy LLC	12.5% or Greater	1591	270
F	WV-061-004927-001	BOYCE, WILLIAM	Northeast Natural Energy LLC	12.5% or Greater	1613	306
F	WV-061-004927-002	WALKER, STEPHAN	Northeast Natural Energy LLC	12.5% or Greater	1614	49
F	WV-061-004927-003	AMMONS, DONALD	Northeast Natural Energy LLC	12.5% or Greater	1621	252
F	WV-061-004927-004	MOORE, WORLEY D	Northeast Natural Energy LLC	12.5% or Greater	1622	795
F	WV-061-004950-001	TENNANT, ELIZA	Northeast Natural Energy LLC	12.5% or Greater	1614	587
F	WV-061-004950-002	STEWART, CARL W	Northeast Natural Energy LLC	12.5% or Greater	1618	715
F	WV-061-004957-001	WEST, RICHARD E	Northeast Natural Energy LLC	12.5% or Greater	1614	633
F	WV-061-004957-002	JOHNSON, NANCY	Northeast Natural Energy LLC	12.5% or Greater	1618	374
F	WV-061-004957-003	STEWART, STEVEN	Northeast Natural Energy LLC	12.5% or Greater	1649	282
F	WV-061-005131-001	GANTT, LOU	Northeast Natural Energy LLC	12.5% or Greater	1618	759
G	WV-061-003316-000	TENNANT, OSCIE M.	JOSEPH MCDERMOTT	12.5% or Greater	Leasehold Chain	
H	WV-061-004059-000	MOORE, DANIEL	CHARTIERS OIL CO.	12.5% or Greater	Leasehold Chain	

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Grantor, Lessor, etc.	Grantee, Lessee, etc.	Book Type	Book No.	Page No.
Daniel Moore	Chartiers Oil Co.	Deed	52	24
Chartiers Oil Co.	Monongahela Nat. Gas Co.	Deed	110	394
Monongahela Nat. Gas Co.	Pittsburgh and WV Gas Co.	Deed	138	131
Pittsburgh and WV Gas Co.	William J. Snider	Deed	201	390
William J. Snider	Moore-Tex Oil Co.	Deed	201	406
Moore-Tex Oil Co.	J. H. McDermott Oil Co.	Deed	202	39
J. H. McDermott Oil Co. by Trustee	Consolidation Oil and Gas Co.	Deed	217	324
Consolidation Oil and Gas Co.	Dunn-Mar Oil and Gas Co.	Deed	327	341
Dunn-Mar Oil and Gas Co.	Alco Oil Co.	Deed	837	658
Alco Oil Co.	Greenridge Oil Co.	Assignment	12	651
Greenridge Oil Co.	Noumenon Corp.	Assignment	23	530
Noumenon Corp.	Mark Eddy et al	Assignment	24	85
Mark Eddy et al	Northeast Natural Energy, LLC	Assignment	128	1

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Grantor, Lessor, etc.	Grantee, Lessee, etc.	Book Type	Book No.	Page No.
Oscie M. Tennant by Sp. Comm.	Joseph H. McDermott	Deed	77	451
Joseph H. McDermott	Hope Nat. Gas Co.	Deed	136	338
Joseph H. McDermott	Hope Nat. Gas Co.	Deed	141	119
Hope Nat. Gas Co.	CNG Producing Co.	Assignment	46	626
CNG Producing Co.	http://apps.sos.wv.gov/business/corporations/organization.aspx?org=6055	WV Sec. of State Merger/Name Change	See WV Sec. of State Website (Link Below)	
Antero Resources Appalachian Corp.	Antero Resources Appalachian Corp.	Assignment	102	797
Antero Resources Appalachian Corp.	Northeast Natural Energy, LLC	Assignment	122	56

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4706101843 05/31/2019



northeast
NATURAL ENERGY

April 17, 2019

WV Department of Environmental Protection
Office of Oil and Gas Management
601 57th Street SE
Charleston, WV 25304

Re: Lemley North (1H, 3H, 5H, 7H, and 9H)

Dear Permit Reviewer:

Please be advised that Northeast Natural Energy LLC has the right to drill, extract, and produce the minerals beneath the roads identified as Long Drain Road (22) and Jakes Run Road (29) on the enclosed survey plats.

Sincerely,

Christa A. Dotson
Supervisor – Land Operations Development

Enclosure

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WV Department of
Environmental Protection

4706101843

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

Date of Notice Certification: 04/17/2019

API No. 47- _____

Operator's Well No. 5H

Well Pad Name: Lemley

Notice has been given:

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

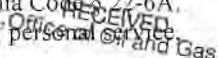
State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>573982.0</u>
County:	<u>Monongalia</u>		Northing:	<u>4391580.2</u>
District:	<u>Clay</u>	Public Road Access:	<u>State Route 22</u>	
Quadrangle:	<u>Blacksville, WV</u>	Generally used farm name:	<u>Lemley</u>	
Watershed:	<u>Dunkard Creek</u>			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>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:</p>	<p>OOG OFFICE USE ONLY</p>
<p>*PLEASE CHECK ALL THAT APPLY</p>	
<p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p>	<p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p>
<p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p>	<p><input checked="" type="checkbox"/> RECEIVED</p>
<p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p>	<p><input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED</p>
<p><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p>	
<p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p>	<p><input checked="" type="checkbox"/> RECEIVED</p>
<p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p>	<p><input type="checkbox"/> RECEIVED</p>
<p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p><input checked="" type="checkbox"/> RECEIVED</p>

Required Attachments:

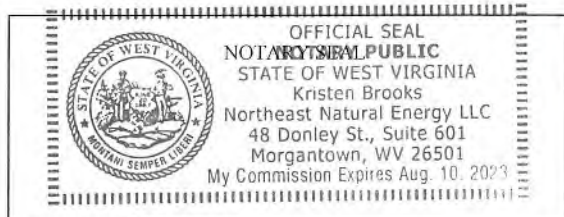
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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


 APR 30 2019
 WV Department of
 Environmental Protection

Certification of Notice is hereby given:

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

Well Operator:	Northeast Natural Energy LLC	Address:	707 Virginia St. E, Suite 1200
By:	Hollie Medley		Charleston, WV 25301
Its:	Regulatory Manager	Facsimile:	304-241-5972
Telephone:	304-212-0422	Email:	hmedley@nne-llc.com



Hollie Medley
 Subscribed and sworn before me this 23rd day of April, 2019.
Kristen Brooks Notary Public
 My Commission Expires Aug. 10, 2023

Oil and Gas Privacy Notice:

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

WW-6A
(9-13)

API NO. 47-**4706101843**
OPERATOR WELL NO. 5H
Well Pad Name: Lemley

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: 4/17/2019 **Date Permit Application Filed:** 4/29/2019

Notice of:

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

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

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

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

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

SURFACE OWNER(s)
Name: Clarence W. Jr. & Charlotte E. Lemley
Address: 239 Lemley Hollow
Core, WV 26529

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: Donald Stull et al
Address: 162 Stull Hollow Road
Core, WV 26541

Name: _____
Address: _____

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

COAL OWNER OR LESSEE
Name: Consol Mining Company LLC
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: William D. Stalter
Address: 578 Long Drain Rd.
Core, WV 26529

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

RECEIVED
Office of Oil and Gas
APR 30 2019
WV Department of
Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

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(8-13)

4706101843
API NO. 47- - 05/31/2019
OPERATOR WELL NO. 5H
Well Pad Name: Lemley

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

WW-6A
(8-13)

4706101843
API NO. 47- - 05/31/2019
OPERATOR WELL NO. 5H
Well Pad Name: Lemley

Notice is hereby given by:

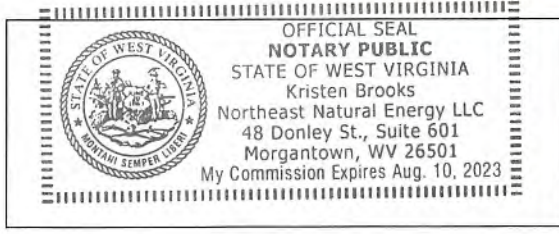
Well Operator: Northeast Natural Energy LLC
Telephone: 304-414-7060
Email: hmedley@nne-llc.com

Address: 707 Virginia St. E., Suite 1200
Charleston, WV 25301
Facsimile: 304-241-5972

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 deprivacyofficer@wv.gov.

Hollie Medley



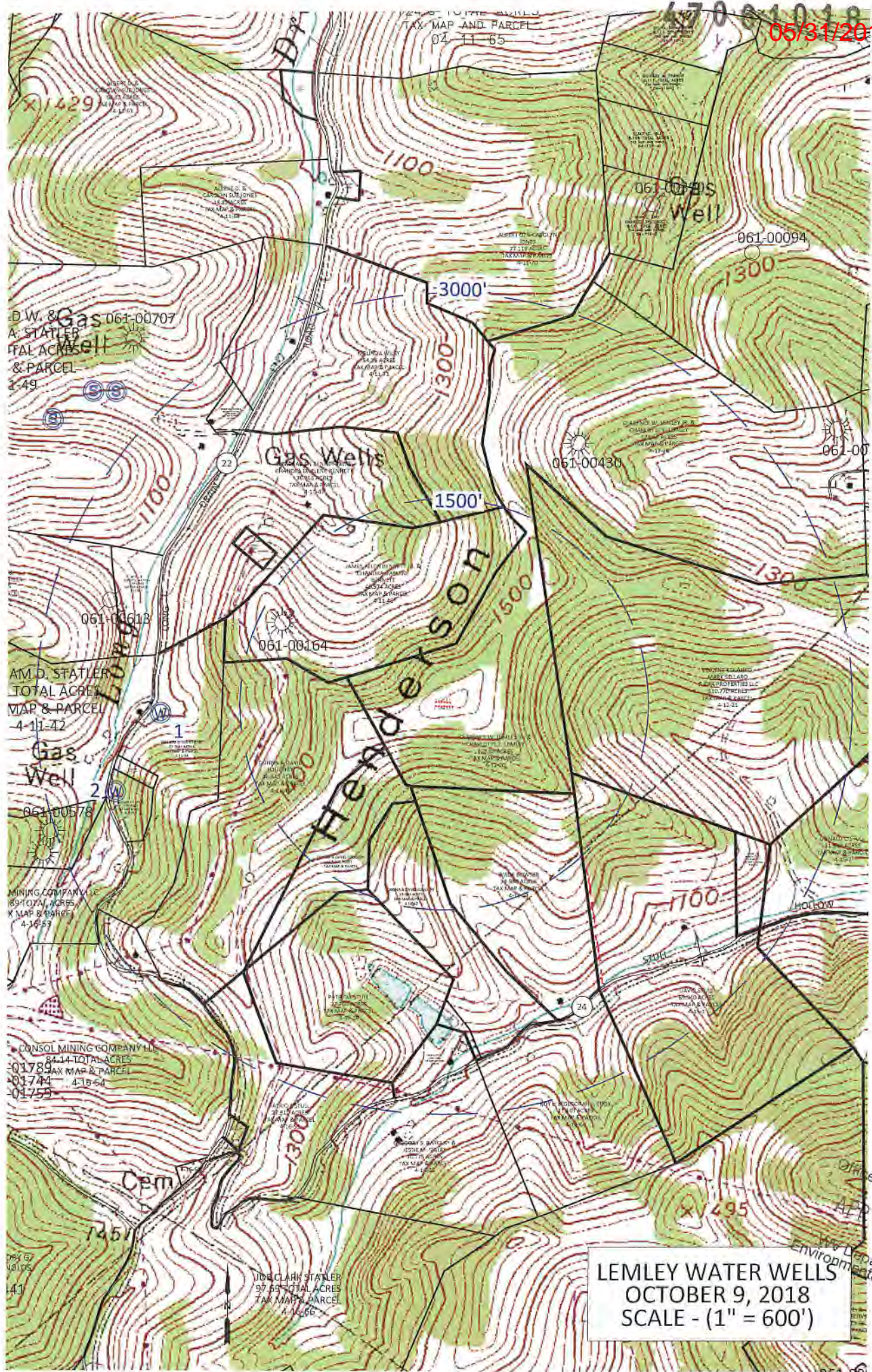
Subscribed and sworn before me this 23rd day of April 2019.

Kristen Brooks Notary Public

My Commission Expires Aug 10, 2023

RECEIVED
Office of Oil and Gas
APR 30 2019
WV Department of
Environmental Protection

470 101843
05/31/2019



X1429

D.W. & A. STATLER
TOTAL ACRES
MAP & PARCEL
4-49

AM & D. STATLER
TOTAL ACRES
MAP & PARCEL
4-11-42

MINING COMPANY LLC
89.107 ACRES
MAP & PARCEL
4-16-83

CONSOL MINING COMPANY LLC
84.14 TOTAL ACRES
MAP & PARCEL
4-17-84
4-17-84
4-17-84

DEPT OF
MAYORS

JIM CLARK STATLER
97.65 TOTAL ACRES
MAP & PARCEL
4-16-86

LEMLEY WATER WELLS
OCTOBER 9, 2018
SCALE - (1" = 600')

RECEIVED
Office of Oil and Gas
APR 30 2019
Department of
Environmental Protection

WW-6A3
(1/12)

Operator Well No. Lemley

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry

Date of Notice: July 2, 2018 Date of Planned Entry: July 13, 2018

Delivery method pursuant to West Virginia Code § 22-6A-10a

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

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)

Name: see attached
 Address: _____

 Name: _____
 Address: _____

 Name: _____
 Address: _____

COAL OWNER OR LESSEE

Name: see attached
 Address: _____

MINERAL OWNER(s)

Name: see attached
 Address: _____

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>39.670947, -80.137361</u>
County: <u>Monongalia</u>	Public Road Access: <u>Long Drain Road (CR 22)</u>
District: <u>Clay</u>	Watershed: <u>Dunkard Creek</u>
Quadrangle: <u>Blacksville</u>	Generally used farm name: <u>Lemley</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: <u>Northeast Natural Energy LLC</u>	Address: <u>707 Virginia Street East, Suite 1200</u>
Telephone: <u>304.212.0422</u>	<u>Charleston, WV 25301</u>
Email: <u>hmedley@nne-llc.com</u>	Facsimile: <u>304.241.5972</u>

Oil and Gas Privacy Notice:

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 Environmental Protection

Ownership Type	Name	Address	Core	State	Zip
Surface Owner	Clarence W. Lemley Jr. and Charlotte E. Lemley	239 Lemley Hollow	Core	WV	26541
Coal Owner	CNX RCPC LLC	CNX Center, 1000 Consol Energy Drive	Canonsburg	PA	15317
Coal Owner	Murray American Energy Inc.	46226 National Road	St. Clairsville	OH	43950
Mineral Owner	William Henderson	P.O. Box 73	Pursglove	WV	26546
Mineral Owner	William B. Core	626 Lakes Drive	Tahlequah	OK	74464
Mineral Owner	Stephanie Ann McCarver	915 West Broad Street	Griffin	GA	30223
Mineral Owner	Sheila Cosner	19 Terrace View Drive	Morgantown	WV	26508
Mineral Owner	Shawna Charvat	67 West 14th Street	Ashland	OH	44805
Mineral Owner	Rose Marie Stewart Malott	2942 Little Indian Creek Road	Core	WV	26570
Mineral Owner	Ronald Lee Veselenak	61642 Patton Hollow Road	Cambridge	OH	43725
Mineral Owner	Ronald L. Eddy	447 NE Canoe Park Circle	Port St. Lucie	FL	34983
Mineral Owner	Paula Kay Jenkins	3890 Mason Dixon Highway	Core	WV	26541
Mineral Owner	Pachira Energy, LLC	5150 North Tamiami Trail; Newgate Tower, Suite 205	Naples	FL	34103
Mineral Owner	Lloyd M. Lohr	243 Haines Ridge Road	Mount Morris	PA	15349
Mineral Owner	Linda Lou Hinebaugh Hickman	P.O. Box 344	Waynesburg	PA	15370
Mineral Owner	Leroy Tennant	2960 Little Indian Creek Road	Core	WV	26541
Mineral Owner	Larry Henderson	419 Henderson Hollow Road	Core	WV	26541
Mineral Owner	Larry and Nora Lou Dodd	P.O. Box 186	Colliers	WV	26035
Mineral Owner	Keith A. Tennant	131 West First Street	Westover	WV	26501
Mineral Owner	June Core Myers Living Trust	332 Oakland Street	Morgantown	WV	26505
Mineral Owner	Judith McClesy	P.O. Box 133	Buffalo	OH	43722
Mineral Owner	Jesse James Henderson	5583 Treetop Court	Parma	OH	44134
Mineral Owner	Jennifer Lee Henderson	67 West 14th Street	Ashland	OH	44805
Mineral Owner	Christopher Allen Tyner	1810 Nichols Road	Akron	OH	44312
Mineral Owner	Charles Lawrence Core	3450 N. Commerce Street; Apt. 604	Ardmore	OK	73401
Mineral Owner	Beverly J. Core	1159 Smokey Drain Road	Core	WV	26541
Mineral Owner	Alpheus M. Henderson	260 Henderson Hollow Road	Core	WV	26541

WW-6A4
(1/12)

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: 04/17/2019 **Date Permit Application Filed:** 04/29/2019

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

HAND DELIVERY CERTIFIED MAIL
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: Clarence W Jr & Charlotte E Lemley ✓

Address: 239 Lemley Hollow
Core WV 26529

Name: _____

Address: _____

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: <u>West Virginia</u>	UTM NAD 83	Easting: <u>573982.0</u>
County: <u>Monongalia</u>		Northing: <u>4391580.2</u>
District: <u>Clay</u>	Public Road Access: <u>County Route 22/Long Drain Road</u>	
Quadrangle: <u>Blacksville</u>	Generally used farm name: <u>Lemley</u>	
Watershed: <u>Dunkard Creek</u>		

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: Northeast Natural Energy LLC
Address: 707 Virginia St. E., Suite 1200
Charleston, WV 25301
Telephone: 304-414-7060
Email: hmedley@nne-llc.com
Facsimile: 304-241-5972

Authorized Representative: _____
Address: _____
Telephone: _____
Email: _____
Facsimile: _____

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OFFICE OF OIL AND GAS
APR 30 2019
WV Department of
Environmental Protection

WW-6A5
(1/12)

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

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

Date of Notice: 04/17/2019 **Date Permit Application Filed:** 04/29/2019

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: Clarence W. Jr. & Charlotte E. Lemley	Name: _____
Address: 239 Lemley Hollow	Address: _____
Core, WV 26529	

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	UTM NAD 83	Easting: 573982.0
County: Monongalia		Northing: 4391580.2
District: Clay	Public Road Access: County Road 22/Long Drain Rd	
Quadrangle: Blacksville	Generally used farm name: Lemley	
Watershed: Dunkard Creek		

This Notice Shall Include:

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

Well Operator: Northeast Natural Energy LLC	Address: 707 Virginia St. E., Suite 1200
Telephone: 304-414-7060	Charleston, WV 25301
Email: hmedley@nne-llc.com	Facsimile: 304-241-5972

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4706101843 05/31/2019



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

January 30, 2019

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 Lemley Pad, Monongalia County

Lemley 5H

Dear Mr. Martin,

This well site will be accessed from a permit #04-2018-1373 issued to Northeast Natural Energy Corporation for access to the State Road for a well site located off of Monongalia Route 22 SLS.

The operator has signed a DISTRICT WIDE 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 revised October 1, 2018.

Very Truly Yours,

A handwritten signature in blue ink that reads "Gary K. Clayton".

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

Cc: Kristen Brooks
Northeast Natural Energy Corporation
CH, OM, D-4
File

Planned Additives to be used in Fracturing Stimulations

Trade Name	Purpose	Ingredients	Chemical Abstract Service Nummer (CAS#)
Water	Carrier	Water	7732-18-5
HCl, 10.1-15%	Acidizing	Hydrochloric Acid Water	7647-01-0 7732-18-5
Alpha 1427	Biocide	Alkyl Dimethyl Benzyl Ammonium Chloride (C12-16) Ethanol Glutaraldehyde Quaternary Ammonium Chloride Water	68424-85-1 64-17-5 111-30-8 7173-51-5 7732-18-5
Enzyme G-NE	Breaker	Hemicellulase Enzyme Concentrate Water	9025-56-3 7732-18-5
Cl-14	Corrosion Inhibitor	Fatty Acids Methanol Olefin Polyoxyalkylenes Propargyl Alcohol	NA 67-56-1 NA NA 107-19-7
GW-3LDF	Gelling Agent	Guar Gum Petroleum Distillate Blend	9000-30-0 CBI
FRW-18	Friction Reducer	Hydrotreated Light Distillate	64742-47-8
Ferrotrol 300L	Iron Control	Citric Acid	77-92-9
Sand, White, 40/70	Proppant	Cystalline silica (Quartz)	14808-60-7
Sand, White, 100 mesh	Proppant	Cystalline silica (Quartz)	14808-60-7
Scaletrol 720	Scale Inhibitor	Diethylene Glycol	111-46-6

RECEIVED
Office of Oil and Gas
APR 30 2019
WV Department of
Environmental Protection

APPROVED
WVDEP OOG
3/26/2019

LEMLEY WELL PAD SITE PLAN NORTHEAST NATURAL ENERGY

LAT./LONG: N 39.66956° W -80.139113°
(APPROXIMATE CENTER OF PROJECT)

SHEET INDEX

1. COVER SHEET	10. SITE PLAN	19. DETAILS
2. GENERAL NOTES	11. SITE PLAN	20. DETAILS
3. MATERIAL QUANTITIES	12. WATER OPERATIONS	21. DETAILS
4. MASTER LEGEND	13. PROFILES AND SECTIONS	22. RECLAMATION PLAN
5. EXISTING CONDITIONS	14. PROFILES AND SECTIONS	23. RECLAMATION PLAN
6. SITE PLAN	15. PROFILES AND SECTIONS	24. RECLAMATION PLAN
7. SITE PLAN	16. PROFILES AND SECTIONS	25. RECLAMATION PLAN
8. SITE PLAN	17. PROFILES AND SECTIONS	25. RECLAMATION PLAN
9. SITE PLAN	18. DETAILS	

LOCAL EMERGENCY SERVICES

NAME	TELEPHONE NO.
AMBUCLANCE	911
HOSPITAL EMERGENCY ROOM	0049 234-0193
FIRE DEPARTMENT	911
POLICE DEPARTMENT	911
POISON CONTROL CENTER	1-800-222-1222

FLOOD PLAIN CONDITIONS

DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN	NO
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR	NO
REG-443 SLIDY COMPLETED	NA
FLOODPLAIN SHOWN ON DRAWINGS	NA
FEMA MAP NUMBER(S) FOR SITE	14551C007E
INCREASE OF CONSTRUCTION IN FLOODPLAIN	0.00 AC



LOCATION COORDINATES

SITE LOCATIONS	NAD83 (NORTH ZONE)	UTM83-17		
	LATITUDE	LONGITUDE	NORTHING	EASTING
MAIN ACCESS ROAD ENTRANCE	39.655146	-80.144298	4309942.597	573298.547
CENTER OF WELL PAD	39.670940	-80.137423	4315913.517	573983.769
CENTER OF CONTAMINANT TANK 1	39.671120	-80.137111	4316333.797	574208.166
CENTER OF CONTAMINANT TANK 2	39.671483	-80.136786	4316521.157	574236.098
CENTER OF CONTAMINANT TANK 3	39.671201	-80.136749	4316270.848	574239.566

GRADING VOLUMES

DESCRIPTION	CUT (CY)	FILL (CY)	NET (CY)
MAIN ACCESS ROAD	18.033	21.623	-3.590
WELL PAD	49.819	43.810	6.009
SPOIL-1	0	1.918	-1.918
SPOIL-2	0	323	-323
TOTAL	67.843	67.843	0

TOPSOIL/STRIPPING (20% WELL - 17,034 C.Y.) 14,378 C.Y.

L.O.D. AREAS

DESCRIPTION	ACRES
MAIN ACCESS ROAD	9.94
WELL PAD	8.21
TOPSOIL/STRIPPING PILE 1	1.71
SPOIL PILE 1	0.45
SPOIL PILE 2	0.23
CLEARING AND GRUBBING AREA	3.19
TOTAL	23.73

PROJECT CONTACTS:

OPERATOR:
NORTHEAST NATURAL ENERGY LLC
14 SODLEY STREET, STE 604
MOUNTAIN TOP, WV 26041

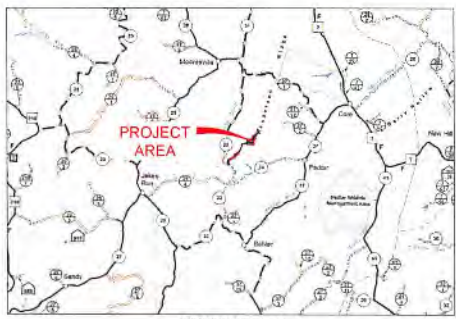
SALE/ACQUISITION - CIVIL ENGINEERING MANAGER:
DAVE WOODLAND - CIVIL ENGINEERING MANAGER
OFFICE: 204-241-2232 CELL: 204-84-6233

ENGINEER SURVEYOR:
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
JOSEPH D. ROBINSON, PE - PRINCIPAL/SURVEYOR
OFFICE: 204-241-2119 FAX: 204-833-3337 CELL: 204-84-6233

ENVIRONMENTAL:
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
JACQUELYN KESTER - SENIOR PROJECT MANAGER
OFFICE: 204-241-2119 FAX: 204-833-3337 CELL: 204-84-6233

GEOTECHNICAL:
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
KIM ESHLIN - PROJECT MANAGER
OFFICE: 204-241-2119 FAX: 204-833-3337 CELL: 204-84-6233

LOCATION MAP
BLACKSBURG USGS 7.5 QUAD
SCALE IN FEET
1 INCH = 1,000 FEET



VICINITY MAP
MONONGALIA COUNTY ROAD MAP
SCALE IN FEET
1 INCH = 1 MILE

PLAN REPRODUCTION WARNING

THE PLANS HAVE BEEN CREATED ON A 24" X 36" SHEET. FOR REPRODUCTION, REFER TO GRAPHIC SCALE.

THE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.

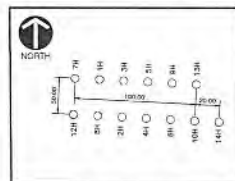
WARNING INFORMATION MAY BE LOST IN COPYING AND/OR SMALL SCALE PLOTTINGS.

LIMITS OF DISTURBANCE PARCEL BREAK UPS - LEMLEY WELL PAD

OWNER	TM-PARCEL	DEED-PAGE	TOTAL ACRES	TYPE OF DISTURBANCE	ACRAGE
STULL DONALD ET AL	11-45	109-4-109	48.85	MAIN ACCESS ROAD	9.71
				PARCEL TOTAL	9.71
LEMLEY CLARENCE W JR & CHARLOTTE E	11-72	710-311	77.69	MAIN ACCESS ROAD	0.23
				WELL PAD	8.21
				TOPSOIL/STRIPPING PILE 1	1.71
				SPOIL PILE 1	0.45
				SPOIL PILE 2	0.23
				CLEARING AND GRUBBING AREA	3.19
				PARCEL TOTAL	14.02

MINE INFORMATION

MINE ID:	381841A
MINE NAME:	ORAGE No. 3
COMPANY:	CONSOLIDATION COAL



WELL RESTRICTIONS CHECKLIST (HORIZONTAL 9A WELL)

RESTRICTION	YES	NO
AT LEAST 100 FEET FROM PAD AND LDD (INCLUDING ANY EAS CONTROL FEATURE) TO ANY PERMANENT STREAM, LAKE, POND, RESERVOIR OR WETLAND	YES	
AT LEAST 300 FEET FROM PAD AND LDD (INCLUDING ANY EAS CONTROL FEATURE) TO ANY NATURALLY PRODUCING 'DROU' STREAM	YES	
AT LEAST 1000 FEET FROM PAD AND LDD (INCLUDING ANY EAS CONTROL FEATURE) TO ANY GAS/WATER FEATURE OR PORE WATER SUPPLY	YES	
AT LEAST 200 FEET FROM AN EXISTING WATER WELL OR DEVELOPED SPRING TO WELL BEING DRILLED	YES	
AT LEAST 400 FEET FROM AN OCCUPIED DWELLING STRUCTURE TO CENTER OF PAD	YES	
AT LEAST 400 FEET FROM AN AGRICULTURAL BUILDING LARGER THAN 2800 SQUARE FEET TO THE CENTER OF THE PAD	YES	



REVISION RECORD

NO.	DATE	DESCRIPTION
1		ISSUE FOR PERMITTING
2		ISSUE FOR PERMITTING
3		ISSUE FOR PERMITTING
4		ISSUE FOR PERMITTING
5		ISSUE FOR PERMITTING
6		ISSUE FOR PERMITTING
7		ISSUE FOR PERMITTING
8		ISSUE FOR PERMITTING
9		ISSUE FOR PERMITTING
10		ISSUE FOR PERMITTING
11		ISSUE FOR PERMITTING
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21		ISSUE FOR PERMITTING
22		ISSUE FOR PERMITTING
23		ISSUE FOR PERMITTING
24		ISSUE FOR PERMITTING
25		ISSUE FOR PERMITTING

Civil & Environmental Consultants, Inc.
600 Marketplace Ave - Suite 400 - Bridgeport, WV 26330
Ph: 204-993-3119 - 855-488-8539 - Fax: 204-993-3337
www.civenc.com

**NORTHEAST NATURAL ENERGY
LEMLEY WELL PAD
CLAY DISTRICT
MONONGALIA CO, WEST VIRGINIA**

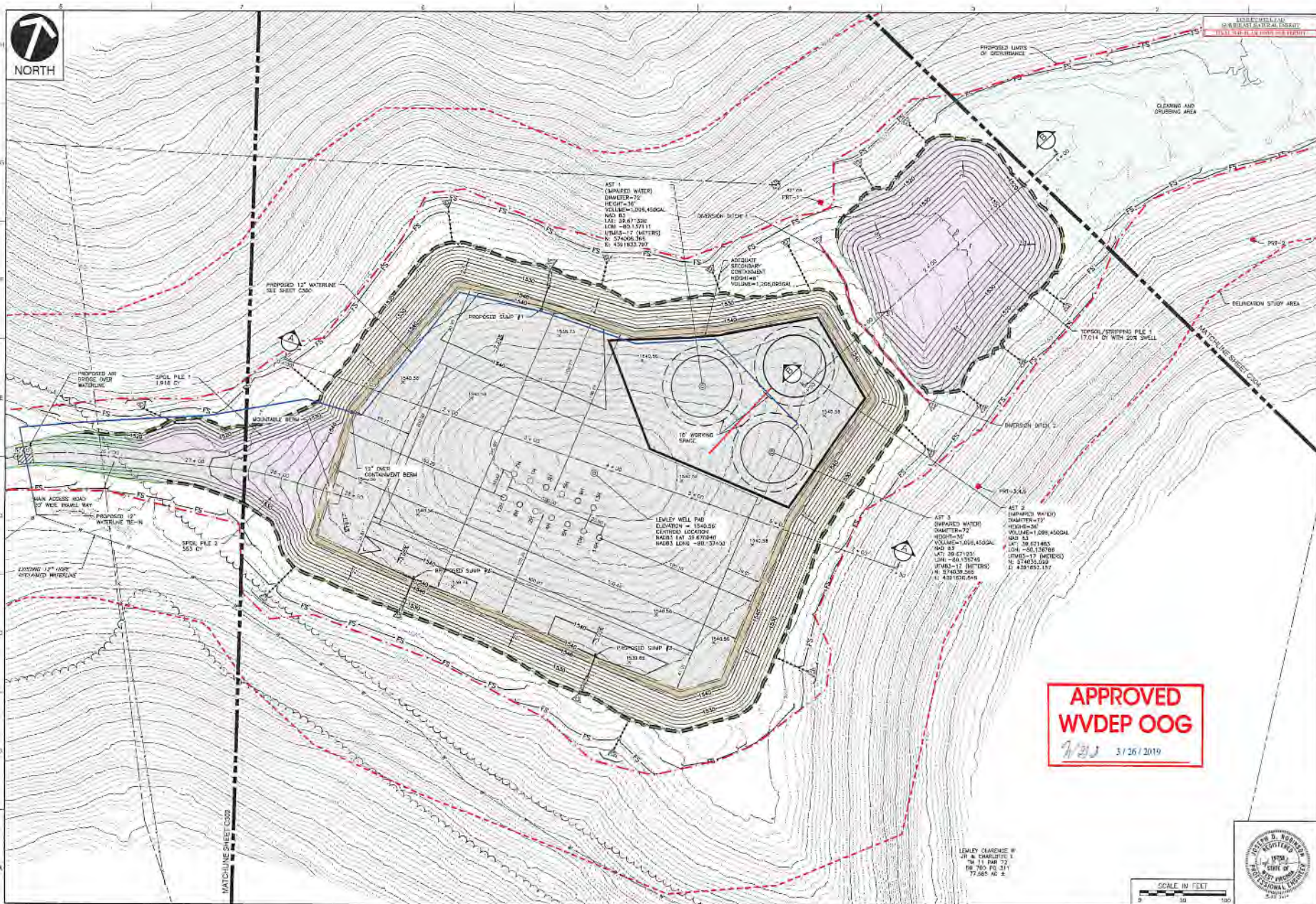
COVER SHEET

DATE: APR 30 2019
DRAWN BY: [Name]
CHECKED BY: [Name]
SCALE: AS SHOWN
PROJECT NO: [Number]
DRAWING NO: [Number]

C000

SHEET 1 OF 2

RECEIVED
Office of Oil and Gas
APR 30 2019
Department of Environmental Protection



NO.	DATE	DESCRIPTION
1	12/10/18	ISSUED FOR PERMIT
2	03/26/19	APPROVED WV DEP OOG

CEE
Civil & Environmental Consultants, Inc.
 400 Marketplace Ave - Suite 200 - Bridgeport, WV 26330
 PH: 304-333-3119 - FAX: 304-333-3327
 WWW.CEECONSULTANTS.COM

NORTHEAST NATURAL ENERGY
LEMLEY WELL PAD
CLAY DISTRICT
MONONGALIA CO, WEST VIRGINIA

NO.	DATE	DESCRIPTION
1	08/01/18	ISSUED FOR PERMIT
2	03/26/19	APPROVED WV DEP OOG

APPROVED WV DEP OOG
 3/26/2019



LEMLEY GARDENS W
 41 & CHARLOTTE L
 78 11 PAR 2
 PG 700 PG 314
 77,885 AC ±