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 west virginia department of environmental protection
 

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, June 10, 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 12H  
 47-061-01848-00-00

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 12H  
 Farm Name: CLARENCE W. LEMLEY JR.   
 U.S. WELL NUMBER: 47-061-01848-00-00  
 Horizontal 6A New Drill  
 Date Issued: 6/10/2019

**PERMIT CONDITIONS**

4706101848

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.

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**CONDITIONS**

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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

4706101848

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

API NO. 47- \_\_\_\_\_ - \_\_\_\_\_  
OPERATOR WELL NO. 12H  
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 | 494498281 | Monongalia | Clay | Blacksville, WV  
Operator ID County District Quadrangle

2) Operator's Well Number: 12H 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 X Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
Other \_\_\_\_\_

(b) If Gas Shallow X Deep \_\_\_\_\_  
Horizontal X \_\_\_\_\_

*ZAK* 5/30/19

6) Existing Pad: Yes or No No

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: 22,873'

11) Proposed Horizontal Leg Length: 13,323'

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 X

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

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4706101848 06/14/2019

WW-6B  
(04/15)

API NO. 47- \_\_\_\_\_ - \_\_\_\_\_  
 OPERATOR WELL NO. 12H \_\_\_\_\_  
 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	22,903'	22,873'	5402 cu ft.
Tubing							
Liners							

*ZAK* 5/30/19

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:				

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Environmental Protection

WW-6B  
(10/14)

API NO. 47- \_\_\_\_\_ - \_\_\_\_\_  
 OPERATOR WELL NO. 12H \_\_\_\_\_  
 Well Pad Name: Lemley \_\_\_\_\_

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 5,600 TVD/MD. The well will then be horizontally drilled on synthetic based mud from the KOP to approximately 8,206 TVD/22,873' MD along a 147° 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

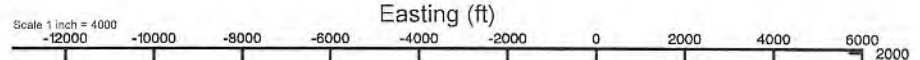
Location: Monongalia County, WV  
 Field: Monongalia  
 Facility: Lemley Pad

Slot: Slot 12H  
 Well: Lemley 12H  
 Wellbore: Lemley 12H PWB

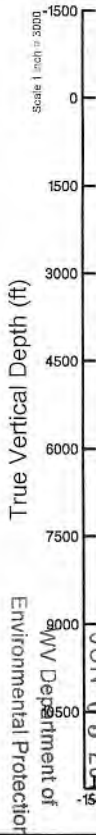


Plot reference wellpath is Lemley 12H PWP Ex-02	Grid System: NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet
True vertical depths are referenced to Rig on Slot 12H (RKB)	North Reference: Grid north
Measured depths are referenced to Rig on Slot 12H (RKB)	Scale: True distance
Rig on Slot 12H (RKB) to Mean Sea Level: 1550 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: Slot 12H): -1534 feet	Created by: atenjen on 2019-04-17
Coordinates are in feet referenced to Slot	Database: WA_MPL_EASTERNUS_DeIn

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



Tie On : 16.00ft TVD, 0.00ft N, 0.00ft E  
 End of Build : 6014.47ft TVD, 47.41ft S, 170.91ft W  
 End of Tangent : 5600.00ft TVD, 0.00ft N, 0.00ft E  
 End of Tangent : 7716.18ft TVD, 524.03ft S, 1888.97ft W  
 End of 3D Arc : 8206.50ft TVD, 1260.31ft S, 2002.43ft W  
 Lemley 12H LP Rev-1



Tie On : 0.00° Inc, 16.00ft MD, 16.00ft TVD, 0.00ft VS

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'

End of Tangent : 0.00° Inc, 5600.00ft MD, 5600.00ft TVD, 0.00ft VS  
 10.00°/100ft  
 End of Build : 46.34° Inc, 6063.35ft MD, 6014.47ft TVD, -51.84ft VS

End of Tangent : 46.34° Inc, 8528.04ft MD, 7716.18ft TVD, -572.98ft VS  
 10.00°/100ft

Lemley 12H LP Rev-1  
 End of 3D Arc : 90.00° Inc, 9550.11ft MD, 8206.50ft TVD, -12.97ft VS

Lemley 12H BHL Rev-1  
 End of Tangent : 90.00° Inc, 22873.37ft MD, 8206.50ft TVD, 13304.74ft VS

Lemley 12H IP 1 Rev-1  
 End of Tangent : 90.00° Inc, 19550.11ft MD, 8206.50ft TVD, 9987.03ft VS  
 End of 3D Arc : 90.00° Inc, 19908.40ft MD, 8206.50ft TVD, 10344.39ft VS  
 End of Tangent : 90.00° Inc, 20073.41ft MD, 8206.50ft TVD, 10508.11ft VS  
 End of 3D Arc : 90.00° Inc, 20663.16ft MD, 8206.50ft TVD, 11096.67ft VS  
 End of Tangent : 90.00° Inc, 21241.92ft MD, 8206.50ft TVD, 11673.54ft VS  
 End of 3D Arc : 90.00° Inc, 21473.37ft MD, 8206.50ft TVD, 11904.74ft VS

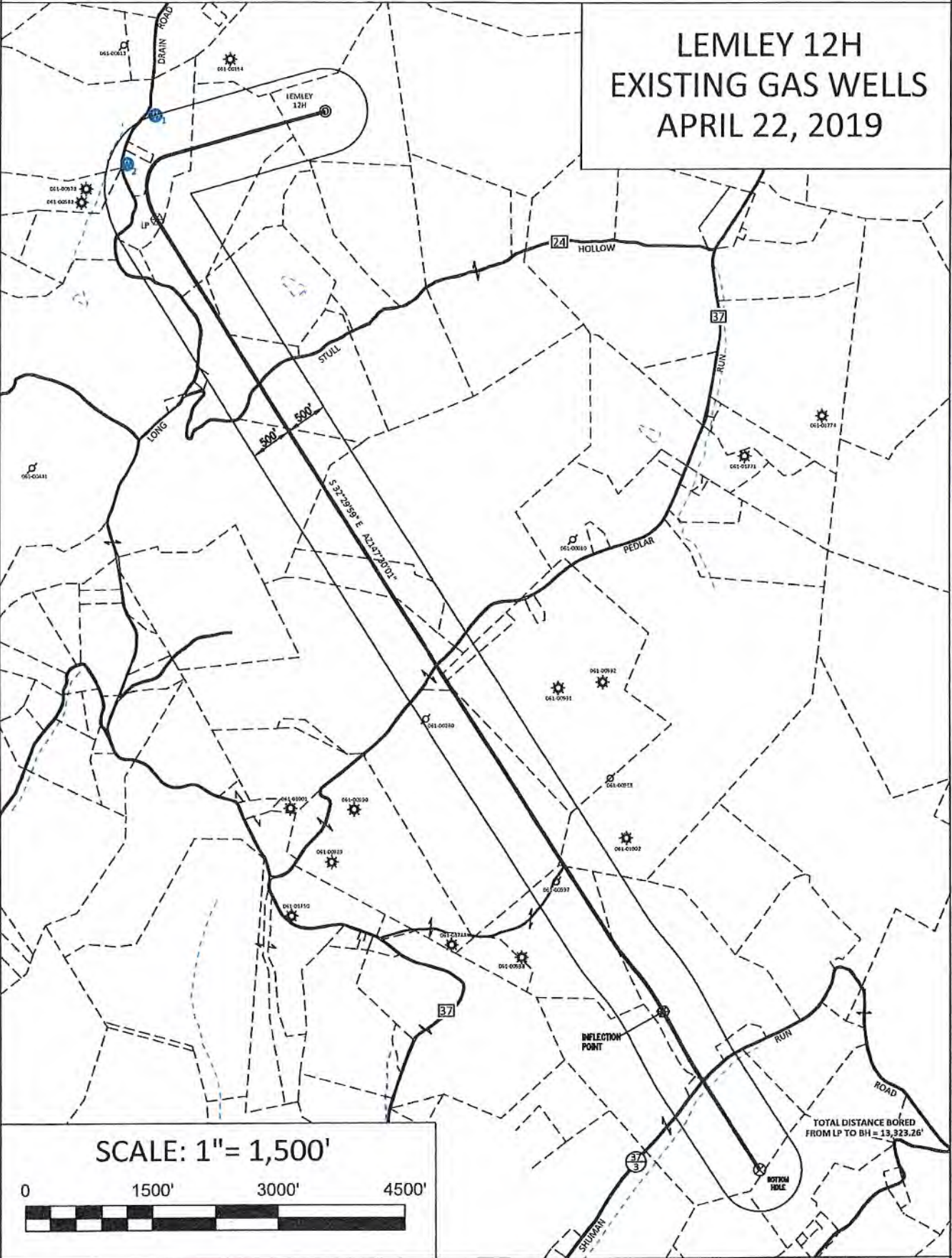
End of Tangent : 8206.50ft TVD, 9694.22ft S, 3370.57ft E  
 End of 3D Arc : 8206.50ft TVD, 9983.59ft S, 3581.45ft E  
 End of Tangent : 8206.50ft TVD, 10110.61ft S, 3686.78ft E  
 End of 3D Arc : 8206.50ft TVD, 10600.00ft S, 4014.00ft E  
 Lemley 12H IP 1 Rev-1  
 End of Tangent : 8206.50ft TVD, 11111.63ft S, 4284.56ft E  
 End of 3D Arc : 8206.50ft TVD, 11311.64ft S, 4400.90ft E  
 End of Tangent : 8206.50ft TVD, 12492.39ft S, 5153.12ft E  
 Lemley 12H BHL Rev-1

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Vertical Section (ft)  
 Azimuth 147.50° with reference 0.00 N, 0.00 E  
 Scale 1 inch = 3000

4706101848

# LEMLEY 12H EXISTING GAS WELLS APRIL 22, 2019





Lemley 12H Area of Review

API Number	Well Name	Well Number	Operator	Latitude (NAD 27)	Longitude (NAD 27)	TMP	TVD	Comments
47-061-00997	NP Fetty	3	NINE Resources LLC	39.645970	-80.12767	4-22-1	2,400'	Plugged 1/28/16
47-061-00280	Guy L Neely	10	Pennzoil Company	39.651216	-80.133192	4-16-80	2,043'	Water Intake Well

WW-9  
(4/16)

API Number 47 - \_\_\_\_\_ - \_\_\_\_\_  
Operator's Well No. Lemley 12H

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

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Office of Oil and Gas  
MAY 9 2019

Subscribed and sworn before me this 23rd day of April, 2019, 20\_\_\_\_  
Kristen Brooks  
My commission expires Aug 10, 2023

WV-Department of Environmental Protection  
OFFICIAL SEAL  
NOTARY PUBLIC  
STATE OF WEST VIRGINIA  
Kristen Brooks  
Northeast Natural Energy LLC  
48 Donley St., Suite 601  
Morgantown, WV 26501  
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: *Haynes J. Knitow*

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 12H 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 12H 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 12H

### SITE SAFETY PLAN

April 2019

*Erin J. Kimball*  
4/26/2019

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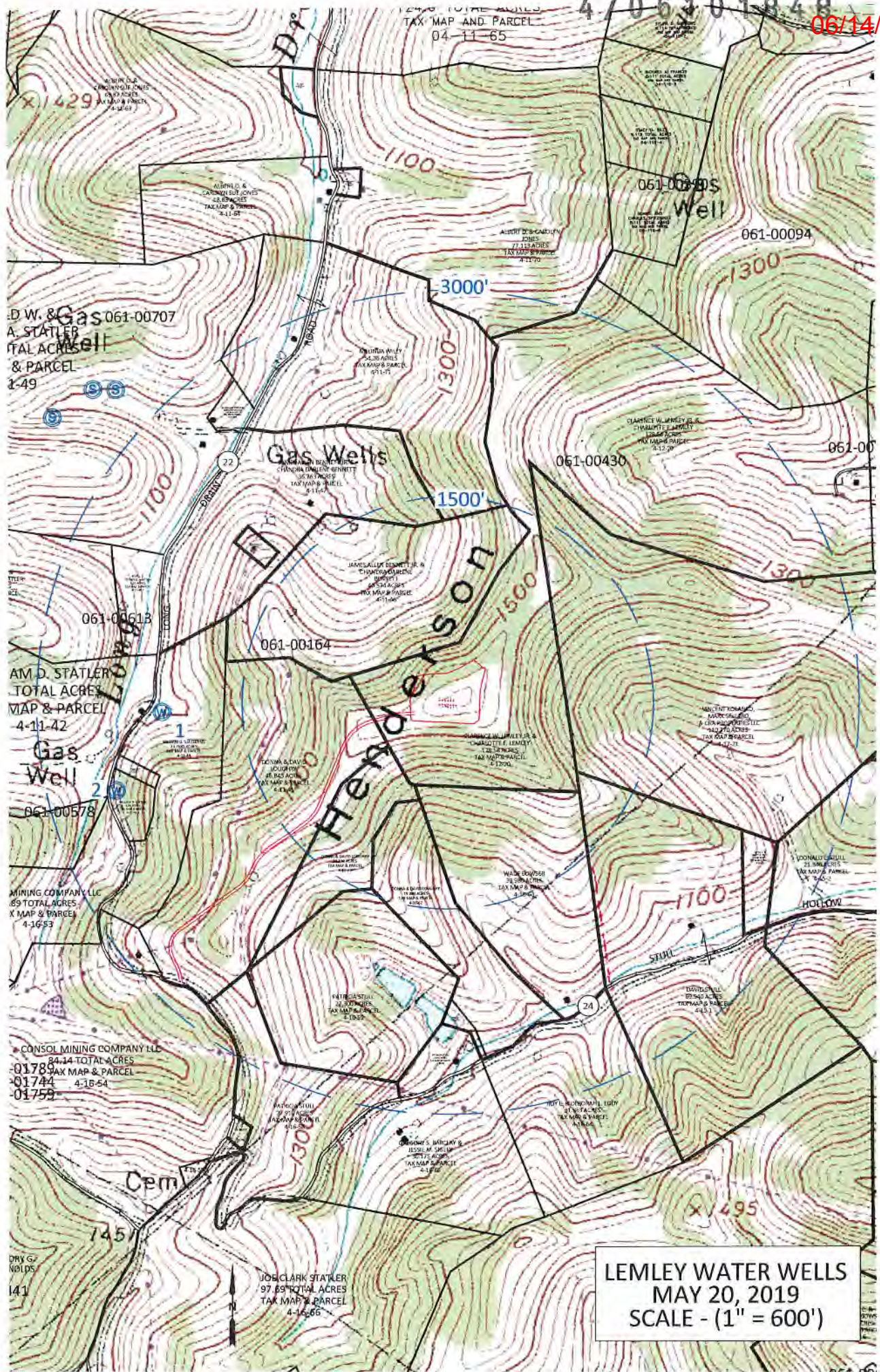
MAY 9 2019

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06/14/2019

TAX MAP AND PARCEL  
04-11-65



X/429

D W. & A. STATLER  
GAS WELL & PARCEL  
1-49

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

Gas Well  
061-00578

MINING COMPANY LLC  
89 TOTAL ACRES  
X MAP & PARCEL  
4-16-53

CONSOL MINING COMPANY LLC  
84.14 TOTAL ACRES  
01789 TAX MAP & PARCEL  
01744 4-16-54  
01759

DRY CREEK  
WOLDS  
141

JOE CLARK STATLER  
97.69 TOTAL ACRES  
TAX MAP & PARCEL  
4-16-66

LEMLEY WATER WELLS  
MAY 20, 2019  
SCALE - (1" = 600')

SURFACE HOLE DEC. LONG: 80.137851  
SURVEYED LONG: 80°08'15.3"

3,600'

Latitude: 39° 42' 30" (NAD27)

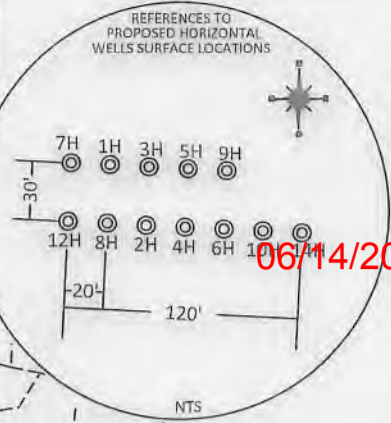
Latitude: 80° 07' 30" (NAD27)

SURFACE HOLE DEC. LAT: 39°40'14.5"  
SURVEYED LAT: 39°40'14.5"

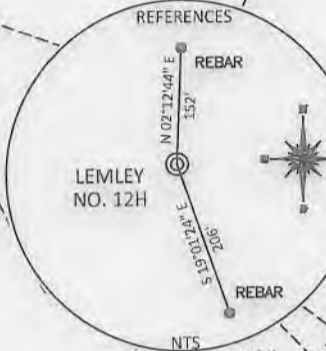
NOTE:  
NO WATER WELLS WERE FOUND WITHIN 250' OF THE CENTER OF WELL PAD.  
NO DWELLINGS WERE FOUND WITHIN 825' OF THE CENTER OF WELL PAD.

TOTAL DISTANCE BORED FROM LP TO BH = 13,323.26'

TOP HOLE (UTM NAD 83)  
N) 4381371.7  
E) 573955.4  
BOTTOM HOLE (UTM NAD 83)  
N) 4387792.0  
E) 573956.9



06/14/2019

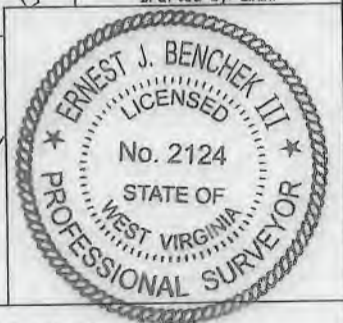


REFERENCE NOTES  
Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records MONONGALIA County, West Virginia 2019  
State Plane Coordinates & NAD 83 Lat/Long by differential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

WELL REFERENCE (API#, DISTANCE TO LATERAL)  
1. 061-00164 N 61°45'43" W 1285'  
2. 061-00430

FILE #: NEE14  
DRAWING #: 2908  
SCALE: PLAT: 1" = 2000'  
TICK MARK: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: 1/200  
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING 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 WYDEP  
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:  
DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
PLUG OFF FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY):  
TARGET FORMATION: MARCELLUS  
WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC  
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200  
CITY: CHARLESTON STATE: WV ZIP CODE: 25301  
DATE: APRIL 26, 2019  
OPERATOR'S WELL #: LEMLEY 12H  
API WELL #: 47 61  
STATE COUNTY PERMIT  
CURRENT PROPOSED  
ELEVATION: 1,560' ELEVATION: 1,540.56'  
QUADRANGLE: BLACKSVILLE, WV  
ACREAGE: 128.58 +/-  
ACREAGE: 1425.341 +/-  
ESTIMATED DEPTH: TVD: 8,206.50' TMD: 22,194.13  
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 12H

**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

RECEIVED  
Office of Oil and Gas  
MAY 9 2019  
WV Department of  
Environmental Protection

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

Well Operator: Northeast Natural Energy  
 By: Hollie Medley  
 Its: Regulatory Manager



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-061-004263-001	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
A	WV-061-004308-001	CORE, WILLIAM B	Northeast Natural Energy LLC	12.5% or Greater	1644	9
B, E	WV-061-001291-003	STATLER, DORIS	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1376	107
B, E	WV-061-001291-003	Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC	12.5% or Greater	120	769
B, E	WV-061-001291-005	HANULA TRUST	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1407	298
B, E	WV-061-001291-005	Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC	12.5% or Greater	120	769
B, E	WV-061-001291-018	BANE, JANET S.	Northeast Natural Energy LLC	12.5% or Greater	1507	244
B, E	WV-061-001291-020	VARNER, MARTIN	Northeast Natural Energy LLC	12.5% or Greater	1614	605
B, E	WV-061-001291-021	KING, RONALD ET	Northeast Natural Energy LLC	12.5% or Greater	1634	483
B, E	WV-061-001291-022	TENNANT, HARRY	Northeast Natural Energy LLC	12.5% or Greater	1633	336
B, E	WV-061-003682-001	ASHCRAFT, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1547	801
B, E	WV-061-003682-002	ASHCRAFT, RICKY	Northeast Natural Energy LLC	12.5% or Greater	1548	262
B, E	WV-061-003682-003	CRANE, SHIRLEY	Northeast Natural Energy LLC	12.5% or Greater	1545	778
B, E	WV-061-003682-004	ASHCRAFT, DUSTI	Northeast Natural Energy LLC	12.5% or Greater	1548	258
B, E	WV-061-003682-005	ASHCRAFT, DAYTO	Northeast Natural Energy LLC	12.5% or Greater	1545	782
B, E	WV-061-003682-006	ASHCRAFT, JOHN	Northeast Natural Energy LLC	12.5% or Greater	1545	328
B, E	WV-061-003682-007	ASHCRAFT, CHARL	Northeast Natural Energy LLC	12.5% or Greater	1550	367
B, E	WV-061-004317-001	KETCHEM, JOYCE	Northeast Natural Energy LLC	12.5% or Greater	1576	347
B, E	WV-061-004317-002	WILSON, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1640	371
B, E	WV-061-004317-003	TENNANT, BRENDA	Northeast Natural Energy LLC	12.5% or Greater	1640	373
B, E	WV-061-004317-004	ARNETT, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1640	375
B, E	WV-061-004317-005	STULL, DONALD L	Northeast Natural Energy LLC	12.5% or Greater	1641	346
B, E	WV-061-004317-006	BROOKOVER, ROBE	Northeast Natural Energy LLC	12.5% or Greater	1643	413
B, E	WV-061-004317-007	STATLER, RONALD	Northeast Natural Energy LLC	12.5% or Greater	1643	416
B, E	WV-061-004317-008	STATLER, NELSON	Northeast Natural Energy LLC	12.5% or Greater	1643	418
B, E	WV-061-004317-009	STATLER, JOSEPH	Northeast Natural Energy LLC	12.5% or Greater	1643	420
B, E	WV-061-004317-010	CHISLER FAMILY	Northeast Natural Energy LLC	12.5% or Greater	1643	422
B, E	WV-061-004317-011	STATLER, GARY A	Northeast Natural Energy LLC	12.5% or Greater	1643	424
B, E	WV-061-004317-012	MORRIS, LINDA S	Northeast Natural Energy LLC	12.5% or Greater	1643	519
B, E	WV-061-004317-013	KING, SHARON	Northeast Natural Energy LLC	12.5% or Greater	1643	442
B, E	WV-061-004317-014	LOUGHRY, DONNA	Northeast Natural Energy LLC	12.5% or Greater	1643	98
C	WV-061-004327-001	REED ENERGY SERVICES	Northeast Natural Energy LLC	12.5% or Greater	1577	831
C	WV-061-003947-001	SHUMAN INC	Northeast Natural Energy LLC	12.5% or Greater	1566	83
D	WV-061-004327-001	REED ENERGY SERVICES	Northeast Natural Energy LLC	12.5% or Greater	1577	831
D	WV-061-005435-001	SHUMAN INC	Northeast Natural Energy LLC	12.5% or Greater	1645	221
F	WV-061-005523-001	Bartley, Gregory S. et al	Northeast Natural Energy LLC	12.5% or Greater	1657	442
F	WV-061-004899-001	SWIGER, JOSEPH	Reed Energy Services LLC	12.5% or Greater	1618	458

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
F	WV-061-004899-001	Reed Energy Services LLC	Northeast Natural Energy LLC	12.5% or Greater	136	153
G	WV-061-004327-001	REED ENERGY SER	Northeast Natural Energy LLC	12.5% or Greater	1577	831
G	WV-061-003618-001	SHUMAN, INC.	Northeast Natural Energy LLC	12.5% or Greater	1539	411
H	WV-061-004899-001	SWIGER, JOSEPH	Reed Energy Services LLC	12.5% or Greater	1618	458
H	WV-061-004899-001	Reed Energy Services LLC	Northeast Natural Energy LLC	12.5% or Greater	136	153
I	WV-061-004101-001	MYERS, DEBORAH	Northeast Natural Energy LLC	12.5% or Greater	1568	77
I	WV-061-004101-002	HENDERSON, WAYN	Northeast Natural Energy LLC	12.5% or Greater	1568	79
I	WV-061-004101-003	ZUCHINSKI, NORM	Northeast Natural Energy LLC	12.5% or Greater	1568	309
J	WV-061-004101-004	ANASTASIADIS, M	Northeast Natural Energy LLC	12.5% or Greater	1568	83
I	WV-061-004101-005	EISEMAN, JILL D	Northeast Natural Energy LLC	12.5% or Greater	1568	81
I	WV-061-004101-006	MOORE, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1610	310
I	WV-061-004101-007	TENNANT, KEITH	Northeast Natural Energy LLC	12.5% or Greater	1607	754
I	WV-061-004101-008	FREEMAN, BRENDA	Northeast Natural Energy LLC	12.5% or Greater	1610	830
I	WV-061-004101-009	MORRIS, MARVIN	Northeast Natural Energy LLC	12.5% or Greater	1612	260
I	WV-061-004101-010	KENNEDY, MARY	Northeast Natural Energy LLC	12.5% or Greater	1612	669
I	WV-061-004101-011	KENYON, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1612	672
I	WV-061-004101-012	MYERS, KATHY ET	Northeast Natural Energy LLC	12.5% or Greater	1612	262
J	WV-061-004101-013	ROSE, BERHLINE	Northeast Natural Energy LLC	12.5% or Greater	1612	264
I	WV-061-004101-014	MORRIS, MILFORD	Northeast Natural Energy LLC	12.5% or Greater	1612	266
I	WV-061-004101-015	HENDERSON, JERR	Northeast Natural Energy LLC	12.5% or Greater	1614	505
I	WV-061-004101-016	KENNEDY, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1614	508
I	WV-061-004101-017	SWINNEY, DEBRA	Northeast Natural Energy LLC	12.5% or Greater	1614	511
I	WV-061-004101-018	KOVALSKY, SHIRL	Northeast Natural Energy LLC	12.5% or Greater	1614	514
I	WV-061-004101-019	ENOCH, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1614	534
I	WV-061-004101-020	YOST, JACKIE L.	Northeast Natural Energy LLC	12.5% or Greater	1616	367
I	WV-061-004101-021	YOST, LARRY ET	Northeast Natural Energy LLC	12.5% or Greater	1616	373
I	WV-061-004101-022	SUMMERS ESTATE	Northeast Natural Energy LLC	12.5% or Greater	1614	385
I	WV-061-004101-023	GLOVER, BETTY T	Northeast Natural Energy LLC	12.5% or Greater	1614	387
I	WV-061-004101-024	MASSIE, GINA	Northeast Natural Energy LLC	12.5% or Greater	1617	778
I	WV-061-004101-025	CLEVENGER, LUCA	Northeast Natural Energy LLC	12.5% or Greater	1618	488
I	WV-061-004101-026	TAYLOR, GERALYN	Northeast Natural Energy LLC	12.5% or Greater	1620	277
I	WV-061-004101-027	RIPPEE, RANDY C	Northeast Natural Energy LLC	12.5% or Greater	1619	680
I	WV-061-004101-028	RIPPEE, DEAN ET	Northeast Natural Energy LLC	12.5% or Greater	1619	682
I	WV-061-004101-029	WALLS, MARY JAN	Northeast Natural Energy LLC	12.5% or Greater	1621	654
I	WV-061-004101-030	BARRACKMAN, WAY	Northeast Natural Energy LLC	12.5% or Greater	1625	688
I	WV-061-004101-031	BARRACKMAN, KEN	Northeast Natural Energy LLC	12.5% or Greater	1634	598
I	WV-061-004101-032	HUNNELL, JOHN W	Northeast Natural Energy LLC	12.5% or Greater	1628	337
I	WV-061-004101-033	WEST, LORIE ET	Northeast Natural Energy LLC	12.5% or Greater	1638	225
I	WV-061-004101-034	TAFT, AMY	Northeast Natural Energy LLC	12.5% or Greater	1638	232
I	WV-061-004101-035	CORDRAY, KENNET	Northeast Natural Energy LLC	12.5% or Greater	1635	363
I	WV-061-004101-036	WALLS, CHERYL	Northeast Natural Energy LLC	12.5% or Greater	1635	365
I	WV-061-004101-037	GALEOTA, REBECC	Northeast Natural Energy LLC	12.5% or Greater	1635	367
I	WV-061-004101-038	STIERINGER, SHI	Northeast Natural Energy LLC	12.5% or Greater	1627	264
I	WV-061-004101-039	WESTFALL, BOBBY	Northeast Natural Energy LLC	12.5% or Greater	1631	343
I	WV-061-004101-040	GEORGE, GENEVIE	Northeast Natural Energy LLC	12.5% or Greater	1631	345
I	WV-061-004101-041	TURNER, WILLIAM	Northeast Natural Energy LLC	12.5% or Greater	1631	347
I	WV-061-004101-042	TURNER, STEPHEN	Northeast Natural Energy LLC	12.5% or Greater	1631	756
I	WV-061-004101-043	TURNER, GREGORY	Northeast Natural Energy LLC	12.5% or Greater	1633	448
I	WV-061-004101-044	SPERRY, NANCY L	Northeast Natural Energy LLC	12.5% or Greater	1638	238
I	WV-061-004101-045	HAINES, RONNIE	Northeast Natural Energy LLC	12.5% or Greater	1636	271
I	WV-061-004101-046	MARKLEY, ELLEN	Northeast Natural Energy LLC	12.5% or Greater	1638	245
I	WV-061-004101-047	FRUM, SCOTT ET	Northeast Natural Energy LLC	12.5% or Greater	1638	252
I	WV-061-004101-048	BECK, THOMAS ET	Northeast Natural Energy LLC	12.5% or Greater	1646	49
I	WV-061-004101-049	KELLY, KAREN ET	Northeast Natural Energy LLC	12.5% or Greater	1646	63
I	WV-061-004101-050	BECK, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1646	71
I	WV-061-004101-051	FRUM, BEAU ET	Northeast Natural Energy LLC	12.5% or Greater	1641	823
I	WV-061-004101-052	FRUM, RUSSELL W	Northeast Natural Energy LLC	12.5% or Greater	1641	826
I	WV-061-004101-053	SKOCZ, JOYCE M	Northeast Natural Energy LLC	12.5% or Greater	1636	711
I	WV-061-004101-055	FRUM, RANDY A	Northeast Natural Energy LLC	12.5% or Greater	1641	829
I	WV-061-004101-056	SKIDMORE, PENNY	Northeast Natural Energy LLC	12.5% or Greater	1641	835

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
I	WV-061-004101-057	FRUM, GARY	Northeast Natural Energy LLC	12.5% or Greater	1641	841
I	WV-061-004101-059	FRUM, GARY	Northeast Natural Energy LLC	12.5% or Greater	1641	844
I	WV-061-004101-060	BECK, JERRY JR	Northeast Natural Energy LLC	12.5% or Greater	1646	1
I	WV-061-004101-061	MULFORD, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1646	552
I	WV-061-004101-062	MULFORD, GREGG	Northeast Natural Energy LLC	12.5% or Greater	1646	556
I	WV-061-004101-063	MROZ, DAWN	Northeast Natural Energy LLC	12.5% or Greater	1646	9
I	WV-061-004101-064	BECK, KEITH	Northeast Natural Energy LLC	12.5% or Greater	1646	17
I	WV-061-004101-065	FULLER, ROBIN E	Northeast Natural Energy LLC	12.5% or Greater	1641	332
I	WV-061-004101-066	FOREMAN, JUDY A	Northeast Natural Energy LLC	12.5% or Greater	1646	560
I	WV-061-004101-067	CURRIE, CAROL A	Northeast Natural Energy LLC	12.5% or Greater	1646	564
I	WV-061-004101-068	FABER, DEBORAH	Northeast Natural Energy LLC	12.5% or Greater	1646	568
I	WV-061-004101-069	MCCABE, SANDRA	Northeast Natural Energy LLC	12.5% or Greater	1646	572
I	WV-061-004101-070	WRIGHT, FLOYD W	Northeast Natural Energy LLC	12.5% or Greater	1643	806
I	WV-061-004101-071	CONNER, CINDY L	Northeast Natural Energy LLC	12.5% or Greater	1643	808
I	WV-061-004101-072	WILFONG, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1643	810
I	WV-061-004101-073	WHITE, DEBORA L	Northeast Natural Energy LLC	12.5% or Greater	1643	812
I	WV-061-004101-074	CONNER, JOHN ET	Northeast Natural Energy LLC	12.5% or Greater	1643	814
I	WV-061-004101-075	ARMENTROUT, JOY	Northeast Natural Energy LLC	12.5% or Greater	1649	632
I	WV-061-004101-076	FRUM, ROBERT D	Northeast Natural Energy LLC	12.5% or Greater	1649	153
I	WV-061-004101-077	SHAFER, ELLEN L	Northeast Natural Energy LLC	12.5% or Greater	1649	157
I	WV-061-004101-078	FRUM, MICHAEL E	Northeast Natural Energy LLC	12.5% or Greater	1649	161
I	WV-061-004101-079	FRUM, DAPHNE	Northeast Natural Energy LLC	12.5% or Greater	1649	784
I	WV-061-004101-080	CONNER, FREDERI	Northeast Natural Energy LLC	12.5% or Greater	1650	143
I	WV-061-004101-081	BECK, JANET ETV	Northeast Natural Energy LLC	12.5% or Greater	1653	63
I	WV-061-004101-082	SLAMPAK, CHERYL	Northeast Natural Energy LLC	12.5% or Greater	1652	207
I	WV-061-004101-083	CROWLEY, PATRIC	Northeast Natural Energy LLC	12.5% or Greater	1652	209
I	WV-061-004101-084	GUMP, MICHAEL	Northeast Natural Energy LLC	12.5% or Greater	1653	835
I	WV-061-004101-085	FRUM, BETTY J	Northeast Natural Energy LLC	12.5% or Greater	1653	839
I	WV-061-004101-086	FRUM, JACK L	Northeast Natural Energy LLC	12.5% or Greater	1653	843
I	WV-061-004101-087	BECK, JAMES ET	Northeast Natural Energy LLC	12.5% or Greater	1656	115
I	WV-061-004101-088	MEDVED, TRACY	Northeast Natural Energy LLC	12.5% or Greater	1656	169
I	WV-061-004101-089	BECK, KELLY	Northeast Natural Energy LLC	12.5% or Greater	1656	173
I	WV-061-004102-001	SCHIMMEL, JACQU	Northeast Natural Energy LLC	12.5% or Greater	1568	95
I	WV-061-004102-002	CLEVENGER, DOUG	Northeast Natural Energy LLC	12.5% or Greater	1566	19
I	WV-061-005192-001	MASSEY, PATRICI	Northeast Natural Energy LLC	12.5% or Greater	1625	227
I	WV-061-005487-001	TENNANT, SCOTT	Northeast Natural Energy LLC	12.5% or Greater	1647	796
J	WV-061-004017-000	WILDMAN, JARRET	J.W. Scott	12.5% or Greater	See Lease Chain	
K	WV-061-004004-000	BARRICKMAN, SANFORD	VANDERGRIFT, T.J.	12.5% or Greater	See Lease Chain	
L	WV-061-003280-001	Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1487	252
L	WV-061-003280-001	Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC	12.5% or Greater	120	769
L	WV-061-004020-000	EDDY, MARK & B	Northeast Natural Energy LLC	12.5% or Greater	1505	572
L	WV-061-004171-001	KISH, SUSAN BET	Northeast Natural Energy LLC	12.5% or Greater	1566	719
M	WV-061-004013-000	FETTY, NICHOLAS	J.W. Scott	12.5% or Greater	See Lease Chain	
N	WV-061-003398-001	MM-MARCELLUS II	Northeast Natural Energy LLC	12.5% or Greater	1518	29
N	WV-061-005303-001	TENNANT, KEITH	Northeast Natural Energy LLC	12.5% or Greater	1631	501
N	WV-061-005303-002	GLOVER, BETTY T	Northeast Natural Energy LLC	12.5% or Greater	1631	503
N	WV-061-005303-003	YOST, JACKIE L	Northeast Natural Energy LLC	12.5% or Greater	1638	366
N	WV-061-005303-004	YOST, LARRY E.	Northeast Natural Energy LLC	12.5% or Greater	1636	652
N	WV-061-005303-005	MASSEY, PATRICI	Northeast Natural Energy LLC	12.5% or Greater	1650	271
N	WV-061-005487-001	TENNANT, SCOTT	Northeast Natural Energy LLC	12.5% or Greater	1647	796
N	WV-061-003311-001	MC MINERAL CO.	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1487	213
N	WV-061-003311-001	Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC	12.5% or Greater	120	769
N	WV-061-005332-001	CNX GAS COMPANY	Northeast Natural Energy LLC	12.5% or Greater	1632	789
O	WV-061-003471-000	RODRIGUEZ, MARION	Northeast Natural Energy LLC	12.5% or Greater	1518	31

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Grantor, Lessor, etc.	Grantee, Lessee, etc.	Book Type	Book No.	Page No.
Sanford Barrickman	T.J. Vandergrift	Deed	26	125
T.J. Vandergrift	J.I. Buchanan	Deed	26	129
J.I. Buchanan	Jacob J. Vandergrift	Deed	26	165
Jacob J. Vandergrift	W. J. Young	Deed	26	452
W. J. Young	South Penn Oil Co.	Deed	26	457
South Penn Oil Co.	South Penn Nat. Gas Co.	Deed	304	457
South Penn Nat. Gas Co.	South Penn Oil Co.	Deed	580	311
South Penn Oil Co.	Pennzoil Co.	Corp Record	50	573
Pennzoil Co.	Pennzoil United, Inc.	Deed	672	665
Pennzoil United, Inc.	W. H. Allen	Deed	695	557
W. H. Allen	Edwin Associates, Inc.	Deed	754	594
Edwin Associates, Inc.	J. T. Carson	Deed	754	600
J. T. Carson	Thompson/Texas Assoc.	Deed	754	606
Thompson/Texas Assoc.	Mark Eddy	Assignment	21	22
Mark Eddy	Northeast Natural Energy, LLC	Assignment	123	363

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Grantor, Lessor, etc.	Grantee, Lessee, etc.	Book Type	Book No.	Page No.
Jarrett Wildman	J. W. Scott	Deed	27	145
J. W. Scott	William Munhall/George P. Hukill	Deed	28	447
William Munhall/George P. South Penn Oil Co.	South Penn Oil Co.	Deed	32	240
South Penn Oil Co.	South Penn Nat. Gas Co.	Deed	304	457
South Penn Nat. Gas Co.	South Penn Oil Co.	Deed	580	311
South Penn Oil Co.	Pennzoil Co.	Corp Record	50	573
Pennzoil Co.	Pennzoil United, Inc.	Deed	672	665
Pennzoil United, Inc.	W. H. Allen	Deed	695	557
W. H. Allen	Edwin Associates, Inc.	Deed	754	594
Edwin Associates, Inc.	J. T. Carson	Deed	754	600
J. T. Carson	Thompson/Texas Assoc.	Deed	754	606
Thompson/Texas Assoc.	Mark Eddy	Assignment	21	22
Mark Eddy	Northeast Natural Energy, LLC	Assignment	123	363

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4706101848 06/14/2019

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Book Type	Book No.	Page No.
Nicholas Fetty et al	J.W. Scott	Deed	26	365
J. W. Scott	South Penn Oil Co.	Deed	32	240
South Penn Oil Co.	South Penn Nat. Gas Co.	Deed	304	457
South Penn Nat. Gas Co.	South Penn Oil Co.	Deed	580	311
South Penn Oil Co.	Pennzoil Co.	Corp Record	50	573
Pennzoil Co.	Pennzoil United, Inc.	Deed	672	665
Pennzoil United, Inc.	W. H. Allen	Deed	695	557
W. H. Allen	Edwin Associates, Inc.	Deed	754	594
Edwin Associates, Inc.	J. T. Carson	Deed	754	600
J. T. Carson	Thompson/Texas Assoc.	Deed	754	606
Thompson/Texas Assoc.	Mark Eddy	Assignment	21	22
Mark Eddy	Northeast Natural Energy, LLC	Assignment	123	363

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**northeast**  
NATURAL ENERGY

April 17, 2019

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

Re: Lemley South (2H, 4H, 6H, 10H, 12H, 14H)

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 Stull Hollow Road (Route 24), Pedlar Run Road (Route 37), and Shuman Run Rd (Route 37/3) on the enclosed survey plats.

Sincerely,

Christa A. Dotson  
Supervisor – Land Operations Development

Enclosure

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

Date of Notice Certification: 05/01/2019

API No. 47- \_\_\_\_\_ - \_\_\_\_\_  
Operator's Well No. 12H  
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>573963.4</u>
County:	<u>Monongalia</u>		Northing:	<u>4391571.7</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>*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 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"/> 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 style="padding-left: 100px;"><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"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p>
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**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 notified 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.

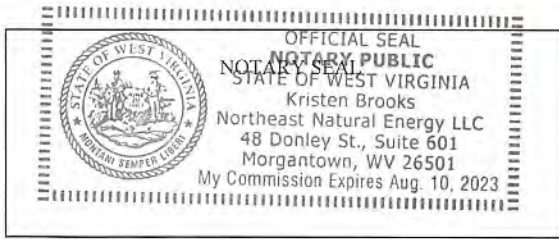
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**Certification of Notice is hereby given:**

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



Hollie Medley  
 Subscribed and sworn before me this 2nd day of May, 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](mailto:depprivacyofficer@wv.gov).

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**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:** 4/29/2019 **Date Permit Application Filed:** 5/9/2019

**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. Statler  
Address: 578 Long Drain Rd.  
Core, WV 26529

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

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**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

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

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

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

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

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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.

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(8-13)

AP# NO. 4-47061-01848  
OPERATOR WELL NO. 120 06/14/2019  
Well Pad Name: Lemley

**Notice is hereby given by:**

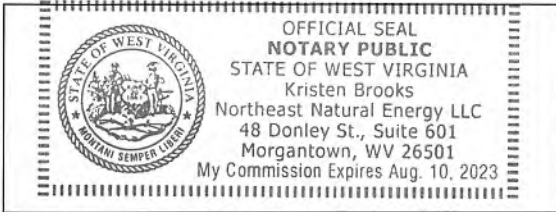
Well Operator: Northeast Natural Energy LLC  
Telephone: 304-414-7060  
Email: hmedley@nne-llc.com

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](mailto:deprivacyofficer@wv.gov).

*Hollis Medley*



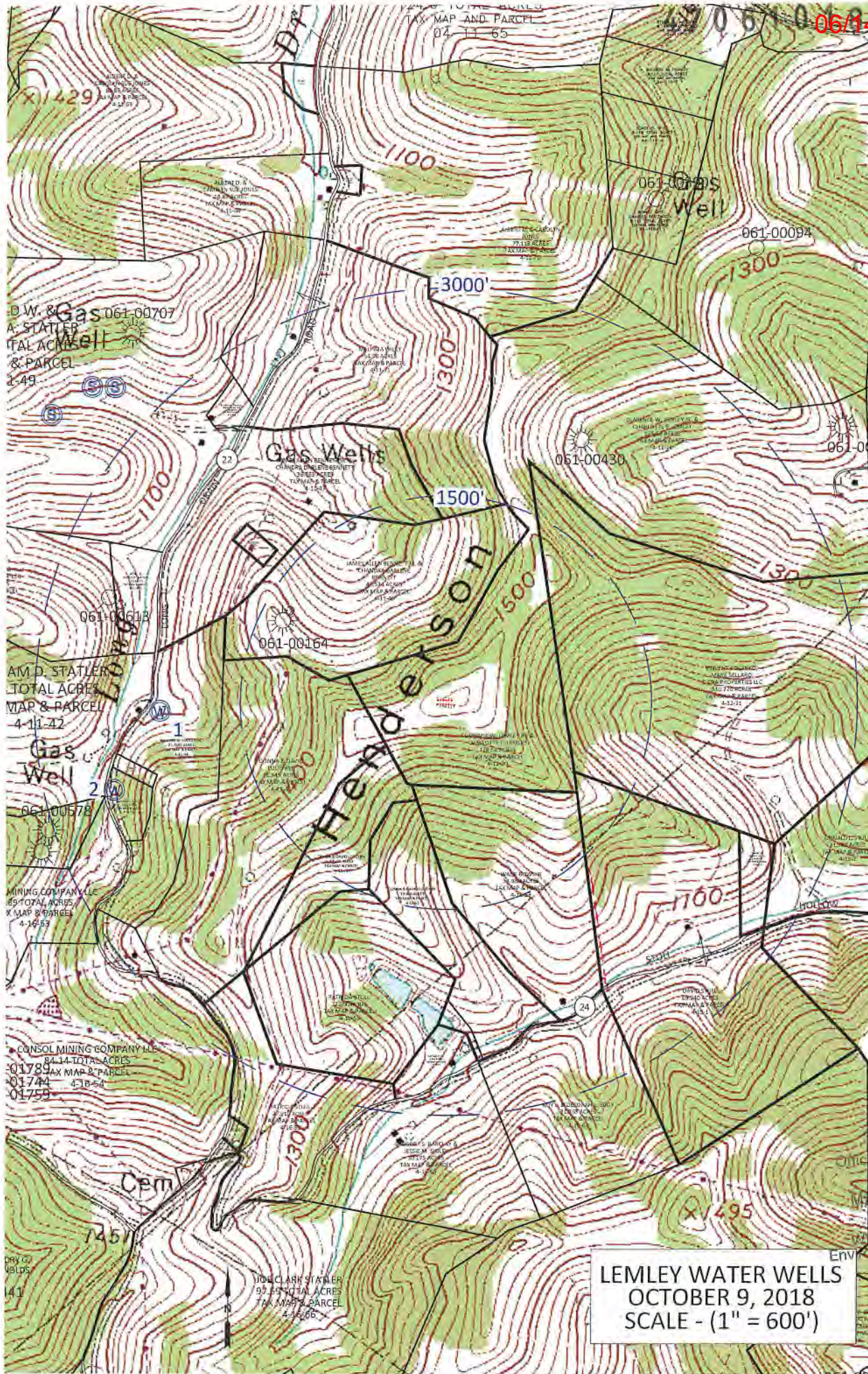
Subscribed and sworn before me this 2nd day of May 2019.

Kristen Brooks Notary Public

My Commission Expires Aug 10, 2023

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Environmental Protection

06/14/2019



X1429

TAX MAP AND PARCEL  
04-11-65

Gas Well  
061-00094

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

Gas Wells

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

Gas Well  
061-00578

MINING COMPANY LLC  
89 TOTAL ACRES  
X MAP & PARCEL  
4-16-83

CONSOL MINING COMPANY LLC  
84.14 TOTAL ACRES  
01789 AX MAP & PARCEL  
01744 4-10-54  
01759

Cem

JUD CLARK STATLER  
97.85 TOTAL ACRES  
TAX MAP & PARCEL  
4-16-66

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

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MAY 9 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 57<sup>th</sup> 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](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Notice is hereby given by:

Well Operator: Northeast Natural Energy LLC  
 Telephone: 304.212.0422  
 Email: hmedley@nne-llc.com

Address: 707 Virginia Street East, Suite 1200  
Charleston, WV 25301  
 Facsimile: 304.241.5972

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 MAY 9 2019

Oil and Gas Privacy Notice:

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

WV Department of  
Environmental Protection



Ownership Type	Name	Address	Address	Address	Address
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 Mclessey	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

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MAY 9 2019

WV Department of  
Environmental Protection

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:** 04/29/2019 **Date Permit Application Filed:** 05/09/2019

**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>573963.4</u>
County: <u>Monongalia</u>	Northing: <u>4391571.7</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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**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: \_\_\_\_\_

**Oil and Gas Privacy Notice:**

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

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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:** 04/29/2019      **Date Permit Application Filed:** 05/09/2019

**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  
Address: 239 Lemley Hollow  
Core WV 26541

Name: Donald Stull, et al  
Address: 162 Stull Hollow Road  
Core, WV 26541

**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: <u>West Virginia</u>	UTM NAD 83	Easting: <u>573963.4</u>
County: <u>Monongalia</u>		Northing: <u>4391571.7</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(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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well 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

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Environmental Protection

06/14/2019



## WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways**1900 Kanawha Boulevard East • Building Five • Room 110  
Charleston, West Virginia 25305-0430 • (304) 558-3505Thomas J. Smith, P. E.  
Secretary of Transportation/  
Commissioner of Highways

January 30, 2019

Jill M. Newman  
Deputy CommissionerJames A. Martin, Chief  
Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304

Subject: DOH Permit for the Lemley Pad, Monongalia County

Lemley 12H

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,

Handwritten signature of Gary K. Clayton in blue ink.

Gary K. Clayton, P.E.  
Regional Maintenance Engineer  
Central Office O&G CoordinatorCc: Kristen Brooks  
Northeast Natural Energy Corporation  
CH, OM, D-4  
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MAY 9 2019  
WV Department of  
Environmental Protection

Planned Additives to be used in Fracturing Stimulations

Trade Name	Purpose	Ingredients	Chemical Abstract Service Number (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
C-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	Hydro-treated Light Distillate	64742-47-8
Ferrotool 300L	Iron Control	Citric Acid	77-92-9
Sand, White, 40/70	Proppant	Crystalline Silica (Quartz)	14808-60-7
Sand, White, 100 mesh	Proppant	Crystalline Silica (Quartz)	14808-60-7
Scaletrol 720	Scale Inhibitor	Diethylene Glycol	111-46-6

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New York State Department of  
Environmental Protection

4706101848

**APPROVED**  
**WVDEP OOG**  
3/26/2019

# LEMLEY WELL PAD SITE PLAN NORTHEAST NATURAL ENERGY

LAT./LONG: N 39.669956° W -80.139113°  
(APPROXIMATE CENTER OF PROJECT)

**LOCAL EMERGENCY SERVICES**

AMBULANCE	NAME	TELEPHONE NO.
HOSPITAL EMERGENCY ROOM	OHIO VALLEY MEDICAL CENTER	304-234-0123
FIRE DEPARTMENT		911
POLICE DEPARTMENT		911
POISON CONTROL CENTER	WEST VIRGINIA POISON CENTER	304-222-1222

**FLOOD PLAIN CONDITIONS**

DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN	NO
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR	NO
HEC-RAS STUDY COMPLETED	N/A
FLOODPLAIN SHOWN ON DRAWINGS	N/A
FIRM MAP NUMBER(S) FOR SITE	8481(C)0075E
AC-FEARED OF CONSTRUCTION IN FLOODPLAIN (300 AD)	N/A

**PROJECT CONTACTS:**

**OPERATOR:**  
NORTHEAST NATURAL ENERGY LLC  
44 SENECA DRIVE, STE 601  
MORGANTHAU, WV 26501

**RAWY MCKENZIE - CIVIL ENGINEERING MANAGER**  
OFFICE: 304-234-0123 CELL: 304-841-8333

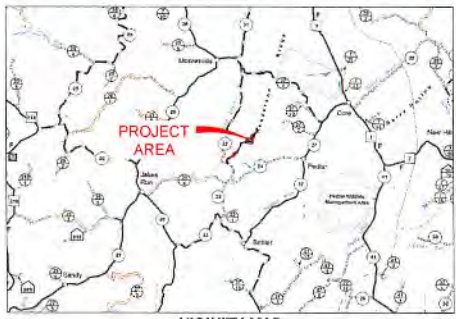
**ENGINEER/SURVEYOR:**  
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.  
JOSEPH D. ROBINSON, P.E. - PRINCIPAL/SURVEYOR  
OFFICE: 304-834-3119 FAX: 304-833-3327 CELL: 304-841-8333

**ENVIRONMENTAL:**  
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.  
JACQUELYN KESTER - SENIOR PROJECT MANAGER  
OFFICE: 304-834-3119 FAX: 304-833-3327 CELL: 304-841-8333

**GEOTECHNICAL:**  
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.  
KIM ESHLIN - PROJECT MANAGER  
OFFICE: 304-834-3119 FAX: 304-833-3327 CELL: 304-774-1714



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



**SHEET INDEX**

1. COVER SHEET	10. SITE PLAN	18. DETAILS
2. GENERAL NOTES	11. SITE PLAN	19. DETAILS
3. MASTER QUANTITIES	12. WATER OPERATIONS	20. DETAILS
4. MASTER LEGEND	13. PROFILES AND SECTIONS	21. RECLAMATION PLAN
5. EXISTING CONDITIONS	14. PROFILES AND SECTIONS	22. RECLAMATION PLAN
6. SITE MAP	15. PROFILES AND SECTIONS	23. RECLAMATION PLAN
7. SITE PLAN	16. PROFILES AND SECTIONS	24. RECLAMATION PLAN
8. SITE PLAN	17. PROFILES AND SECTIONS	25. RECLAMATION PLAN
9. SITE PLAN	18. DETAILS	26. RECLAMATION PLAN

**LOCATION COORDINATES**

SITE LOCATIONS	NAD 83 - NAD 1983 (NORTH ZONE)		UTM 18Q UTM 18Q 17	
	LATITUDE	LONGITUDE	NORTHING	EASTING
MAIN ACCESS ROAD ENTRANCE	39.665146	-80.134298	4309942.597	573396.547
CENTROID OF WELL PAD	39.670946	-80.137403	4311531.317	573963.769
CENTER OF CONTAINMENT TANK 1	39.671320	-80.137111	4311633.197	574008.366
CENTER OF CONTAINMENT TANK 2	39.671483	-80.136786	4311652.557	574036.099
CENTER OF CONTAINMENT TANK 3	39.671201	-80.136793	4311620.848	574039.566

**GRADING VOLUMES**

DESCRIPTION	CUT (CY)	FILL (CY)	NET (CY)
MAIN ACCESS ROAD	18.283	21.660	-3.378
WELL PAD	49.970	43.810	6.160
SPOIL-1	0	1.518	-1.518
SPOIL-2	0	103	-103
<b>TOTAL</b>	<b>67.943</b>	<b>67.943</b>	<b>0</b>

TOPSOIL / STRIPPING (CON SWELL - 17.014 CY) 14,376 CY

**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
<b>TOTAL</b>	<b>23.73</b>

**LIMITS OF DISTURBANCE PARCEL BREAK UPS - LEMLEY WELL PAD**

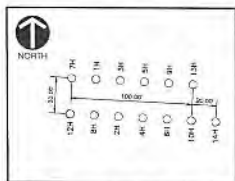
OWNER	TM-PARCEL	DEED-PAGE	TOTAL ACRES	TYPE OF DISTURBANCE	ACRAGE
STULL DONALD ET AL	11-45	1018-499	46.85	MAIN ACCESS ROAD	9.71
LEMLEY CLARENCE W III & CHARLOTTE E	11-72	710-311	77.69	PARCEL TOTAL	9.71
				MAIN ACCESS ROAD	0.23
				WELL PAD	8.21
				TOPSOIL/STRIPPING PILE 1	1.71
				SPOIL PILE 1	0.45
				SPOIL PILE 2	0.23
				CLEARING AND GRUBBING AREA	3.19
				<b>PARCEL TOTAL</b>	<b>14.02</b>

**MINE INFORMATION**

MINE ID	301214
MINE NAME	OSAGE No. 3
COMPANY	CONSOLIDATION COAL

**WELL RESTRICTIONS CHECKLIST (HORIZONTAL, SA WELL)**

AT LEAST 100 FEET FROM PAD AND LOO (INCLUDING ANY EAS CONTROL FEATURES) TO ANY PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND	YES
AT LEAST 300 FEET FROM PAD AND LOO (INCLUDING ANY EAS CONTROL FEATURES) TO ANY NATURALLY OCCURRING FRESH WATER STREAM	YES
AT LEAST 1000 FEET FROM PAD AND LOO (INCLUDING ANY EAS CONTROL FEATURES) TO ANY DISCONTINUOUS, BRACKISH OR SALTY WATER SUPPLY	YES
AT LEAST 50 FEET FROM AN EXISTING WATER WELL OR DEVELOPED SPRING TO WELL BEING DRILLED	YES
AT LEAST 605 FEET FROM AN OCCUPIED DWELLING STRUCTURE TO CENTER OF PAD	YES
AT LEAST 605 FEET FROM AGRICULTURAL BUILDINGS LARGER THAN 2500 SQUARE FEET TO THE CENTER OF THE PAD	YES



**REVISION RECORD**

NO.	DATE	DESCRIPTION
1		ISSUE FOR PERMITTING
2		FOR COUNTY ENGINEERING DEPARTMENT

**Civil & Environmental Consultants, Inc.**  
820 Marketplace Ave - Suite 200 - Bridgeport, WV 26330  
Ph: 304.933.1119 - Fax: 304.933.3327  
www.civilinc.com

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

**COVER SHEET**

DATE: AUGUST 2018 DRAWN BY: JDR  
SCALE: AS SHOWN (GRAPHIC)  
PROJECT NO: 181-363  
JOB NO: 00000001

DRAWING NO: **C000**

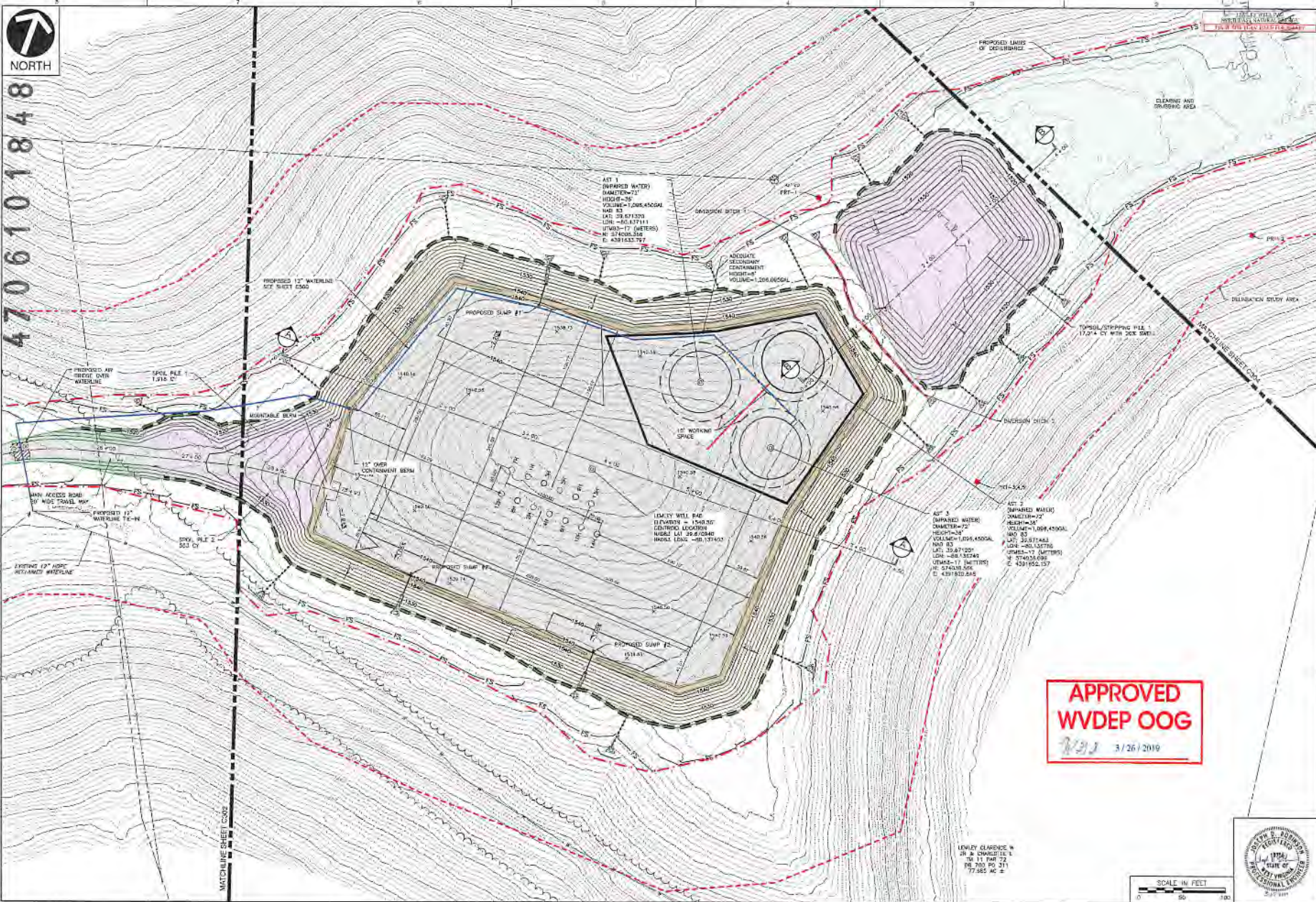
SHEET 1 OF 26

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Office of Oil and Gas  
MAY 9 2019  
WV Department of Environmental Protection



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MAY 11 2019

Department of  
Environmental Protection

NO.	DATE	DESCRIPTION
1	03/20/18	ISSUED FOR PERMITTING
2	05/01/18	ISSUED FOR PERMITTING
3	05/01/18	ISSUED FOR PERMITTING
4	05/01/18	ISSUED FOR PERMITTING
5	05/01/18	ISSUED FOR PERMITTING
6	05/01/18	ISSUED FOR PERMITTING
7	05/01/18	ISSUED FOR PERMITTING
8	05/01/18	ISSUED FOR PERMITTING
9	05/01/18	ISSUED FOR PERMITTING
10	05/01/18	ISSUED FOR PERMITTING
11	05/01/18	ISSUED FOR PERMITTING
12	05/01/18	ISSUED FOR PERMITTING
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14	05/01/18	ISSUED FOR PERMITTING
15	05/01/18	ISSUED FOR PERMITTING
16	05/01/18	ISSUED FOR PERMITTING
17	05/01/18	ISSUED FOR PERMITTING
18	05/01/18	ISSUED FOR PERMITTING
19	05/01/18	ISSUED FOR PERMITTING
20	05/01/18	ISSUED FOR PERMITTING

**CEE**  
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 www.ceeinc.com

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

SITE PLAN		DATE	DATE
DESIGNED BY	AS SHOWN	08/20/18	08/20/18
CHECKED BY	AS SHOWN	08/20/18	08/20/18
APPROVED BY	AS SHOWN	08/20/18	08/20/18

**APPROVED**  
**WVDEP OOG**  
*WVDEP* 3/26/2019



SCALE IN FEET  
 0 50 100

LEMLEY CLEARANCE N  
 JR & CHARLIE L L  
 78 11 PARK ST  
 PO BOX 90 311  
 26355 NC W

GRAPHIC NO. **C303**  
 SHEET 10 OF 26