

west virginia department of environmental protection

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

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

Wednesday, April 3, 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 8H

47-061-01835-00-00

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

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 8H

Farm Name: CLARENCE W. LEMLEY JR.

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

Horizontal 6A New Drill Date Issued: 4/3/2019

API 1	Numb	er:		
NC	47	0	6	104/0582015

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 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 (20) feet of casing below the bottom of the void or install less than twenty
- 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 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.

API Number:	
_	
	04/05/2019

PERMIT CONDITIONS

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

WW-6B (04/15)

API NO. 47	
OPERATOR V	WELL NO. 8H
Well Pad Na	me: Lemley

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

1) Well Operator: Northeast	t Natural Energy	494498281	Monongalia	Clay	Blacksville
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: E	ЗН	Well Pa	ad Name: Lemle	y	
3) Farm Name/Surface Owner	Clarence W Jr & Charlotte E	Lemley Public Ro	ad Access: State	e Route 2	2
4) Elevation, current ground:	1,549' Ele	evation, proposed	l post-construction	n: 1,540'	
5) Well Type (a) Gas X Other	Oil	Uno	derground Storag	е	
(b)If Gas Si	hallow X	Deep			
, Н	forizontal X		MOU	1-1	2010
6) Existing Pad: Yes or No N	0		- WK	1/1/	2015
 Proposed Target Formation Marcellus; 8,206'; 53'; 3,600 		pated Thickness	and Expected Pro	essure(s):	
	4.4.4.4.4				
B) Proposed Total Vertical Dep					
9) Formation at Total Vertical					
0) Proposed Total Measured	Depth: 22,194'				
1) Proposed Horizontal Leg I	Length: 12,825'				
2) Approximate Fresh Water	Strata Depths:	50', 1,471'			
13) Method to Determine Fresh	h Water Depths: D	rillers Log from	Offset Wells		
4) Approximate Saltwater De					
5) Approximate Coal Seam D	Depths: 501', 1,469	1			
(6) Approximate Depth to Pos	sible Void (coal mir	ne, karst, other):	N/A		DECEMED.
(7) D D					Office of Oil and G
7) Does Proposed well location in the street of the street		Yes	No	Х	JAN 2 9 2019
(a) If Yes, provide Mine Info	: Name:				WV Department of Environmental Prote
	Depth:				
	Seam:				
	Owner:				

470 6 1 0 1 8 3 5

WW-6B (04/15) API NO. 47-____-OPERATOR WELL NO. BH 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	22,194'	22,164'	5230 cu ft
Tubing	2-3/8"	New	P-110	4.7	NA	8,500'	NA
Liners							

MgK 1/17/2019

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	24"	38"	.375"	415		4,500 psi grout	NA
Fresh Water	13-3/8"	17-1/2"	.38"	2,760	2,000	Class A	1.23
Coal							
Intermediate	9-5/8"	12-1/4"	.395"	3.950	3,000	Class A	1.3
Production	5-1/2"	8-3/4"	.361"	12,530	9,700	50:50 poz	1.21
Tubing	2-7/8"	NA	.217"	10,570	3,600	NA	NA
Liners							

PACKERS

Kind:	RECEIVED Office of Oil and Gas
Sizes:	JAN 2 9 2 019
Depths Set:	WV Department of Environmental Protection

WW-6B (10/14)

API NO.	47.7	0	6	1	0	1	8	3	5
OPE	RATOR	R W	ELL	NO.	8H				_
We	II Pad I	Nam	ne: _	Lem!	эу				_

19	Describe 1	proposed v	well work	inclu	ding the	e drilling	and i	plugging	back o	fany 1	pilot h	ıole:
1/	DODOLLO	brobone i	11 O11 11 O11k	,				<i></i>				

Drilling and completion of a horizontal Marcellus well. The well will be drilled on air to an approximate depth of 6,700 TVD/MD. The well will then be horizontally drilled on synthetic based mud from the KOP to approximately 8,206 TVD/22,194' MD along a 154° 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. RECEIVED Intermediate string cement will be a Type 1 Cement + Max 3% bwoc Calcium Chloride + Press Waterd Case Production string cement will be (50:50) Poz (Fly Ash):Type I Cement with a gas migration additive 2019

25) Proposed borehole conditioning procedures:

WV Department of Environmental Protection

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.

*Note: Attach additional sheets as needed.



1 inch = 2000

1000

2000

3000

4000

5000

6000

7000

8000

-1000

1000

2000

Vertical Depth (ft)

True

NORTHEAST NATURAL ENERGY, LLC Location: Monongalia County, WV Field: Monongalia Facility: Lemley Pad Slot: Slot 8 Well: Lemley 8H Wellbore: Lemley 8H PWB

racility. Lettiley rau	Wellbore. Lettiley of 11 WD
Plot reference wellpath is Lemley 8H PWP Ex-00	Grid System: NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet
True vertical depths are referenced to Rig on Slot 8 (RKB)	North Reference: Grid north
Measured depths are referenced to Rig on Slot 8 (RKB)	Scale: True distance
Rig on Slot 8 (RKB) to Mean Sea Level: 1550 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: Slot 8): -1534 feet	Created by: atenjen on 2018-11-27
Coordinates are in feet referenced to Slot	Database: WA_MPL_EASTERNUS_Defn

WV Department Environmental Prot

5000 8000 7000 8000 9000 Vertical Section (ft) Azimuth 154.66° with reference 0.00 N, 0.00 E

tection

9000

10000

Туре	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'

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

Easting (ft) Scale 1 inch = 3500 -7000 7000 1750 3500 5250

Formation Depth (KBTVD) 7890' Geneseo Tully 79371 Hamilton 80191 Upper Marcellus 8111.5' Cherry Valley 8151.51 Lower Marcellus 8156 82211 Onondaga

End of Build: 7171.06ft TVD, 51.58ft S, 241.35ft W End of Tangent: 7768.26ft TVD, 231.84ft S, 1084.80ft W, End of 3D Arc: 8206.50ft TVD, 1013.40ft S, 1290.11ft W

Tie On: 16.00ft TVD, 0.00ft N, 0.00ft E

End of Tangent: 6700.00ft TVD, 0.00ft N, 0.00ft E

Lemley 8H LP Rev 1

-1750

-3500

-5250

-7000

-8750

-10500

-12250

Northing

End of Tangent: 0.00° Inc, 6700.00ft MD, 6700.00ft TVD, 0.00ft VS End of Build: 55.30° Inc, 7253.01ft MD, 7171.06ft TVD, -56.66ft VS End of Tangent: 55.30° Inc, 8302.08ft MD, 7768.26ft TVD, -254.66ft VS 10.00°/100ft End of 3D Arc : 90.00° Inc, 9368.91ft MD, 8206.50ft TVD, 363.87ft VS Lemley 8H LP Rev 1

4000

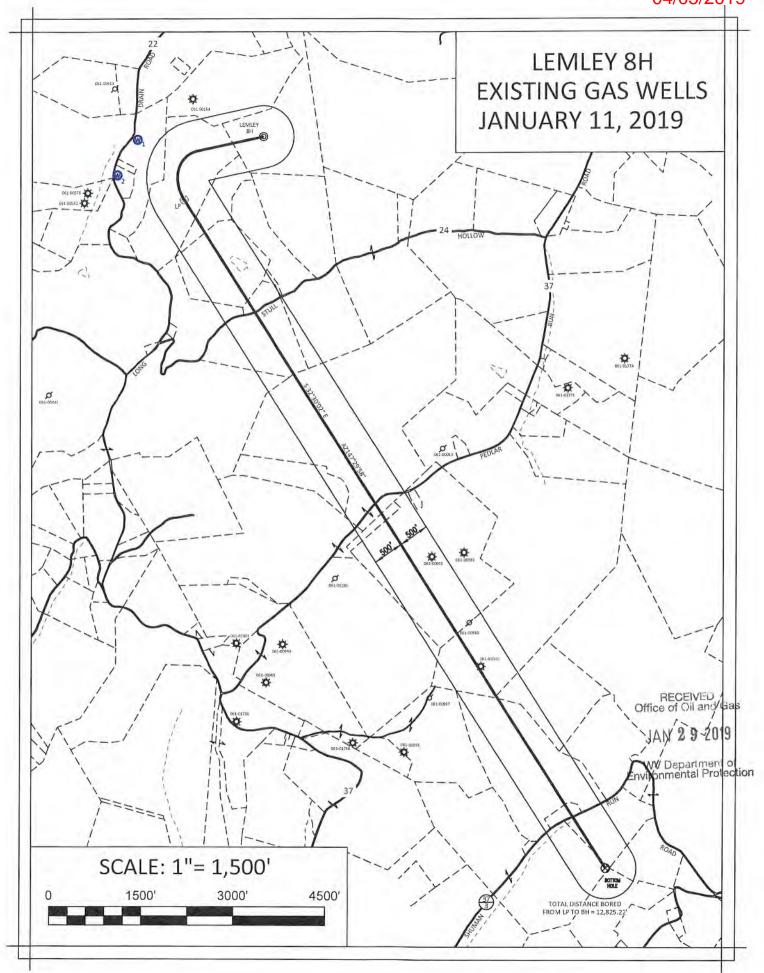
3000

End of Tangent: 8206.50ft TVD, 11830.01ft S, 5600.98ft E Lemley 8H BHL Rev 1

Englof Tangent: 90.00° Inc, 22194.13ft MD, 8206.50ft TVD, 13088.93ft VS

Lemley 8H BHL Rev 1 11000 12000 13000 14000 15000

Scale 1 inch = 2000



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0
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Lemley 8H Area of Review								
API Number	Weli Name	Well Number	Operator	Latitude (NAD 27)	Longitude (NAD 27)	TMP	TVD	Notes
	Howard S Eddy/C G Dean/B							
47-061-01002	R Matheny	29	NNE Resources, LLC	39.647379	-80.124721	4-15-18	2027	NA
	Mark Eddy/C P Eddy/C A							
47-061-00988	Tennant	1	NNE Resources, LLC	39.649310	-80.125412	4-15-17.3	NA	Plugged 11/11/16
47-061-00991	Mark/Harry Eddy	8	NNE Resources, LLC	39.652247	-80.127606	4-15-17.3	NA	NA

WW-9 (4/16)

API Number 47 -

Operator's Well No. Lemley 8H

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 will a pit be used? Yes No V	complete the proposed well work? Yes Vo 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 Waste	
Land Application	
Underground Injection (UIC F	Permit Number
Reuse (at API Number unknown	
Off Site Disposal (Supply form Other (Explain	n WW-9 for disposal location)
Will closed loop system be used? If so, describe: Yes, Pl	ease See Attachment "A"
Drilling medium anticipated for this well (vertical and hor	izontal)? Air, freshwater, oil based, etc. Vertical - Air/ Curve & Horizontal - Oil Based
-If oil based, what type? Synthetic, petroleum, et	c. Synthetic Oil Based Mud
Additives to be used in drilling medium? Organophilic Clay Vi	scosifiers, Lime, Unsaturated Fatty Acids, CaCl, Barile, Emulsifiers, Mica LCM, Water Loss Agents
Drill cuttings disposal method? Leave in pit, landfill, rem	oved offsite, etc. Removed Offsite - Please See Attachment "A"
-If left in pit and plan to solidify what medium w	ill be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number? Please	See Attachment "A"
	and Gas of any load of drill cuttings or associated waste rejected at any vided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the We provisions of the permit are enforceable by law. Violatic law or regulation can lead to enforcement action. I certify under penalty of law that I have perso application form and all attachments thereto and that, obtaining the information, I believe that the information	and conditions of the GENERAL WATER POLLUTION PERMIT issued est Virginia Department of Environmental Protection. I understand that the ens of any term or condition of the general permit and/or other applicable enally examined and am familiar with the information submitted on this based on my inquiry of those individuals immediately respectively and complete. I am aware that therefore significant
penalties for submitting false information, including the po	ossibility of fine or imprisonment. JAN 2 9 2019
Company Official Signature	A temporal of
Company Official (Typed Name) Hollie Medley	WV Department of Environmental Protection
Company Official Title Regulatory Manager	C
Subscribed and sworn before me this 218† day	of Vanuary 2019, 20 STATE OF WEST VIRGINIA Kristen Brooks
Kristin Brooks	Notary Published Northeast Natural Energy LLC 48 Donley St., Suite 601 Morgantown, WV 26501
My commission expires Aug. 10, 2023	My Commission Expires Aug. 10, 2023

Operator's Well No. Lemley 8H

	nergy LLC	00	
Proposed Revegetation Treatm			
	Tons/acre or to correct	to pH /	
Fertilizer type 19-1			
Fertilizer amount 30)0	lbs/acre	
Mulch 2		Tons/acre	
		Seed Mixtures	
Ten	nporary	Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	46	Orchard Grass	46
Red Clover	8	Red Clover	8
Tetraploi Perennia	al Rye 16	Tetraploid Perennial Rye	16
Timothy 15 Annu	al Rye 15	Timothy 15 Annual Rye	15
Photocopied section of involve	ed 7.5' topographic sheet.		
	v —		
Comments:			RECE! Office of Oi
Comments:			RECEN Office of Oil JAN 2
Title: Inspector		Date: 1/17/2019	PECE Office of Oi JAN 2 WV Dep Environmer

Attachment A to WW-9

4706101035

Northeast Natural Energy LLC ("NNE") plans to utilize a closed loop process for its drilling of the Lemley 8H 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 8H 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)

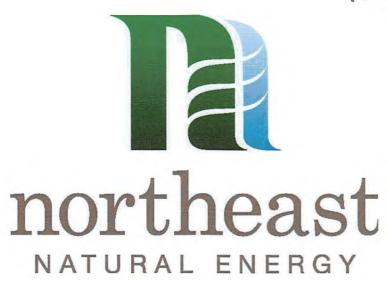
NNE plans to reuse and recycle all flowback fluid and/or reach out to other operators in the area who may be able to reuse and recycle such fluid. However, in the event that reuse is not obtainable the fluid will be disposed of at one, or multiple, of the following disposal/approved waste facilities 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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JAN 29 2019

W Department of Environmental Protection



Lemley 8H SITE SAFETY PLAN

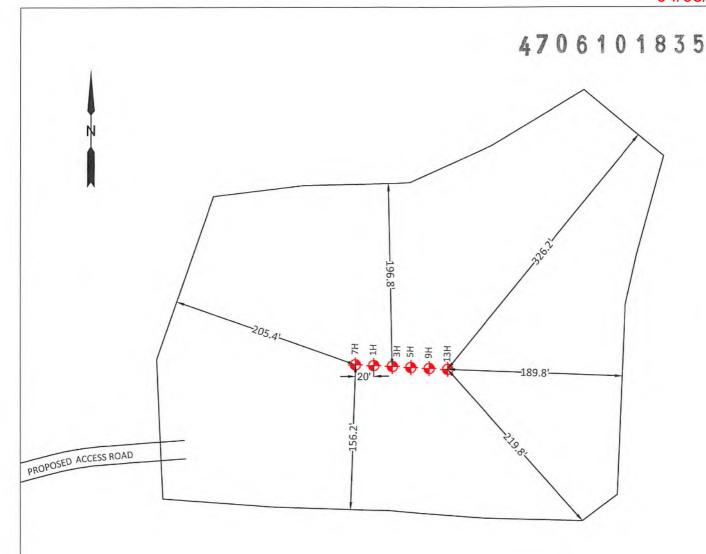
January 2019

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RECEIVED Office of Oil and Gas

JAN 29 2019

WV Department of Environmental Protection



WELL NUMBER	API NUMBER	STATUS
1H		PROPOSED
3H		PROPOSED
5H		PROPOSED
7H		PROPOSED
9H		PROPOSED
13H		PROPOSED

Office of Oil and Gas

JAN 2 9 2019

Environmental Protection

300'

PREPARED FOR

NORTHEAST NATURAL ENERGY LLC

LEMLEY WELL PAD
CLAY DISTRICT, MONONGALIA COUNTY, WV

PREPARED BY

BOORD BENCHEK & ASSOC., INC.

ENGINEERING, SURVEYING, CONSTRUCTION AND MINING SERVICES

SOUTHPOINTE, PA 15317 PHONE: 724-746-1055

TOPHOLE DIAGRAM

100'

LEMLEY WELL PAD
CLAY DISTRICT, MONONGALIA
COUNTY, WV
DATE: 1/14/19

LEGEND



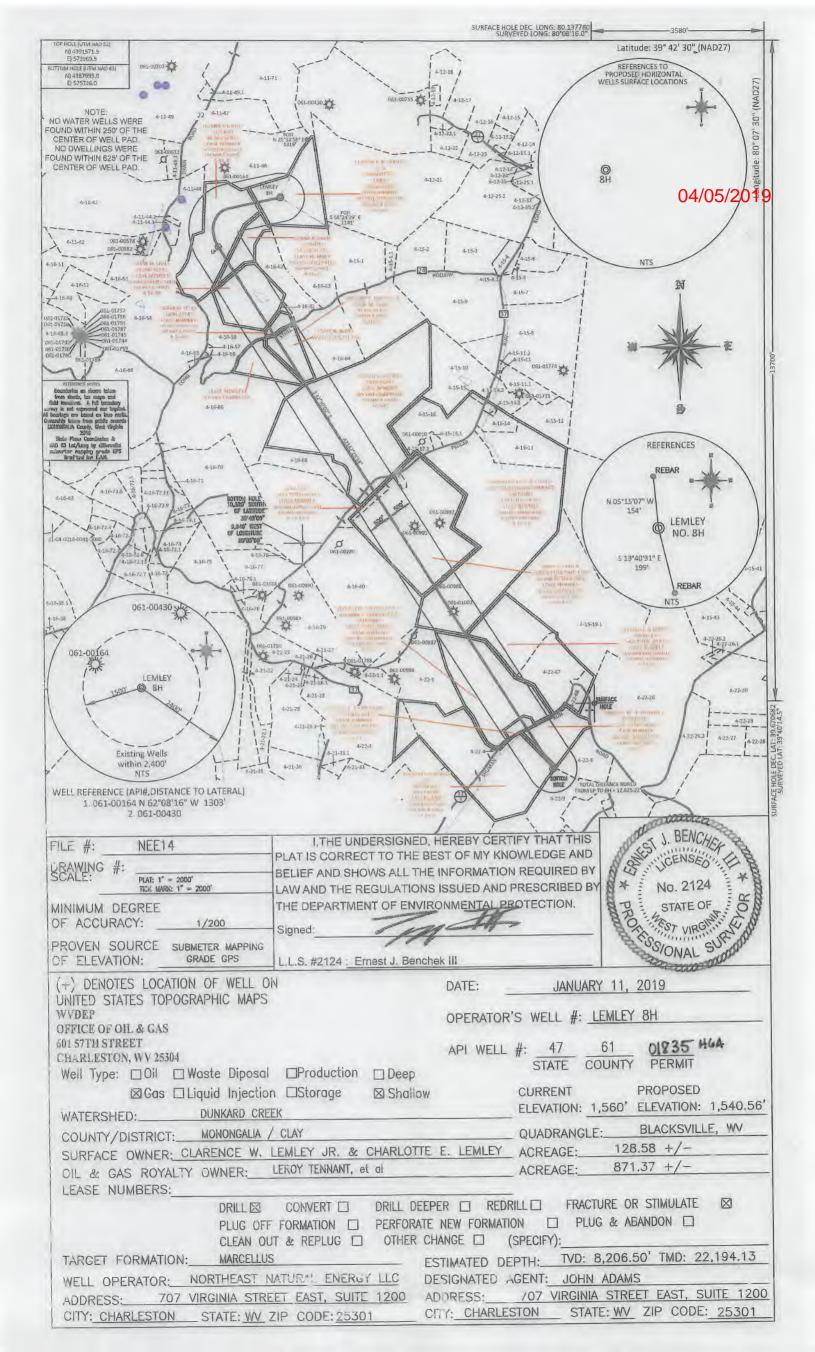
200'

SCALE BAR: 1"=100

= PROPOSED WELL



250k 1/17/2019



WW-6A1 (5/13)

Operator's Well No.	Lemley 8H
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INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that —

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See attached

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

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

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

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 LLC

By:

Hollie Medley

Its:

Regulatory Manager

Page 1 of

RECEIVE Office of Oil and

MAR 1 8 20%

47061018⁰3⁴/5⁵/2019

WW-6A1

Lease Number

WV-061-003525-001

WV-061-003525-002

WV-061-003525-003

WV-061-003525-004

WV-061-003525-007

WV-061-003525-008

WV-061-003525-009

WV-061-003525-010

WV-061-003525-011

WV-061-003525-012

WV-061-003525-013

WV-061-003525-014

WV-061-003525-015

WV-061-003525-016

WV-061-003525-017

WV-061-003525-018

WV-061-003525-019

WV-061-003525-020

WV-061-003525-021

WV-061-003715-002

WV-061-003715-003

WV-061-004308-001

WV-061-004263-001

WV-061-004264-001

WV-061-004267-001

WV-061-001291-018

WV-061-001291-020

WV-061-001291-021

WV-061-001291-022

WV-061-003682-001

WV-061-003682-002

WV-061-003682-003

WV-061-003682-004

WV-061-003682-005

WV-061-003682-006 WV-061-003682-007

WV-061-004317-001

WV-061-004317-005

WV-061-004317-014

WV-061-001291-005

WV-061-004317-002

WV-061-004317-003

WV-061-004317-004

WV-061-004317-006

WV-061-004317-007

WV-061-004317-008

WV-061-004317-009

WV-061-004317-010

WV-061-004317-011

WV-061-004317-012

WV-061-004317-013

WV-061-004270-001

Grantor, Lessor, etc.

TENNANT, LEROY

LOHR, LLOYD M

HICKMAN, LINDA

MALOTT, ROSE M.

TENNANT, SHIRLE

COSNER, SHEILA

EDDY, RONALD &

HENDERSON, WILL

HENDERSON, LARR

HENDERSON, ALPH

HENDERSON, JENN

HENDERSON, JESS

MCCARVER, STEPH

CHARVAT, SHAWNA

STOUT, MARGARET

TENNANT, DENZIL

VESELENAK, RONA

MCJESSY, JUDITH

CORE, CHARLES L

TYNER, CHRISTOP

DODD, NORA LOU

CORE, WILLIAM B

JENKINS, PAULA

MYERS, JUNE C.

CORE, BEVERLY J

VARNER, MARTIN

KING, RONALD ET

TENNANT, HARRY ASHCRAFT, JAMES

ASHCRAFT, RICKY

CRANE, SHIRLEY

ASHCRAFT, DUSTI

ASHCRAFT, DAYTO

ASHCRAFT, JOHN

ASHCRAFT, CHARL

KETCHEM, JOYCE

STULL, DONALD L

HANULA TRUST

LOUGHRY, DONNA

WILSON, BARBARA

TENNANT, BRENDA

BROOKOVER, ROBE

STATLER, RONALD

STATLER, NELSON

STATLER, JOSEPH

CHISLER FAMILY

STATLER, GARY A

MORRIS, LINDA S

WILLIAMS, LORET

KING, SHARON

Northeast Natural Energy LLC

ARNETT, ROBERT

BANE, JANET S.

Operators Well No. Lemley 8H WV Department C Grantee, Lessee, etc. **Book Page** Royalty 0.125 or Greater 1524 449 Northeast Natural Energy LLC 74 1526 Northeast Natural Energy LLC 0.125 or Greater 1525 242 Northeast Natural Energy LLC 0.125 or Greater 1525 250 Northeast Natural Energy LLC 0.125 or Greater 88 Northeast Natural Energy LLC 0.125 or Greater 1534 1534 86 Northeast Natural Energy LLC 0.125 or Greater 1535 107 Northeast Natural Energy LLC 0.125 or Greater 1536 622 Northeast Natural Energy LLC 0.125 or Greater 1536 599 Northeast Natural Energy LLC 0.125 or Greater 1536 535 Northeast Natural Energy LLC 0.125 or Greater 1566 289 Northeast Natural Energy LLC 0.125 or Greater Northeast Natural Energy LLC 1568 430 0.125 or Greater Northeast Natural Energy LLC 0.125 or Greater 1568 271 Northeast Natural Energy LLC 0.125 or Greater 1568 339 1569 269 Northeast Natural Energy LLC DEED 1569 244 Northeast Natural Energy LLC DEED 742 Northeast Natural Energy LLC 0.125 or Greater 1617 Northeast Natural Energy LLC 0.125 or Greater 1617 744 1630 195 Northeast Natural Energy LLC 0.125 or Greater 828 1554 Northeast Natural Energy LLC 0.125 or Greater Northeast Natural Energy LLC 0.125 or Greater 1564 400 1644 9 Northeast Natural Energy LLC 0.125 or Greater 348 Northeast Natural Energy LLC 0.125 or Greater 1645 1571 548 Northeast Natural Energy LLC 0.125 or Greater Northeast Natural Energy LLC 1571 578 0.125 or Greater 244 Northeast Natural Energy LLC 1507 0.125 or Greater 605 Northeast Natural Energy LLC 0.125 or Greater 1614 1634 483 Northeast Natural Energy LLC DEED Northeast Natural Energy LLC 0.125 or Greater 1633 336 801 Northeast Natural Energy LLC DEED 1547 Northeast Natural Energy LLC 262 DEED 1548 1545 778 Northeast Natural Energy LLC DEED 258 Northeast Natural Energy LLC DEED 1548 1545 782 Northeast Natural Energy LLC DEED Northeast Natural Energy LLC DEED 1545 328 Northeast Natural Energy LLC DEED 1550 367 347 1576 Norheast Natural Energy LLC DEED 1641 346 Northeast Natural Energy LLC 0.125 or Greater 1643 98 Northeast Natural Energy LLC 0.125 or Greater 120 769 CHESAPEAKE APPALACHIA, LLC 0.125 or Greater Northeast Natural Energy LLC 1640 371 0.125 or Greater Northeast Natural Energy LLC 0.125 or Greater 1640 373 Northeast Natural Energy LLC 1640 375 0.125 or Greater 413 Northeast Natural Energy LLC 0.125 or Greater 1643 Northeast Natural Energy LLC 0.125 or Greater 1643 416 Northeast Natural Energy LLC 0.125 or Greater 1643 418

0.125 or Greater

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WV-061-003822-001	STULL, PATRICIA	Northeast Natural Energy LLC	DEED	1569	28
WV-061-001291-018	BANE, JANET S.	Northeast Natural Energy LLC	0.125 or Greater	1507	244
WV-061-001291-020	VARNER, MARTIN	Northeast Natural Energy LLC	0.125 or Greater	1614	605
WV-061-001291-021	KING, RONALD ET	Northeast Natural Energy LLC	DEED	1634	483
WV-061-001291-022	TENNANT, HARRY	Northeast Natural Energy LLC	0.125 or Greater	1633	336
WV-061-003682-001	ASHCRAFT, JAMES	Northeast Natural Energy LLC	DEED	1547	801
WV-061-003682-002	ASHCRAFT, RICKY	Northeast Natural Energy LLC	DEED	1548	262
WV-061-003682-003	CRANE, SHIRLEY	Northeast Natural Energy LLC	DEED	1545	778
WV-061-003682-004	ASHCRAFT, DUSTI	Northeast Natural Energy LLC	DEED	1548	258
WV-061-003682-005	ASHCRAFT, DAYTO	Northeast Natural Energy LLC	DEED	1545	782
WV-061-003682-006	ASHCRAFT, JOHN	Northeast Natural Energy LLC	DEED	1545	328
WV-061-003682-007	ASHCRAFT, CHARL	Northeast Natural Energy LLC	DEED	1550	367
WV-061-003822-001	STULL, PATRICIA	Northeast Natural Energy LLC	DEED	1569	28
WV-061-004270-001	WILLIAMS, LORET	Northeast Natural Energy LLC	DEED	1571	535
WV-061-004317-001	KETCHEM, JOYCE	Norheast Natural Energy LLC	DEED	1576	347
WV-061-004317-005	STULL, DONALD L	Northeast Natural Energy LLC	0.125 or Greater	1641	346
WV-061-004317-014	LOUGHRY, DONNA	Northeast Natural Energy LLC	0.125 or Greater	1643	98
WV-061-001291-005	HANULA TRUST	CHESAPEAKE APPALACHIA, LLC	0.125 or Greater	120	769
WV-061-004317-002	WILSON, BARBARA	Northeast Natural Energy LLC	0.125 or Greater	1640	371
WV-061-004317-003	TENNANT, BRENDA	Northeast Natural Energy LLC	0.125 or Greater	1640	373
WV-061-004317-004	ARNETT, ROBERT	Northeast Natural Energy LLC	0.125 or Greater	1640	375
WV-061-004317-006	BROOKOVER, ROBE	Northeast Natural Energy LLC	0.125 or Greater	1643	413
WV-061-004317-007	STATLER, RONALD	Northeast Natural Energy LLC	0.125 or Greater	1643	416
WV-061-004317-008	STATLER, NELSON	Northeast Natural Energy LLC	0.125 or Greater	1643	418
WV-061-004317-009	STATLER, JOSEPH	Northeast Natural Energy LLC	0.125 or Greater	1643	420
WV-061-004317-010	CHISLER FAMILY	Northeast Natural Energy LLC	0.125 or Greater	1643	422
WV-061-004317-011	STATLER, GARY A	Northeast Natural Energy LLC	0.125 or Greater	1643	424
WV-061-004317-012	MORRIS, LINDA S	Northeast Natural Energy LLC	0.125 or Greater	1643	519
WV-061-004317-013	KING, SHARON	Northeast Natural Energy LLC	0.125 or Greater	1643	442
WV-061-001291-018	BANE, JANET S.	Northeast Natural Energy LLC	0.125 or Greater	1507	244
WV-061-001291-020	VARNER, MARTIN	Northeast Natural Energy LLC	0.125 or Greater	1614	605
WV-061-001291-021	KING, RONALD ET	Northeast Natural Energy LLC	DEED	1634	483
WV-061-001291-022	TENNANT, HARRY	Northeast Natural Energy LLC	0.125 or Greater	1633	336
WV-061-003682-001	ASHCRAFT, JAMES	Northeast Natural Energy LLC	DEED	1547	801
WV-061-003682-002	ASHCRAFT, RICKY	Northeast Natural Energy LLC	DEED	1548	262
WV-061-003682-003	CRANE, SHIRLEY	Northeast Natural Energy LLC	DEED	1545	778
WV-061-003682-004	ASHCRAFT, DUSTI	Northeast Natural Energy LLC	DEED	1548	258
WV-061-003682-005	ASHCRAFT, DAYTO	Northeast Natural Energy LLC	DEED	1545	782
WV-061-003682-006	ASHCRAFT, JOHN	Northeast Natural Energy LLC	DEED	1545	328
WV-061-003682-007	ASHCRAFT, CHARL	Northeast Natural Energy LLC	DEED	1550	
WV-061-003822-001	STULL, PATRICIA	Northeast Natural Energy LLC	DEED	1569	28
WV-061-004270-001	WILLIAMS, LORET	Northeast Natural Energy LLC	DEED	1571	535
WV-061-004317-001	KETCHEM, JOYCE	Norheast Natural Energy LLC	DEED	1576	_
WV-061-004317-005	STULL, DONALD L	Northeast Natural Energy LLC	0.125 or Greater	1641	346
WV-061-004317-014	LOUGHRY, DONNA	Northeast Natural Energy LLC	0.125 or Greater	1643	98
WV-061-001291-005	HANULA TRUST	CHESAPEAKE APPALACHIA, LLC	0.125 or Greater	120	769
WV-061-004317-002	WILSON, BARBARA	Northeast Natural Energy LLC	0.125 or Greater	1640	371
WV-061-004317-003	TENNANT, BRENDA	Northeast Natural Energy LLC	0.125 or Greater	1640	373
WV-061-004317-004	ARNETT, ROBERT	Northeast Natural Energy LLC	0.125 or Greater	1640	375
WV-061-004317-006	BROOKOVER, ROBE	Northeast Natural Energy LLC	0.125 or Greater	1643	413
	STATLER, RONALD	Northeast Natural Energy LLC	0.125 or Greater		EIVED416
WV-061-004317-007	JOINT LEIN, NOTALL				
		Northeast Natural Energy LLC	0.125 or Greater		
WV-061-004317-007 WV-061-004317-008 WV-061-004317-009	STATLER, NELSON	Northeast Natural Energy LLC Northeast Natural Energy LLC	0.125 or Greater 0.125 or Greater	Office/67	Oil and 438
WV-061-004317-008		Northeast Natural Energy LLC Northeast Natural Energy LLC Northeast Natural Energy LLC	+	Office/67	Oil and 4월명

WV Department of Environmental Protection

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WV-061-004317-012 MORRIS, LINDA S Northeast Natural Energy LLC 0.125 or Greater 1643 519 WV-061-004317-013 KING, SHARON Northeast Natural Energy LLC 0.125 or Greater 1643 442 WV-061-004399-001 SWIGER, JOSEPH Reed Energy Services LLC 0.125 or Greater 136 153 153 WV-061-004090 BARRICKMAN, SAN VANDERGRIFT, TJ. 0.125 or Greater 1641 221 WV-061-003658-001 STRAIGHT, MICHA Northeast Natural Energy LLC DEED 1542 110 WV-061-003658-001 STRAIGHT, MICHA Northeast Natural Energy LLC DEED 1541 421 WV-061-003658-003 KENNETT, DOUGLA Northeast Natural Energy LLC DEED 1547 797 WV-061-003658-003 KENNETT, DOUGLA Northeast Natural Energy LLC DEED 1547 797 WV-061-003658-004 STRAIGHT, DAVID Northeast Natural Energy LLC DEED 1556 552 WV-061-003658-007 WILDMAN, DONALD Northeast Natural Energy LLC DEED 1588 363 WV-061-003658-007 WILDMAN, DONALD Northeast Natural Energy LLC DEED 1588 363 WV-061-003658-009 RUSH, ELIZABETH Northeast Natural Energy LLC DEED 1588 363 WV-061-003658-009 ANE, NANCY S. Northeast Natural Energy LLC DEED 1588 363 WV-061-003658-009 ANE, NANCY S. Northeast Natural Energy LLC D.125 or Greater 1640 458 WV-061-003658-009 ANE, NANCY S. Northeast Natural Energy LLC 0.125 or Greater 1640 458 WV-061-003658-010 GAY, WILLIAM ET Northeast Natural Energy LLC 0.125 or Greater 1640 458 WV-061-003658-010 GAY, WILLIAM ET Northeast Natural Energy LLC 0.125 or Greater 1640 450 WV-061-004017-001 GAY, JAMES ET Northeast Natural Energy LLC 0.125 or Greater 1640 450 WV-061-004017-002 WHITSON, CAROL Northeast Natural Energy LLC 0.125 or Greater 1630 347 WV-061-004017-003 GAY, JAMES ET Northeast Natural Energy LLC 0.125 or Greater 1630 347 WV-061-004017-004 GAY, JERRY ETUX Northeast Natural Energy LLC 0.125 or Greater 1640 450 WV-061-004017-005 GAY, JERRY ETUX Northeast Natural Energ				7/ / / 0		<u>835</u>
WV-061-004899-001 SWIGER, JOSEPH Reed Energy Services LLC 0.125 or Greater 136 153 153 WV-061-005221-001 HENSEL, JARVIE Northeast Natural Energy LLC DEED 1636 559 1636	WV-061-004317-012	MORRIS, LINDA S	Northeast Natural Energy LLC	0.125 or Greater	 	
WV-061-005221-001	WV-061-004317-013	KING, SHARON	Northeast Natural Energy LLC	0.125 or Greater	1643	
WV-061-004004-000 BARRICKMAN, SAN VANDERGRIFT, T.J. 0.125 or Greater 1641 221 WV-061-003658-002 STRAIGHT, MICHA Northeast Natural Energy LLC DEED 1542 110 WV-061-003658-002 BEST, SHARON L. Northeast Natural Energy LLC DEED 1541 421 WV-061-003658-003 KENNETT, DOUGLA Northeast Natural Energy LLC DEED 1547 797 WV-061-003658-004 STRAIGHT, DAVID Northeast Natural Energy LLC DEED 1556 552 WV-061-003658-007 WILDMAN, DAVID Northeast Natural Energy LLC DEED 1588 363 WV-061-003658-009 LANE, NANCY S. Northeast Natural Energy LLC 0.125 or Greater 1625 812 WV-061-003658-010 GAY, WILLIAM ET Northeast Natural Energy LLC 0.125 or Greater 1623 812 WV-061-003658-011 VAN LIEW, FREDE Northeast Natural Energy LLC 0.125 or Greater 1640 458 WV-061-004017-001 GAY, JAMES ET Northeast Natural Energy LLC 0.125 or Greater 1630 397 <t< td=""><td>WV-061-004899-001</td><td>SWIGER, JOSEPH</td><td>Reed Energy Services LLC</td><td>0.125 or Greater</td><td>136</td><td></td></t<>	WV-061-004899-001	SWIGER, JOSEPH	Reed Energy Services LLC	0.125 or Greater	136	
WV-061-003658-001 STRAIGHT, MICHA Northeast Natural Energy LLC DEED 1542 110 WV-061-003658-002 BEST, SHARON L. Northeast Natural Energy LLC DEED 1541 421 WV-061-003658-003 KENNETT, DOUGLA Northeast Natural Energy LLC DEED 1554 797 WV-061-003658-004 STRAIGHT, DAVID Northeast Natural Energy LLC DEED 1556 552 WV-061-003658-006 WILDMAN, DAVID Northeast Natural Energy LLC DEED 1588 363 WV-061-003658-008 RUSH, ELIZABETH Northeast Natural Energy LLC 0.125 or Greater 1615 662 WV-061-003658-009 LANE, NANCY S. Northeast Natural Energy LLC 0.125 or Greater 1625 812 WV-061-003658-010 GAY, WILLIAM ET Northeast Natural Energy LLC 0.125 or Greater 1640 458 WV-061-004017-001 GAY, JAMES ET Northeast Natural Energy LLC 0.125 or Greater 1630 197 WV-061-004017-002 WHITSON, CAROL Northeast Natural Energy LLC 0.125 or Greater 1630 347	WV-061-005221-001	HENSEL, JARVIE	Northeast Natural Energy LLC		1636	559
WV-061-003658-002 BEST, SHARON L. Northeast Natural Energy LLC DEED 1541 421 WV-061-003658-003 KENNETT, DOUGLA Northeast Natural Energy LLC DEED 1557 797 WV-061-003658-004 STRAIGHT, DAVID Northeast Natural Energy LLC DEED 1556 552 WV-061-003658-006 WILDMAN, DONALD Northeast Natural Energy LLC DEED 1588 363 WV-061-003658-007 WILDMAN, DAVID Northeast Natural Energy LLC D.125 or Greater 1615 662 WV-061-003658-008 RUSH, ELIZABETH Northeast Natural Energy LLC 0.125 or Greater 1625 812 WV-061-003658-010 GAY, WILLIAM ET Northeast Natural Energy LLC 0.125 or Greater 1640 458 WV-061-003658-012 GAY, KELLY K ET Northeast Natural Energy LLC 0.125 or Greater 1640 460 WV-061-004017-001 GAY, JELY K ET Northeast Natural Energy LLC 0.125 or Greater 1630 197 WV-061-004017-002 WHITSON, CAROL Northeast Natural Energy LLC 0.125 or Greater 1630 349 <	WV-061-004004-000	BARRICKMAN, SAN	VANDERGRIFT, T.J.	0.125 or Greater	1641	221
WV-061-003658-003 KENNETT, DOUGLA Northeast Natural Energy LLC DEED 1547 797 WV-061-003658-004 STRAIGHT, DAVID Northeast Natural Energy LLC DEED 1556 552 WV-061-003658-006 WILDMAN, DONALD Northeast Natural Energy LLC DEED 1558 363 WV-061-003658-007 WILDMAN, DAVID Northeast Natural Energy LLC 0.125 or Greater 1615 662 WV-061-003658-008 RUSH, ELIZABETH Northeast Natural Energy LLC 0.125 or Greater 1615 662 WV-061-003658-009 LANE, NANCY S. Northeast Natural Energy LLC 0.125 or Greater 1640 458 WV-061-003658-010 GAY, WILLIAM ET Northeast Natural Energy LLC 0.125 or Greater 1640 458 WV-061-004017-001 GAY, JAMES ET Northeast Natural Energy LLC 0.125 or Greater 1630 347 WV-061-004017-002 WHITSON, CAROL Northeast Natural Energy LLC 0.125 or Greater 1630 347 WV-061-004017-003 GAY, THOMAS ETU Northeast Natural Energy LLC 0.125 or Greater 1630 353<	WV-061-003658-001	STRAIGHT, MICHA	Northeast Natural Energy LLC	DEED	1542	110
WV-061-003658-004 STRAIGHT, DAVID Northeast Natural Energy LLC DEED 1556 552 WV-061-003658-006 WILDMAN, DONALD Northeast Natural Energy LLC DEED 1588 363 WV-061-003658-007 WILDMAN, DAVID Northeast Natural Energy LLC DEED 1588 363 WV-061-003658-008 RUSH, ELIZABETH Northeast Natural Energy LLC 0.125 or Greater 1615 662 WV-061-003658-010 GAY, WILLIAM ET Northeast Natural Energy LLC 0.125 or Greater 1640 458 WV-061-003658-011 VAN LIEW, FREDE Northeast Natural Energy LLC 0.125 or Greater 1640 458 WV-061-003658-012 GAY, KELLY X ET Northeast Natural Energy LLC 0.125 or Greater 1630 197 WV-061-004017-001 GAY, JAMES ET Northeast Natural Energy LLC 0.125 or Greater 1630 349 WV-061-004017-003 GAY, THOMAS ETU Northeast Natural Energy LLC 0.125 or Greater 1630 331 WV-061-004017-004 GAY, JERRY ETUX Northeast Natural Energy LLC 0.125 or Greater 1630 33	WV-061-003658-002	BEST, SHARON L.	Northeast Natural Energy LLC	DEED	1541	
WV-061-003658-006 WILDMAN, DONALD Northeast Natural Energy LLC DEED 1588 363 WV-061-003658-007 WILDMAN, DAVID Northeast Natural Energy LLC 0.125 or Greater 1615 662 WV-061-003658-008 RUSH, ELIZABETH Northeast Natural Energy LLC 0.125 or Greater 1615 662 WV-061-003658-010 GAY, WILLIAM ET Northeast Natural Energy LLC 0.125 or Greater 1640 458 WV-061-003658-011 VAN LEW, FREDE Northeast Natural Energy LLC 0.125 or Greater 1640 458 WV-061-003658-012 GAY, KELLY K ET Northeast Natural Energy LLC 0.125 or Greater 1630 197 WV-061-004017-001 GAY, JAMES ET Northeast Natural Energy LLC 0.125 or Greater 1630 347 WV-061-004017-002 WHITSON, CAROL Northeast Natural Energy LLC 0.125 or Greater 1630 349 WV-061-004017-003 GAY, THOMAS ETU Northeast Natural Energy LLC 0.125 or Greater 1630 351 WV-061-004017-006 GOLLINS, MILDRE Northeast Natural Energy LLC 0.125 or Greater 16	WV-061-003658-003	KENNETT, DOUGLA	Northeast Natural Energy LLC	DEED	1547	
WV-061-003658-007 WILDMAN, DAVID Northeast Natural Energy LLC DEED 1588 366 WV-061-003658-008 RUSH, ELIZABETH Northeast Natural Energy LLC 0.125 or Greater 1615 662 WV-061-003658-009 LANE, NANCY S. Northeast Natural Energy LLC 0.125 or Greater 1625 812 WV-061-003658-010 GAY, WILLIAM ET Northeast Natural Energy LLC 0.125 or Greater 1640 458 WV-061-003658-011 VAN LIEW, FREDE Northeast Natural Energy LLC 0.125 or Greater 1640 460 WV-061-004017-001 GAY, JAMES ET Northeast Natural Energy LLC 0.125 or Greater 1630 197 WV-061-004017-002 WHITSON, CAROL Northeast Natural Energy LLC 0.125 or Greater 1630 349 WV-061-004017-003 GAY, THOMAS ETU Northeast Natural Energy LLC 0.125 or Greater 1630 351 WV-061-004017-004 GAY, JERRY ETUX Northeast Natural Energy LLC 0.125 or Greater 1630 353 WV-061-004017-006 COOLEY, TERESA Northeast Natural Energy LLC 0.125 or Greater 164	WV-061-003658-004	STRAIGHT, DAVID	Northeast Natural Energy LLC	DEED	1556	552
WV-061-003658-008 RUSH, ELIZABETH Northeast Natural Energy LLC 0.125 or Greater 1615 662 WV-061-003658-009 LANE, NANCY S. Northeast Natural Energy LLC 0.125 or Greater 1625 812 WV-061-003658-010 GAY, WILLIAM ET Northeast Natural Energy LLC 0.125 or Greater 1640 458 WV-061-003658-012 GAY, KELLY K ET Northeast Natural Energy LLC 0.125 or Greater 1630 197 WV-061-004017-001 GAY, JAMES ET Northeast Natural Energy LLC 0.125 or Greater 1630 347 WV-061-004017-002 WHITSON, CAROL Northeast Natural Energy LLC 0.125 or Greater 1630 349 WV-061-004017-003 GAY, THOMAS ETU Northeast Natural Energy LLC 0.125 or Greater 1630 331 WV-061-004017-004 GAY, JERRY ETUX Northeast Natural Energy LLC 0.125 or Greater 1630 353 WV-061-004017-005 ROLLINS, MILDRE Northeast Natural Energy LLC 0.125 or Greater 1630 353 WV-061-004017-006 COOLEY, TERESA Northeast Natural Energy LLC 0.125 or Greater	WV-061-003658-006	WILDMAN, DONALD	Northeast Natural Energy LLC	DEED	1588	363
WV-061-003658-009 LANE, NANCY S. Northeast Natural Energy LLC 0.125 or Greater 1625 812 WV-061-003658-010 GAY, WILLIAM ET Northeast Natural Energy LLC 0.125 or Greater 1640 458 WV-061-003658-011 VAN LIEW, FRDE Northeast Natural Energy LLC 0.125 or Greater 1640 460 WV-061-004017-001 GAY, KELLY K ET Northeast Natural Energy LLC 0.125 or Greater 1630 197 WV-061-004017-002 WHITSON, CAROL Northeast Natural Energy LLC 0.125 or Greater 1630 347 WV-061-004017-003 GAY, THOMAS ETU Northeast Natural Energy LLC 0.125 or Greater 1630 339 WV-061-004017-004 GAY, JERRY ETUX Northeast Natural Energy LLC 0.125 or Greater 1630 351 WV-061-004017-005 ROLLINS, MILDRE Northeast Natural Energy LLC 0.125 or Greater 1630 355 WV-061-004017-006 COOLEY, TERESA Northeast Natural Energy LLC 0.125 or Greater 1630 357 WV-061-004017-007 WHITAKER, SUSAN Northeast Natural Energy LLC 0.125 or Greater	WV-061-003658-007	WILDMAN, DAVID	Northeast Natural Energy LLC	DEED	1588	366
WV-061-003658-010 GAY, WILLIAM ET Northeast Natural Energy LLC 0.125 or Greater 1640 458 WV-061-003658-011 VAN LIEW, FREDE Northeast Natural Energy LLC 0.125 or Greater 1640 460 WV-061-003658-012 GAY, KELLY KET Northeast Natural Energy LLC 0.125 or Greater 1630 197 WV-061-004017-001 GAY, JAMES ET Northeast Natural Energy LLC 0.125 or Greater 1630 347 WV-061-004017-002 WHITSON, CAROL Northeast Natural Energy LLC 0.125 or Greater 1630 349 WV-061-004017-003 GAY, JERRY ETUX Northeast Natural Energy LLC 0.125 or Greater 1630 351 WV-061-004017-004 GAY, JERRY ETUX Northeast Natural Energy LLC 0.125 or Greater 1630 353 WV-061-004017-006 COOLEY, TERESA Northeast Natural Energy LLC 0.125 or Greater 1630 357 WV-061-004017-007 WHITAKER, SUSAN Northeast Natural Energy LLC 0.125 or Greater 1640 462 WV-061-004017-019 GAY, MICHAEL J Northeast Natural Energy LLC 0.125 or Greater	WV-061-003658-008	RUSH, ELIZABETH	Northeast Natural Energy LLC	0.125 or Greater	1615	662
WV-061-003658-011 VAN LIEW, FREDE Northeast Natural Energy LLC 0.125 or Greater 1640 460 WV-061-003658-012 GAY, KELLY K ET Northeast Natural Energy LLC 0.125 or Greater 1630 197 WV-061-004017-001 GAY, JAMES ET Northeast Natural Energy LLC 0.125 or Greater 1630 347 WV-061-004017-002 WHITSON, CAROL Northeast Natural Energy LLC 0.125 or Greater 1630 349 WV-061-004017-003 GAY, THOMAS ETU Northeast Natural Energy LLC 0.125 or Greater 1630 351 WV-061-004017-004 GAY, JERRY ETUX Northeast Natural Energy LLC 0.125 or Greater 1630 353 WV-061-004017-005 ROLLINS, MILDRE Northeast Natural Energy LLC 0.125 or Greater 1630 355 WV-061-004017-006 COOLEY, TERESA Northeast Natural Energy LLC 0.125 or Greater 1640 462 WV-061-004017-009 GAY, MICHAEL J Northeast Natural Energy LLC 0.125 or Greater 1640 462 WV-061-004017-016 FRANKLIN, RACHE Northeast Natural Energy LLC 0.125 or Greater	WV-061-003658-009	LANE, NANCY S.	Northeast Natural Energy LLC	0.125 or Greater	1625	812
WV-061-003658-012 GAY, KELLY K ET Northeast Natural Energy LLC 0.125 or Greater 1630 197 WV-061-004017-001 GAY, JAMES ET Northeast Natural Energy LLC 0.125 or Greater 1630 347 WV-061-004017-002 WHITSON, CAROL Northeast Natural Energy LLC 0.125 or Greater 1630 349 WV-061-004017-003 GAY, THOMAS ETU Northeast Natural Energy LLC 0.125 or Greater 1630 351 WV-061-004017-004 GAY, JERRY ETUX Northeast Natural Energy LLC 0.125 or Greater 1630 353 WV-061-004017-006 ROLLINS, MILDRE Northeast Natural Energy LLC 0.125 or Greater 1630 357 WV-061-004017-006 COOLEY, TERESA Northeast Natural Energy LLC 0.125 or Greater 1640 462 WV-061-004017-007 WHITAKER, SUSAN Northeast Natural Energy LLC 0.125 or Greater 1640 462 WV-061-004017-009 GAY, MICHAEL J Northeast Natural Energy LLC 0.125 or Greater 1647 555 WV-061-004017-016 FRANKLIN, RACHE Northeast Natural Energy LLC 0.125 or Greater	WV-061-003658-010	GAY, WILLIAM ET	Northeast Natural Energy LLC	0.125 or Greater	1640	458
WV-061-004017-001 GAY, JAMES ET Northest Natural Energy LLC 0.125 or Greater 1630 347 WV-061-004017-002 WHITSON, CAROL Northeast Natural Energy LLC 0.125 or Greater 1630 349 WV-061-004017-003 GAY, THOMAS ETU Northeast Natural Energy LLC 0.125 or Greater 1630 351 WV-061-004017-004 GAY, JERRY ETUX Northeast Natural Energy LLC 0.125 or Greater 1630 353 WV-061-004017-005 ROLLINS, MILDRE Northeast Natural Energy LLC 0.125 or Greater 1630 353 WV-061-004017-006 COOLEY, TERESA Northeast Natural Energy LLC 0.125 or Greater 1630 357 WV-061-004017-007 WHITAKER, SUSAN Northeast Natural Energy LLC 0.125 or Greater 1640 462 WV-061-004017-009 GAY, MICHAEL J Northeast Natural Energy LLC 0.125 or Greater 1647 555 WV-061-004017-016 FRANKLIN, RACHE Northeast Natural Energy LLC 0.125 or Greater 1647 555 WV-061-004017-018 ROGERS, AMIE ET Northeast Natural Energy LLC 0.125 or Greater	WV-061-003658-011	VAN LIEW, FREDE	Northeast Natural Energy LLC	0.125 or Greater	1640	460
WV-061-004017-002 WHITSON, CAROL Northeast Natural Energy LLC 0.125 or Greater 1630 349 WV-061-004017-003 GAY, THOMAS ETU Northeast Natural Energy LLC 0.125 or Greater 1630 351 WV-061-004017-005 ROLLINS, MILDRE Northeast Natural Energy LLC 0.125 or Greater 1630 353 WV-061-004017-006 COOLEY, TERESA Northeast Natural Energy LLC 0.125 or Greater 1630 357 WV-061-004017-007 WHITAKER, SUSAN Northeast Natural Energy LLC 0.125 or Greater 1640 462 WV-061-004017-009 GAY, MICHAEL J Northeast Natural Energy LLC 0.125 or Greater 1640 462 WV-061-004017-016 FRANKLIN, RACHE Northeast Natural Energy LLC 0.125 or Greater 1647 555 WV-061-004017-017 BOLEY, SARAH ET Northeast Natural Energy LLC 0.125 or Greater 1647 557 WV-061-004017-019 PHILLIPS, JOSPEH Northeast Natural Energy LLC 0.125 or Greater 1647 562 WV-061-004017-000 WILDMAN, JARRET J.W. Scott 0.125 or Greater 1643<	WV-061-003658-012	GAY, KELLY K ET	Northeast Natural Energy LLC	0.125 or Greater	1630	197
WV-061-004017-003 GAY, THOMAS ETU Northeast Natural Energy LLC 0.125 or Greater 1630 351 WV-061-004017-004 GAY, JERRY ETUX Northeast Natural Energy LLC 0.125 or Greater 1630 353 WV-061-004017-005 ROLLINS, MILDRE Northeast Natural Energy LLC 0.125 or Greater 1630 355 WV-061-004017-006 COOLEY, TERESA Northeast Natural Energy LLC 0.125 or Greater 1630 357 WV-061-004017-007 WHITAKER, SUSAN Northeast Natural Energy LLC 0.125 or Greater 1640 462 WV-061-004017-009 GAY, MICHAEL J Northeast Natural Energy LLC 0.125 or Greater 1647 555 WV-061-004017-016 FRANKLIN, RACHE Northeast Natural Energy LLC 0.125 or Greater 1647 555 WV-061-004017-017 BOLEY, SARAH ET Northeast Natural Energy LLC 0.125 or Greater 1647 557 WV-061-004017-019 PHILIPS, JOSPEH Northeast Natural Energy LLC 0.125 or Greater 1647 562 WV-061-004017-000 WILDMAN, JARRET J.W. Scott 0.125 or Greater 1643<	WV-061-004017-001	GAY, JAMES ET	Northest Natural Energy LLC	0.125 or Greater	1630	347
WV-061-004017-004 GAY, JERRY ETUX Northeast Natural Energy LLC 0.125 or Greater 1630 353 WV-061-004017-005 ROLLINS, MILDRE Northeast Natural Energy LLC 0.125 or Greater 1630 355 WV-061-004017-006 COOLEY, TERESA Northeast Natural Energy LLC 0.125 or Greater 1630 357 WV-061-004017-009 WHITAKER, SUSAN Northeast Natural Energy LLC 0.125 or Greater 1640 462 WV-061-004017-009 GAY, MICHAEL J Northeast Natural Energy LLC 0.125 or Greater 1628 335 WV-061-004017-016 FRANKLIN, RACHE Northeast Natural Energy LLC 0.125 or Greater 1647 555 WV-061-004017-017 BOLEY, SARAH ET Northeast Natural Energy LLC 0.125 or Greater 1647 557 WV-061-004017-018 ROGERS, AMIE ET Northeast Natural Energy LLC 0.125 or Greater 1647 560 WV-061-004017-019 PHILLIPS,JOSPEH Northeast Natural Energy LLC 0.125 or Greater 1647 562 WV-061-004020-000 EDDY, MARK & B Northeast Natural Energy LLC 0.125 or Greater	WV-061-004017-002	WHITSON, CAROL	Northeast Natural Energy LLC	0.125 or Greater	1630	349
WV-061-004017-005 ROLLINS, MILDRE Northeast Natural Energy LLC 0.125 or Greater 1630 355 WV-061-004017-006 COOLEY, TERESA Northeast Natural Energy LLC 0.125 or Greater 1630 357 WV-061-004017-007 WHITAKER, SUSAN Northeast Natural Energy LLC 0.125 or Greater 1640 462 WV-061-004017-009 GAY, MICHAEL J Northeast Natural Energy LLC 0.125 or Greater 1628 335 WV-061-004017-016 FRANKLIN, RACHE Northeast Natural Energy LLC 0.125 or Greater 1647 555 WV-061-004017-017 BOLEY, SARAH ET Northeast Natural Energy LLC 0.125 or Greater 1647 557 WV-061-004017-018 ROGERS, AMIE ET Northeast Natural Energy LLC 0.125 or Greater 1647 560 WV-061-004017-019 PHILLIPS,JOSPEH Northeast Natural Energy LLC 0.125 or Greater 1647 562 WV-061-004020-000 EDDY, MARK & B Northeast Natural Energy LLC 0.125 or Greater 1643 204 WV-061-004017-000 WILDMAN, JARRET J.W. Scott 0.125 or Greater 1643 </td <td>WV-061-004017-003</td> <td>GAY, THOMAS ETU</td> <td>Northeast Natural Energy LLC</td> <td>0.125 or Greater</td> <td>1630</td> <td>351</td>	WV-061-004017-003	GAY, THOMAS ETU	Northeast Natural Energy LLC	0.125 or Greater	1630	351
WV-061-004017-006 COOLEY, TERESA Northeast Natural Energy LLC 0.125 or Greater 1630 357 WV-061-004017-007 WHITAKER, SUSAN Northeast Natural Energy LLC 0.125 or Greater 1640 462 WV-061-004017-009 GAY, MICHAEL J Northeast Natural Energy LLC 0.125 or Greater 1628 335 WV-061-004017-016 FRANKLIN, RACHE Northeast Natural Energy LLC 0.125 or Greater 1647 555 WV-061-004017-017 BOLEY, SARAH ET Northeast Natural Energy LLC 0.125 or Greater 1647 557 WV-061-004017-018 ROGERS, AMIE ET Northeast Natural Energy LLC 0.125 or Greater 1647 560 WV-061-004017-019 PHILLIPS, JOSPEH Northeast Natural Energy LLC 0.125 or Greater 1647 562 WV-061-004020-000 EDDY, MARK & B Northeast Natural Energy LLC 0.125 or Greater 1647 562 WV-061-003658-005 SHERMAN, GENE Northeast Natural Energy LLC 0.125 or Greater 1643 204 WV-061-001365-013 YOST, CLARK Northeast Natural Energy LLC 0.125 or Greater	WV-061-004017-004	GAY, JERRY ETUX	Northeast Natural Energy LLC	0.125 or Greater	1630	353
WV-061-004017-007 WHITAKER, SUSAN Northeast Natural Energy LLC 0.125 or Greater 1640 462 WV-061-004017-009 GAY, MICHAEL J Northeast Natural Energy LLC 0.125 or Greater 1628 335 WV-061-004017-016 FRANKLIN, RACHE Northeast Natural Energy LLC 0.125 or Greater 1647 555 WV-061-004017-017 BOLEY, SARAH ET Northeast Natural Energy LLC 0.125 or Greater 1647 557 WV-061-004017-018 ROGERS, AMIE ET Northeast Natural Energy LLC 0.125 or Greater 1647 560 WV-061-004017-019 PHILLIPS,JOSPEH Northeast Natural Energy LLC 0.125 or Greater 1647 562 WV-061-004020-000 EDDY, MARK & B Northeast Natural Energy LLC DEED 1505 572 WV-061-004017-000 WILDMAN, JARRET J.W. Scott 0.125 or Greater 1643 204 WV-061-003658-005 SHERMAN, GENE Northeast Natural Energy LLC 0.125 or Greater 1565 538 WV-061-001365-013 YOST, LARK Northeast Natural Energy LLC 0.125 or Greater 1647 40	WV-061-004017-005	ROLLINS, MILDRE	Northeast Natural Energy LLC	0.125 or Greater	1630	355
WV-061-004017-009 GAY, MICHAEL J Northeast Natural Energy LLC 0.125 or Greater 1628 335 WV-061-004017-016 FRANKLIN, RACHE Northeast Natural Energy LLC 0.125 or Greater 1647 555 WV-061-004017-017 BOLEY, SARAH ET Northeast Natural Energy LLC 0.125 or Greater 1647 557 WV-061-004017-018 ROGERS, AMIE ET Northeast Natural Energy LLC 0.125 or Greater 1647 560 WV-061-004017-019 PHILLIPS, JOSPEH Northeast Natural Energy LLC 0.125 or Greater 1647 562 WV-061-004020-000 EDDY, MARK & B Northeast Natural Energy LLC DEED 1505 572 WV-061-004017-000 WILDMAN, JARRET J.W. Scott 0.125 or Greater 1643 204 WV-061-003658-005 SHERMAN, GENE Northeast Natural Energy LLC 0.125 or Greater 1663 784 WV-061-001365-013 YOST, CLARK Northeast Natural Energy LLC 0.125 or Greater 1647 403 WV-061-003398-001 YOST, LINDA Northeast Natural Energy LLC 0.125 or Greater 1647 405<	WV-061-004017-006	COOLEY, TERESA	Northeast Natural Energy LLC	0.125 or Greater	1630	357
WV-061-004017-016 FRANKLIN, RACHE Northeast Natural Energy LLC 0.125 or Greater 1647 555 WV-061-004017-017 BOLEY, SARAH ET Northeast Natural Energy LLC 0.125 or Greater 1647 557 WV-061-004017-018 ROGERS, AMIE ET Northeast Natural Energy LLC 0.125 or Greater 1647 560 WV-061-004017-019 PHILLIPS,JOSPEH Northeast Natural Energy LLC 0.125 or Greater 1647 562 WV-061-004020-000 EDDY, MARK & B Northeast Natural Energy LLC DEED 1505 572 WV-061-004017-000 WILDMAN, JARRET J.W. Scott 0.125 or Greater 1643 204 WV-061-003658-005 SHERMAN, GENE Northeast Natural Energy LLC 0.125 or Greater 1643 784 WV-061-001365-013 YOST, CLARK Northeast Natural Energy LLC 0.125 or Greater 1647 403 WV-061-001365-014 YOST, JON Northeast Natural Energy LLC 0.125 or Greater 1647 405 WV-061-003398-001 MM-MARCELLUS II Northeast Natural Energy LLC 0.125 or Greater 1631 501 <td>WV-061-004017-007</td> <td>WHITAKER, SUSAN</td> <td>Northeast Natural Energy LLC</td> <td>0.125 or Greater</td> <td>1640</td> <td>462</td>	WV-061-004017-007	WHITAKER, SUSAN	Northeast Natural Energy LLC	0.125 or Greater	1640	462
WV-061-004017-017 BOLEY, SARAH ET Northeast Natural Energy LLC 0.125 or Greater 1647 557 WV-061-004017-018 ROGERS, AMIE ET Northeast Natural Energy LLC 0.125 or Greater 1647 560 WV-061-004017-019 PHILLIPS,JOSPEH Northeast Natural Energy LLC 0.125 or Greater 1647 562 WV-061-004020-000 EDDY, MARK & B Northeast Natural Energy LLC DEED 1505 572 WV-061-004017-000 WILDMAN, JARRET J.W. Scott 0.125 or Greater 1643 204 WV-061-003658-005 SHERMAN, GENE Northeast Natural Energy LLC 0.125 or Greater 1565 538 WV-061-001365-013 YOST, CLARK Northeast Natural Energy LLC 0.125 or Greater 1643 784 WV-061-001365-014 YOST, JON Northeast Natural Energy LLC 0.125 or Greater 1647 403 WV-061-001365-015 YOST, LINDA Northeast Natural Energy LLC 0.125 or Greater 1647 405 WV-061-003398-001 MM-MARCELLUS II Northeast Natural Energy LLC 0.125 or Greater 1631 501	WV-061-004017-009	GAY, MICHAEL J	Northeast Natural Energy LLC	0.125 or Greater	1628	335
WV-061-004017-018 ROGERS, AMIE ET Northeast Natural Energy LLC 0.125 or Greater 1647 560 WV-061-004017-019 PHILLIPS, JOSPEH Northeast Natural Energy LLC 0.125 or Greater 1647 562 WV-061-004020-000 EDDY, MARK & B Northeast Natural Energy LLC DEED 1505 572 WV-061-004017-000 WILDMAN, JARRET J.W. Scott 0.125 or Greater 1643 204 WV-061-003658-005 SHERMAN, GENE Northeast Natural Energy LLC 0.125 or Greater 1565 538 WV-061-001365-013 YOST, CLARK Northeast Natural Energy LLC 0.125 or Greater 1643 784 WV-061-001365-014 YOST, JON Northeast Natural Energy LLC 0.125 or Greater 1647 403 WV-061-001365-015 YOST, LINDA Northeast Natural Energy LLC 0.125 or Greater 1647 405 WV-061-003398-001 MM-MARCELLUS II Northeast Natural Energy LLC 0.125 or Greater 1518 29 WV-061-005303-002 GLOVER, BETTY T Northeast Natural Energy LLC 0.125 or Greater 1631 503	WV-061-004017-016	FRANKLIN, RACHE	Northeast Natural Energy LLC	0.125 or Greater	1647	555
WV-061-004017-019 PHILLIPS, JOSPEH Northeast Natural Energy LLC 0.125 or Greater 1647 562 WV-061-004020-000 EDDY, MARK & B Northeast Natural Energy LLC DEED 1505 572 WV-061-004017-000 WILDMAN, JARRET J.W. Scott 0.125 or Greater 1643 204 WV-061-003658-005 SHERMAN, GENE Northeast Natural Energy LLC 0.125 or Greater 1565 538 WV-061-001365-013 YOST, CLARK Northeast Natural Energy LLC 0.125 or Greater 1643 784 WV-061-001365-014 YOST, JON Northeast Natural Energy LLC 0.125 or Greater 1647 403 WV-061-001365-015 YOST, LINDA Northeast Natural Energy LLC 0.125 or Greater 1647 405 WV-061-003398-001 MM-MARCELLUS II Northeast Natural Energy LLC 0.125 or Greater 1518 29 WV-061-005303-001 TENNANT, KEITH Northeast Natural Energy LLC 0.125 or Greater 1631 501 WV-061-005303-002 GLOVER, BETTY T Northeast Natural Energy LLC 0.125 or Greater 1638 366	WV-061-004017-017	BOLEY, SARAH ET	Northeast Natural Energy LLC	0.125 or Greater	1647	557
WV-061-004020-000 EDDY, MARK & B Northeast Natural Energy LLC DEED 1505 572 WV-061-004017-000 WILDMAN, JARRET J.W. Scott 0.125 or Greater 1643 204 WV-061-003658-005 SHERMAN, GENE Northeast Natural Energy LLC 0.125 or Greater 1565 538 WV-061-001365-013 YOST, CLARK Northeast Natural Energy LLC 0.125 or Greater 1643 784 WV-061-001365-014 YOST, JON Northeast Natural Energy LLC 0.125 or Greater 1647 403 WV-061-001365-015 YOST, LINDA Northeast Natural Energy LLC 0.125 or Greater 1647 405 WV-061-003398-001 MM-MARCELLUS II Northease Natural Energy LLC 0.125 or Greater 1518 29 WV-061-005303-001 TENNANT, KEITH Northeast Natural Energy LLC 0.125 or Greater 1631 501 WV-061-005303-002 GLOVER, BETTY T Northeast Natural Energy LLC 0.125 or Greater 1631 503 WV-061-005303-003 YOST, LARRY E. Northeast Natural Energy LLC 0.125 or Greater 1636 652	WV-061-004017-018	ROGERS, AMIE ET	Northeast Natural Energy LLC	0.125 or Greater	1647	560
WV-061-004017-000 WILDMAN, JARRET J.W. Scott 0.125 or Greater 1643 204 WV-061-003658-005 SHERMAN, GENE Northeast Natural Energy LLC 0.125 or Greater 1565 538 WV-061-001365-013 YOST, CLARK Northeast Natural Energy LLC 0.125 or Greater 1643 784 WV-061-001365-014 YOST, JON Northeast Natural Energy LLC 0.125 or Greater 1647 403 WV-061-001365-015 YOST, LINDA Northeast Natural Energy LLC 0.125 or Greater 1647 405 WV-061-003398-001 MM-MARCELLUS II Northeast Natural Energy LLC 0.125 or Greater 1518 29 WV-061-005303-001 TENNANT, KEITH Northeast Natural Energy LLC 0.125 or Greater 1631 501 WV-061-005303-002 GLOVER, BETTY T Northeast Natural Energy LLC 0.125 or Greater 1631 503 WV-061-005303-003 YOST, LARRY E. Northeast Natural Energy LLC 0.125 or Greater 1636 652 WV-061-005487-001 TENNANT, SCOTT Northeast Natural Energy LLC 0.125 or Greater 1647 7	WV-061-004017-019	PHILLIPS, JOSPEH	Northeast Natural Energy LLC	0.125 or Greater	1647	562
WV-061-003658-005 SHERMAN, GENE Northeast Natural Energy LLC 0.125 or Greater 1565 538 WV-061-001365-013 YOST, CLARK Northeast Natural Energy LLC 0.125 or Greater 1643 784 WV-061-001365-014 YOST, JON Northeast Natural Energy LLC 0.125 or Greater 1647 403 WV-061-001365-015 YOST, LINDA Northeast Natural Energy LLC 0.125 or Greater 1647 405 WV-061-003398-001 MM-MARCELLUS II Northeast Natural Energy LLC 0.125 or Greater 1518 29 WV-061-005303-001 TENNANT, KEITH Northeast Natural Energy LLC 0.125 or Greater 1631 501 WV-061-005303-002 GLOVER, BETTY T Northeast Natural Energy LLC 0.125 or Greater 1631 503 WV-061-005303-003 YOST, JACKIE L Northeast Natural Energy LLC DEED 1638 366 WV-061-005303-004 YOST, LARRY E. Northeast Natural Energy LLC 0.125 or Greater 1636 652 WV-061-005487-001 TENNANT, SCOTT Northeast Natural Energy LLC 0.125 or Greater 1647	WV-061-004020-000	EDDY, MARK & B		DEED	1505	572
WV-061-001365-013 YOST, CLARK Northeast Natural Energy LLC 0.125 or Greater 1643 784 WV-061-001365-014 YOST, JON Northeast Natural Energy LLC 0.125 or Greater 1647 403 WV-061-001365-015 YOST, LINDA Northeast Natural Energy LLC 0.125 or Greater 1647 405 WV-061-003398-001 MM-MARCELLUS II Northeast Natural Energy LLC 0.125 or Greater 1518 29 WV-061-005303-001 TENNANT, KEITH Northeast Natural Energy LLC 0.125 or Greater 1631 501 WV-061-005303-002 GLOVER, BETTY T Northeast Natural Energy LLC 0.125 or Greater 1631 503 WV-061-005303-003 YOST, JACKIE L Northeast Natural Energy LLC DEED 1638 366 WV-061-005303-004 YOST, LARRY E. Northeast Natural Energy LLC 0.125 or Greater 1636 652 WV-061-005487-001 TENNANT, SCOTT Northeast Natural Energy LLC 0.125 or Greater 1647 796 WV-061-003311-001 MC MINERAL CO. CHESAPEAKE APPALACHIA, L.L.C. 0.125 or Greater 1640	WV-061-004017-000	WILDMAN, JARRET	J.W. Scott	0.125 or Greater	1643	204
WV-061-001365-014 YOST, JON Northeast Natural Energy LLC 0.125 or Greater 1647 403 WV-061-001365-015 YOST, LINDA Northeast Natural Energy LLC 0.125 or Greater 1647 405 WV-061-003398-001 MM-MARCELLUS II Northease Natural Energy LLC 0.125 or Greater 1518 29 WV-061-005303-001 TENNANT, KEITH Northeast Natural Energy LLC 0.125 or Greater 1631 501 WV-061-005303-002 GLOVER, BETTY T Northeast Natural Energy LLC 0.125 or Greater 1631 503 WV-061-005303-003 YOST, JACKIE L Northeast Natural Energy LLC DEED 1638 366 WV-061-005303-004 YOST, LARRY E. Northeast Natural Energy LLC 0.125 or Greater 1636 652 WV-061-005487-001 TENNANT, SCOTT Northeast Natural Energy LLC 0.125 or Greater 1647 796 WV-061-003311-001 MC MINERAL CO. CHESAPEAKE APPALACHIA, L.L.C. 0.125 or Greater 120 769 WV-061-005402-001 RODRIGUEZ, MARI Northeast Natural Energy LLC 0.125 or Greater 1640	WV-061-003658-005	SHERMAN, GENE	Northeast Natural Energy LLC	0.125 or Greater	1565	538
WV-061-001365-015 YOST, LINDA Northeast Natural Energy LLC 0.125 or Greater 1647 405 WV-061-003398-001 MM-MARCELLUS II Northease Natural Energy LLC 0.125 or Greater 1518 29 WV-061-005303-001 TENNANT, KEITH Northeast Natural Energy LLC 0.125 or Greater 1631 501 WV-061-005303-002 GLOVER, BETTY T Northeast Natural Energy LLC 0.125 or Greater 1631 503 WV-061-005303-003 YOST, JACKIE L Northeast Natural Energy LLC DEED 1638 366 WV-061-005303-004 YOST, LARRY E. Northeast Natural Energy LLC 0.125 or Greater 1636 652 WV-061-005487-001 TENNANT, SCOTT Northeast Natural Energy LLC 0.125 or Greater 1647 796 WV-061-003311-001 MC MINERAL CO. CHESAPEAKE APPALACHIA, L.L.C. 0.125 or Greater 120 769 WV-061-005402-001 RODRIGUEZ, MARI Northeast Natural Energy LLC 0.125 or Greater 1640 407	WV-061-001365-013	YOST, CLARK	Northeast Natural Energy LLC	0.125 or Greater	1643	784
WV-061-003398-001 MM-MARCELLUS II Northease Natural Energy LLC 0.125 or Greater 1518 29 WV-061-005303-001 TENNANT, KEITH Northeast Natural Energy LLC 0.125 or Greater 1631 501 WV-061-005303-002 GLOVER, BETTY T Northeast Natural Energy LLC 0.125 or Greater 1631 503 WV-061-005303-003 YOST, JACKIE L Northeast Natural Energy LLC DEED 1638 366 WV-061-005303-004 YOST, LARRY E. Northeast Natural Energy LLC 0.125 or Greater 1636 652 WV-061-005487-001 TENNANT, SCOTT Northeast Natural Energy LLC 0.125 or Greater 1647 796 WV-061-003311-001 MC MINERAL CO. CHESAPEAKE APPALACHIA, L.L.C. 0.125 or Greater 120 769 WV-061-005402-001 RODRIGUEZ, MARI Northeast Natural Energy LLC 0.125 or Greater 1640 407	WV-061-001365-014	YOST, JON	Northeast Natural Energy LLC	0.125 or Greater	1647	403
WV-061-005303-001 TENNANT, KEITH Northeast Natural Energy LLC 0.125 or Greater 1631 501 WV-061-005303-002 GLOVER, BETTY T Northeast Natural Energy LLC 0.125 or Greater 1631 503 WV-061-005303-003 YOST, JACKIE L Northeast Natural Energy LLC DEED 1638 366 WV-061-005303-004 YOST, LARRY E. Northeast Natural Energy LLC 0.125 or Greater 1636 652 WV-061-005487-001 TENNANT, SCOTT Northeast Natural Energy LLC 0.125 or Greater 1647 796 WV-061-003311-001 MC MINERAL CO. CHESAPEAKE APPALACHIA, L.L.C. 0.125 or Greater 120 769 WV-061-005402-001 RODRIGUEZ, MARI Northeast Natural Energy LLC 0.125 or Greater 1640 407	WV-061-001365-015	YOST, LINDA		0.125 or Greater	1647	405
WV-061-005303-001 TENNANT, KEITH Northeast Natural Energy LLC 0.125 or Greater 1631 501 WV-061-005303-002 GLOVER, BETTY T Northeast Natural Energy LLC 0.125 or Greater 1631 503 WV-061-005303-003 YOST, JACKIE L Northeast Natural Energy LLC DEED 1638 366 WV-061-005303-004 YOST, LARRY E. Northeast Natural Energy LLC 0.125 or Greater 1636 652 WV-061-005487-001 TENNANT, SCOTT Northeast Natural Energy LLC 0.125 or Greater 1647 796 WV-061-003311-001 MC MINERAL CO. CHESAPEAKE APPALACHIA, L.L.C. 0.125 or Greater 120 769 WV-061-005402-001 RODRIGUEZ, MARI Northeast Natural Energy LLC 0.125 or Greater 1640 407	WV-061-003398-001	MM-MARCELLUS II	Northease Natural Energy LLC	0.125 or Greater	1518	29
WV-061-005303-002 GLOVER, BETTY T Northeast Natural Energy LLC 0.125 or Greater 1631 503 WV-061-005303-003 YOST, JACKIE L Northeast Natural Energy LLC DEED 1638 366 WV-061-005303-004 YOST, LARRY E. Northeast Natural Energy LLC 0.125 or Greater 1636 652 WV-061-005487-001 TENNANT, SCOTT Northeast Natural Energy LLC 0.125 or Greater 1647 796 WV-061-003311-001 MC MINERAL CO. CHESAPEAKE APPALACHIA, L.L.C. 0.125 or Greater 120 769 WV-061-005402-001 RODRIGUEZ, MARI Northeast Natural Energy LLC 0.125 or Greater 1640 407	WV-061-005303-001	TENNANT, KEITH		0.125 or Greater	1631	501
WV-061-005303-003 YOST, JACKIE L Northeast Natural Energy LLC DEED 1638 366 WV-061-005303-004 YOST, LARRY E. Northeast Natural Energy LLC 0.125 or Greater 1636 652 WV-061-005487-001 TENNANT, SCOTT Northeast Natural Energy LLC 0.125 or Greater 1647 796 WV-061-003311-001 MC MINERAL CO. CHESAPEAKE APPALACHIA, L.L.C. 0.125 or Greater 120 769 WV-061-005402-001 RODRIGUEZ, MARI Northeast Natural Energy LLC 0.125 or Greater 1640 407		1				
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WV-061-005487-001 TENNANT, SCOTT Northeast Natural Energy LLC 0.125 or Greater 1647 796 WV-061-003311-001 MC MINERAL CO. CHESAPEAKE APPALACHIA, L.L.C. 0.125 or Greater 120 769 WV-061-005402-001 RODRIGUEZ, MARI Northeast Natural Energy LLC 0.125 or Greater 1640 407	******				 	
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KARIN DIRIN CORPURATION SERVICE COMPANY 2711 CENTERVILLE ROAD SUITE 400 WILHINGTON , DE 19808-

Carve L. Blaney MONONGALIA COUNTY 10:18:29 AM Instrument No 523722 Date Recorded 10/28/2013 Document Type DT Pages Recorded 9 Recording Fee \$15.00 Additional \$5.00

1972-593

RECORDING SUPPLEMENT AGREEMENT

and

FINANCING STATEMENT AND FIXTURE FILING TO THAT CERTAIN JOINT **OPERATING AGREEMENT DATED JANUARY 20, 2011,**

By and Between

NORTHEAST NATURAL ENERGY LLC ("NNE"), AS OPERATOR, and

PACHIRA ENERGY LLC ("Pachira"), AS NON-OPERATOR

THIS RECORDING SUPPLEMENT AGREEMENT, FINANCING STATEMENT, AND FIXTURE FILING IS TO BE FILED OF RECORD AS A FINANCING STATEMENT AND FIXTURE FILING IN THE REAL ESTATE RECORDS OF THE COUNTY WHERE THE INTERESTS ARE LOCATED

THIS RECORDING SUPPLEMENT AGREEMENT, FINANCING STATEMENT, AND FIXTURE FILING ("Agreement") entered into by and between Northeast Natural Energy LLC, hereinafter referred to as "NNE" or "Operator," and the signatory party other than Operator, Pachira Energy LLC, hereinafter referred to as "Pachira" or "Non-Operator."

WHEREAS, the parties to this Agreement are owners of oil and gas leases or interests covering tracts of land ("Oil and Gas Leases" or "Leases") and unleased fee and mineral interests in oil and gas tracts of land ("Oil and Cas Interests" or "Interests") with the Leases and/or Interests intended to be developed and operated for oil and gas purposes as described as set forth on Exhibit "A" ("Contract Area"), attached hereto and incorporated herein:

WHEREAS, the parties hereto have executed a Joint Operating Agreement dated January 20, 2011, (the "Operating Agreement"), covering the Contract Area for the purpose of exploring and developing such lands, Leases, and Interests for Oil and Gas; and

WHEREAS, the parties hereto have executed this Agreement for the purpose of imparting notice to all persons of the rights and obligations of the parties under the Operating Agreement and for the further purpose of perfecting those rights capable of perfection.

NOW, THEREFORE, in consideration of the mutual rights and obligations of the parties hereto and intending to be legally bound hereby, it is agreed as follows:

- 1. The above recitals and the Operating Agreement in its entirety are hereby incorporated by reference. All terms used herein shall have the meaning ascribed to them in the Operating Agreement. In the event of a conflict between the terms and provisions of this Agreement and the terms and provisions of the Operating Agreement, the terms and provisions of the Operating Agreement shall control.
- 2. The term of the Operating Agreement shall commence on the date of its execution, and shall remain in effect as to the Oil and Gas Leases and/or Oil and Gas Interests subject thereto as follows:

In the event the well described in Article VI.A of the Operating Agreement, or a subsequent well drilled under any provision of the Operating Agreement, results in the Completion of a well as a well capable of production of Oil and/or Gas in paying quantities, then the Operating Agreement shall continue in force so long as any such well is capable of production, and for an additional period of 120 days thereafter provided, however, if, prior to the expiration of such additional period, one or more of the parties are engaged in drilling, Reworking, Deepening, Sidetracking, Plugging Back, testing or attempting to Complete or Re-complete a well or wells, the Operating Agreement shall continue in force until such operations have been completed and if production results therefrom, the Operating Agreement shall continue in force as provided therein before. In the event the well described in Article VI.A of the Operating Agreement, or any subsequent well drilled hereunder, results in a dry hole, and no other well is capable of producing Oil and/or Gas from the Contract Area, the Operating Agreement and this Agreement shall terminate unless drilling, Deepening, Sidetracking, Completing, Recompleting, Plugging Back or Reworking operations are commenced within 120 days from the date of abandonment of said well. "Abandonment" for such purposes shall mean either (i) a decision by all parties not to conduct any further operations on the well or (ii) the elapse of 180 days from the conduct of any operations on the well, whichever first occurs

- 3. The parties do hereby agree that;
 - A. The Oil and Gas Leases and/or Oil and Gas Interests of the parties comprising the Contract Area shall be subject to and burdened with the terms and provisions of this Agreement and the Operating Agreement, and the parties do hereby commit such Leases and Interests to the performance thereof.
 - B. The exploration and development of the Contract Area for Oil and Gas shall be governed by the terms and provisions of the Operating Agreement, as supplemented by this Agreement.

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- C. All costs and liabilities incurred in operations under this Agreement and the Operating Agreement shall be borne and paid, and all equipment and materials acquired in operations on the Contract Area shall be owned, by the parties hereto, as provided in the Operating Agreement.
- D. Regardless of the record title ownership to the Oil and Gas Leases and/or Oil and Gas Interests identified on Exhibit "A," all production of Oil and Gas from the Contract Area shall be owned by the parties as provided in the Operating Agreement; provided nothing contained in this Agreement shall be deemed an assignment or cross-assignment of interests covered hereby.
- E. Each party shall pay or deliver, or cause to be paid or delivered, all burdens on its share of the production from the Contract Area as provided in the Operating Agreement.
- F. An overriding royalty, production payment, net profits interest or other burden payable out of production hereafter created, assignments of production given as security for the payment of money and those overriding royalties, production payments and other burdens payable out of production heretofore created and defined as Subsequently Created Interests in the Operating Agreement shall be (i) borne solely by the party whose interest is burdened therewith, (ii) subject to suspension if a party is required to assign or relinquish to another party an interest which is subject to such burden, and (iii) subject to the lien and security interest hereinafter provided if the party subject to such burden fails to pay its share of expenses chargeable hereunder and under the Operating Agreement, all upon the terms and provisions and in the times and manner provided by the Operating Agreement.
- G. The Oil and Gas Leases and/or Oil and Gas Interests which are subject hereto may not be assigned or transferred except in accordance with those terms, provisions and restrictions in the Operating Agreement regulating such transfers.
- H. The parties shall have the right to acquire an interest in renewal, extension and replacement leases, leases proposed to be surrendered, wells proposed to be abandoned, and interests to be relinquished as a result of non-participation in subsequent operations, all in accordance with the terms and provisions of the Operating Agreement.
- 1. The rights and obligations of the parties and the adjustment of interests among them in the event of a failure or loss of title, each party's right to propose operations, obligations with respect to participation in operations on the Contract Area and the consequences of a failure to participate in operations, the rights and obligations of the parties regarding the marketing of production, and the rights and remedies of the parties for failure to comply with financial obligations shall be as provided in the Operating Agreement.
- J. Each party's interest under this Agreement and under the Operating Agreement shall be subject to relinquishment for its failure to participate in subsequent operations and each party's share of production and costs shall be reallocated on the basis of such relinquishment, all upon the terms and provisions provided in the Operating Agreement.
- K. All other matters with respect to exploration and development of the Contract Area and the ownership and transfer of the Oil and Gas Leases and/or Oil and Gas Interest therein shall be governed by the terms and provisions of the Operating Agreement.
- 4. The parties hereby grant reciprocal liens and security interests as follows:
 - A. Subject to any limitations or conditions of any agreement between the parties, each party grants to the other party hereto a lien upon any interest it now owns or hereafter acquires in Oil and Gas Leases and Interests in the Contract Area, and a security interest and/or purchase money security interest in any interest it now owns or hereafter acquires in the personal property and fixtures on or used or obtained for use in connection therewith, to secure performance of all of its obligations under this Agreement and the Operating Agreement including but not limited to payment of expense, interest and fees, the proper disbursement of all monies paid under this Agreement and the Operating Agreement, the assignment or relinquishment of interest in Oil and Gas Leases as required under this Agreement and the Operating Agreement, and the proper performance of operations under this Agreement and the Operating Agreement. Such lien and security interest granted by each party hereto shall include such party's leasehold interests, working interests, operating rights, and royalty and overriding royalty interests in the Contract Area now owned or hereafter acquired and in lands pooled or unitized therewith or otherwise becoming subject to this Agreement and the Operating Agreement, the Oil and Gas when extracted therefrom and equipment situated thereon or used or obtained for use in connection therewith (including, without limitation, all wells, tools, and tubular goods), and accounts (including, without limitation, accounts arising from the sale of production at the wellhead), contract rights, inventory and general intangibles relating thereto or arising therefrom, and all proceeds and products of the foregoing. This Agreement covers as extracted collateral. This Agreement is to be filed of record in the county where the Oil and Gas Leases are located as a financing statement and fixture filing to perfect such security interest and covers goods which are or are to become fixtures. Any secured party may also file separate UCC-1 Financing Statements, continuation statements or other instruments to perfect such security interest.

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- B. The parties acknowledge that NNE has an existing Open-End Mortgage, Line of Credit Mortgage, Leasehold Mortgage, Assignment, Fixture Filing, Security Agreement and Financing Statement for the benefit of Wells Fargo Bank, N.A., dated March 12, 2010, recorded in Greene County, Pennsylvania, at Official Record Book 427, Page 2203, and Official Record Book 460, Page 2020, and NNE has an existing Credit Line Deed of Trust, Assignment, Fixture Filing, Security Agreement, and Financing Statement to Ellen S. Cappellanti, as Trustee, for the benefit of Wells Fargo Bank, N.A., as Administrative Agent and Beneficiary in Monongalia County, West Virginia, at Deeds and Trust Book 1893, Page 729 (both collectively referred to herein as the "Wells Fargo Mortgages"). NNE represents and warrants to Pachira that, with respect to the Contract Area, and the Oil and Gas Leases and Oil and Gas Interests in the Contract Area, the Wells Fargo Mortgages are limited to and include only the following wells: Statler #1H (API No. 47-610625) and Statler #3H (API No. 47-610626), both of which are located in the Statler Pad North Unit (the "Statler Wells"). Each party represents and warrants to the other party hereto that, with the sole exception of the security interests specifically set forth in the Wells Fargo Mortgages regarding the Statler Wells, the lien and security interest granted herein by such party to the other party shall be a first and prior lien, and each party hereby agrees to maintain the priority of said lien and security interest and the lien and security interest granted by this Agreement and the Operating Agreement against all persons acquiring an interest in Oil and Gas Leases and Oil and Gas Interests covered by this Agreement and the Operating Agreement by, through or under such party. All parties acquiring an interest in Oil and Gas Leases and Oil and Gas Interests covered by this Agreement and the Operating Agreement, whether by assignment, merger, mortgage, operation of law, or otherwise, shall be deemed to have taken subject to the lien and security interest granted by the Operating Agreement and this Agreement as to all obligations attributable to such interest under this Agreement and the Operating Agreement whether or not such obligations arise before or after such interest is acquired.
- C. To the extent that acreage owned by third parties (that is, acreage not owned by NNE or Pachira) is reasonably determined by the parties as being necessary for the development of the Contract Area and the Oil and Gas Leases and Oil and Gas Interests by the parties, the parties will enter into operating agreement(s) with such third parties that are not affiliated with NNE or Pachira ("Third Party IOA"). The Operating Agreement shall automatically be deemed to not cover in any respect whatsoever the Third Party JOA, and such Third Party JOA shall be deemed to govern and control, that portion of the Contract Area that is subject to such Third Party JOA, including, but not limited to, all terms and conditions governing the proposing, drilling and operation of the applicable well(s) thereon. Pachira shall not be charged any amount in addition to the monthly well operating fee set forth in Exhibit C of the Operating Agreement on account of any monthly well operating fee associated with any Third Party JOA, provided however, that Pachira shall continue to be charged the monthly well operating fee set forth in Exhibit C of the Operating Agreement.
- D. To the extent that the parties have a security interest under the Uniform Commercial Code (the "Code") of the state in which the Contract Area is situated, they shall be entitled to exercise the rights and remedies of a secured party under the Code. The bringing of a suit and the obtaining of judgment by a party for the secured indebtedness shall not be deemed an election of remedies or otherwise affect the lien rights or security interest as security for the payment thereof. In addition, upon default by any party in the payment of its share of expenses, interest or fees, or upon the improper use of funds by the Operator, the other parties shall have the right, without prejudice to other rights or remedies, to collect from the purchaser the proceeds from the sale of such defaulting party's share of Oil and Gas until the amount owed by such party, plus interest, has been received, and shall have the right to offset the amount owed against the proceeds from the sale of such defaulting party's share of Oil and Gas. All purchasers of production may rely on a notification of default from the non-defaulting party or parties stating the amount due as a result of the default, and all parties waive any recourse available against purchasers for releasing production proceeds as provided in this paragraph.
- E. If any party fails to pay its share of expenses within one hundred-twenty (120) days after rendition of a statement therefor by Operator the non-defaulting parties, including Operator, shall, upon request by Operator, pay the unpaid amount in the proportion that the interest of each such party bears to the interest of all such parties. The amount paid by each party so paying its share of the unpaid amount shall be secured by the liens and security rights described in this paragraph 4 and in the Operating Agreement, and each paying party may independently pursue any remedy available under the Operating Agreement or otherwise.
- F. If any party does not perform all of its obligations under this Agreement or the Operating Agreement, and the failure to perform subjects such party to foreclosure or execution proceedings pursuant to the provisions of this Agreement or the Operating Agreement, to the extent allowed by governing law, the defaulting party waives any available right of redemption from and after the date of judgment, any required valuation or appraisement of the mortgaged or secured property prior to sale, any available right to stay execution or to require a marshalling of assets and any required bond in the event a receiver is appointed. In addition, to the extent permitted by applicable law, each party hereby grants to the other parties a power of sale as to any property that is subject to the lien and security rights granted hereunder or under the Operating Agreement, such power to be exercised in the manner provided by applicable law or otherwise in a commercially reasonable manner and upon reasonable notice.
- G. The lien and security interest granted in this Section 4 supplements the rights granted under the Operating Agreement.

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- H. To the extent permined by applicable law, Non-Operator agrees that Operator may invoke or utilize the mechanics' or materialmen's lien law of the state in which the Contract Area is situated in order to secure the payment to Operator of any non due under this Agreement and the Operating Agreement for services performed or materials supplied by Operator.
- 1. The above described security will be financed at the wellhead of the well or wells located on the Counted Area and this Recording Supplement may be filed in the land records in the County in which the Contract Area is located, and as a financing statement in all recording offices required under the Code or other applicable state statement to perfect the above-described security interest, and any party hereto may file a continuation statement as necessary under the Code, or other state laws.
- J. This Agreement secures an obligation that may increase and/or decrease from time to time.
- 5. This Agreement secures an obligation that may increase and/or decrease from time to thate.
 5. This Agreement and the Operating Agreement shall be binding upon and shall inure to the benefit of the parties hereto and their respective heirs, devisces, legal representatives, successors and assigns. No sale, encumbrance transfer or other disposition shall be made by any party of any interest in the Lenses or Interests subject hereto except as expressly permitted under the Operating Agreement and, if permitted, shall be made expressly subject better to this Agreement and the Operating Agreement and without prejudice to the rights of the other parties. If the transfer is permitted, the assignee of an ownership interest in any Oil and Gas Lease shall be deemed a party to this Agreement and the Operating Agreement as to the interest assigned from and after the effective date of the transfer of ownership; provided, however, that the other parties shall not be required to recognize any such sale, encumbrance, transfer or other disposition for any purpose hereunder until thirty (30) days after they have received a copy of the instrument of orunsfer or other sinsfectory evidence thereof in writing from the transferor or transferoe. No assignment or other disposition of interest by a party shall relieve such party of obligations previously incurred by such party under this Agreement or the Operating Agreement with respect to the interest transferred, including without limitation the obligation of a party to pay all coasts antibusable to an operation conducted under this Agreement and the Operating Agreement in which such party has agreed to participate prior to making such assignment, and the liera and security interest granted by Arricke VILBs. of the Operating Agreement and hereby shall continue to burden the interest transferred to secure payment of any such obligations.
- 6. This Agreement and the Operating Agreement shall be binding upon and shall inure to the benefit of the parties hereto, and their respective heirs, devisees, legal representatives, and assigns, and the terms hereof shall be deemed to run with the leases or interests, including the Oil and Gas Leases or Interests, within the Contract
- 7. This Agreement shall be effective as of the date of the Operating Agreement as above recited. Upon termination of this Agreement and the Operating Agreement and the satisfaction of all obligations thereunder, Operator is authorized to file of record in all necessary recording offices a notice of termination, and each party hereto agrees to execute such a notice of remination as to Operator's interest, upon the request of Operator, if Operator has complied with all of its financial obligations.
- The parties entered into an Area of Mutual Interest and Exploration Agreement ("Blacksville AMI") dated January 20, 2011, setting forth other terms and conditions pertaining to the Contract Area.

[Signature page follows.]

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IN WITNESS WHEREOF, this Filing shall be effective as of the FSEP day	Recording Supplement Agreement, Financing Statement, An
Litting agent oc criective as or the 15-2 may	
ATTEST OR WITNESS	OPERATOR Northeast Natural Energy, LLC
	By: Christopher Mullen Title: Vice President of Land
	Address 707 Virginia Street East Suite 1200, Chase Tower Charleston, WV 25301
	NON-OPERATOR
ATTEST OR WITNESS	Packira Kaengy, LLC Leny M. Statler Title: Managing Member
	Date: <u>/6/23/20/2</u> Address: 5150 Tamiami Trail, Suite 504, Newgane Tower Neples, Florida 34103
	[Acknowledgements follow.]

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ACKNOWLEDGMENTS

: SS

STATE OF WEST VIRGINIA

COUNTY OF KANAWHA

ON THIS, the 22² day of <u>leftur</u>, 2013, before me, the undersigned officer, personally appeared Christopher Mullen, who acknowledged himself to be the Vice-President of Land, Northeast Natural Energy, LLC, and that he as such officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained, by signing the name of the limited liability company by him/herself as said officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Notary Public
My Commission expires: February 7, 2010

(Notarial Seal)

Official Seat
States of West Virgidia
Modary Protots
Breads J. Rivatur
P.O. Bee 665
Phd. 699 2615
Wy Loomobiaston Equitor Pals 7, 2000

STATE OF FLORIDA : SS COUNTY OF COLLER :

ON THIS, the <u>2282</u> day of <u>October</u>, 2013, before me, the undersigned officer, personally appeared Benjamin M. Statler, who acknowledged himself to be the Managing Member of Pachira Energy, LLC, and that he as such officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained, by signing the name of the limited liability company by him/herself as said officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Notary Public

My Commission expires: Twe 21, 2014

(Notariai Seal)

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This instrument was prepared by: Steptoe & Johnson PLLC P. O. Box 1588 Charleston, WV 25326-1588

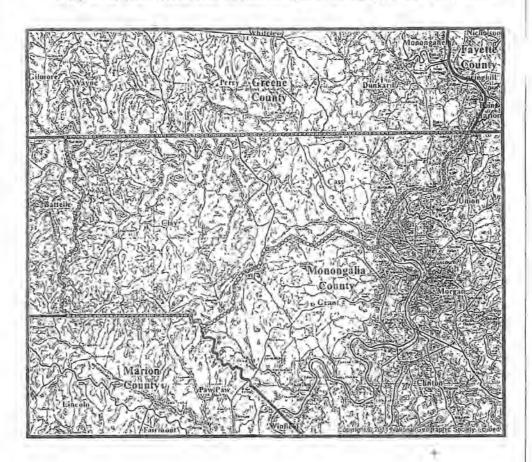
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Exhibit "A"

The Contract Area being all lands located in Clay and Cass Districts of Monongalia County, West Virginia



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EXHIBIT "A"

Monongalia County, West Virginia

		igalia County, 1			to another than the state of
LEASE AGREEMENT	TLESSOR	LEASETTYPE	LEASE/DATE	REGORDING (BK/PG	TAX MAP AND PARGE
wy 061 000179 001	HEIMSATH,CHRIST	LEASE	9/7/2010	1428/872	2-31, 31.1, 31.2, 31.3, 31.4, 31.5, 31.6, 31.7, 31.8, 31.9, 31.10, 7-71 71.1, 26, 26.2,
WV 061 000179 002	PUGH, MARGARET	LEASE	3/10/2011	1438/568)h.
WV 061 000179 003	SPENCER, WILLIAM	LEASE	3/10/2011	1438/564	m
WV 061 000179 004	JOHNSTON,MONTO	LEASE	3/15/2011	1441/638	"
WV 061 000179 005	HEADLEY, DWIGHT	LEASE	3/16/2011	1441/634	н
WV 061 000179 006	KINSEY, WILLIS	LEASE	3/11/2011	1441/630	-90
WV 061 000179 007	HEADLEY, CHARLES	LEASE	3/14/2011	1441/501	W
WV 061 000179 008	JOHNSTON, DONALD	LEASE	3/18/2011	1441/643	AL
WV 061 000179 009	FOLTZ, CYNTHIA	LEASE	3/30/2011	1441/626	
WV 061 000179 010	JOHNSTON, CHARLES	LEASE	4/14/2011	1441/622	W
WV 061 000179 011	BENNER, BARBARA	LEASE	3/22/2011	1441/618	TH.
WV 061 000179 012	COEN,EARL L	LEASE	3/23/2011	1441/614	
WV 061 000179 013	TROTTER,GEORGE	LEASE	3/22/2011	1441/605	- 10
WV 061 000179 014	CLOVIS, JAMES JR	LEASE	5/9/2011	1441/609	
WV 061 000179 015	MATTHEWS, ANNA	LEASE	3/18/2011	1444/48	А.
WV 061 000179 016	COEN, FLORENCE	LEASE	4/14/2011	1444/52	30
WV 061 000179 017	LEMLEY, RAYMOND	LEASE :	4/7/2011	1444/44	
WV 061 000179 018	SEAMAN, EDGAR	LEASE	3/17/2011	1444/36	
WV 061 000179 019	VARNER, WILLA	LEASE	3/21/2011	1444/56	
WV 061 000179 020	GLENN, MARY ANN	LEASE	3/22/2011	1444/27	-0
WV 061 000179 021	LEMLEY, SOLOMON	DEED	3/21/2011	1447/366	ų.
	LEMLEY, BETTY J	DEED	4/15/2011	1447/381	710
WV 061 000179 022 WV 061 000179 023	LEMLEY, CHARLES	DEED	3/21/2011	1447/371	(B)
	LEMLEY, JOSEPHINE	DEED	3/25/2011	1447/376	
WV 061 000179 024 WV 061 000179 025	ANDERSON, NANCY	LEASE	3/16/2011	1441/236	ar -
	HARKER, DARRELL	LEASE	7/13/2011	1442/618	X)m
WV 061 000179 026 WV 061 000179 027	SEAMAN, FRANCES	LEASE	7/13/2011	1442/616	- Ori
WV 061 000179 027 WV 061 000179 028	LEMLEY, ROMELLE	LEASE	7/28/2011	1445/797	(t)
WV 061 000179 029	KENNEDY,JOHN	LEASE	7/28/2011	1447/822	4
WV 061 000179 029 WV 061 000179 030	JOHNSTON, BERNICE	LEASE	4/30/2011	1444/40	
WV 061 000179 030	MOORE, SHIRLEY	LEASE	7/5/2011	1445/799	- cr
WV 061 000179 032	MEANS, MARY JANE	LEASE	8/23/2011	1446/353	h.
	ELLIOTT, ROBERT	LEASE	8/23/2011	1446/351	· ·
WV 061 000179 033		LEASE	8/22/2011	1446/355	8'
WV 061 000179 034	WHYTE, PATRICIA	LEASE	8/23/2011	1447/843	
WV 061 000179 035	WHITE, DAVID	LEASE	8/31/2011	1447/824	
WV 061 000179 036	SCHRUM, CHRISTI	LEASE	7/21/2011	1448/216	
WV 061 000179 037	COPELAND, KENNETH		8/23/2011	1447/841	
WV 051 000179 038	GABBERT, ANNA	LEASE	6/23/2011	1441/041	

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LEASE/AGREEMENT	LESSOR	LEASEITYPE	LEASE DATE	BK/PG	TAXIMAP AND PARCE
WV 061 000179 039	BESS, CLAYTON	LEASE	12/9/2011	1450/6	и.
WV 061 000179 040	HEADLEY, BETTY	LEASE	12/19/2011	1454/421	"
WV 061 000179 041	HOWARD, PATRICIA	LEASE	11/03/2011	1456/43	п
WV 061 000179 042	RICHARDSON, BETTY	LEASE	5/28/2013	1483/817	
					2-32, 2-27, 2-28,
					2-29, 2-30, 7-25,
WV 061 000180 000	MOORE, REBECCA	LEASE	1/27/2011	1428/594	7-26.5, 7-67
WV 061 000181 001	RABER, BERNARD	LEASE	2/26/2011	1435/724	7-26.1
WV 061 000319 001	BROOKOVER, ROBERT	LEASE	3/24/2011	1438/572	7-26.2, 26.4
WV 061 000637 000	THOMAS, CHÁRLES	LEASE	7/29/2011	1442/620	2-32, 7-26.1, 26.4
WV 061 000638:000	THOMAS, JAMES H	LEASE	7/29/2011	1442/622	2-32, 7-26.1, 26.4

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Sanford Barrickman and A.M. Barrickman, h/w Lease DB 26/125 T.J. Vandergrift T.J. Vandergrift Assignment DB 26/129 J.I. Buchanan J.I. Buchanan Assignment DB 29/165 Jacob J. Vandergrift and W.J. Young Jacob J. Vandergrift Assignment DB 26/452 W.J. Young W.J. Young Assignment DB 26/457 South Penn Oil Company South Penn Oil Company **Assignment** DB 304/457 South Penn Natural Gas Company South Penn Natural Gas Company **Assignment** DB 580/311 South Penn Oil Company

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WV Department of Environmental Protection South Penn Oil Company merged with and into Pennzoil Company. Corp. Record 50/573. Pennzoil Company and United Gas Corporation(South Penn Oil Company changed it's name to Pennzoil Company effective 7/31/1963 per

Conveyance, Assignment and Transfer

DB 672/665

Pennzoil United, Inc.

Pennzoil Company

Pennzoil United, Inc.

Assignment

DB 695/557

W.H. Allen

W.H. Allen

Assignment

DB 695/556

Union Trust and Deposit Company

W.H. Allen and James A. Allen

Bill of Sale and Agreement

DB 754/594

Edwin Associates, Inc.

Union Trust National Bank, successor by conversion of

Union Trust and Deposit Company

Assignment

DB 754/598

Edwin Associates, Inc.

Edwin Associates, Inc.

Assignment and Bill of Sale

DB 754/600

J.T. Carson

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J.T. Carson

Assignment and Bill of Sale DB 754/606

Thompson/Texas Associates Partnership

Thompson/Texas Associates Partnership, Thompson Pipe and Supply Company, Jack O. Thompson, Harold J. Arnsteen, Equidyne Investment Assocaites, Inc., individually in their own right and as partners and/or joint

venturers in that entity known as Thompson/Texas

Associates Partnership

Assignment

AR 21/22

Mark Eddy

Thompson/Texas Associates Partnership, Thompson Pipe and Supply Company, Jack O. Thompson, Harold J. Arnsteen, Equidyne Investment Assocaites, Inc., individually in their own right and as partners and/or joint venturers in that entity known as Thompson/Texas

Associates Partnership

Assignment

AR 21/582

Beth Eddy, Debbie Eddy and Melissa Eddy

Beth Stewart, Debbie Morris and Melissa Matheny (formerly Beth Eddy, Debbie Eddy and Melissa Eddy)

Assignment

AR 102/275

Mark V. Eddy

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Mark V. Eddy and Betty A. Eddy, h/w, and Eddy Brothers
Assignment and Bill of Sale
AR 123/363

Northeast Natural Energy, LLC and Pachira Energy, LLC

Northeast Natural Energy, LLC and Pachira Energy, LLC Joint Operating Agreement Book 1972/ PG 593

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J.W. Scott

Assignment

DB 28/447

William Munhall and George P. Hukill

George P. Hukill, William Munhall and J.W. Scott, d/b/a Mountain State Oil Company

Assignment DB 32/240

South Penn Oil Company

South Penn Oil Company

Assignment DB 304/457

South Penn Natural Gas Company

South Penn Natural Gas Company

Assignment DB 580/311

South Penn Oil Company

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DB 672/665

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Pennzoil Company

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WV Department of Environmental Protection

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Pennzoil United, Inc.
                    Assignment
                    DB 695/557
                 W.H. Allen
                    W.H. Allen
                    Assignment
                    DB 695/556
         Union Trust and Deposit Company
           W.H. Allen and James A. Allen
             Bill of Sale and Agreement
                    DB 754/594
            Edwin Associates, Inc.
Union Trust National Bank, successor by conversion of
         Union Trust and Deposit Company
                    Assignment
                    DB 754/598
            Edwin Associates, Inc.
               Edwin Associates, Inc.
             Assignment and Bill of Sale
                    DB 754/600
                 J.T. Carson
                   - J.T. Carson
             Assignment and Bill of Sale
                    DB 754/606
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Thompson/Texas Associates Partnership

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Thompson/Texas Associates Partnership, Thompson Pipe and Supply Company, Jack O. Thompson, Harold J. Arnsteen, Equidyne Investment Assocaites, Inc., individually in their own right and as partners and/or joint venturers in that entity known as Thompson/Texas

Associates Partnership

Assignment AR 21/22

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Mark V. Eddy

Mark V. Eddy and Betty A. Eddy, h/w, and Eddy Brothers
Assignment and Bill of Sale
AR 123/363

Northeast Natural Energy, LLC and Pachira Energy, LLC

Northeast Natural Energy, LLC and Pachira Energy, LLC Joint Operating Agreement Book 1972, PG 593 RECEIVED Office of Oil and Gas MAR 1 8 2019

WV Lapartment (*) Environmental Protection

4706101835

Chesapeake Appalachia, LLC.

Northeast Natural Energy Assignment BK 120/769

Office PRESINED

JAN 29 2019

Environmental Professor

4706101835

Joseph E. Swiger
Lease
DB 1618/458
Reed Energy Services, LLC

Reed Energy Services, LLC

Assignment

AB 136/153 Northeast Natural Energy, LLC







December 5, 2018

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

Re: Lemley 8H

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

Office of Oil and Gas

JAN 29 2019

WV Department of Environmental Protection

API No. 47-_____

Date of Notice Certification: 01/21/2019

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

		(Operator's	Well No. 8H	
		•	Well Pad N	lame: Lemley	
Notice has b					
	e provisions in West Virginia Code §	§ 22-6A, the Operator has provi	ded the req	uired parties v	with the Notice Forms listed
	tract of land as follows:				
State:	West Virginia	IIIMINAINS	Easting:	573969.5	
County:	Monongalia		Northing:	4391571.5	
District:	Clay	Public Road Acces		State Route 22	
Quadrangle:	Blacksville, WV	Generally used far	m name:	Lemley	
Watershed:	Dunkard Creek				
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and sign the owners of the surface described equired by subsections (b) and (c), see surface owner notice of entry to surface owner notice of entry to surface owner notice of subsection (b), section sixteen of \$22-6A-11(b), the applicant shall to have been completed by the applicant	need in subdivisions (1), (2) and action sixteen of this article; (ii) arvey pursuant to subsection (as this article were waived in wender proof of and certify to the	d (4), substhat the rection to writing by	ection (b), sec quirement was en of this arti- the surface ov	ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the require		is Notice C	ertification	OOGOFFICEUSE
*PLEASE CHE	ECK ALL THAT APPLY				ONLY
☐ 1. NOT	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED
■ 2. NO?	TICE OF ENTRY FOR PLAT SURV	YEY or \square NO PLAT SURVE	Y WAS CO	ONDUCTED	RECEIVED.
■ 3. NO?	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PEWAS CONDUCTED or			RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER B (PLEASE ATTACH)	Y SURFAC	CE OWNER	
■ 4. NOT	TICE OF PLANNED OPERATION		_		RECEIVED
■ 5. PUB	SLIC NOTICE			CEIVED f Oil and Gas	P received
■ 6. NOT	TICE OF APPLICATION			2 9 2019	RECEIVED
			W Den	artment of	
			- vironmer	partment of ital Protection	

Required Attachments:

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

WW-6AC (1/12)

= 108101835 04/05/2019

Notary Public

Certification of Notice is hereby given:

, 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.

Address:

Facsimile:

Email:

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

OFFICIAL SE

OFFICIAL SEAL
NOTARY PUBLIC
NOTARY SHAIST VIRGINIA
Kristen Brooks
Northeast Natural Energy LLC
48 Donley St., Suite 601
Morgantown, WV 26501
My Commission Expires Aug. 10, 2023

304-212-0422

Subscribed and sworn before me this 4

707 Virginia St. E, Suite 1200

Charleston, WV 25301

hmedley@nne-llc.com

304-241-5972

My Commission Expires

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.

Environmental Protection

Noti	ice Time Requirement: notice shall be provided no later	than the filing date of permit application.
	e of Notice: 1/11/2019 Date Permit Application Filed: 1	/18/2019
✓		PPROVAL FOR THE F AN IMPOUNDMENT OR PIT
Deli	very method pursuant to West Virginia Code § 22-6A-	-10(b)
		THOD OF DELIVERY THAT REQUIRES A CEIPT OR SIGNATURE CONFIRMATION
sedir the soil and description operation more well importante proversubse record proversubse record proversubse	ment control plan required by section seven of this article, an urface of the tract on which the well is or is proposed to be lend gas leasehold being developed by the proposed well work ribed in the erosion and sediment control plan submitted pursator or lessee, in the event the tract of land on which the well e coal seams; (4) The owners of record of the surface tract or work, if the surface tract is to be used for the placement, compundment or pit as described in section nine of this article; (5 a water well, spring or water supply source located within or ide water for consumption by humans or domestic animals; a osed well work activity is to take place. (c)(1) If more than the ection (b) of this section hold interests in the lands, the applicates of the sheriff required to be maintained pursuant to section ision of this article to the contrary, notice to a lien holder is re-	of the signature confirmation, copies of the application, the erosion and different to each of the following persons: (1) The owners of record of cocated; (2) The owners of record of the surface tract or tracts overlying the signature tract is to be used for roads or other land disturbance as suant to subsection (c), section seven of this article; (3) The coal owner, I proposed to be drilled is located [sic] is known to be underlain by one or tracts overlying the oil and gas leasehold being developed by the proposed astruction, enlargement, alteration, repair, removal or abandonment of any (2) Any surface owner or water purveyor who is known to the applicant to ne thousand five hundred feet of the center of the well pad which is used to and (6) The operator of any natural gas storage field within which the mee tenants in common or other co-owners of interests described in cant may serve the documents required upon the person described in the on eight, article one, chapter eleven-a of this code. (2) Notwithstanding any not notice to a landowner, unless the lien holder is the landowner. W. Va. to provide the Well Site Safety Plan ("WSSP") to the surface owner and any not as provided in section 15 of this rule.
☑ SU	pplication Notice ☑ WSSP Notice ☑ E&S Plan Notice JRFACE OWNER(s) BE: Clarence W. Jr. & Charlotte E. Lemley	ce ☑ Well Plat Notice is hereby provided to: ☑ COAL OWNER OR LESSEE Name: Consol Mining Company LLC
Nam Add:	ress: 239 Lemley Hollow	Address: 1000 Consol Energy Drive
	Core, WV 26529	Canonshura PA 15317
Nam		COAL OPERATOR Name: Address: Address:
Add	ress:	Name:Name:
	TREACTE OXYD TER () (P. 1. 1/ Od. Pi. 1.)	Address:
	JRFACE OWNER(s) (Road and/or Other Disturbance)	TISHBEACE ONDED OF WATER WELL
	ne: Donald Stull et al ress: 162 Stull Hollow Road	SURFACE OWNER OF WATER WELL AND/OR WATER BURYEYOR(s) Environment
Add	Core MM/ 265/1	AND/OR WATER PURVEYOR(s) Name: William D. Statler Sta
Nam		SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name: William D. Statler Address: 578 Long Drain Rd.
Addı	ress:	Core, WV 26529
		OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SU	JRFACE OWNER(s) (Impoundments or Pits)	Name:
	e:	Address:
Addı	ress:	
		*Please attach additional forms if necessary

	4	1) 5	The same	()	1	8	3	5
API NO. 47		-		0	4/0	05	/2	01	9
OPERATOR V	VELL	NO), Bl	1					
Wall Dod Nom	a. Lar	nfov							

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

Well Location Restrictions

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

API NO. 47-470652035
OPERATOR WELL NO. 8H

Well Pad Name: Lemley

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450 JAN **29** 2019 WW Department of Environmental Protection

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

4706101835

API NO. 47-____-

OPERATOR WELL NO. 8H
Well Pad Name: Lemley

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.

Office of Oil and Gas

JAN 2 9 2019

WV Department of Environmental Protection

4706101835

API NO. 47-04/05/2019

OPERATOR WELL NO. 8H Well Pad Name: Lemley

Notice is hereby given by:

Email: hmedley@nne-llc.com

Well Operator: Northeast Natural Energy LLC Telephone: 304-414-7060

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 depprivacyofficer@wv.gov.

NOTARY PUBLIC
STATE OF WEST VIRGINIA
Kristen Brooks
Northeast Natural Energy LLC
48 Donley St., Suite 601
My Commission Expires Aug. 10, 2023

Subscribed and sworn before me this 21st day of January 2019

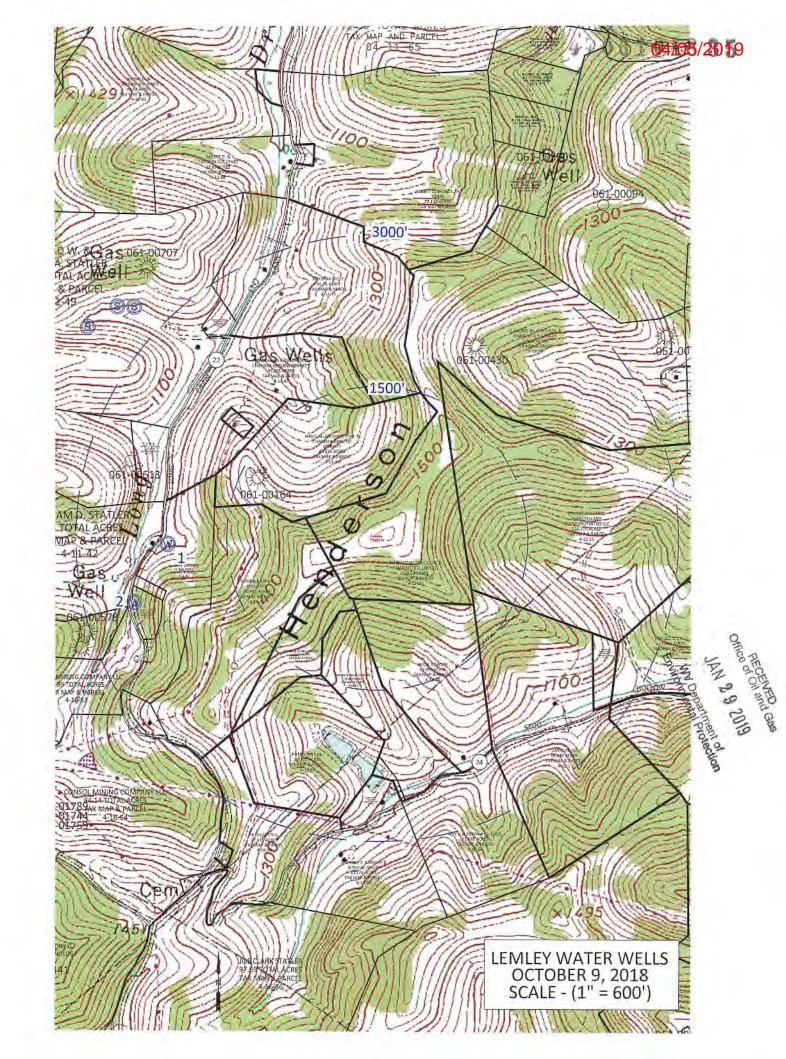
Kustur Brootco

Notary Public

My Commission Expires Aug. 10, 2023

Office of Oil and Gas

WV Department of Environmental Protection



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

entry		Notice shall be prov Date of Plar		least SEVEN (7) days but no more tha	an FORTY-FIVE (45) days prior to
Delivery meth	od pursuant	to West Virginia Co	ode § 2	2-6A-10a	
☐ PERSON	AL	REGISTERED		METHOD OF DELIVERY THAT RI	EOUIRES A
SERVICE		MAIL		RECEIPT OR SIGNATURE CONFIF	
on to the surface but no more the beneath such to owner of mine and Sediment (Secretary, whice	ce tract to conc an forty-five d ract that has fil rals underlying Control Manua ch statement sl	fuct any plat surveys ays prior to such ent ed a declaration pur- g such tract in the co Il and the statutes an	s requir try to: (suant to unty ta d rules informa	related to oil and gas exploration and pation, including the address for a web p	shall be provided at least seven days to any owner or lessee of coal seams twenty-two of this code; and (3) any tatement that copies of the state Erosion production may be obtained from the
Notice is here	by provided t	0:			
■ SURFACE	E OWNER(s)			COAL OWNER OR LE	ESSEE
Name: see attach				Name: see attached	
			-	Address:	
Name:					
Address:				MINERAL OWNER(s)	L. I
Name:				Name: see attached	
			3	Address:	
riddress				*please attach additional forms if no	ecessary
a plat survey of State: County:	est Virginia Co n the tract of la West Virginia Monongalia	and as follows:		Approx. Latitude & Longitude: Public Road Access:	Il operator is planning entry to conduct 39.670947, -80.137361 Long Drain Road (CR 22) Dunkard Creek
County: District: Quadrangle: Copies of the s may be obtained	Monongalia Clay Blacksville tate Erosion ared from the Sec	nd Sediment Control cretary, at the WV D	Manu		Long Drain Road (CR 22) Dunkard Creek Lemley pil and gas exploration and production parters, located at 601 57th Street, SE
	the Secretary b	y visiting www.dep		v/oil-and-gas/pages/default.aspx.	it, Suite 1200

304.212.0422

hmedley@nne-llc.com

Telephone:

Email:

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.

Facsimile:

Charleston, WV 25301

304.241.5972

Ownership Type	Name	Address					
Surface Owner	Clarence W. Lemley Jr. and Charlotte E. Lemley	239 Lemley Hollow	Core	WV	26541		
Coal Owner	ENX RCPC LLC	CNX Center, 1000 Consol Energy Drive	Canonsburg	PA	15317 ~		
Coal Owner	Murray American Energy Inc.	46226 National Road	St. Clairsville	ОН	43950		
Mineral Owner	William Henderson	P.O. Box 73	Pursglove	W۷	26546		
Mineral Owner	William B. Core	626 Lakes Drive	Tahlequah	ОК	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	ОН	44805		
Mineral Owner	Rose Marie Stewart Malott	2942 Little Indian Creek Road	Core	W۷	26570		
Mineral Owner	Ronald Lee Veselenak	61642 Patton Hollow Road	Cambridge	ОН	43725		
Mineral Owner	Konald 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	W۷	26541		
Mineral Owner	Larry Henderson	419 Henderson Hollow Road	Core	W۷	26541		
Mineral Owner	Larry and Nora Lou Dodd	P.O. Box 186	Colliers	W۷	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 McJessy	P.O. Box 133	Buffalo	ОН	43722		
Mineral Owner	Jesse James Henderson	5583 Treetop Court	Parma	ОН	44134		
Mineral Owner	Jennifer Lee Henderson	67 West 14th Street	Ashland	ОН	44805		
Mineral Owner	Christopher Allen Tyner	1810 Nichols Road	Akron	ОН	44312		
Mineral Owner	Charles Lawrence Core	3450 N. Commerce Street; Apt. 604	Ardmore	ОК	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		



Operator Well No. Lemley 8H 04/05/2019

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

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

Notice Time Date of Notic		provided at least TEN (10) days prior to filing Date Permit Application Filed: 01/18/2019	a permit application.
Delivery met	hod pursuant to West Virgini	a Code § 22-6A-16(b)	
☐ HAND	■ CERTIFIED M	IAIL	
DELIVE	RY RETURN REC	CEIPT REQUESTED	
receipt request drilling a horion of this subsection mand if availab	sted or hand delivery, give the standard well: <i>Provided</i> , That notion as of the date the notice way be waived in writing by the standard in the standard reby provided to the SURF noe W Jr & Charlotte E Lemley		the surface owner's land for the purpose of ten of this article satisfies the requirements of this article satisfies the requirements of this clude the name, address, telephone number,
	WV 26529	riddiess.	
State: County: District: Quadrangle:	West Virginia Monongalia Clay Blacksville	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	573969.5 4391571.5 County Route 22/Long Drain Road Lemley
Watershed:	Dunkard Creek		
Pursuant to V facsimile nun related to hor	nber and electronic mail addre izontal drilling may be obtaine	16(b), this notice shall include the name, address of the operator and the operator's authorized from the Secretary, at the WV Department V 25304 (304-926-0450) or by visiting www.c	zed representative. Additional information of Environmental Protection headquarters.
Notice is he	reby given by:		
Well Operator	Northeast Natural Energy LLC	Authorized Representative	
Address:	707 Virginia St. E., Suite 1200	Address:	Office RECEIVED
	Charleston, WV 25301		Office of Oil and Gas
Telephone:	304-414-7060	Telephone:	JAN 2 9 2019
Email:	hmedley@nne-llc.com	Email:	2010
Facsimile:	304-241-5972	Facsimile:	WV Department of Environmental Protection

Oil and Gas Privacy Notice:

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

WW-6A5 (1/12)

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

Notice Time Date of Notic	Requirement: notice shall be: 01/11/2019 D:		plater than the filing oplication Filed: 01/1		application.		
Delivery met	hod pursuant to West Virg	ginia Code § 2	22-6A-16(c)				
■ CERTII	TIED MAIL		HAND				
	N RECEIPT REQUESTED		DELIVERY				
return receipt the planned of required to be drilling of a ladamages to the (d) The notice of notice.	V. Va. Code § 22-6A-16(c), requested or hand delivery, peration. The notice requiporovided by subsection (b), sorizontal well; and (3) A perace affected by oil and a required by this section should be provided to the SURFA is listed in the records of the lace W Jr & Charlotte E Lemley	give the surfa- ired by this su , section ten of proposed surfa d gas operation hall be given to ACE OWNER	ce owner whose land absection shall include this article to a surface use and compens as to the extent the day of the surface owner and compens as the surface owner and compens the surfa	will be used for le: (1) A copy ace owner whose ation agreement mages are com- t the address list	or the drilling of of this code se se land will be un the containing an pensable under a	f a horizontal well notice of a horizontal well notice of ection; (2) The information used in conjunction with the offer of compensation for article six-b of this chapter	of on ne or r.
Notice is her Pursuant to Woperation on	emley Hollow VV 26529 eby given: (est Virginia Code § 22-6A- the surface owner's land for		of drilling a horizonta	e undersigned	act of land as fol		
Notice is her Pursuant to Woperation on State:	emley Hollow W 26529 Eby given: est Virginia Code § 22-6A-		s hereby given that tl	ne undersigned of the transport of the t			=
Address: 239 L Core Notice is her Pursuant to W operation on State: County:	emley Hollow W 26529 eby given: est Virginia Code § 22-6A- the surface owner's land for West Virginia		s hereby given that the formal of drilling a horizonta	te undersigned la well on the tra Easting:	act of land as fol 573969.5	llows:	
Notice is her Pursuant to Woperation on State: County: District:	emley Hollow W 26529 eby given: Test Virginia Code § 22-6A- the surface owner's land for West Virginia Monongalia		s hereby given that the fulling a horizonta UTM NAD 8 Public Road	te undersigned of well on the trace as ting: Northing: Access:	act of land as fol 573969.5 4391571.5	llows:	4.1.1
Address: 239 L Core Notice is her Pursuant to W	emley Hollow W 26529 eby given: Test Virginia Code § 22-6A- the surface owner's land for West Virginia Monongalia Clay		s hereby given that the fulling a horizonta UTM NAD 8 Public Road	te undersigned la well on the tra Easting:	act of land as fol 573969.5 4391571.5 County Route 22/Lc	llows:	
Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed: Pursuant to Woperation on State: County: District: Quadrangle: Watershed: I his Notice Soft of the provide morizontal we surface affect of the formation of the provide morizontal we surface affect	emley Hollow WV 26529 Peby given: 'est Virginia Code § 22-6A- the surface owner's land for West Virginia Monongalia Clay Blacksville Dunkard Creek Pest Virginia Code § 22-6A- d by W. Va. Code § 22-6A- d by W. Va. Code § 22-6A- del by oil and gas operation elated to horizontal drilling located at 601 57 th Street, ault.aspx.	-16(c), this not A-10(b) to a sace use and const to the extent g may be obtain	s hereby given that the farilling a horizontal UTM NAD 8 Public Road Generally use tice shall include: (1) surface owner whose mpensation agreement the damages are coined from the Secret eston, WV 25304	A copy of this land will be undersigned? A copy of this land will be undersigned arry, at the WV 304-926-0450)	act of land as fol 573969.5 4391571.5 County Route 22/Lc Lemley code section; (2 used in conjunce offer of competer article six-b / Department of) or by visiting	ong Drain Road 2) The information requirection with the drilling of ensation for damages to the of this chapter. Addition f Environmental Protection	a ne al on d-
Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice Sepursuant to Wood be provided the provided for information readquarters, gas/pages/def	emley Hollow WV 26529 Peby given: Test Virginia Code § 22-6A- the surface owner's land for West Virginia Monongalia Clay Blacksville Dunkard Creek Phall Include: Test Virginia Code § 22-6A- d by W. Va. Code § 22-6A- d by W. Va. Code § 22-6A- d by oil and gas operation elated to horizontal drilling located at 601 57 th Street, ault.aspx. "Northeast Natural Energy LLC	-16(c), this not A-10(b) to a sace use and const to the extent g may be obtain	s hereby given that the farilling a horizontal UTM NAD 8 Public Road Generally use tice shall include: (1) surface owner whose impensation agreement the damages are coined from the Secret	The undersigned of the transport of transport of the transport of the transport of the transport of transport of the transport of the transport of the transport of transport of the transport of the transport of the transport of transport of the	act of land as fol 573969.5 4391571.5 County Route 22/Lc Lemley code section; (2 used in conjunce n offer of compe der article six-b / Department of) or by visiting	2) The information requirection with the drilling of ensation for damages to the of this chapter. Addition f Environmental Protection www.dep.wv.gov/oil-and RECEIVET Office of Oil and	a ne al on d- d Gas
Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice Separation to Wood be provided horizontal we surface affect information r	emley Hollow WV 26529 Peby given: 'est Virginia Code § 22-6A- the surface owner's land for West Virginia Monongalia Clay Blacksville Dunkard Creek Pest Virginia Code § 22-6A- d by W. Va. Code § 22-6A- d by W. Va. Code § 22-6A- del by oil and gas operation elated to horizontal drilling located at 601 57 th Street, ault.aspx.	-16(c), this not A-10(b) to a sace use and const to the extent g may be obtain	s hereby given that the farilling a horizontal UTM NAD 8 Public Road Generally use tice shall include: (1) surface owner whose mpensation agreement the damages are coined from the Secret eston, WV 25304	A copy of this land will be undersigned? A copy of this land will be undersigned arry, at the WV 304-926-0450)	act of land as fol 573969.5 4391571.5 County Route 22/Lc Lemley code section; (2 used in conjunce n offer of compe der article six-b / Department of) or by visiting	2) The information requirection with the drilling of ensation for damages to the fervironmental Protection www.dep.wv.gov/oil-and RECEIVET	a ne al on di-

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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

January 28, 2019

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

Jill M. Newman Deputy Commissioner

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

Subject: DOH Permit for the Lemley Pad, Monongalia County

Lemley 8H

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,

Hary L. Clayton
Gary K. Clayton, P.E.

Regional Maintenance Engineer

Central Office O&G Coordinator

RECEIVED Office of Oil and Gas

JAN 2 9 2019

WV Department of Environmental Protection

Cc: Kristen Brooks

Northeast Natural Energy Corporation

CH, OM, D-4

File

Planned Additives to be used in Fracturing Stimulations

Trade Name	Purpose	Ingredients	Cemical Abstract Service Numner (CAS#)
Water	Carrier	Water	7732-18-5
NCI 10 1 159/	A -i di-i	Hydrochloric Acid	7647-01-0
HCI, 10.1-15%	Acidizing	Water	7732-18-5
-		Alkyl Dimethyl Benzyl Ammonium Chloride (C12-16)	68424-85-1
		Ethanol	64-17-5
Alpha 1427	Biocide	Glutaraldehyde	111-30-8
		Quaternary Ammonium Chloride	7173-51-5
		Water	7732-18-5
Enzyme G-NE	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3
Elizyille G-NE	Bieakei	Water	7732-18-5
		Fatty Acids	NA
		Methanol	67-56-1
Cl-14	Corrosion Inhibitor	Olefin	NA
		Polyozyalkylenes	NA
		Propargyl Alcohol	107-19-7
CIV OLDE		Guar Gum	9000-30-0
GW-3LDF	Gelling Agent	Petroleum Distillate Blend	СВІ
FRW-18	Friction Reducer	Hydrotreated Light Distillate	64742-47-8
Ferrotrol 300L	Iron Crontrol	Citric Acid	77-92-9
Sand, White, 40/70	Proppant	Cystalline Silica (Quartz)	14808-60-7
Sand, White, 100 mesh	Proppant	Cystalline Silica (Quartz)	14808-60-7
Scaletrol 720	Scale Inhibitor	Diethylene Glycol	111-46-6



LEMLEY WELL PAD SITE PLAN NORTHEAST NATURAL ENERGY

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

LOCAL EMERGENCY SERVICES					
3.0.0	NAVE	TELEPHONE NO.			
AMBULANCE		911			
HOSPITAL EMERGENCY ROOM	OHIO VALLEY MEDICAL CENTER	(304) 234-0123			
FIRE DEPARTMENT		911			
POLICE DEPARTMENT		911			
POISON CONTROL CENTER	WEST VIRGINIA POISON CENTER	(800) 222-1222			

FLOOD F	PLAIN CONDITIONS	
DO SITE CONSTRUCTION ACTIVITY	ES TAKE PLACE IN FLOCOPLAIN:	NO
PERMIT NEEDED FROM COUNTY F	PLOODPLAIN COORDINATOR	. NO
HEC-RAS STUDY COMPLETED:		N/A
FLOODPLAIN SHOWN ON DRAWN	QS:	N/A
FIRM MAP NUMBERIS FOR SITE	54061C0075E	
ACREAGE OF CONSTRUCTION IN	FLDGDPLAIN: D.00 AC	

PROJECT CONTACTS

OPERATOR: NORTHEAST NATURAL ENERGY LLC

Capitol

ENGINEER/SURVEYOR:
CONT. & ENVIRONMENTAL CONSULTANTS, INC.
JOSEPH D. ROBINSON, PE - PRINCIPAL/ENGINEER
OFFICE (200) 233-2119 FAX (201) 232-2327 CELL (441) 26

ENVIRONMENTAL
CIVIL & ENVIRONMENTAL CONSULTANTS, (INC.
JACQUAYN KESTER: SENIOR PROJECT MANAGER
OFFICE 2014 955-1117 PAR 2014 95-15-2

GEOTECHNICAL.
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
KON ESHUN - PROJECT MANAGER
OFFICE (184) \$155/15 FAX (190) \$35502 CELL (310) 774-

PENNSYLVANIA



LOCATION MAP



MONONGALIA COUNTY ROAD MAR SCALE IN FEET

1 NIES 2 MIES
1 INCH-1 MILE

PLAN REPRODUCTION WARNING

Eastern Panhandle

"WARRING" RECONATION WAY BE LOST IN COPPING AND/OR GRA-SCALE PLOTTING.

SHEET INDEX
1. COVER SHEET
2. GENERAL NOTES
3. MATERIAL CLANTITIES
4. MASTER LESEND
5. EXISTING CONDITIONS
6. BIOPACH AN
5. STE PLAN
5. ST | 10. SITE PLAN | 14. DETAILS | 12. WATER PAPER | 12. WATER PAPER AND SECTIONS | 13. PROFILES AND SECTIONS | 12. PECLAMATON FLAN | 12. PROFILES AND SECTIONS | 12. PECLAMATON FLAN | 12. PROFILES AND SECTIONS | 12. PECLAMATON FLAN | 17. PROFILES AND SECTIONS | 24. PECLAMATON FLAN | 17. PROFILES AND SECTIONS | 26. PECLAMATON FLAN | 18. DETAILS | 12. PECLAMATON FLAN | 14. DETAILS |

NORTHEAST NATURAL ENERGY

L	DCATION CO	ORDINATES			
CITE LOCATIONS	WV83-NF (A	ORTH ZONE)	UTM83-17		
SITE LOCATIONS	LATITUDE	LONGITUDE	NORTHING	EASTING	
MAIN ACCESS ROAD ENTRANCE	39.665146	-80.144298	4390942.597	573398,547	
CENTROID OF WELL PAD	39.670940	-80 137403	4391591,317	573983.769	
CENTER OF CONTAINMENT TANK 1	39.671320	+80.137111	4391633.797	574008.366	
CENTER OF CONTAINMENT TANK 2	39.671483	-80.136786	4391652.157	574036.099	
CENTER OF CONTAINMENT TANK 3	39.671201	-80.136749	4391620.848	574039.566	

GRADING VOLUMES					
DESCRIPTION	COL (CA)	FILL (CY)	NET (CY)		
MAIN ACCESS ROAD	18,033	21,652	-3,629		
WELL PAD	49.910	43,810	5,100		
SPOIL-1	0	1,918	-1,918		
SPOIL-2	0	553	-693		
TOTAL	67,943	67,943	0		
TOPSOIL / STRIPPING (10% SWELL - 17,014 C.Y.)		14,175 C.Y			

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

MONONGALIA COUNTY, WEST VIRGINIA								
OWNER	TM-PARCEL	DEED-PAGE	TOTAL ACRES	TYPE OF DISTURBANCE	ACERAGE			
STULL DONALD ET AL	11-45	1018-199	46.85	MAIN ACCESS ROAD	9.71			
				PARCEL TOTAL	9.71			
LEMLEY CLARENCE WIR & CHARLOTTE E	11-72	710311	77.69	MAIN ACCESS ROAD	0.13			
	1			WELL PAD	8.21			
				TOPSOL/STRIPPING PILE 1	1.71			
				SPOIL PILE 1	0.45			
				SPOIL PILE 2	0.23			
				CLEARINS AND GRUBBING AREA	3,19			
				PARCEL TOTAL	14.02			



	_
WELL RESTRICTIONS CHECKLIST (HORIZONTAL 6A WELL)	
AT LEAST 100 FEET FROM PACKAND LOD (INCLUDING ANY EAS CONTROL FEATURE) TO ANY PERENNIAL STREAM LAKE, POIND, RESERVOIR OR WE"LAND:	YES
AT LEAST 300 FEET FROM PAD AND LOD INCLUDING ANY EAS COYTROL FEATURE! TO ANY NATURALLY PRODUCING TROUT STREAM	YES
AT LEAST 1000 FROM PAD AND LOD (INCLUDING ANY EAS CONTROL FEATURIT) TO ANY GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY.	YES
AT LEAST 250 FEET FROM AN EXISTING WATER WELL OR DEVELOPED SPRING TO WELL BEING DRILLED:	YES
AT LEAST 605 TOUT FROM AN OCCUPIED OWELLING STRUCTURE TO CENTER OF PAID.	YES
AT LEAST 625 FEET FROM AGRICULTURAL BUILDINGS LARGER THAN 2500 SQUARE PRIT	w

NORTH #	# O	# C	** 0	H C	151	
8	_	100	200	-	In	00)
10	0	0	0	0	O	DH

WELL HEAD LAYOUTS



COVER S C000

Civil

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

