



west virginia department of environmental protection

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

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

Friday, April 24, 2020
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

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

Re: Permit Modification Approval for LEMLEY 3H
47-061-01842-00-00

NORTHEAST NATURAL ENERGY LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before 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 3H
Farm Name: CLARENCE W. LEMLEY JR. & CHARLOTTE E. LE
U.S. WELL NUMBER: 47-061-01842-00-00
Horizontal 6A New Drill
Date Modification Issued: 4/24/2020

Promoting a healthy environment.

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

1) Well Operator: Northeast Natural Energy 494498281 Monongalia Clay Blacksville, WV
Operator ID County District Quadrangle

2) Operator's Well Number: 3H Well Pad Name: Lemley

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

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

5) Well Type (a) Gas Oil Underground Storage

Other

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No No *MSK 2/25/2020*

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

8) Proposed Total Vertical Depth: 8,206'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 18,366'

11) Proposed Horizontal Leg Length: 9,556'

12) Approximate Fresh Water Strata Depths: 50', 1,190'

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

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

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

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

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

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

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Environmental Protection

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	24"	New	NA	94.71	40'	40'	GTS
Fresh Water	13-3/8"	New	J-55	54.5	1,290'	1,260'	CTS
Coal							
Intermediate	9-5/8"	New	J-55	36	2,591'	2,561'	CTS
Production	5-1/2"	New	P-110	20	18,366'	18,336'	4264 cu ft.
Tubing							
Liners							

Mgk 2/25/2020

TYPE	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
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"	.352"	3,520	2,800	Class A	1.3
Production	5-1/2"	8-3/4"	.361"	12,530	9,700	50:50 poz	1.21
Tubing	2-7/8"	NA	.217"	10,570	3,600	NA	NA
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

Drilling and completion of a horizontal Marcellus well. The well will be drilled on air to an approximate depth of 6,200 TVD/MD. The well will then be horizontally drilled on synthetic based mud from the KOP to approximately 8,206 TVD/18,366' MD along a 323° azimuth.

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

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

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

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

23) Describe centralizer placement for each casing string:

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

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

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

25) Proposed borehole conditioning procedures:

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

*Note: Attach additional sheets as needed.

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NORTHEAST NATURAL ENERGY, LLC

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

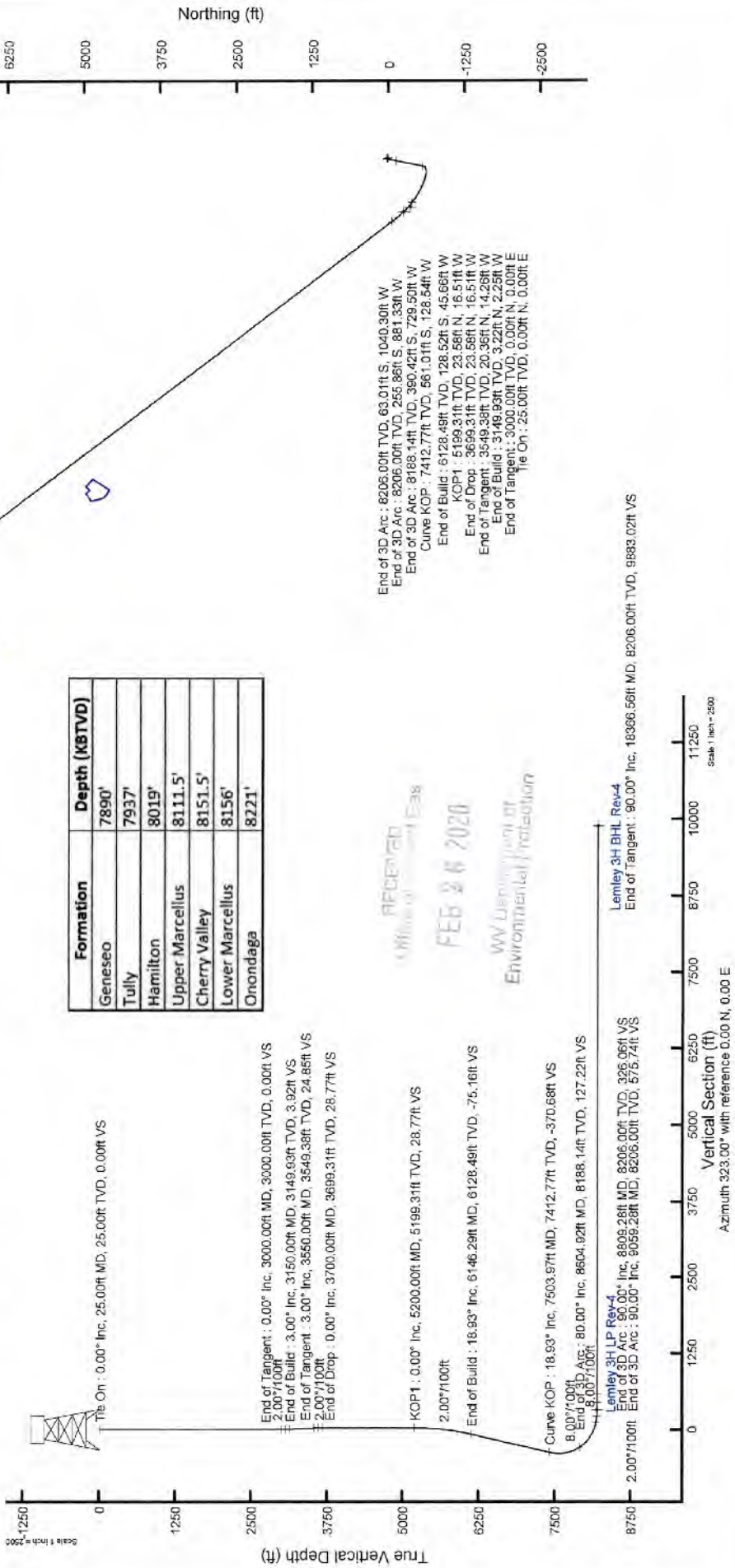
Slot: Slot 3H
 Well: Lemley 3H
 Wellbore: Lemley 3H PWB

Plot reference wellpath is Lemley 3H PWB Fr-03	Grid System: NAD83 Lambert West Virginia SP, Northern Zone (470'), US Nat
True vertical depths are referenced to Induscon304 (R-18)	North Reference: Grid spot
Reference wellpath measured depths are referred to Thelemen304 (R-18)	Scale: True distance
Path start 3.34 (R-18) to Main (Sea Level) 1550 feet	Coordinates are in feet referenced to Slot
Main Sea Level is Ground level (at 304 Spot 310) -1554 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's actual MD datum	C: wellpath alteration on 2020-04-19: Database: WV_WP_EASTERNUS_Deht



Casing Depths	
24"	9-5/8"
40"	1290'
	Intermediate
	2561'

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

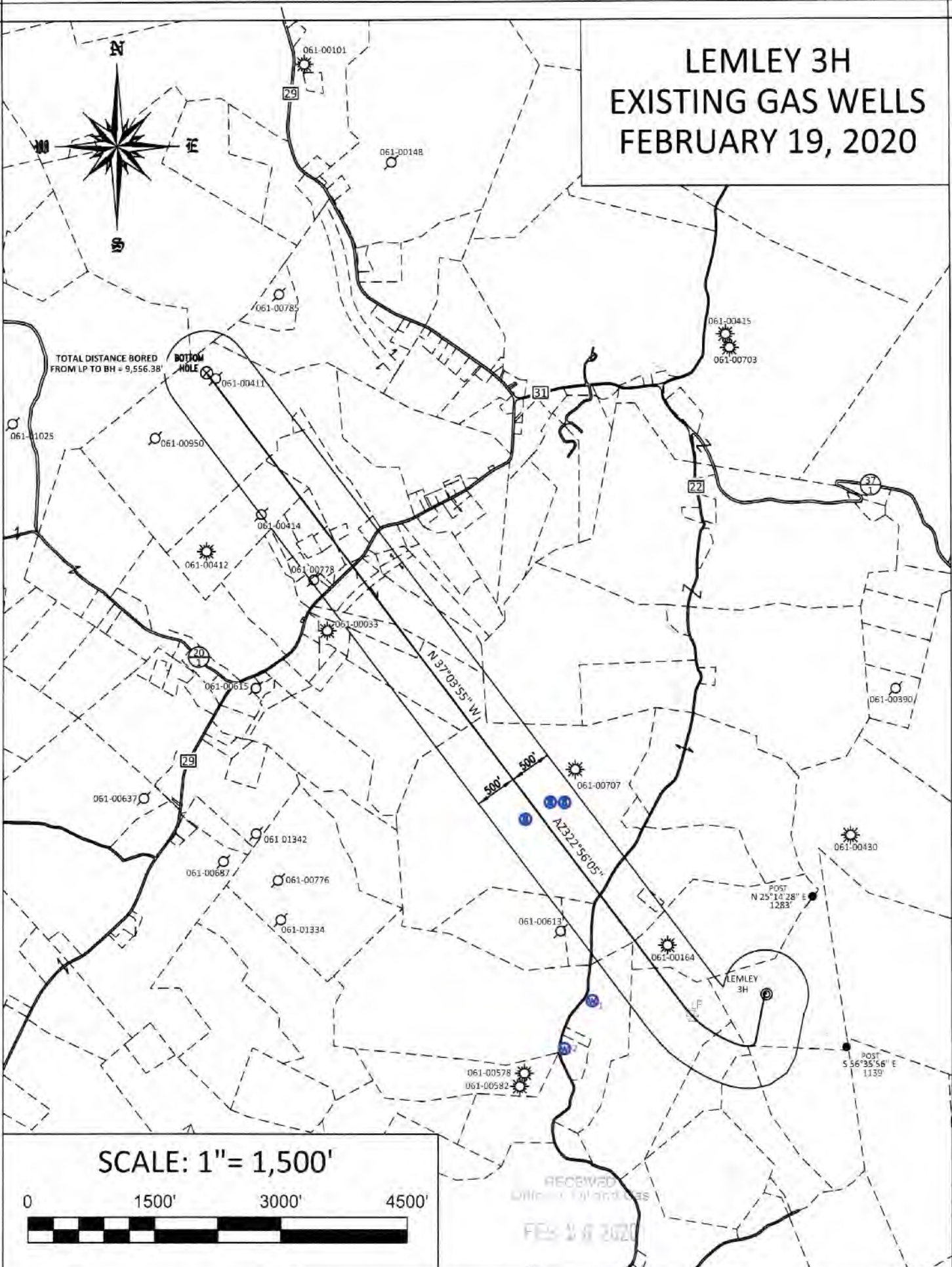


LEMLEY 3H EXISTING GAS WELLS FEBRUARY 19, 2020



TOTAL DISTANCE BORED
FROM LP TO BH = 9,556.38'

BOTTOM
HOLE



SCALE: 1" = 1,500'



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LEMLEY 3H AREA OF REVIEW

API Number	Well Name	Well Number	Operator	Latitude (NAD 83)	Longitude (NAD 83)	TMP	TVD	Comments
FOUND IN FIELD	NA	NA	NA	39.670314	80.142054	4-11-15	NA	NA
061-00778	St Luke Christian Church Lot	1	McDermott, Joseph H.	39.684228	80.156716	4-11-54.1	1930	NA
061-00414	S J Johnson	WV651601 562	Equitable Production Co.	39.686352	80.163949	4-11-31	NA	Plugged 12/3/08
061-00411	S J Johnson	WV651411 501	Equitable Production Co.	39.690769	80.168098	4-11-32	NA	Plugged 10/21/08
061-00164	JN STATLER	1	South Penn Oil (S. Penn Nat. Gas)	39.672452	80.14168	4-11-46	3501	NA

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 11/15/2009
 West Virginia Department of
 Environmental Protection

WELL NAME: LEMLEY 3H
BLACKSVILLE, WV



TOTAL DISTANCE BORED
FROM IP TO BH = 9,556.38



**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
See Attached				

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

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

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

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

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

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
A	WV-061-003525-001	TENNANT, LEROY	Northeast Natural Energy LLC	12.5% or Greater	1524	449
A	WV-061-003525-002	LOHR, LLOYD M	Northeast Natural Energy LLC	12.5% or Greater	1526	74
A	WV-061-003525-003	HICKMAN, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1525	242
A	WV-061-003525-004	MALOTT, ROSE M.	Northeast Natural Energy LLC	12.5% or Greater	1525	250
A	WV-061-003525-007	TENNANT, SHIRLE	Northeast Natural Energy LLC	12.5% or Greater	1534	88
A	WV-061-003525-008	COSNER, SHEILA	Northeast Natural Energy LLC	12.5% or Greater	1534	86
A	WV-061-003525-009	EDDY, RONALD &	Northeast Natural Energy LLC	12.5% or Greater	1535	107
A	WV-061-003525-010	HENDERSON, WILL	Northeast Natural Energy LLC	12.5% or Greater	1536	622
A	WV-061-003525-011	HENDERSON, LARR	Northeast Natural Energy LLC	12.5% or Greater	1536	599
A	WV-061-003525-012	HENDERSON, ALPH	Northeast Natural Energy LLC	12.5% or Greater	1536	535
A	WV-061-003525-013	HENDERSON, JENN	Northeast Natural Energy LLC	12.5% or Greater	1566	289
A	WV-061-003525-014	HENDERSON, JESS	Northeast Natural Energy LLC	12.5% or Greater	1568	430
A	WV-061-003525-015	MCCARVER, STEPH	Northeast Natural Energy LLC	12.5% or Greater	1568	271
A	WV-061-003525-016	CHARVAT, SHAWNA	Northeast Natural Energy LLC	12.5% or Greater	1568	339
A	WV-061-003525-017	STOUT, MARGARET	Northeast Natural Energy LLC	12.5% or Greater	1569	269
A	WV-061-003525-018	TENNANT, DENZIL	Northeast Natural Energy LLC	12.5% or Greater	1569	244
A	WV-061-003525-019	VESELENAK, RONA	Northeast Natural Energy LLC	12.5% or Greater	1617	742
A	WV-061-003525-020	MCJESSY, JUDITH	Northeast Natural Energy LLC	12.5% or Greater	1617	744
A	WV-061-003525-021	CORE, CHARLES L	Northeast Natural Energy LLC	12.5% or Greater	1630	195
A	WV-061-003715-002	TYNER, CHRISTOP	Northeast Natural Energy LLC	12.5% or Greater	1554	828
A	WV-061-003715-003	DODD, NORA LOU	Northeast Natural Energy LLC	12.5% or Greater	1564	400
A	WV-061-004308-001	CORE, WILLIAM B	Northeast Natural Energy LLC	12.5% or Greater	1644	9
A	WV-061-004263-001	JENKINS, PAULA	Northeast Natural Energy LLC	12.5% or Greater	1645	348
A	WV-061-004264-001	MYERS, JUNE C.	Northeast Natural Energy LLC	12.5% or Greater	1571	548
A	WV-061-004267-001	CORE, BEVERLY J	Northeast Natural Energy LLC	12.5% or Greater	1571	578
B	WV-061-002306-002	BOWSER, WADE	Northeast Natural Energy LLC	12.5% or Greater	1517	92
C	WV-061-001291-018	BANE, JANET S.	Northeast Natural Energy LLC	12.5% or Greater	1507	244
C	WV-061-001291-020	VARNER, MARTIN	Northeast Natural Energy LLC	12.5% or Greater	1614	605
C	WV-061-001291-021	KING, RONALD ET	Northeast Natural Energy LLC	12.5% or Greater	1634	483
C	WV-061-001291-022	TENNANT, HARRY	Northeast Natural Energy LLC	12.5% or Greater	1633	336
C	WV-061-003682-001	ASHCRAFT, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1547	801
C	WV-061-003682-002	ASHCRAFT, RICKY	Northeast Natural Energy LLC	12.5% or Greater	1548	262
C	WV-061-003682-003	CRANE, SHIRLEY	Northeast Natural Energy LLC	12.5% or Greater	1545	778
C	WV-061-003682-004	ASHCRAFT, DUSTI	Northeast Natural Energy LLC	12.5% or Greater	1548	258
C	WV-061-003682-005	ASHCRAFT, DAYTO	Northeast Natural Energy LLC	12.5% or Greater	1545	782
C	WV-061-003682-006	ASHCRAFT, JOHN	Northeast Natural Energy LLC	12.5% or Greater	1545	328
C	WV-061-003682-007	ASHCRAFT, CHARL	Northeast Natural Energy LLC	12.5% or Greater	1550	367
C	WV-061-004270-001	WILLIAMS, LORET	Northeast Natural Energy LLC	12.5% or Greater	1571	535
C	WV-061-004317-001	KETCHEM, JOYCE	Northeast Natural Energy LLC	12.5% or Greater	1576	347
C	WV-061-004317-002	WILSON, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1640	371
C	WV-061-004317-003	TENNANT, BRENDA	Northeast Natural Energy LLC	12.5% or Greater	1640	373
C	WV-061-004317-004	ARNETT, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1640	375
C	WV-061-004317-005	STULL, DONALD L	Northeast Natural Energy LLC	12.5% or Greater	1641	346
C	WV-061-004317-006	BROOKOVER, ROBE	Northeast Natural Energy LLC	12.5% or Greater	1643	413
C	WV-061-004317-007	STATLER, RONALD	Northeast Natural Energy LLC	12.5% or Greater	1643	416
C	WV-061-004317-008	STATLER, NELSON	Northeast Natural Energy LLC	12.5% or Greater	1643	418
C	WV-061-004317-009	STATLER, JOSEPH	Northeast Natural Energy LLC	12.5% or Greater	1643	420
C	WV-061-004317-010	CHISLER FAMILY	Northeast Natural Energy LLC	12.5% or Greater	1643	422
C	WV-061-004317-011	STATLER, GARY A	Northeast Natural Energy LLC	12.5% or Greater	1643	424
C	WV-061-004317-012	MORRIS, LINDA S	Northeast Natural Energy LLC	12.5% or Greater	1643	519
C	WV-061-004317-013	KING, SHARON	Northeast Natural Energy LLC	12.5% or Greater	1643	442
C	WV-061-004317-014	LOUGHRY, DONNA	Northeast Natural Energy LLC	12.5% or Greater	1643	98
D	WV-061-002339-006	STATLER, GARY	Northeast Natural Energy LLC	12.5% or Greater	1541	317
D	WV-061-002339-007	STATLER, RONALD	Northeast Natural Energy LLC	12.5% or Greater	1541	345
D	WV-061-002339-008	TENNANT, ARIETT	Northeast Natural Energy LLC	12.5% or Greater	1564	343
D	WV-061-002339-009	MCCORD, RONNIE	Northeast Natural Energy LLC	12.5% or Greater	1545	474
D	WV-061-002339-010	HOWARD, WILLA	Northeast Natural Energy LLC	12.5% or Greater	1545	476
D	WV-061-002339-011	HENDERSON, NELS	Northeast Natural Energy LLC	12.5% or Greater	1542	513
D	WV-061-002339-012	SCHIMMEL, JACQU	Northeast Natural Energy LLC	12.5% or Greater	1542	20
D	WV-061-002339-013	MCCORD, LAWRENC	Northeast Natural Energy LLC	12.5% or Greater	1542	12
D	WV-061-002339-014	CLEVENGER, DOUG	Northeast Natural Energy LLC	12.5% or Greater	1564	539
D	WV-061-002339-015	LORING, HOWARD	Northeast Natural Energy LLC	12.5% or Greater	1542	108
D	WV-061-002339-016	BRYAN, DIANA L	Northeast Natural Energy LLC	12.5% or Greater	1545	309
D	WV-061-002339-017	JACKSON, ALMA H	Northeast Natural Energy LLC	12.5% or Greater	1541	840
D	WV-061-002339-018	LEWIS, RACHEL L	Northeast Natural Energy LLC	12.5% or Greater	1566	291
D	WV-061-002339-019	CLEVENGER, LUC	Northeast Natural Energy LLC	12.5% or Greater	1541	818
D	WV-061-002339-020	STATLER, CLAREN	Northeast Natural Energy LLC	12.5% or Greater	1541	826
D	WV-061-002339-021	MYERS, DEBORAH	Northeast Natural Energy LLC	12.5% or Greater	1550	575
D	WV-061-002339-022	WALLS, DEVON	Northeast Natural Energy LLC	12.5% or Greater	1545	435
D	WV-061-002339-023	CORDER, DENNY R	Northeast Natural Energy LLC	12.5% or Greater	1545	336
D	WV-061-002339-024	CORDER, DANNY O	Northeast Natural Energy LLC	12.5% or Greater	1545	334
D	WV-061-002339-025	MARIETTA, ANGEL	Northeast Natural Energy LLC	12.5% or Greater	1545	344
D	WV-061-002339-026	TENNANT, SHEILA	Northeast Natural Energy LLC	12.5% or Greater	1545	319
D	WV-061-002339-027	ARNETT, PAMELA	Northeast Natural Energy LLC	12.5% or Greater	1545	317

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
D	WV-061-002339-028	VARNER, DONNA	Northeast Natural Energy LLC	12.5% or Greater	1545	480
D	WV-061-002339-029	DEVINE, JOHN	Northeast Natural Energy LLC	12.5% or Greater	1545	464
D	WV-061-002339-030	EISEMAN, JILL D	Northeast Natural Energy LLC	12.5% or Greater	1566	293
D	WV-061-002339-031	ZUCHINSKI, NORM	Northeast Natural Energy LLC	12.5% or Greater	1545	313
D	WV-061-002339-032	MOORE, AMBER G	Northeast Natural Energy LLC	12.5% or Greater	1545	802
D	WV-061-002339-033	RUSH, RICHARD W	Northeast Natural Energy LLC	12.5% or Greater	1545	462
D	WV-061-002339-034	SHRIVER, JODIE	Northeast Natural Energy LLC	12.5% or Greater	1564	537
D	WV-061-002339-035	STATLER, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1556	479
D	WV-061-002339-036	MCCARTNEY, ANNA	Northeast Natural Energy LLC	12.5% or Greater	1564	390
D	WV-061-002339-037	CORDER, DARRELL	Northeast Natural Energy LLC	12.5% or Greater	1565	420
D	WV-061-002339-038	BERRY, PRUDENCE	Northeast Natural Energy LLC	12.5% or Greater	1565	507
D	WV-061-002339-039	VOITHOFER, PAUL	Northeast Natural Energy LLC	12.5% or Greater	1551	105
D	WV-061-002339-040	WHITE, LINDA LO	Northeast Natural Energy LLC	12.5% or Greater	1551	107
D	WV-061-002339-041	WALLS, DENZIL M	Northeast Natural Energy LLC	12.5% or Greater	1558	837
D	WV-061-002339-042	WALLS, DONZEL B	Northeast Natural Energy LLC	12.5% or Greater	1565	647
D	WV-061-002339-043	WALLS, DANIEL E	Northeast Natural Energy LLC	12.5% or Greater	1567	825
D	WV-061-002339-044	MCMAHON, MARGIE	Northeast Natural Energy LLC	12.5% or Greater	1564	719
D	WV-061-002339-045	WALLS, DELMER J	Northeast Natural Energy LLC	12.5% or Greater	1564	734
D	WV-061-002339-046	WALLS, ELIZABET	Northeast Natural Energy LLC	12.5% or Greater	1566	61
D	WV-061-002339-047	WALLS, TABITHA	Northeast Natural Energy LLC	12.5% or Greater	1568	3
D	WV-061-002339-048	HENDERSON, WAYN	Northeast Natural Energy LLC	12.5% or Greater	1560	55
D	WV-061-002339-049	ANASTAISADIS,	Northeast Natural Energy LLC	12.5% or Greater	1568	396
D	WV-061-002339-050	MOORE, LINDA A	Northeast Natural Energy LLC	12.5% or Greater	1582	45
D	WV-061-002339-051	O'LEARY, JESSIC	Northeast Natural Energy LLC	12.5% or Greater	1584	772
D	WV-061-002339-052	FREEMAN, BRENDA	Northeast Natural Energy LLC	12.5% or Greater	1593	442
D	WV-061-002339-053	JOHNSON, LUCILL	Northeast Natural Energy LLC	12.5% or Greater	1619	26
D	WV-061-002339-054	POLING, GARY C.	Northeast Natural Energy LLC	12.5% or Greater	1619	192
D	WV-061-002339-055	POLING, LESTER	Northeast Natural Energy LLC	12.5% or Greater	1619	201
D	WV-061-002339-056	POLING, DONALD	Northeast Natural Energy LLC	12.5% or Greater	1619	207
D	WV-061-002339-057	COX, SHERRY L	Northeast Natural Energy LLC	12.5% or Greater	1619	216
D	WV-061-002339-058	DEVINE, GILBERT	Northeast Natural Energy LLC	12.5% or Greater	1638	174
D	WV-061-002339-059	TRADER, JOSEPH	Northeast Natural Energy LLC	12.5% or Greater	1637	575
D	WV-061-002339-060	TRADER, DAVID	Northeast Natural Energy LLC	12.5% or Greater	1637	577
D	WV-061-002339-061	TRADER, EDWARD	Northeast Natural Energy LLC	12.5% or Greater	1637	579
D	WV-061-002339-062	COPEN, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1637	581
D	WV-061-002339-063	POLING, LARRY	Northeast Natural Energy LLC	12.5% or Greater	1642	805
D	WV-061-002339-064	BROOKOVER, PAUL	Northeast Natural Energy LLC	12.5% or Greater	1643	539
D	WV-061-002339-065	STATLER, NELSON	Northeast Natural Energy LLC	12.5% or Greater	1643	537
D	WV-061-002339-066	STATLER, JOSEPH	Northeast Natural Energy LLC	12.5% or Greater	1643	404
D	WV-061-002339-067	CHISLER FAMILY	Northeast Natural Energy LLC	12.5% or Greater	1643	237
D	WV-061-002339-068	STATLER, GARY A	Northeast Natural Energy LLC	12.5% or Greater	1643	176
D	WV-061-002339-069	MORRIS, LINDA S	Northeast Natural Energy LLC	12.5% or Greater	1643	174
D	WV-061-002339-070	KING, SHARON	Northeast Natural Energy LLC	12.5% or Greater	1643	172
D	WV-061-002339-071	MORRIS, ANDREW	Northeast Natural Energy LLC	12.5% or Greater	1646	535
D	WV-061-002339-072	KISNER, PHILLIP	Northeast Natural Energy LLC	12.5% or Greater	1646	544
D	WV-061-002339-073	JOHNSON, ASHLEY	Northeast Natural Energy LLC	12.5% or Greater	1646	548
D	WV-061-002339-074	TENNANT, CHA ET	Northeast Natural Energy LLC	12.5% or Greater	1643	788
D	WV-061-002339-075	STATLER, ROB ET	Northeast Natural Energy LLC	12.5% or Greater	1650	70
D	WV-061-002339-076	STATLER, JOHN R	Northeast Natural Energy LLC	12.5% or Greater	1652	272
D	WV-061-002339-077	STATLER, HAROLD	Northeast Natural Energy LLC	12.5% or Greater	1654	86
D	WV-061-002339-078	MALONE, BEVERLY	Northeast Natural Energy LLC	12.5% or Greater	1657	296
D	WV-061-002339-079	HOVATTER, ANTON	Northeast Natural Energy LLC	12.5% or Greater	1660	394
D	WV-061-002503-002	KETCHEM, JOYCE	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1421	385
D	WV-061-002503-002	Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC	12.5% or Greater	120	769
D	WV-061-002503-003	VARNER, JOY	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1421	398
D	WV-061-002503-003	Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC	12.5% or Greater	120	769
D	WV-061-002503-004	KING, CHRISTINA	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1421	394
D	WV-061-002503-004	Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC	12.5% or Greater	120	769
D	WV-061-002503-005	BANE, JANET	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1421	359
D	WV-061-002503-005	Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC	12.5% or Greater	120	769
D	WV-061-003682-001	ASHCRAFT, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1547	801
D	WV-061-003682-002	ASHCRAFT, RICKY	Northeast Natural Energy LLC	12.5% or Greater	1548	262
D	WV-061-003682-003	CRANE, SHIRLEY	Northeast Natural Energy LLC	12.5% or Greater	1545	778
D	WV-061-003682-004	ASHCRAFT, DUSTI	Northeast Natural Energy LLC	12.5% or Greater	1548	258
D	WV-061-003682-005	ASHCRAFT, DAYTO	Northeast Natural Energy LLC	12.5% or Greater	1545	782
D	WV-061-003682-006	ASHCRAFT, JOHN	Northeast Natural Energy LLC	12.5% or Greater	1545	328
D	WV-061-003682-007	ASHCRAFT, CHARL	Northeast Natural Energy LLC	12.5% or Greater	1550	367
D	WV-061-003860-001	SHUMAN, INC.	Northeast Natural Energy LLC	12.5% or Greater	1551	101
D	WV-061-004155-001	NEW AUGUSTA INC	Northeast Natural Energy LLC	12.5% or Greater	1565	671
D	WV-061-004270-001	WILLIAMS, LORET	Northeast Natural Energy LLC	12.5% or Greater	1571	535
D	WV-061-004461-001	HOVATTER, DENNI	Northeast Natural Energy LLC	12.5% or Greater	1586	444
D	WV-061-004461-002	WEST VIRGINIA U	Northeast Natural Energy LLC	12.5% or Greater	1586	556
D	WV-061-004461-003	KENYON, BARB ET	Northeast Natural Energy LLC	12.5% or Greater	1588	842
D	WV-061-004461-004	HENDERSON, ALLE	Northeast Natural Energy LLC	12.5% or Greater	1588	845

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
D	WV-061-004461-005	HENDERSON, JERR	Northeast Natural Energy LLC	12.5% or Greater	1588	848
D	WV-061-004461-006	FLETCHER, PATRI	Northeast Natural Energy LLC	12.5% or Greater	1589	9
D	WV-061-004461-007	SCHLEGEL, BONNI	Northeast Natural Energy LLC	12.5% or Greater	1589	12
D	WV-061-004461-008	ZICKEFOOSE, EDN	Northeast Natural Energy LLC	12.5% or Greater	1589	15
D	WV-061-004461-009	KOVALSKY, SHIRL	Northeast Natural Energy LLC	12.5% or Greater	1589	18
D	WV-061-004461-010	FRYE, CATHY	Northeast Natural Energy LLC	12.5% or Greater	1589	21
D	WV-061-004461-011	SWENK, SALLY JO	Northeast Natural Energy LLC	12.5% or Greater	1605	102
D	WV-061-004461-012	SCHULTZ, GEORGE	Northeast Natural Energy LLC	12.5% or Greater	1605	105
D	WV-061-004461-013	RICKS, MARY E	Northeast Natural Energy LLC	12.5% or Greater	1606	649
D	WV-061-004461-014	LEKSELL, DEBORA	Northeast Natural Energy LLC	12.5% or Greater	1610	468
D	WV-061-004461-015	SCHULTZ, JEFFRE	Northeast Natural Energy LLC	12.5% or Greater	1606	653
D	WV-061-004461-016	WREN, SUZANNE	Northeast Natural Energy LLC	12.5% or Greater	1606	656
D	WV-061-004461-017	WELLS, STACEY	Northeast Natural Energy LLC	12.5% or Greater	1606	669
D	WV-061-004461-018	WELLS, ROBERT S	Northeast Natural Energy LLC	12.5% or Greater	1606	672
D	WV-061-004461-020	BREWER, PATRICI	Northeast Natural Energy LLC	12.5% or Greater	1617	776
D	WV-061-004461-021	LEWIS, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1617	799
D	WV-061-004461-022	LASKODY, PAMELA	Northeast Natural Energy LLC	12.5% or Greater	1617	801
D	WV-061-004461-023	SCHEUCH, JENNIF	Northeast Natural Energy LLC	12.5% or Greater	1617	803
D	WV-061-004461-024	STATLER, GREGOR	Northeast Natural Energy LLC	12.5% or Greater	1620	429
D	WV-061-004461-025	STATLER, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1620	431
D	WV-061-004461-026	STATLER, MICHEL	Northeast Natural Energy LLC	12.5% or Greater	1620	433
D	WV-061-004461-027	STATLER, RON ET	Northeast Natural Energy LLC	12.5% or Greater	1620	435
D	WV-061-004461-028	STATLER, MARY L	Northeast Natural Energy LLC	12.5% or Greater	1630	257
D	WV-061-004461-029	HOVATTER, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1638	259
D	WV-061-004461-030	STATLER, KENNET	Northeast Natural Energy LLC	12.5% or Greater	1636	281
D	WV-061-004461-031	MORRIS, GENEVIE	Northeast Natural Energy LLC	12.5% or Greater	1643	533
D	WV-061-004461-032	SMITH, KATHLEEN	Northeast Natural Energy LLC	12.5% or Greater	1637	827
D	WV-061-004461-033	MCCONAHAY, KEIT	Northeast Natural Energy LLC	12.5% or Greater	1637	829
D	WV-061-004461-034	HOPPER, DANIELL	Northeast Natural Energy LLC	12.5% or Greater	1637	831
D	WV-061-004461-035	SAYLOR, DEBORA	Northeast Natural Energy LLC	12.5% or Greater	1637	833
D	WV-061-004461-036	PATTERSON, T ET	Northeast Natural Energy LLC	12.5% or Greater	1643	726
D	WV-061-004461-037	CURTIS, MARY	Northeast Natural Energy LLC	12.5% or Greater	1641	847
D	WV-061-004461-038	FLUHARTY, DIANN	Northeast Natural Energy LLC	12.5% or Greater	1638	524
D	WV-061-004461-039	REDMAN, MARY E	Northeast Natural Energy LLC	12.5% or Greater	1638	512
D	WV-061-004461-040	STATLER, RICHAR	Northeast Natural Energy LLC	12.5% or Greater	1640	581
D	WV-061-004461-041	STATLER, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1641	350
D	WV-061-004461-042	WALTERS, MARY	Northeast Natural Energy LLC	12.5% or Greater	1641	352
D	WV-061-004461-043	LORD, LISA ETV	Northeast Natural Energy LLC	12.5% or Greater	1642	368
D	WV-061-004461-044	SHAHAN, MICHAEL	Northeast Natural Energy LLC	12.5% or Greater	1642	370
D	WV-061-004461-045	PRICHARD, JOHN	Northeast Natural Energy LLC	12.5% or Greater	1643	535
D	WV-061-004461-046	WARMAN, SHIRLEY	Northeast Natural Energy LLC	12.5% or Greater	1643	447
D	WV-061-004461-047	MOONEY, NORMA E	Northeast Natural Energy LLC	12.5% or Greater	1643	449
D	WV-061-004461-048	WARMAN, WILLIAM	Northeast Natural Energy LLC	12.5% or Greater	1643	451
D	WV-061-004461-049	PRICHARD TRUST	Northeast Natural Energy LLC	12.5% or Greater	1643	100
D	WV-061-004461-050	KERNS, LINDA S	Northeast Natural Energy LLC	12.5% or Greater	1643	10
D	WV-061-004461-051	RUSSELL, REBECC	Northeast Natural Energy LLC	12.5% or Greater	1649	760
D	WV-061-004461-052	PAULY, PAULA ET	Northeast Natural Energy LLC	12.5% or Greater	1647	427
D	WV-061-004461-053	STATLER, HELEN	Northeast Natural Energy LLC	12.5% or Greater	1647	607
D	WV-061-004461-054	KELLEY, NANCY A	Northeast Natural Energy LLC	12.5% or Greater	1647	609
D	WV-061-004461-055	BRAND, HAZEL K	Northeast Natural Energy LLC	12.5% or Greater	1647	611
D	WV-061-004461-056	LEWIS, LORETTA	Northeast Natural Energy LLC	12.5% or Greater	1647	613
D	WV-061-004461-057	LEWIS, LISA K.	Northeast Natural Energy LLC	12.5% or Greater	1647	615
D	WV-061-004461-058	LEWIS, LENA F.	Northeast Natural Energy LLC	12.5% or Greater	1647	617
D	WV-061-004461-059	PHILLIPS, R ET	Northeast Natural Energy LLC	12.5% or Greater	1647	619
D	WV-061-004461-060	HOVATTER, SHARO	Northeast Natural Energy LLC	12.5% or Greater	1649	165
D	WV-061-004461-061	EVANS, PAMELA K	Northeast Natural Energy LLC	12.5% or Greater	1647	765
D	WV-061-004461-062	STATLER, PATRIC	Northeast Natural Energy LLC	12.5% or Greater	1648	237
D	WV-061-004461-063	STATLER, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1648	239
D	WV-061-004461-064	MOREHEAD, LAURA	Northeast Natural Energy LLC	12.5% or Greater	1650	171
D	WV-061-004461-065	CZAKO, LENORA A	Northeast Natural Energy LLC	12.5% or Greater	1650	173
D	WV-061-004461-066	FOLKENS, DOUGLA	Northeast Natural Energy LLC	12.5% or Greater	1650	175
D	WV-061-004461-067	WILLIS, ROLLEY	Northeast Natural Energy LLC	12.5% or Greater	1651	139
D	WV-061-004461-068	MORRIS, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1650	179
D	WV-061-004461-069	VIETS, ELLEN C	Northeast Natural Energy LLC	12.5% or Greater	1650	181
D	WV-061-004461-070	VIETS, LLOYD O	Northeast Natural Energy LLC	12.5% or Greater	1650	183
D	WV-061-004461-071	DURBIN, WILDA J	Northeast Natural Energy LLC	12.5% or Greater	1653	171
D	WV-061-004461-072	MILLER, WILMA J	Northeast Natural Energy LLC	12.5% or Greater	1654	329
D	WV-061-004461-073	MAIN, GEORGE M	Northeast Natural Energy LLC	12.5% or Greater	1653	173
D	WV-061-004461-074	ZAPPI, ALICE M	Northeast Natural Energy LLC	12.5% or Greater	1653	175
D	WV-061-004461-075	BELL, BARBARA A	Northeast Natural Energy LLC	12.5% or Greater	1653	177
D	WV-061-004461-076	TEASDALE, KYLE	Northeast Natural Energy LLC	12.5% or Greater	1653	559
D	WV-061-004461-077	TEASDALE, DANYA	Northeast Natural Energy LLC	12.5% or Greater	1653	561
D	WV-061-004461-078	MAIN, KEANITH P	Northeast Natural Energy LLC	12.5% or Greater	1653	563
D	WV-061-004461-079	BRIGGS, HARRIET	Northeast Natural Energy LLC	12.5% or Greater	1654	331

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D	WV-061-004461-080	EASTHAM, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1655	507
D	WV-061-004461-081	KELLEY, PAUL R.	Northeast Natural Energy LLC	12.5% or Greater	1655	509
D	WV-061-004535-001	HALL, CHERYL L	Northeast Natural Energy LLC	12.5% or Greater	1591	509
D	WV-061-004535-002	HALL, LUCINDA	Northeast Natural Energy LLC	12.5% or Greater	1591	520
D	WV-061-004535-003	HALL, TAMARA L	Northeast Natural Energy LLC	12.5% or Greater	1591	513
D	WV-061-005201-001	STATLER, KIMBER	Northeast Natural Energy LLC	12.5% or Greater	1628	560
D	WV-061-005201-002	ROYCE, BEVERLY	Northeast Natural Energy LLC	12.5% or Greater	1628	562
D	WV-061-005201-003	ASH, SUSAN	Northeast Natural Energy LLC	12.5% or Greater	1628	564
D	WV-061-005201-004	STATLER, DEBORA	Northeast Natural Energy LLC	12.5% or Greater	1628	566
D	WV-061-005481-001	CNX GAS COMPANY	Northeast Natural Energy LLC	12.5% or Greater	1645	152
E	WV-061-003947-001	SHUMAN, INC.	Northeast Natural Energy LLC	12.5% or Greater	1566	83
F	WV-061-000126-001-LA	XTO Energy, Inc.	Northeast Natural Energy LLC	12.5% or Greater	1659	451
G	WV-061-002367-002	JONES, ROBERT H	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1404	474
G	WV-061-002367-002	Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC	12.5% or Greater	120	769
G	WV-061-002367-004	TRADER, FLORENC	Northeast Natural Energy LLC	12.5% or Greater	1510	68
G	WV-061-002367-005	TENNANT, ARIETT	Northeast Natural Energy LLC	12.5% or Greater	1511	554
G	WV-061-002367-006	STATLER, GARY D	Northeast Natural Energy LLC	12.5% or Greater	1576	640
G	WV-061-002367-007	STATLER, RONALD	Northeast Natural Energy LLC	12.5% or Greater	1512	535
G	WV-061-002367-008	ANASTASIADIS, M	Northeast Natural Energy LLC	12.5% or Greater	1516	156
G	WV-061-002367-009	HENDERSON, WAYN	Northeast Natural Energy LLC	12.5% or Greater	1512	691
G	WV-061-002367-010	ZUCHINSKI, NORM	Northeast Natural Energy LLC	12.5% or Greater	1516	162
G	WV-061-002367-011	DEVINE, JOHN N	Northeast Natural Energy LLC	12.5% or Greater	1517	129
G	WV-061-002367-012	TENNANT, SHEILA	Northeast Natural Energy LLC	12.5% or Greater	1517	123
G	WV-061-002367-013	ARNETT, PAMELA	Northeast Natural Energy LLC	12.5% or Greater	1516	152
G	WV-061-002367-014	SHRIVER, JODIE	Northeast Natural Energy LLC	12.5% or Greater	1517	133
G	WV-061-002367-015	BERRY, PRUDENCE	Northeast Natural Energy LLC	12.5% or Greater	1517	117
G	WV-061-002367-016	O'LEARY, JESSIC	Northeast Natural Energy LLC	12.5% or Greater	1517	32
G	WV-061-002367-017	VARNER, DONNA	Northeast Natural Energy LLC	12.5% or Greater	1517	107
G	WV-061-002367-018	POLING, LOUISE	Northeast Natural Energy LLC	12.5% or Greater	1590	131
G	WV-061-002367-019	JOHNSON, LUCILL	Northeast Natural Energy LLC	12.5% or Greater	1518	1
G	WV-061-002367-020	FREEMAN, BRENDA	Northeast Natural Energy LLC	12.5% or Greater	1520	322
G	WV-061-002367-021	KOVALSKY, SHIRL	Northeast Natural Energy LLC	12.5% or Greater	1520	328
G	WV-061-002367-022	KENYON, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1517	808
G	WV-061-002367-023	HENDERSON, JERR	Northeast Natural Energy LLC	12.5% or Greater	1517	849
G	WV-061-002367-024	MCCORD, RONNIE	Northeast Natural Energy LLC	12.5% or Greater	1523	443
G	WV-061-002367-025	HOWARD, WILLA	Northeast Natural Energy LLC	12.5% or Greater	1523	799
G	WV-061-002367-026	MCCORD, LAWRENC	Northeast Natural Energy LLC	12.5% or Greater	1524	325
G	WV-061-002367-032	CORDER, DENNY R	Northeast Natural Energy LLC	12.5% or Greater	1532	711
G	WV-061-002367-033	TENNANT, CHARLE	Northeast Natural Energy LLC	12.5% or Greater	1532	568
G	WV-061-002367-036	CORDER, DANNY D	Northeast Natural Energy LLC	12.5% or Greater	1531	86
G	WV-061-002367-037	CORDER, DARRELL	Northeast Natural Energy LLC	12.5% or Greater	1533	113
G	WV-061-002367-039	MYERS, DEBORAH	Northeast Natural Energy LLC	12.5% or Greater	1535	97
G	WV-061-002367-040	STATLER, CLAREN	Northeast Natural Energy LLC	12.5% or Greater	1535	118
G	WV-061-002367-041	CLEVINGER, DOUG	Northeast Natural Energy LLC	12.5% or Greater	1538	262
G	WV-061-002367-042	SCHIMMEL, JACQU	Northeast Natural Energy LLC	12.5% or Greater	1535	708
G	WV-061-002367-043	EISEMAN, JILL	Northeast Natural Energy LLC	12.5% or Greater	1535	631
G	WV-061-002367-044	EDDY, KENNETH	Northeast Natural Energy LLC	12.5% or Greater	1538	441
G	WV-061-002367-045	EDDY, KYLE	Northeast Natural Energy LLC	12.5% or Greater	1538	288
G	WV-061-002367-046	CLEVINGER, LUCA	Northeast Natural Energy LLC	12.5% or Greater	1539	524
G	WV-061-002367-047	FORTUNE DEVELOP	Northeast Natural Energy LLC	12.5% or Greater	1561	305
G	WV-061-002367-048	HENDERSON, NELS	Northeast Natural Energy LLC	12.5% or Greater	1545	348
G	WV-061-002367-049	LORING, HOWARD	Northeast Natural Energy LLC	12.5% or Greater	1545	338
G	WV-061-002367-050	LEWIS, RACHEL	Northeast Natural Energy LLC	12.5% or Greater	1566	683
G	WV-061-002367-051	BRYAN, DIANA L	Northeast Natural Energy LLC	12.5% or Greater	1545	346
G	WV-061-002367-052	JACKSON, ALMA	Northeast Natural Energy LLC	12.5% or Greater	1541	822
G	WV-061-002367-053	WALLS, DEVON	Northeast Natural Energy LLC	12.5% or Greater	1564	337
G	WV-061-002367-054	MARIETTA, ANGEL	Northeast Natural Energy LLC	12.5% or Greater	1566	685
G	WV-061-002367-055	CARR, NANCY P.	Northeast Natural Energy LLC	12.5% or Greater	1545	472
G	WV-061-002367-056	CARR, TRAVIS S	Northeast Natural Energy LLC	12.5% or Greater	1547	844
G	WV-061-002367-057	JUDGE, TIFFANY	Northeast Natural Energy LLC	12.5% or Greater	1545	794
G	WV-061-002367-058	RUSH, RICHARD W	Northeast Natural Energy LLC	12.5% or Greater	1545	786
G	WV-061-002367-059	MOORE, AMBER G.	Northeast Natural Energy LLC	12.5% or Greater	1545	796
G	WV-061-002367-060	MCCARTNEY, ANNA	Northeast Natural Energy LLC	12.5% or Greater	1564	386
G	WV-061-002367-061	VOITHOFER, PAUL	Northeast Natural Energy LLC	12.5% or Greater	1551	103
G	WV-061-002367-062	WHITE, LINDA LO	Northeast Natural Energy LLC	12.5% or Greater	1551	97
G	WV-061-002367-063	WALLS, DENZIL M	Northeast Natural Energy LLC	12.5% or Greater	1566	71
G	WV-061-002367-064	WALLS, DONZEL B	Northeast Natural Energy LLC	12.5% or Greater	1566	73
G	WV-061-002367-065	BENSON, CHRISTI	Northeast Natural Energy LLC	12.5% or Greater	1566	81
G	WV-061-002367-066	MCMAHON, MARGIE	Northeast Natural Energy LLC	12.5% or Greater	1566	63
G	WV-061-002367-067	WALLS, DANIEL E	Northeast Natural Energy LLC	12.5% or Greater	1566	35
G	WV-061-002367-068	WALLS, DELMER J	Northeast Natural Energy LLC	12.5% or Greater	1566	17
G	WV-061-002367-069	MYERS, DAVID B	Northeast Natural Energy LLC	12.5% or Greater	1565	645
G	WV-061-002367-070	WALLS, ELIZABET	Northeast Natural Energy LLC	12.5% or Greater	1566	65
G	WV-061-002367-071	WALLS, TABITHA	Northeast Natural Energy LLC	12.5% or Greater	1565	278

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G	WV-061-002367-072	MOORE, LINDA A.	Northeast Natural Energy LLC	12.5% or Greater	1588	357
G	WV-061-002367-073	HUPP, SARA S	Northeast Natural Energy LLC	12.5% or Greater	1647	21
G	WV-061-002367-074	HUPP, MOLLY H	Northeast Natural Energy LLC	12.5% or Greater	1647	442
G	WV-061-002367-075	STATLER, ROB ET	Northeast Natural Energy LLC	12.5% or Greater	1650	72
G	WV-061-002367-076	SCHEINHOLTZ, DA	Northeast Natural Energy LLC	12.5% or Greater	1650	74
G	WV-061-004461-001	HOVATTER, DENNI	Northeast Natural Energy LLC	12.5% or Greater	1586	444
G	WV-061-004461-002	WEST VIRGINIA U	Northeast Natural Energy LLC	12.5% or Greater	1586	556
G	WV-061-004461-003	KENYON, BARB ET	Northeast Natural Energy LLC	12.5% or Greater	1588	842
G	WV-061-004461-004	HENDERSON, ALLE	Northeast Natural Energy LLC	12.5% or Greater	1588	845
G	WV-061-004461-005	HENDERSON, JERR	Northeast Natural Energy LLC	12.5% or Greater	1588	848
G	WV-061-004461-006	FLETCHER, PATRI	Northeast Natural Energy LLC	12.5% or Greater	1589	9
G	WV-061-004461-007	SCHLEGEL, BONNI	Northeast Natural Energy LLC	12.5% or Greater	1589	12
G	WV-061-004461-008	ZICKEFOOSE, EDN	Northeast Natural Energy LLC	12.5% or Greater	1589	15
G	WV-061-004461-009	KOVALSKY, SHIRL	Northeast Natural Energy LLC	12.5% or Greater	1589	18
G	WV-061-004461-010	FRYE, CATHY	Northeast Natural Energy LLC	12.5% or Greater	1589	21
G	WV-061-004461-011	SWENK, SALLY JO	Northeast Natural Energy LLC	12.5% or Greater	1605	102
G	WV-061-004461-012	SCHULTZ, GEORGE	Northeast Natural Energy LLC	12.5% or Greater	1605	105
G	WV-061-004461-013	RICKS, MARY E	Northeast Natural Energy LLC	12.5% or Greater	1606	649
G	WV-061-004461-014	LEKSELL, DEBORA	Northeast Natural Energy LLC	12.5% or Greater	1610	468
G	WV-061-004461-015	SCHULTZ, JEFFRE	Northeast Natural Energy LLC	12.5% or Greater	1606	653
G	WV-061-004461-016	WREN, SUZANNE	Northeast Natural Energy LLC	12.5% or Greater	1606	656
G	WV-061-004461-017	WELLS, STACEY	Northeast Natural Energy LLC	12.5% or Greater	1606	669
G	WV-061-004461-018	WELLS, ROBERT S	Northeast Natural Energy LLC	12.5% or Greater	1606	672
G	WV-061-004461-020	BREWER, PATRICI	Northeast Natural Energy LLC	12.5% or Greater	1617	776
G	WV-061-004461-021	LEWIS, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1617	799
G	WV-061-004461-022	LASKODY, PAMELA	Northeast Natural Energy LLC	12.5% or Greater	1617	801
G	WV-061-004461-023	SCHEUCH, JENNIF	Northeast Natural Energy LLC	12.5% or Greater	1617	803
G	WV-061-004461-024	STATLER, GREGOR	Northeast Natural Energy LLC	12.5% or Greater	1620	429
G	WV-061-004461-025	STATLER, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1620	431
G	WV-061-004461-026	STATLER, MICHEL	Northeast Natural Energy LLC	12.5% or Greater	1620	433
G	WV-061-004461-027	STATLER, RON ET	Northeast Natural Energy LLC	12.5% or Greater	1620	435
G	WV-061-004461-028	STATLER, MARY L	Northeast Natural Energy LLC	12.5% or Greater	1630	257
G	WV-061-004461-029	HOVATTER, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1638	259
G	WV-061-004461-030	STATLER, KENNET	Northeast Natural Energy LLC	12.5% or Greater	1636	281
G	WV-061-004461-031	MORRIS, GENEVIE	Northeast Natural Energy LLC	12.5% or Greater	1643	533
G	WV-061-004461-032	SMITH, KATHLEEN	Northeast Natural Energy LLC	12.5% or Greater	1637	827
G	WV-061-004461-033	MCCONAHAY, KEIT	Northeast Natural Energy LLC	12.5% or Greater	1637	829
G	WV-061-004461-034	HOPPER, DANIELL	Northeast Natural Energy LLC	12.5% or Greater	1637	831
G	WV-061-004461-035	SAYLOR, DEBORA	Northeast Natural Energy LLC	12.5% or Greater	1637	833
G	WV-061-004461-036	PATTERSON, T ET	Northeast Natural Energy LLC	12.5% or Greater	1643	726
G	WV-061-004461-037	CURTIS, MARY	Northeast Natural Energy LLC	12.5% or Greater	1641	847
G	WV-061-004461-038	FLUHARTY, DIANN	Northeast Natural Energy LLC	12.5% or Greater	1638	524
G	WV-061-004461-039	REDMAN, MARY E	Northeast Natural Energy LLC	12.5% or Greater	1638	512
G	WV-061-004461-040	STATLER, RICHA	Northeast Natural Energy LLC	12.5% or Greater	1640	581
G	WV-061-004461-041	STATLER, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1641	350
G	WV-061-004461-042	WALTERS, MARY	Northeast Natural Energy LLC	12.5% or Greater	1641	352
G	WV-061-004461-043	LORD, LISA ETV	Northeast Natural Energy LLC	12.5% or Greater	1642	368
G	WV-061-004461-044	SHAHAN, MICHAEL	Northeast Natural Energy LLC	12.5% or Greater	1642	370
G	WV-061-004461-045	PRICHARD, JOHN	Northeast Natural Energy LLC	12.5% or Greater	1643	535
G	WV-061-004461-046	WARMAN, SHIRLEY	Northeast Natural Energy LLC	12.5% or Greater	1643	447
G	WV-061-004461-047	MOONEY, NORMA E	Northeast Natural Energy LLC	12.5% or Greater	1643	449
G	WV-061-004461-048	WARMAN, WILLIAM	Northeast Natural Energy LLC	12.5% or Greater	1643	451
G	WV-061-004461-049	PRICHARD TRUST	Northeast Natural Energy LLC	12.5% or Greater	1643	100
G	WV-061-004461-050	KERNS, LINDA S	Northeast Natural Energy LLC	12.5% or Greater	1643	10
G	WV-061-004461-051	RUSSELL, REBECC	Northeast Natural Energy LLC	12.5% or Greater	1649	760
G	WV-061-004461-052	PAULY, PAULA ET	Northeast Natural Energy LLC	12.5% or Greater	1647	427
G	WV-061-004461-053	STATLER, HELEN	Northeast Natural Energy LLC	12.5% or Greater	1647	607
G	WV-061-004461-054	KELLEY, NANCY A	Northeast Natural Energy LLC	12.5% or Greater	1647	609
G	WV-061-004461-055	BRAND, HAZEL K	Northeast Natural Energy LLC	12.5% or Greater	1647	611
G	WV-061-004461-056	LEWIS, LORETTA	Northeast Natural Energy LLC	12.5% or Greater	1647	613
G	WV-061-004461-057	LEWIS, LISA K.	Northeast Natural Energy LLC	12.5% or Greater	1647	615
G	WV-061-004461-058	LEWIS, LENA F.	Northeast Natural Energy LLC	12.5% or Greater	1647	617
G	WV-061-004461-059	PHILLIPS, R ET	Northeast Natural Energy LLC	12.5% or Greater	1647	619
G	WV-061-004461-060	HOVATTER, SHARO	Northeast Natural Energy LLC	12.5% or Greater	1649	165
G	WV-061-004461-061	EVANS, PAMELA K	Northeast Natural Energy LLC	12.5% or Greater	1647	765
G	WV-061-004461-062	STATLER, PATRIC	Northeast Natural Energy LLC	12.5% or Greater	1648	237
G	WV-061-004461-063	STATLER, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1648	239
G	WV-061-004461-064	MOREHEAD, LAURA	Northeast Natural Energy LLC	12.5% or Greater	1650	171
G	WV-061-004461-065	CZAKO, LENORA A	Northeast Natural Energy LLC	12.5% or Greater	1650	173
G	WV-061-004461-066	FOLKENS, DOUGLA	Northeast Natural Energy LLC	12.5% or Greater	1650	175
G	WV-061-004461-067	WILLIS, ROLLEY	Northeast Natural Energy LLC	12.5% or Greater	1651	139
G	WV-061-004461-068	MORRIS, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1650	179
G	WV-061-004461-069	VIETS, ELLEN C	Northeast Natural Energy LLC	12.5% or Greater	1650	181
G	WV-061-004461-070	VIETS, LLOYD O	Northeast Natural Energy LLC	12.5% or Greater	1650	183

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
G	WV-061-004461-071	DURBIN, WILDA J	Northeast Natural Energy LLC	12.5% or Greater	1653	171
G	WV-061-004461-072	MILLER, WILMA J	Northeast Natural Energy LLC	12.5% or Greater	1654	329
G	WV-061-004461-073	MAIN, GEORGE M	Northeast Natural Energy LLC	12.5% or Greater	1653	173
G	WV-061-004461-074	ZAPPI, ALICE M	Northeast Natural Energy LLC	12.5% or Greater	1653	175
G	WV-061-004461-075	BELL, BARBARA A	Northeast Natural Energy LLC	12.5% or Greater	1653	177
G	WV-061-004461-076	TEASDALE, KYLE	Northeast Natural Energy LLC	12.5% or Greater	1653	559
G	WV-061-004461-077	TEASDALE, DANYA	Northeast Natural Energy LLC	12.5% or Greater	1653	561
G	WV-061-004461-078	MAIN, KEANITH P	Northeast Natural Energy LLC	12.5% or Greater	1653	563
G	WV-061-004461-079	BRIGGS, HARRIET	Northeast Natural Energy LLC	12.5% or Greater	1654	331
G	WV-061-004461-080	EASTHAM, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1655	607
G	WV-061-004461-081	KELLEY, PAUL R.	Northeast Natural Energy LLC	12.5% or Greater	1655	609
G	WV-061-004535-001	HALL, CHERYL L	Northeast Natural Energy LLC	12.5% or Greater	1591	509
G	WV-061-004535-002	HALL, LUCINDA	Northeast Natural Energy LLC	12.5% or Greater	1591	520
G	WV-061-004535-003	HALL, TAMARA L	Northeast Natural Energy LLC	12.5% or Greater	1591	513
H	WV-061-003971-001	MOORE, TED K.	Northeast Natural Energy LLC	12.5% or Greater	1564	659
H	WV-061-003971-002	LEMLEY, LAURA E	Northeast Natural Energy LLC	12.5% or Greater	1566	53
H	WV-061-003971-003	MINOR, JUNE LEM	Northeast Natural Energy LLC	12.5% or Greater	1566	45
H	WV-061-004360-001	LEMLEY, LAURA E	Northeast Natural Energy LLC	12.5% or Greater	1576	484
I	WV-061-003971-001	MOORE, TED K.	Northeast Natural Energy LLC	12.5% or Greater	1564	659
I	WV-061-003971-002	LEMLEY, LAURA E	Northeast Natural Energy LLC	12.5% or Greater	1566	53
I	WV-061-003971-003	MINOR, JUNE LEM	Northeast Natural Energy LLC	12.5% or Greater	1566	45
J	WV-061-004360-001	LEMLEY, LAURA E	Northeast Natural Energy LLC	12.5% or Greater	1576	484
J	WV-061-004059-000	MOORE, DANIEL	Chartiers Oil Co.	12.5% or Greater	See Leasehold Chain	
K	WV-061-004059-000	MOORE, DANIEL	Chartiers Oil Co.	12.5% or Greater	See Leasehold Chain	
L	WV-061-003746-001	ANTOL, JANET	Northeast Natural Energy LLC	12.5% or Greater	1542	22
L	WV-061-003746-002	JOHNSON, ZOE	Northeast Natural Energy LLC	12.5% or Greater	1572	632
L	WV-061-003746-003	MCCARTY FAMILY	Northeast Natural Energy LLC	12.5% or Greater	1566	681
L	WV-061-003746-004	WALKER, STEPHAN	Northeast Natural Energy LLC	12.5% or Greater	1559	148
L	WV-061-003746-005	AMMONS, DONALD	Northeast Natural Energy LLC	12.5% or Greater	1568	91
L	WV-061-003746-006	TENNANT, ARIETT	Northeast Natural Energy LLC	12.5% or Greater	1564	736
L	WV-061-003746-007	STATLER, GARY D	Northeast Natural Energy LLC	12.5% or Greater	1560	457
L	WV-061-003746-008	STATLER, RONALD	Northeast Natural Energy LLC	12.5% or Greater	1566	92
L	WV-061-003746-009	CALTRIDER, ROSE	Northeast Natural Energy LLC	12.5% or Greater	1649	839
L	WV-061-004848-001	DARRAH, DEB ETV	Northeast Natural Energy LLC	12.5% or Greater	1612	295
L	WV-061-004848-002	JOHNSON, MARY L	Northeast Natural Energy LLC	12.5% or Greater	1612	297
L	WV-061-004848-003	JOHNSON, PHYLLI	Northeast Natural Energy LLC	12.5% or Greater	1612	299
L	WV-061-004848-004	JOHNSON, NELLIE	Northeast Natural Energy LLC	12.5% or Greater	1612	301
L	WV-061-004848-005	BREWER, RUBY ET	Northeast Natural Energy LLC	12.5% or Greater	1612	303
L	WV-061-004848-006	HUGGINS, ROSE	Northeast Natural Energy LLC	12.5% or Greater	1612	305
L	WV-061-004848-007	BROMHAL, BEVERL	Northeast Natural Energy LLC	12.5% or Greater	1612	307
L	WV-061-004848-008	STEWART, GRANT	Northeast Natural Energy LLC	12.5% or Greater	1612	9
L	WV-061-004848-009	GASKILL, PAULIN	Northeast Natural Energy LLC	12.5% or Greater	1614	25
L	WV-061-004848-010	JOHNSON, JOHN R	Northeast Natural Energy LLC	12.5% or Greater	1611	829
L	WV-061-004848-011	SHIPLEY, STEPHA	Northeast Natural Energy LLC	12.5% or Greater	1614	27
L	WV-061-004848-012	STEWART, EARL W	Northeast Natural Energy LLC	12.5% or Greater	1614	563
L	WV-061-004848-013	STOKES, NANCY J	Northeast Natural Energy LLC	12.5% or Greater	1614	565
L	WV-061-004848-014	ARMSTONG, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1616	134
L	WV-061-004848-015	CARROLL, LOXI A	Northeast Natural Energy LLC	12.5% or Greater	1618	332
L	WV-061-004848-016	KENNEDY, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1618	334
L	WV-061-004848-017	STEWART, PAUL T	Northeast Natural Energy LLC	12.5% or Greater	1618	631
L	WV-061-004848-018	ATKINS, GREGORY	Northeast Natural Energy LLC	12.5% or Greater	1620	13
L	WV-061-004848-019	WILLARD, WANDA	Northeast Natural Energy LLC	12.5% or Greater	1620	15
L	WV-061-004848-020	BATSON, JACKIE	Northeast Natural Energy LLC	12.5% or Greater	1620	17
L	WV-061-004848-021	AMMONS, RONALD	Northeast Natural Energy LLC	12.5% or Greater	1620	19
L	WV-061-004848-022	AMMONS, BUDDY	Northeast Natural Energy LLC	12.5% or Greater	1620	21
L	WV-061-004848-023	DEMOSS, GARY L.	Northeast Natural Energy LLC	12.5% or Greater	1620	23
L	WV-061-004848-024	RUSSELL, TERESA	Northeast Natural Energy LLC	12.5% or Greater	1620	25
L	WV-061-004848-025	LONG, DIANE LYN	Northeast Natural Energy LLC	12.5% or Greater	1627	367
L	WV-061-004848-026	AMMONS, DELBERT	Northeast Natural Energy LLC	12.5% or Greater	1627	369
L	WV-061-004848-027	MOORE, DONNY L	Northeast Natural Energy LLC	12.5% or Greater	1627	371
L	WV-061-004848-028	MOORE, DALE L.	Northeast Natural Energy LLC	12.5% or Greater	1627	373
L	WV-061-004848-029	MOORE, DAVID W.	Northeast Natural Energy LLC	12.5% or Greater	1627	375
L	WV-061-004848-030	MOORE, DANNY KE	Northeast Natural Energy LLC	12.5% or Greater	1628	448
L	WV-061-004928-001	BOYCE, WILLIAME	Northeast Natural Energy LLC	12.5% or Greater	1613	308
L	WV-061-004950-001	TENNANT, ELIZA	Northeast Natural Energy LLC	12.5% or Greater	1614	587
L	WV-061-004950-002	STEWART, CARL W	Northeast Natural Energy LLC	12.5% or Greater	1618	715
L	WV-061-004957-001	WEST, RICHARD E	Northeast Natural Energy LLC	12.5% or Greater	1614	633
L	WV-061-004957-002	JOHNSON, NANCY	Northeast Natural Energy LLC	12.5% or Greater	1618	374
L	WV-061-004957-003	STEWART, STEVEN	Northeast Natural Energy LLC	12.5% or Greater	1649	282
L	WV-061-005131-001	GANTT, LOU	Northeast Natural Energy LLC	12.5% or Greater	1618	759
L	WV-061-005152-001	KELSEY, KENNETH	Northeast Natural Energy LLC	12.5% or Greater	1620	108
L	WV-061-005152-002	BINNEY, GAYLE	Northeast Natural Energy LLC	12.5% or Greater	1620	110
L	WV-061-005152-003	KELSEY, SHERRY	Northeast Natural Energy LLC	12.5% or Greater	1620	112
L	WV-061-005152-004	STONE, LUCINDA	Northeast Natural Energy LLC	12.5% or Greater	1620	114

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L	WV-061-005152-005	BINNEY, KYLE ET	Northeast Natural Energy LLC	12.5% or Greater	1623	154
L	WV-061-005152-006	BINNEY, ERIN ET	Northeast Natural Energy LLC	12.5% or Greater	1623	156
L	WV-061-005222-001	HEDE, STEVE	Northeast Natural Energy LLC	12.5% or Greater	1637	214
L	WV-061-005423-001	HALL, BETTY K	Northeast Natural Energy LLC	12.5% or Greater	1641	356
L	WV-061-005423-002	HALL, MELVIN ET	Northeast Natural Energy LLC	12.5% or Greater	1643	334
L	WV-061-005423-003	SPITZNOGLE, ALI	Northeast Natural Energy LLC	12.5% or Greater	1648	39
L	WV-061-005423-004	HALL, MARY K	Northeast Natural Energy LLC	12.5% or Greater	1652	255
L	WV-061-005446-001	STATLER, PATRIC	Northeast Natural Energy LLC	12.5% or Greater	1643	436
L	WV-061-005446-002	BRUNETT-SANDRID	Northeast Natural Energy LLC	12.5% or Greater	1643	438
L	WV-061-005446-003	MOORE, BRUCE	Northeast Natural Energy LLC	12.5% or Greater	1648	51
L	WV-061-005446-004	MOORE, JASON	Northeast Natural Energy LLC	12.5% or Greater	1648	53
L	WV-061-005446-005	WORLEY MOORE ES	Northeast Natural Energy LLC	12.5% or Greater	1654	114
M	WV-061-005128-001	AMMONS, NOAA+ C	Northeast Natural Energy LLC	12.5% or Greater	1618	757
M	WV-061-005128-002	DELANEY, SUE	Northeast Natural Energy LLC	12.5% or Greater	1618	557
M	WV-061-005128-003	MOORE, BILLY M	Northeast Natural Energy LLC	12.5% or Greater	1623	497
M	WV-061-005128-004	MOORE, CURTIS R	Northeast Natural Energy LLC	12.5% or Greater	1626	845
M	WV-061-005128-005	HOLMES, LENA D.	Northeast Natural Energy LLC	12.5% or Greater	1627	422
M	WV-061-005128-006	HOLMES, PENNY A	Northeast Natural Energy LLC	12.5% or Greater	1628	507
M	WV-061-005128-007	BARR, LINDA ET	Northeast Natural Energy LLC	12.5% or Greater	1628	509
M	WV-061-005128-008	MOORE, DONRA J	Northeast Natural Energy LLC	12.5% or Greater	1628	511
M	WV-061-005128-009	RABER, RONALD E	Northeast Natural Energy LLC	12.5% or Greater	1628	513
M	WV-061-005128-010	VARNER, DAVID M	Northeast Natural Energy LLC	12.5% or Greater	1636	259
M	WV-061-005128-011	VARNER, DANIEL	Northeast Natural Energy LLC	12.5% or Greater	1636	261
M	WV-061-005128-012	VARNER, DELMAS	Northeast Natural Energy LLC	12.5% or Greater	1636	801
M	WV-061-005128-013	PARROTTA, DEMA	Northeast Natural Energy LLC	12.5% or Greater	1636	763
M	WV-061-005128-014	VARNER, KAREN	Northeast Natural Energy LLC	12.5% or Greater	1647	440
M	WV-061-005144-001	SHUMAN, DAVID L	Northeast Natural Energy LLC	12.5% or Greater	1620	86
M	WV-061-005144-002	SHUMAN, JAMES W	Northeast Natural Energy LLC	12.5% or Greater	1631	420
M	WV-061-005144-003	SHUMAN, CHESTER	Northeast Natural Energy LLC	12.5% or Greater	1638	555
M	WV-061-005144-004	SHUMAN, INC	Northeast Natural Energy LLC	12.5% or Greater	1658	633
M	WV-061-005144-005	PALMER, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1673	372
M	WV-061-005348-001	TENNANT, MARTHA	Northeast Natural Energy LLC	12.5% or Greater	1636	245
M	WV-061-005348-002	EMORY, JEAN ETV	Northeast Natural Energy LLC	12.5% or Greater	1638	650
M	WV-061-005348-003	LEMLEY, MARY	Northeast Natural Energy LLC	12.5% or Greater	1643	845
N	WV-061-003746-001	ANTOL, JANET	Northeast Natural Energy LLC	12.5% or Greater	1542	22
N	WV-061-003746-002	JOHNSON, ZOE	Northeast Natural Energy LLC	12.5% or Greater	1572	632
N	WV-061-003746-003	MCCARTY FAMILY	Northeast Natural Energy LLC	12.5% or Greater	1566	581
N	WV-061-003746-004	WALKER, STEPHAN	Northeast Natural Energy LLC	12.5% or Greater	1559	148
N	WV-061-003746-005	AMMONS, DONALD	Northeast Natural Energy LLC	12.5% or Greater	1568	91
N	WV-061-003746-006	TENNANT, ARIETT	Northeast Natural Energy LLC	12.5% or Greater	1564	736
N	WV-061-003746-007	STATLER, GARY D	Northeast Natural Energy LLC	12.5% or Greater	1560	457
N	WV-061-003746-008	STATLER, RONALD	Northeast Natural Energy LLC	12.5% or Greater	1566	92
N	WV-061-003746-009	CALTRIDER, ROSE	Northeast Natural Energy LLC	12.5% or Greater	1649	839
N	WV-061-004848-001	DARRAH, DEB ETV	Northeast Natural Energy LLC	12.5% or Greater	1612	295
N	WV-061-004848-002	JOHNSON, MARY L	Northeast Natural Energy LLC	12.5% or Greater	1612	297
N	WV-061-004848-003	JOHNSON, PHYLLI	Northeast Natural Energy LLC	12.5% or Greater	1612	299
N	WV-061-004848-004	JOHNSON, NELLIE	Northeast Natural Energy LLC	12.5% or Greater	1612	301
N	WV-061-004848-005	BREWER, RUBY ET	Northeast Natural Energy LLC	12.5% or Greater	1612	303
N	WV-061-004848-006	HUGGINS, ROSE	Northeast Natural Energy LLC	12.5% or Greater	1612	305
N	WV-061-004848-007	BROMHAL, BEVERL	Northeast Natural Energy LLC	12.5% or Greater	1612	307
N	WV-061-004848-008	STEWART, GRANT	Northeast Natural Energy LLC	12.5% or Greater	16123	9
N	WV-061-004848-009	GASKILL, PAULIN	Northeast Natural Energy LLC	12.5% or Greater	1614	25
N	WV-061-004848-010	JOHNSON, JOHN R	Northeast Natural Energy LLC	12.5% or Greater	1611	829
N	WV-061-004848-011	SHIPLEY, STEPHA	Northeast Natural Energy LLC	12.5% or Greater	1614	27
N	WV-061-004848-012	STEWART, EARL W	Northeast Natural Energy LLC	12.5% or Greater	1614	563
N	WV-061-004848-013	STOKES, NANCY J	Northeast Natural Energy LLC	12.5% or Greater	1614	565
N	WV-061-004848-014	ARMSTONG, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1616	134
N	WV-061-004848-015	CARROLL, LOXI A	Northeast Natural Energy LLC	12.5% or Greater	1618	332
N	WV-061-004848-016	KENNEDY, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1618	334
N	WV-061-004848-017	STEWART, PAUL T	Northeast Natural Energy LLC	12.5% or Greater	1618	631
N	WV-061-004848-018	ATKINS, GREGORY	Northeast Natural Energy LLC	12.5% or Greater	1620	13
N	WV-061-004848-019	WILLARD, WANDA	Northeast Natural Energy LLC	12.5% or Greater	1620	15
N	WV-061-004848-020	BATSON, JACKIE	Northeast Natural Energy LLC	12.5% or Greater	1620	17
N	WV-061-004848-021	AMMONS, RONALD	Northeast Natural Energy LLC	12.5% or Greater	1620	19
N	WV-061-004848-022	AMMONS, BUDDY	Northeast Natural Energy LLC	12.5% or Greater	1620	21
N	WV-061-004848-023	DEMOSSE, GARY L.	Northeast Natural Energy LLC	12.5% or Greater	1620	23
N	WV-061-004848-024	RUSSELL, TERESA	Northeast Natural Energy LLC	12.5% or Greater	1620	25
N	WV-061-004848-025	LONG, DIANE LYN	Northeast Natural Energy LLC	12.5% or Greater	1627	367
N	WV-061-004848-026	AMMONS, DELBERT	Northeast Natural Energy LLC	12.5% or Greater	1627	369
N	WV-061-004848-027	MOORE, DONNY L	Northeast Natural Energy LLC	12.5% or Greater	1627	371
N	WV-061-004848-028	MOORE, DALE L.	Northeast Natural Energy LLC	12.5% or Greater	1627	373
N	WV-061-004848-029	MOORE, DAVID W.	Northeast Natural Energy LLC	12.5% or Greater	1627	375
N	WV-061-004848-030	MOORE, DANNY KE	Northeast Natural Energy LLC	12.5% or Greater	1628	448
N	WV-061-004928-001	BOYCE, WILLIAME	Northeast Natural Energy LLC	12.5% or Greater	1613	308

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
N	WV-061-004950-001	TENNANT, ELIZA	Northeast Natural Energy LLC	12.5% or Greater	1614	587
N	WV-061-004950-002	STEWART, CARL W	Northeast Natural Energy LLC	12.5% or Greater	1618	715
N	WV-061-004957-001	WEST, RICHARD E	Northeast Natural Energy LLC	12.5% or Greater	1614	633
N	WV-061-004957-002	JOHNSON, NANCY	Northeast Natural Energy LLC	12.5% or Greater	1618	374
N	WV-061-004957-003	STEWART, STEVEN	Northeast Natural Energy LLC	12.5% or Greater	1649	282
N	WV-061-005131-001	GANTT, LOU	Northeast Natural Energy LLC	12.5% or Greater	1618	759
N	WV-061-005152-001	KELSEY, KENNETH	Northeast Natural Energy LLC	12.5% or Greater	1620	108
N	WV-061-005152-002	BINNEY, GAYLE	Northeast Natural Energy LLC	12.5% or Greater	1620	110
N	WV-061-005152-003	KELSEY, SHERRY	Northeast Natural Energy LLC	12.5% or Greater	1620	112
N	WV-061-005152-004	STONE, LUCINDA	Northeast Natural Energy LLC	12.5% or Greater	1620	114
N	WV-061-005152-005	BINNEY, KYLE ET	Northeast Natural Energy LLC	12.5% or Greater	1623	154
N	WV-061-005152-006	BINNEY, ERIN ET	Northeast Natural Energy LLC	12.5% or Greater	1623	156
N	WV-061-005222-001	HEDE, STEVE	Northeast Natural Energy LLC	12.5% or Greater	1637	214
N	WV-061-005423-001	HALL, BETTY K	Northeast Natural Energy LLC	12.5% or Greater	1641	356
N	WV-061-005423-002	HALL, MELVIN ET	Northeast Natural Energy LLC	12.5% or Greater	1643	334
N	WV-061-005423-003	SPITZNOGLE, ALI	Northeast Natural Energy LLC	12.5% or Greater	1648	39
N	WV-061-005423-004	HALL, MARY K	Northeast Natural Energy LLC	12.5% or Greater	1652	255
N	WV-061-005446-001	STATLER, PATRIC	Northeast Natural Energy LLC	12.5% or Greater	1643	436
N	WV-061-005446-002	BRUNETT-SANDRID	Northeast Natural Energy LLC	12.5% or Greater	1643	438
N	WV-061-005446-003	MOORE, BRUCE	Northeast Natural Energy LLC	12.5% or Greater	1648	51
N	WV-061-005446-004	MOORE, JASON	Northeast Natural Energy LLC	12.5% or Greater	1648	53
N	WV-061-005446-005	WORLEY MOORE ES	Northeast Natural Energy LLC	12.5% or Greater	1654	114
O	WV-061-003628-001	BATSON, JACKIE	Northeast Natural Energy LLC	12.5% or Greater	1538	629
O	WV-061-003628-002	ATKINS, GREGORY	Northeast Natural Energy LLC	12.5% or Greater	1538	625
O	WV-061-003628-003	WILLARD, WANDA	Northeast Natural Energy LLC	12.5% or Greater	1538	637
O	WV-061-003628-004	DEMOSS, RONNIE	Northeast Natural Energy LLC	12.5% or Greater	1538	298
O	WV-061-003628-005	BRIGGS, KENNETH	Northeast Natural Energy LLC	12.5% or Greater	1538	627
O	WV-061-003628-006	DEMOSS, GARY L.	Northeast Natural Energy LLC	12.5% or Greater	1538	631
O	WV-061-003628-007	ANTOL, JANET L.	Northeast Natural Energy LLC	12.5% or Greater	1538	296
O	WV-061-003628-008	VARNER, DONNA	Northeast Natural Energy LLC	12.5% or Greater	1538	445
O	WV-061-003628-009	RUSSELL, TERESA	Northeast Natural Energy LLC	12.5% or Greater	1538	398
O	WV-061-003628-010	MCCARTY FAMILY	Northeast Natural Energy LLC	12.5% or Greater	1539	664
O	WV-061-003628-011	STATLER, RONALD	Northeast Natural Energy LLC	12.5% or Greater	1538	396
O	WV-061-003628-012	TENNANT, ARIETT	Northeast Natural Energy LLC	12.5% or Greater	1538	326
O	WV-061-003628-013	STATLER, GARY D	Northeast Natural Energy LLC	12.5% or Greater	1539	483
O	WV-061-003628-014	WALKER, STEPHAN	Northeast Natural Energy LLC	12.5% or Greater	1551	99
O	WV-061-003628-015	KELSEY, KENNETH	Northeast Natural Energy LLC	12.5% or Greater	1564	533
O	WV-061-003628-016	BINNEY, ERIN AN	Northeast Natural Energy LLC	12.5% or Greater	1565	267
O	WV-061-003628-017	STONE, LUCINDA	Northeast Natural Energy LLC	12.5% or Greater	1565	803
O	WV-061-003628-018	KELSEY, SHERRY	Northeast Natural Energy LLC	12.5% or Greater	1568	18
O	WV-061-003628-019	BINNEY, GAYLE	Northeast Natural Energy LLC	12.5% or Greater	1566	110
O	WV-061-003628-020	BINNEY, KYLE	Northeast Natural Energy LLC	12.5% or Greater	1566	33
O	WV-061-003628-021	AMMONS, DONALD	Northeast Natural Energy LLC	12.5% or Greater	1564	730
O	WV-061-003644-001	JOHNSON, JOHN R	Northeast Natural Energy LLC	12.5% or Greater	1539	481
O	WV-061-003644-002	JOHNSON, MELVIN	Northeast Natural Energy LLC	12.5% or Greater	1538	300
O	WV-061-003644-003	KENNEDY, ANNA J	Northeast Natural Energy LLC	12.5% or Greater	1539	479
O	WV-061-003644-004	DARRAH, DEBBIE	Northeast Natural Energy LLC	12.5% or Greater	1538	404
O	WV-061-003644-005	CONAWAY, MARY	Northeast Natural Energy LLC	12.5% or Greater	1538	406
O	WV-061-003644-006	CARTWRIGHT, ROS	Northeast Natural Energy LLC	12.5% or Greater	1539	485
O	WV-061-003644-007	JOHNSON, ZOE	Northeast Natural Energy LLC	12.5% or Greater	1539	477
O	WV-061-003667-001	SHIPLEY, STEPHA	Northeast Natural Energy LLC	12.5% or Greater	1538	354
O	WV-061-003667-002	BREWER, RUBY	Northeast Natural Energy LLC	12.5% or Greater	1538	344
O	WV-061-003667-003	STOKES, NANCY	Northeast Natural Energy LLC	12.5% or Greater	1539	455
O	WV-061-003667-004	STEWART, PAUL T	Northeast Natural Energy LLC	12.5% or Greater	1538	266
O	WV-061-003667-005	STEWART, CARL	Northeast Natural Energy LLC	12.5% or Greater	1538	352
O	WV-061-003667-006	TENNANT, ELIZAB	Northeast Natural Energy LLC	12.5% or Greater	1540	258
O	WV-061-003667-007	HUGGINS, ROSE	Northeast Natural Energy LLC	12.5% or Greater	1538	453
O	WV-061-003667-008	GASKILL, PAULIN	Northeast Natural Energy LLC	12.5% or Greater	1539	385
O	WV-061-003667-009	JOHNSON, PHYLI	Northeast Natural Energy LLC	12.5% or Greater	1539	275
O	WV-061-003667-010	BAUGHMAN, MARCE	Northeast Natural Energy LLC	12.5% or Greater	1539	81
O	WV-061-003667-011	BROMHAL, BEVERL	Northeast Natural Energy LLC	12.5% or Greater	1539	72
O	WV-061-003667-012	ARMSTRONG, JAME	Northeast Natural Energy LLC	12.5% or Greater	1539	94
O	WV-061-003667-013	STEWART, GRANT	Northeast Natural Energy LLC	12.5% or Greater	1538	402
O	WV-061-003667-014	JOHNSON, JACK J	Northeast Natural Energy LLC	12.5% or Greater	1542	519
O	WV-061-003667-015	MOORE, CARL W.	Northeast Natural Energy LLC	12.5% or Greater	1564	382
O	WV-061-003667-016	STEWART, EARL	Northeast Natural Energy LLC	12.5% or Greater	1564	388
O	WV-061-003675-001	AMMONS, RONALD	Northeast Natural Energy LLC	12.5% or Greater	1539	70
O	WV-061-003675-002	AMMONS, BUDDY	Northeast Natural Energy LLC	12.5% or Greater	1539	341
O	WV-061-003675-003	AMMONS, DELBERT	Northeast Natural Energy LLC	12.5% or Greater	1539	279
O	WV-061-004928-001	BOYCE, WILLIAME	Northeast Natural Energy LLC	12.5% or Greater	1613	308
O	WV-061-004957-001	WEST, RICHARD E	Northeast Natural Energy LLC	12.5% or Greater	1614	633
O	WV-061-004957-002	JOHNSON, NANCY	Northeast Natural Energy LLC	12.5% or Greater	1618	374
O	WV-061-004957-003	STEWART, STEVEN	Northeast Natural Energy LLC	12.5% or Greater	1649	282
O	WV-061-005131-001	GANTT, LOU	Northeast Natural Energy LLC	12.5% or Greater	1618	759

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
O	WV-061-005222-001	HEDE, STEVE	Northeast Natural Energy LLC	12.5% or Greater	1637	214
O	WV-061-005423-001	HALL, BETTY K	Northeast Natural Energy LLC	12.5% or Greater	1641	356
O	WV-061-005423-002	HALL, MELVIN ET	Northeast Natural Energy LLC	12.5% or Greater	1643	334
O	WV-061-005423-003	SPITZNOGLE, ALI	Northeast Natural Energy LLC	12.5% or Greater	1648	39
O	WV-061-005423-004	HALL, MARY K	Northeast Natural Energy LLC	12.5% or Greater	1652	255

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

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WV Department of
Environmental Protection



February 19, 2020

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

RE: Lemley 1H, 3H, 5H, 7H, 9H

Dear Permit Reviewer:

Please be advised that Northeast Natural Energy LLC has the right to drill, extract and produce the minerals beneath the roads identified as Jakes Run Road (Route 29), Long Drain Road (Route 22), and Loge Tennant Road (CR 20/1).

Sincerely,

A handwritten signature in blue ink, appearing to read 'Charles Dornetto', is written over the word 'Sincerely,'.

Charles Dornetto
Manager – Land Operations

Enclosure

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own an interest in the listed surface tract.

Comment and Waiver Provisions

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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole. *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, Mason Smith, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through 3, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>573975.9</u>
County:	<u>Monongalia</u>	UTM NAD 83 Northing:	<u>4391580.4</u>
District:	<u>Clay</u>	Public Road Access:	<u>County Route 22/Long Drain Road</u>
Quadrangle:	<u>Blacksville</u>	Generally used farm name:	<u>Lemley</u>
Watershed:	<u>Dunkard Creek</u>		

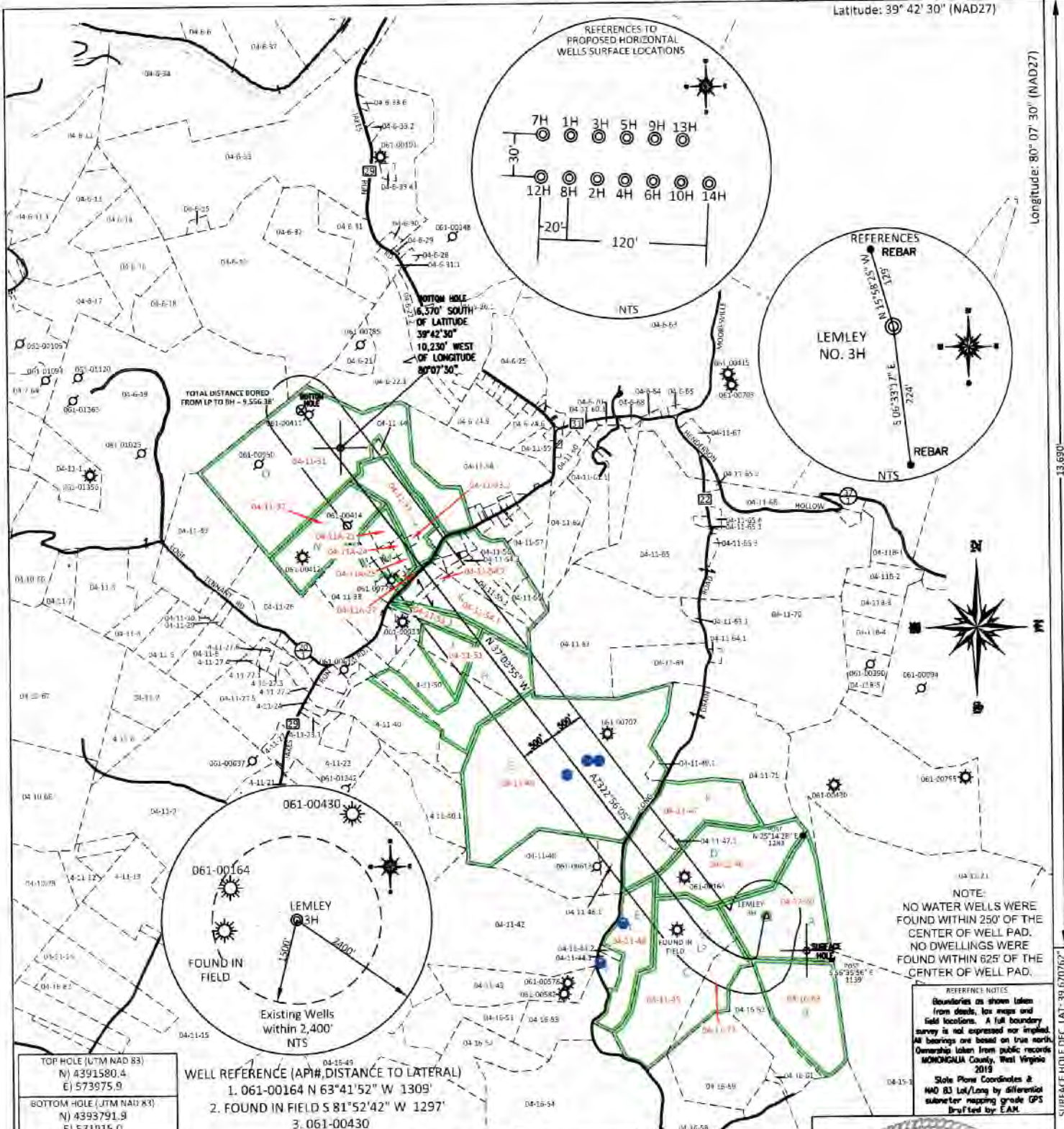
I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input checked="" type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input checked="" type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p>
	<p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: <u>Consolidation Coal Company</u></p> <p>By: <u>Mason Smith</u></p> <p>Its: <u>Coal, Oil & Gas relations manager</u></p> <p>Signature: <u>Mason Smith</u></p> <p>Date: <u>02/24/2020</u></p>

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.

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TOP HOLE (UTM NAD 83)
N) 4391580.4
E) 573975.9

BOTTOM HOLE (UTM NAD 83)
N) 4393791.9
E) 571915.0

WELL REFERENCE (API#, DISTANCE TO LATERAL)

- 061-00164 N 63°41'52" W 1309'
- FOUND IN FIELD S 81°52'42" W 1297'
- 061-00430

NOTE:
NO WATER WELLS WERE FOUND WITHIN 250' OF THE CENTER OF WELL PAD.
NO DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF WELL PAD.

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

FILE #: NEE14


DRAWING #: 2901

SCALE: PLAT: 1" = 2000'
TICK MARK: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: 

L.L.S. #2124 : Ernest J. Benchek III



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

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

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

WATERSHED: DUNKARD CREEK

COUNTY/DISTRICT: MONONGALIA / CLAY

SURFACE OWNER: CLARENCE W. LEMLEY JR. & CHARLOTTE E. LEMLEY

OIL & GAS ROYALTY OWNER: LEROY TENNANT, et al

LEASE NUMBERS: _____

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

TARGET FORMATION: MARCELLUS

WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC

ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200

CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DATE: FEBRUARY 19, 2020

OPERATOR'S WELL #: LEMLEY 3H

API WELL #: 47 61 01842 MOD

STATE COUNTY PERMIT

AS-BUILT
ELEVATION: 1,549.47'

QUADRANGLE: BLACKSVILLE, WV

ACREAGE: 128.58 +/-

ACREAGE: 630.102 +/-

ESTIMATED DEPTH: TVD: 8,206' TMD: 18,366'

DESIGNATED AGENT: JOHN ADAMS

ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200

CITY: CHARLESTON STATE: WV ZIP CODE: 25301

PROPERTY OWNER INDEX	
4-12-20	CLARENCE W. LEMLEY JR. & CHARLOTTE E. LEMLEY
4-16-63	WADE BOWSER
4-11-73	DONALD STULL ET AL
4-11-45	DONALD STULL ET AL
4-11-44	WILLIAM D. STATLER SR.
4-11-46	JAMES ALLEN JR. & CHANDRA DARLENE BENNETT
4-11-47	JAMES ALLEN JR. & CHANDRA DARLENE BENNETT
4-11-49	RONALD W. & PATRICIA A. STATLER
4-11-51	REBECCA J. MOORE (CUTLIP)
4-11-53	VIRGIL S. TENNANT
4-11-54.1	CHISLER BROTHERS CONTRACTING LLC.
4-11-54.2	CHISLER BROTHERS CONTRACTING LLC.
4-11A-27	GARY & FAYE THOMAS
4-11A-25	GARY & FAYE THOMAS
4-11A-24	GARY & FAYE THOMAS
4-11A-21	GARY & FAYE THOMAS
4-11-33.2	CHISLER BROTHERS CONTRACTING LLC.
4-11-33	CHISLER BROTHERS CONTRACTING LLC.
4-11-32	PHYLLIS & NELLIE JOHNSON
4-11-31	PHYLLIS & NELLIE JOHNSON

LEASE INDEX			
A	WV-061-003525-001	I	WV-061-003971-001
B	WV-061-002306-002	J	WV-061-004059-000
C	WV-061-002306-002	K	WV-061-003644-001
D	WV-061-002339-006	L	WV-061-003746-001
E	WV-061-001291-003	M	WV-061-003746-001
F	WV-061-002339-006	N	WV-061-003746-001
G	WV-061-002367-002	O	WV-061-003664-001
H	WV-061-003763-001		

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FEB 26 2020
WV Department of
Environmental Protection

FILE #: NEE14

DRAWING #: 2901

SCALE: N/A

DATE: FEBRUARY 19, 2020

OPERATOR'S WELL #: LEMLEY 3H

API WELL #: 47 61 01842 MoD
STATE COUNTY PERMIT