



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 7H
47-061-01844-00-00

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 7H
Farm Name: CLARENCE W. LEMLEY JR & CHARLOTTE E. LE
U.S. WELL NUMBER: 47-061-01844-00-00
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: 7H Well Pad Name: Lemley

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

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

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

Other _____

(b) If Gas Shallow X Deep _____

Horizontal X

6) Existing Pad: Yes or No No *MGK 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: 17,371'

11) Proposed Horizontal Leg Length: 8,033'

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 X

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

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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	1,290'	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	17,371'	17,341'	4012 cu ft.
Tubing							
Liners							

MGK 2/25/20

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"	.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 5,900 TVD/MD. The well will then be horizontally drilled on synthetic based mud from the KOP to approximately 8,206 TVD/17,371' 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.



NORTHEAST NATURAL ENERGY, LLC

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

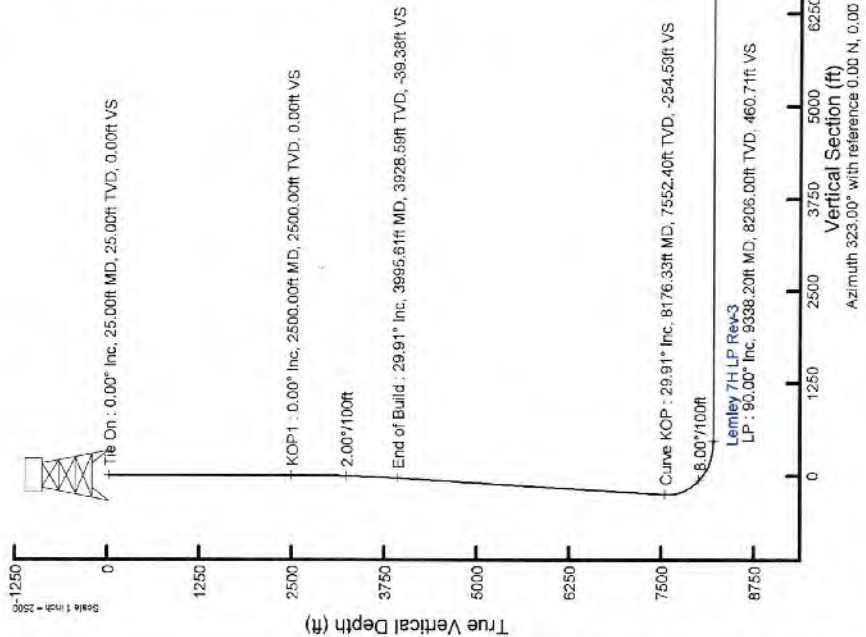
Slot: Slot 7H
 Well: Lemley 7H
 Wellbore: Lemley 7H PWB

Plot reference wellbore is Lemley 7H PWB 84-23
True vertical depths are referenced to Patterson 324 (RWB)
Reference wellbore measured depths are referenced to Patterson 324 (RWB)
Patterson 324 (RWB) to Mean Sea Level: 1358 feet
Mean Sea Level to Ground Level (at Slot Size 7H) = -1534 feet
Other wellbore MDs are referenced to each points data at MD datum
Grid System: NAD83 (1) and UTM Zone 18Q, Northern Zone (EPS), US Feet
North Reference: O.M. north
Scale: True distance
Coordinates are in feet referenced to SICI
Depth are in feet
Created by shirley on 2/20/20 10:16 Database: \\NA_NPL_FACTORY\US_Data



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Casing Depths	
24" Conductor	9-5/8" Intermediate
13-3/8" Surface	1290'
40'	2561'



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

Lemley 7H LP Rev-3
 LP : 8206.00ft TVD, 1333.57ft S, 2635.23ft W
 Curve KOP : 7552.40ft TVD, 1679.69ft S, 1806.08ft W
 End of Build : 3928.59ft TVD, 259.89ft S, 279.44ft W
 KOP1 : 2500.00ft TVD, 0.00ft N, 0.00ft E
 Tile On : 25.00ft TVD, 0.00ft N, 0.00ft E

Lemley 7H BHL Rev-4
 End of Tangent : 90.00° Inc, 17371.75ft MD, 8206.00ft TVD, 8494.26ft VS

Lemley 7H LP Rev-3
 LP : 90.00° Inc, 8388.20ft MD, 8206.00ft TVD, 460.71ft VS
 Curve KOP : 29.91° Inc, 8176.33ft MD, 7552.40ft TVD, -254.53ft VS
 End of Build : 29.91° Inc, 3995.61ft MD, 3928.59ft TVD, -39.38ft VS
 KOP1 : 0.00° Inc, 2500.00ft MD, 2500.00ft TVD, 0.00ft VS
 Tile On : 0.00° Inc, 25.00ft MD, 25.00ft TVD, 0.00ft VS

Scale 1 inch = 200'

Scale 1 inch = 200'

**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-061-001291-018	BANE, JANET S.	Northeast Natural Energy LLC	12.5% or Greater	1507	244
B	WV-061-001291-020	VARNER, MARTIN	Northeast Natural Energy LLC	12.5% or Greater	1614	605
B	WV-061-001291-021	KING, RONALD ET	Northeast Natural Energy LLC	12.5% or Greater	1634	483
B	WV-061-001291-022	TENNANT, HARRY	Northeast Natural Energy LLC	12.5% or Greater	1633	336
B	WV-061-003682-001	ASHCRAFT, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1547	801
B	WV-061-003682-002	ASHCRAFT, RICKY	Northeast Natural Energy LLC	12.5% or Greater	1548	262
B	WV-061-003682-003	CRANE, SHIRLEY	Northeast Natural Energy LLC	12.5% or Greater	1545	778
B	WV-061-003682-004	ASHCRAFT, DUSTI	Northeast Natural Energy LLC	12.5% or Greater	1548	258
B	WV-061-003682-005	ASHCRAFT, DAYTO	Northeast Natural Energy LLC	12.5% or Greater	1545	782
B	WV-061-003682-006	ASHCRAFT, JOHN	Northeast Natural Energy LLC	12.5% or Greater	1545	328
B	WV-061-003682-007	ASHCRAFT, CHARL	Northeast Natural Energy LLC	12.5% or Greater	1550	367
B	WV-061-004270-001	WILLIAMS, LORET	Northeast Natural Energy LLC	12.5% or Greater	1571	535
B	WV-061-004317-001	KETCHEM, JOYCE	Northeast Natural Energy LLC	12.5% or Greater	1576	347
B	WV-061-004317-002	WILSON, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1640	371
B	WV-061-004317-003	TENNANT, BRENDA	Northeast Natural Energy LLC	12.5% or Greater	1640	373
B	WV-061-004317-004	ARNETT, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1640	375
B	WV-061-004317-005	STULL, DONALD L	Northeast Natural Energy LLC	12.5% or Greater	1641	346
B	WV-061-004317-006	BROOKOVER, ROBE	Northeast Natural Energy LLC	12.5% or Greater	1643	413
B	WV-061-004317-007	STATLER, RONALD	Northeast Natural Energy LLC	12.5% or Greater	1643	416
B	WV-061-004317-008	STATLER, NELSON	Northeast Natural Energy LLC	12.5% or Greater	1643	418
B	WV-061-004317-009	STATLER, JOSEPH	Northeast Natural Energy LLC	12.5% or Greater	1643	420
B	WV-061-004317-010	CHISLER FAMILY	Northeast Natural Energy LLC	12.5% or Greater	1643	422
B	WV-061-004317-011	STATLER, GARY A	Northeast Natural Energy LLC	12.5% or Greater	1643	424
B	WV-061-004317-012	MORRIS, LINDA S	Northeast Natural Energy LLC	12.5% or Greater	1643	519
B	WV-061-004317-013	KING, SHARON	Northeast Natural Energy LLC	12.5% or Greater	1643	442
B	WV-061-004317-014	LOUGHRY, DONNA	Northeast Natural Energy LLC	12.5% or Greater	1643	98
C	WV-061-003947-001	SHUMAN, INC	Northeast Natural Energy LLC	12.5% or Greater	1566	83
D	WV-061-004475-001	TENNANT, HARRY	Northeast Natural Energy LLC	12.5% or Greater	1586	510
D	WV-061-003914-001	MORRIS, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1566	15
D	WV-061-003914-002	KING, SHARON	Northeast Natural Energy LLC	12.5% or Greater	1570	472
D	WV-061-003914-003	STATLER, NELSON	Northeast Natural Energy LLC	12.5% or Greater	1564	431
D	WV-061-003914-004	STATLER, RONALD	Northeast Natural Energy LLC	12.5% or Greater	1565	533
D	WV-061-003914-005	CHISLER, SANDRA	Northeast Natural Energy LLC	12.5% or Greater	1570	470
D	WV-061-003914-006	STATLER, GARY A	Northeast Natural Energy LLC	12.5% or Greater	1564	429
D	WV-061-003914-007	BROOKOVER, ROBE	Northeast Natural Energy LLC	12.5% or Greater	1564	427
D	WV-061-003914-008	STATLER, JOSEPH	Northeast Natural Energy LLC	12.5% or Greater	1564	414
D	WV-061-003914-009	ARNETT, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1564	457
D	WV-061-003914-010	WILSON FAMILY I	Northeast Natural Energy LLC	12.5% or Greater	1564	461
D	WV-061-003914-011	TENNANT FAMILY	Northeast Natural Energy LLC	12.5% or Greater	1564	459
D	WV-061-004689-001	BOYCE, BEVERLY	Northeast Natural Energy LLC	12.5% or Greater	1607	426
D	WV-061-004689-002	STATLER, KIMBEL	Northeast Natural Energy LLC	12.5% or Greater	1614	615
D	WV-061-004689-003	STATLER, DEBORA	Northeast Natural Energy LLC	12.5% or Greater	1607	428
D	WV-061-004689-004	ASH, SUSAN	Northeast Natural Energy LLC	12.5% or Greater	1606	66
E	WV-061-001139-001	WRIGHT, EMILY	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1360	280
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
F	WV-061-002269-001	WRIGHT, KENNETH	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1400	506
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
F	WV-061-002269-002	CODY, DOROTHY C	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1399	771

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		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
F	WV-061-002269-003	SMYRES, ETHEL	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1399	774
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
F	WV-061-002269-004	MYERS, JUNE C.	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1399	777
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
F	WV-061-002269-005	LONDOT, WILMA	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1399	780
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
F	WV-061-002269-006	WRIGHT, WILLIS	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1400	509
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
F	WV-061-002269-007	DUNLAP, DOROTHY	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1401	153
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
F	WV-061-002269-008	ADAMS, BETTY	Northeast Natural Energy LLC	12.5% or Greater	1539	220
F	WV-061-002269-011	LIPP, KENDALL J	Northeast Natural Energy LLC	12.5% or Greater	1538	330
F	WV-061-002269-013	MARPLE, STEPHEN	Northeast Natural Energy LLC	12.5% or Greater	1539	66
F	WV-061-002269-025	RANSDALL, CECIL	Northeast Natural Energy LLC	12.5% or Greater	1551	174
F	WV-061-002269-029	CRYDER, MARGARE	Northeast Natural Energy LLC	12.5% or Greater	1551	95
F	WV-061-002269-030	VAUGHAN, JACQUE	Northeast Natural Energy LLC	12.5% or Greater	1564	158
F	WV-061-002269-031	MAUK, ELIZABETH	Northeast Natural Energy LLC	12.5% or Greater	1558	833
F	WV-061-002269-032	JONES, EMILY E.	Northeast Natural Energy LLC	12.5% or Greater	1552	426
F	WV-061-002269-033	STOUT, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1558	831
F	WV-061-002269-034	JOHNSON, GRACE	Northeast Natural Energy LLC	12.5% or Greater	1567	258
F	WV-061-002269-035	PITTMAN, NAOMI	Northeast Natural Energy LLC	12.5% or Greater	1566	116
F	WV-061-002269-037	CARLTON, MARY L	Northeast Natural Energy LLC	12.5% or Greater	1549	629
F	WV-061-002269-038	ZAHNLE, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1559	141
F	WV-061-002269-040	EASTON, LEE ANN	Northeast Natural Energy LLC	12.5% or Greater	1559	143
F	WV-061-002269-041	MILLER, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1558	835
F	WV-061-002269-042	HOLLAND, BETTY	Northeast Natural Energy LLC	12.5% or Greater	1559	150
F	WV-061-002269-043	COOPER, CARLEEN	Northeast Natural Energy LLC	12.5% or Greater	1559	305
F	WV-061-002269-047	HILL, ICIE M	Northeast Natural Energy LLC	12.5% or Greater	1568	577
F	WV-061-002269-048	MUMMERT, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1564	817
F	WV-061-002269-049	GERBER, FRED W.	Northeast Natural Energy LLC	12.5% or Greater	1565	461
F	WV-061-002269-050	FISCHER, KAREN	Northeast Natural Energy LLC	12.5% or Greater	1564	821
F	WV-061-002269-051	RANSDALL, WARD	Northeast Natural Energy LLC	12.5% or Greater	1564	823
F	WV-061-002269-052	RANSDALL, DWIGH	Northeast Natural Energy LLC	12.5% or Greater	1564	825
F	WV-061-002269-053	RANSDALL, REBEC	Northeast Natural Energy LLC	12.5% or Greater	1564	827
F	WV-061-002269-054	CONLEY, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1565	134
F	WV-061-002269-055	JONES, MARGARET	Northeast Natural Energy LLC	12.5% or Greater	1566	136
F	WV-061-002269-056	COLE, WALTER WI	Northeast Natural Energy LLC	12.5% or Greater	1566	410
F	WV-061-002269-058	HAHN, FRANK	Northeast Natural Energy LLC	12.5% or Greater	1564	819
F	WV-061-002269-059	GUMM, JANE	Northeast Natural Energy LLC	12.5% or Greater	1566	517
F	WV-061-002269-060	MARPLE, JEFFRY	Northeast Natural Energy LLC	12.5% or Greater	1565	548
F	WV-061-002269-061	HOLLAND, ROY C.	Northeast Natural Energy LLC	12.5% or Greater	1566	403
F	WV-061-002269-062	TERRY, SHARON L	Northeast Natural Energy LLC	12.5% or Greater	1572	639
F	WV-061-002269-065	PERKINS, ANN-MA	Northeast Natural Energy LLC	12.5% or Greater	1564	835
F	WV-061-002269-066	SCHOOLER, MARY	Northeast Natural Energy LLC	12.5% or Greater	1564	833
F	WV-061-002269-069	BONDI, DEBORAH	Northeast Natural Energy LLC	12.5% or Greater	1606	9
F	WV-061-002269-070	RANSDALL, JOHN	Northeast Natural Energy LLC	12.5% or Greater	1606	11
F	WV-061-002269-071	ORKILD, DONNA J	Northeast Natural Energy LLC	12.5% or Greater	1606	13
F	WV-061-002269-073	KLINGER, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1605	587
F	WV-061-002269-074	DEAL, WILLIAM F	Northeast Natural Energy LLC	12.5% or Greater	1605	589
F	WV-061-002269-075	ABUNDEZ, LORI A	Northeast Natural Energy LLC	12.5% or Greater	1609	5
F	WV-061-002269-076	SUGIMOTO, ADRIE	Northeast Natural Energy LLC	12.5% or Greater	1613	325
F	WV-061-002269-077	DEAL, MICHAEL B	Northeast Natural Energy LLC	12.5% or Greater	1613	327
F	WV-061-002269-078	RANSDALL, JEFFR	Northeast Natural Energy LLC	12.5% or Greater	1614	607
F	WV-061-002269-079	HERRERA, DORINA	Northeast Natural Energy LLC	12.5% or Greater	1611	367
F	WV-061-002269-082	CUNNINGHAM, MAR	Northeast Natural Energy LLC	12.5% or Greater	1612	427
F	WV-061-002269-083	LARKIN, DEANNA	Northeast Natural Energy LLC	12.5% or Greater	1612	429
F	WV-061-002269-089	DIAMOND, SHYLA	Northeast Natural Energy LLC	12.5% or Greater	1643	143
F	WV-061-002269-090	WELLS FARGO NA	Northeast Natural Energy LLC	12.5% or Greater	133	1
F	WV-061-002269-091	LIPP, KARYL A	Northeast Natural Energy LLC	12.5% or Greater	133	5
F	WV-061-003983-001	HAPPY ENDINGS LLC	Northeast Natural Energy LLC	12.5% or Greater	1564	467
G	WV-061-002265-001	WRIGHT, KENNETH	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1400	500
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
G	WV-061-002265-002	CODY, DOROTHY C	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1399	745
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
G	WV-061-002265-003	MYERS, JUNE C.	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1399	768
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
G	WV-061-002265-004	WRIGHT, WILLIS	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1400	503
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
G	WV-061-002265-005	CRYDER, MARGARE	Northeast Natural Energy LLC	12.5% or Greater	1566	717
G	WV-061-002265-007	EASTON, LEA ANN	Northeast Natural Energy LLC	12.5% or Greater	1566	49
G	WV-061-002265-009	LONDOT, WILMA I	Northeast Natural Energy LLC	12.5% or Greater	1567	262
G	WV-061-002265-011	DUNLAP, FRANK H	Northeast Natural Energy LLC	12.5% or Greater	1566	41

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
G	WV-061-002265-014	SHUMAN, INC.	Northeast Natural Energy LLC	12.5% or Greater	1564	394
G	WV-061-003983-001	HAPPY ENDINGS LLC	Northeast Natural Energy LLC	12.5% or Greater	1564	467
H	WV-061-004130-001	WEST VIRGINIA U	Northeast Natural Energy LLC	12.5% or Greater	1565	526
H	WV-061-004130-002	STATLER, MARY E	Northeast Natural Energy LLC	12.5% or Greater	1567	256
H	WV-061-004130-003	NOAH, BEVERLY S	Northeast Natural Energy LLC	12.5% or Greater	1568	297
H	WV-061-004130-004	STATLER, BARRY	Northeast Natural Energy LLC	12.5% or Greater	1568	299
H	WV-061-004130-005	STATLER, BENJAM	Northeast Natural Energy LLC	12.5% or Greater	1571	645
H	WV-061-004130-006	STATLER, DANIEL	Northeast Natural Energy LLC	12.5% or Greater	1589	224
H	WV-061-004130-007	STATLER, LARRY	Northeast Natural Energy LLC	12.5% or Greater	1612	27
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-061-002367-002	JONES, ROBERT H	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1404	474
J	WV-061-002367-002	Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC	12.5% or Greater	120	769
J	WV-061-002367-004	TRADER, FLORENC	Northeast Natural Energy LLC	12.5% or Greater	1510	68
J	WV-061-002367-005	TENNANT, ARIETT	Northeast Natural Energy LLC	12.5% or Greater	1511	554
J	WV-061-002367-006	STATLER, GARY D	Northeast Natural Energy LLC	12.5% or Greater	1576	640
J	WV-061-002367-007	STATLER, RONALD	Northeast Natural Energy LLC	12.5% or Greater	1512	535
J	WV-061-002367-008	ANASTASIADIS, M	Northeast Natural Energy LLC	12.5% or Greater	1516	156
J	WV-061-002367-009	HENDERSON, WAYN	Northeast Natural Energy LLC	12.5% or Greater	1512	691
J	WV-061-002367-010	ZUCHINSKI, NORM	Northeast Natural Energy LLC	12.5% or Greater	1516	162
J	WV-061-002367-011	DEVINE, JOHN N	Northeast Natural Energy LLC	12.5% or Greater	1517	129
J	WV-061-002367-012	TENNANT, SHEILA	Northeast Natural Energy LLC	12.5% or Greater	1517	123
J	WV-061-002367-013	ARNETT, PAMELA	Northeast Natural Energy LLC	12.5% or Greater	1516	152
J	WV-061-002367-014	SHRIVER, JODIE	Northeast Natural Energy LLC	12.5% or Greater	1517	133
J	WV-061-002367-015	BERRY, PRUDENCE	Northeast Natural Energy LLC	12.5% or Greater	1517	117
J	WV-061-002367-016	O'LEARY, JESSIC	Northeast Natural Energy LLC	12.5% or Greater	1517	32
J	WV-061-002367-017	VARNER, DONNA	Northeast Natural Energy LLC	12.5% or Greater	1517	107
J	WV-061-002367-018	POLING, LOUISE	Northeast Natural Energy LLC	12.5% or Greater	1590	131
J	WV-061-002367-019	JOHNSON, LUCILL	Northeast Natural Energy LLC	12.5% or Greater	1518	1
J	WV-061-002367-020	FREEMAN, BRENDA	Northeast Natural Energy LLC	12.5% or Greater	1520	322
J	WV-061-002367-021	KOVALSKY, SHIRL	Northeast Natural Energy LLC	12.5% or Greater	1520	328
J	WV-061-002367-022	KENYON, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1517	808
J	WV-061-002367-023	HENDERSON, JERR	Northeast Natural Energy LLC	12.5% or Greater	1517	849
J	WV-061-002367-024	MCCORD, RONNIE	Northeast Natural Energy LLC	12.5% or Greater	1523	443
J	WV-061-002367-025	HOWARD, WILLA	Northeast Natural Energy LLC	12.5% or Greater	1523	799
J	WV-061-002367-026	MCCORD, LAWRENC	Northeast Natural Energy LLC	12.5% or Greater	1524	325
J	WV-061-002367-032	CORDER, DENNY R	Northeast Natural Energy LLC	12.5% or Greater	1532	711
J	WV-061-002367-033	TENNANT, CHARLE	Northeast Natural Energy LLC	12.5% or Greater	1532	568
J	WV-061-002367-036	CORDER, DANNY O	Northeast Natural Energy LLC	12.5% or Greater	1531	86
J	WV-061-002367-037	CORDER, DARRELL	Northeast Natural Energy LLC	12.5% or Greater	1533	113
J	WV-061-002367-039	MYERS, DEBORAH	Northeast Natural Energy LLC	12.5% or Greater	1535	97
J	WV-061-002367-040	STATLER, CLAREN	Northeast Natural Energy LLC	12.5% or Greater	1535	118
J	WV-061-002367-041	CLEVINGER, DOUG	Northeast Natural Energy LLC	12.5% or Greater	1538	262
J	WV-061-002367-042	SCHIMMEL, JACQU	Northeast Natural Energy LLC	12.5% or Greater	1535	708
J	WV-061-002367-043	EISEMAN, JILL	Northeast Natural Energy LLC	12.5% or Greater	1535	631
J	WV-061-002367-044	EDDY, KENNETH	Northeast Natural Energy LLC	12.5% or Greater	1538	441
J	WV-061-002367-045	EDDY, KYLE	Northeast Natural Energy LLC	12.5% or Greater	1538	288
J	WV-061-002367-046	CLEVINGER, LUCA	Northeast Natural Energy LLC	12.5% or Greater	1539	524
J	WV-061-002367-047	FORTUNE DEVELOP	Northeast Natural Energy LLC	12.5% or Greater	1561	305
J	WV-061-002367-048	HENDERSON, NELS	Northeast Natural Energy LLC	12.5% or Greater	1545	348
J	WV-061-002367-049	LORING, HOWARD	Northeast Natural Energy LLC	12.5% or Greater	1545	338
J	WV-061-002367-050	LEWIS, RACHEL	Northeast Natural Energy LLC	12.5% or Greater	1566	683
J	WV-061-002367-051	BRYAN, DIANA L	Northeast Natural Energy LLC	12.5% or Greater	1545	346
J	WV-061-002367-052	JACKSON, ALMA	Northeast Natural Energy LLC	12.5% or Greater	1541	822
J	WV-061-002367-053	WALLS, DEVON	Northeast Natural Energy LLC	12.5% or Greater	1564	337
J	WV-061-002367-054	MARIETTA, ANGEL	Northeast Natural Energy LLC	12.5% or Greater	1566	685
J	WV-061-002367-055	CARR, NANCY P.	Northeast Natural Energy LLC	12.5% or Greater	1545	472
J	WV-061-002367-056	CARR, TRAVIS S	Northeast Natural Energy LLC	12.5% or Greater	1547	844
J	WV-061-002367-057	JUDGE, TIFFANY	Northeast Natural Energy LLC	12.5% or Greater	1545	794
J	WV-061-002367-058	RUSH, RICHARD W	Northeast Natural Energy LLC	12.5% or Greater	1545	786
J	WV-061-002367-059	MOORE, AMBER G.	Northeast Natural Energy LLC	12.5% or Greater	1545	796
J	WV-061-002367-060	MCCARTNEY, ANNA	Northeast Natural Energy LLC	12.5% or Greater	1564	386
J	WV-061-002367-061	VOITHOFER, PAUL	Northeast Natural Energy LLC	12.5% or Greater	1551	103
J	WV-061-002367-062	WHITE, LINDA LO	Northeast Natural Energy LLC	12.5% or Greater	1551	97
J	WV-061-002367-063	WALLS, DENZIL M	Northeast Natural Energy LLC	12.5% or Greater	1566	71
J	WV-061-002367-064	WALLS, DONZEL B	Northeast Natural Energy LLC	12.5% or Greater	1566	73
J	WV-061-002367-065	BENSON, CHRISTI	Northeast Natural Energy LLC	12.5% or Greater	1566	81
J	WV-061-002367-066	MCMAHON, MARGIE	Northeast Natural Energy LLC	12.5% or Greater	1566	63
J	WV-061-002367-067	WALLS, DANIEL E	Northeast Natural Energy LLC	12.5% or Greater	1566	35
J	WV-061-002367-068	WALLS, DELMER J	Northeast Natural Energy LLC	12.5% or Greater	1566	17
J	WV-061-002367-069	MYERS, DAVID B	Northeast Natural Energy LLC	12.5% or Greater	1565	645
J	WV-061-002367-070	WALLS, ELIZABET	Northeast Natural Energy LLC	12.5% or Greater	1566	65

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
J	WV-061-002367-071	WALLS, TABITHA	Northeast Natural Energy LLC	12.5% or Greater	1565	278
J	WV-061-002367-072	MOORE, LINDA A.	Northeast Natural Energy LLC	12.5% or Greater	1588	357
J	WV-061-002367-073	HUPP, SARA S	Northeast Natural Energy LLC	12.5% or Greater	1647	21
J	WV-061-002367-074	HUPP, MOLLY H	Northeast Natural Energy LLC	12.5% or Greater	1647	442
J	WV-061-002367-075	STATLER, ROB ET	Northeast Natural Energy LLC	12.5% or Greater	1650	72
J	WV-061-002367-076	SCHEINHOLTZ, DA	Northeast Natural Energy LLC	12.5% or Greater	1650	74
J	WV-061-004461-001	HOVATTER, DENNI	Northeast Natural Energy LLC	12.5% or Greater	1586	444
J	WV-061-004461-002	WEST VIRGINIA U	Northeast Natural Energy LLC	12.5% or Greater	1586	556
J	WV-061-004461-003	KENYON, BARB ET	Northeast Natural Energy LLC	12.5% or Greater	1588	842
J	WV-061-004461-004	HENDERSON, ALLE	Northeast Natural Energy LLC	12.5% or Greater	1588	845
J	WV-061-004461-005	HENDERSON, JERR	Northeast Natural Energy LLC	12.5% or Greater	1588	848
J	WV-061-004461-006	FLETCHER, PATRI	Northeast Natural Energy LLC	12.5% or Greater	1589	9
J	WV-061-004461-007	SCHLEGEL, BONNI	Northeast Natural Energy LLC	12.5% or Greater	1589	12
J	WV-061-004461-008	ZICKEFOOSE, EDN	Northeast Natural Energy LLC	12.5% or Greater	1589	15
J	WV-061-004461-009	KOVALSKY, SHIRL	Northeast Natural Energy LLC	12.5% or Greater	1589	18
J	WV-061-004461-010	FRYE, CATHY	Northeast Natural Energy LLC	12.5% or Greater	1589	21
J	WV-061-004461-011	SWENK, SALLY JO	Northeast Natural Energy LLC	12.5% or Greater	1605	102
J	WV-061-004461-012	SCHULTZ, GEORGE	Northeast Natural Energy LLC	12.5% or Greater	1605	105
J	WV-061-004461-013	RICKS, MARY E	Northeast Natural Energy LLC	12.5% or Greater	1606	649
J	WV-061-004461-014	LEKSELL, DEBORA	Northeast Natural Energy LLC	12.5% or Greater	1610	468
J	WV-061-004461-015	SCHULTZ, JEFFRE	Northeast Natural Energy LLC	12.5% or Greater	1606	653
J	WV-061-004461-016	WREN, SUZANNE	Northeast Natural Energy LLC	12.5% or Greater	1606	656
J	WV-061-004461-017	WELLS, STACEY	Northeast Natural Energy LLC	12.5% or Greater	1606	669
J	WV-061-004461-018	WELLS, ROBERT S	Northeast Natural Energy LLC	12.5% or Greater	1606	672
J	WV-061-004461-020	BREWER, PATRICI	Northeast Natural Energy LLC	12.5% or Greater	1617	776
J	WV-061-004461-021	LEWIS, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1617	799
J	WV-061-004461-022	LASKODY, PAMELA	Northeast Natural Energy LLC	12.5% or Greater	1617	801
J	WV-061-004461-023	SCHEUCH, JENNIF	Northeast Natural Energy LLC	12.5% or Greater	1617	803
J	WV-061-004461-024	STATLER, GREGOR	Northeast Natural Energy LLC	12.5% or Greater	1620	429
J	WV-061-004461-025	STATLER, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1620	431
J	WV-061-004461-026	STATLER, MICHEL	Northeast Natural Energy LLC	12.5% or Greater	1620	433
J	WV-061-004461-027	STATLER, RON ET	Northeast Natural Energy LLC	12.5% or Greater	1620	435
J	WV-061-004461-028	STATLER, MARY L	Northeast Natural Energy LLC	12.5% or Greater	1630	257
J	WV-061-004461-029	HOVATTER, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1638	259
J	WV-061-004461-030	STATLER, KENNET	Northeast Natural Energy LLC	12.5% or Greater	1636	281
J	WV-061-004461-031	MORRIS, GENEVIE	Northeast Natural Energy LLC	12.5% or Greater	1643	533
J	WV-061-004461-032	SMITH, KATHLEEN	Northeast Natural Energy LLC	12.5% or Greater	1637	827
J	WV-061-004461-033	MCCONAHAY, KEIT	Northeast Natural Energy LLC	12.5% or Greater	1637	829
J	WV-061-004461-034	HOPPER, DANIELL	Northeast Natural Energy LLC	12.5% or Greater	1637	831
J	WV-061-004461-035	SAYLOR, DEBORA	Northeast Natural Energy LLC	12.5% or Greater	1637	833
J	WV-061-004461-036	PATTERSON, T ET	Northeast Natural Energy LLC	12.5% or Greater	1643	726
J	WV-061-004461-037	CURTIS, MARY	Northeast Natural Energy LLC	12.5% or Greater	1641	847
J	WV-061-004461-038	FLUHARTY, DIANN	Northeast Natural Energy LLC	12.5% or Greater	1638	524
J	WV-061-004461-039	REDMAN, MARY E	Northeast Natural Energy LLC	12.5% or Greater	1638	512
J	WV-061-004461-040	STATLER, RICHA	Northeast Natural Energy LLC	12.5% or Greater	1640	581
J	WV-061-004461-041	STATLER, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1641	350
J	WV-061-004461-042	WALTERS, MARY	Northeast Natural Energy LLC	12.5% or Greater	1641	352
J	WV-061-004461-043	LORD, LISA ETV	Northeast Natural Energy LLC	12.5% or Greater	1642	368
J	WV-061-004461-044	SHAHAN, MICHAEL	Northeast Natural Energy LLC	12.5% or Greater	1642	370
J	WV-061-004461-045	PRICHARD, JOHN	Northeast Natural Energy LLC	12.5% or Greater	1643	535
J	WV-061-004461-046	WARMAN, SHIRLEY	Northeast Natural Energy LLC	12.5% or Greater	1643	447
J	WV-061-004461-047	MOONEY, NORMA E	Northeast Natural Energy LLC	12.5% or Greater	1643	449
J	WV-061-004461-048	WARMAN, WILLIAM	Northeast Natural Energy LLC	12.5% or Greater	1643	451
J	WV-061-004461-049	PRICHARD TRUST	Northeast Natural Energy LLC	12.5% or Greater	1643	100
J	WV-061-004461-050	KERNS, LINDA S	Northeast Natural Energy LLC	12.5% or Greater	1643	10
J	WV-061-004461-051	RUSSELL, REBECC	Northeast Natural Energy LLC	12.5% or Greater	1649	760
J	WV-061-004461-052	PAULY, PAULA ET	Northeast Natural Energy LLC	12.5% or Greater	1647	427
J	WV-061-004461-053	STATLER, HELEN	Northeast Natural Energy LLC	12.5% or Greater	1647	607
J	WV-061-004461-054	KELLEY, NANCY A	Northeast Natural Energy LLC	12.5% or Greater	1647	609
J	WV-061-004461-055	BRAND, HAZEL K	Northeast Natural Energy LLC	12.5% or Greater	1647	611
J	WV-061-004461-056	LEWIS, LORETTA	Northeast Natural Energy LLC	12.5% or Greater	1647	613
J	WV-061-004461-057	LEWIS, LISA K.	Northeast Natural Energy LLC	12.5% or Greater	1647	615
J	WV-061-004461-058	LEWIS, LENA F.	Northeast Natural Energy LLC	12.5% or Greater	1647	617
J	WV-061-004461-059	PHILLIPS, R ET	Northeast Natural Energy LLC	12.5% or Greater	1647	619
J	WV-061-004461-060	HOVATTER, SHARO	Northeast Natural Energy LLC	12.5% or Greater	1649	165
J	WV-061-004461-061	EVANS, PAMELA K	Northeast Natural Energy LLC	12.5% or Greater	1647	765
J	WV-061-004461-062	STATLER, PATRIC	Northeast Natural Energy LLC	12.5% or Greater	1648	237
J	WV-061-004461-063	STATLER, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1648	239
J	WV-061-004461-064	MOREHEAD, LAURA	Northeast Natural Energy LLC	12.5% or Greater	1650	171
J	WV-061-004461-065	CZAKO, LENORA A	Northeast Natural Energy LLC	12.5% or Greater	1650	173
J	WV-061-004461-066	FOLKENS, DOUGLA	Northeast Natural Energy LLC	12.5% or Greater	1650	175
J	WV-061-004461-067	WILLIS, ROLLEY	Northeast Natural Energy LLC	12.5% or Greater	1651	139
J	WV-061-004461-068	MORRIS, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1650	179

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J	WV-061-004461-069	VIETS, ELLEN C	Northeast Natural Energy LLC	12.5% or Greater	1650	181
J	WV-061-004461-070	VIETS, LLOYD O	Northeast Natural Energy LLC	12.5% or Greater	1650	183
J	WV-061-004461-071	DURBIN, WILDA J	Northeast Natural Energy LLC	12.5% or Greater	1653	171
J	WV-061-004461-072	MILLER, WILMA J	Northeast Natural Energy LLC	12.5% or Greater	1654	329
J	WV-061-004461-073	MAIN, GEORGE M	Northeast Natural Energy LLC	12.5% or Greater	1653	173
J	WV-061-004461-074	ZAPPI, ALICE M	Northeast Natural Energy LLC	12.5% or Greater	1653	175
J	WV-061-004461-075	BELL, BARBARA A	Northeast Natural Energy LLC	12.5% or Greater	1653	177
J	WV-061-004461-076	TEASDALE, KYLE	Northeast Natural Energy LLC	12.5% or Greater	1653	559
J	WV-061-004461-077	TEASDALE, DANYA	Northeast Natural Energy LLC	12.5% or Greater	1653	561
J	WV-061-004461-078	MAIN, KEANITH P	Northeast Natural Energy LLC	12.5% or Greater	1653	563
J	WV-061-004461-079	BRIGGS, HARRIET	Northeast Natural Energy LLC	12.5% or Greater	1654	331
J	WV-061-004461-080	EASTHAM, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1655	607
J	WV-061-004461-081	KELLEY, PAUL R.	Northeast Natural Energy LLC	12.5% or Greater	1655	609
J	WV-061-004535-001	HALL, CHERYL L	Northeast Natural Energy LLC	12.5% or Greater	1591	509
J	WV-061-004535-002	HALL, LUCINDA	Northeast Natural Energy LLC	12.5% or Greater	1591	520
J	WV-061-004535-003	HALL, TAMARA L	Northeast Natural Energy LLC	12.5% or Greater	1591	513
K	WV-061-000126-001-LA	XTO ENERGY INC	Northeast Natural Energy LLC	12.5% or Greater	1659	451
L	WV-061-004116-002	SPONAUGLE, SUSAN	Northeast Natural Energy LLC	12.5% or Greater	1560	53
L	WV-061-004116-003	TENNANT, BRUCE	Northeast Natural Energy LLC	12.5% or Greater	1566	55
L	WV-061-004116-004	REED, LINCOLN J	Northeast Natural Energy LLC	12.5% or Greater	1565	535
L	WV-061-004116-005	TENNANT, JARRET	Northeast Natural Energy LLC	12.5% or Greater	1566	407
L	WV-061-004116-006	TENNANT, ARTHUR	Northeast Natural Energy LLC	12.5% or Greater	1566	712
L	WV-061-004116-007	RODRIGUEZ, CAST	Northeast Natural Energy LLC	12.5% or Greater	1566	43
L	WV-061-004116-008	NOBBS, LINDA LE	Northeast Natural Energy LLC	12.5% or Greater	1565	532
L	WV-061-004116-009	OOLMAN, ARLENE	Northeast Natural Energy LLC	12.5% or Greater	1566	397
L	WV-061-004116-010	GRIDER, JOHNNIE	Northeast Natural Energy LLC	12.5% or Greater	1562	219
L	WV-061-004116-011	WRIGHT, GARY S	Northeast Natural Energy LLC	12.5% or Greater	1566	442
L	WV-061-004116-012	HARKLERODE, RON	Northeast Natural Energy LLC	12.5% or Greater	1566	399
L	WV-061-004116-013	BERENSON, MARA	Northeast Natural Energy LLC	12.5% or Greater	1566	401
L	WV-061-004116-014	FERGUSON, ASHLE	Northeast Natural Energy LLC	12.5% or Greater	1566	51
L	WV-061-004116-016	TENNANT, PEGGY	Northeast Natural Energy LLC	12.5% or Greater	1566	412
L	WV-061-004116-017	CROOK, SR., ROGE	Northeast Natural Energy LLC	12.5% or Greater	1565	546
L	WV-061-004116-018	ASHLEY, GEORGE	Northeast Natural Energy LLC	12.5% or Greater	1565	540
L	WV-061-004116-019	TREADWAY, VANES	Northeast Natural Energy LLC	12.5% or Greater	1565	544
L	WV-061-004116-021	JACKSON, MARY A	Northeast Natural Energy LLC	12.5% or Greater	1565	542
L	WV-061-004116-022	BRUNO, ANTHONY	Northeast Natural Energy LLC	12.5% or Greater	1565	530
L	WV-061-004116-023	CROOK, JOHN E.	Northeast Natural Energy LLC	12.5% or Greater	1567	250
L	WV-061-004116-026	MULHERN, NANCY	Northeast Natural Energy LLC	12.5% or Greater	1566	430
L	WV-061-004116-029	BUESING, TAMARA	Northeast Natural Energy LLC	12.5% or Greater	1567	252
L	WV-061-004116-030	WRIGHT, KIMBERL	Northeast Natural Energy LLC	12.5% or Greater	1567	254
L	WV-061-004116-031	WRIGHT, GREGORY	Northeast Natural Energy LLC	12.5% or Greater	1570	468
L	WV-061-004116-032	CURLY, E. RAY	Northeast Natural Energy LLC	12.5% or Greater	1568	501
L	WV-061-004116-034	TENNANT, JACOB	Northeast Natural Energy LLC	12.5% or Greater	1568	438
L	WV-061-004116-036	HOOPER, MARGARE	Northeast Natural Energy LLC	12.5% or Greater	1571	639
L	WV-061-004116-037	WRIGHT, MICHAEL	Northeast Natural Energy LLC	12.5% or Greater	1571	641

FEB 28 2010



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

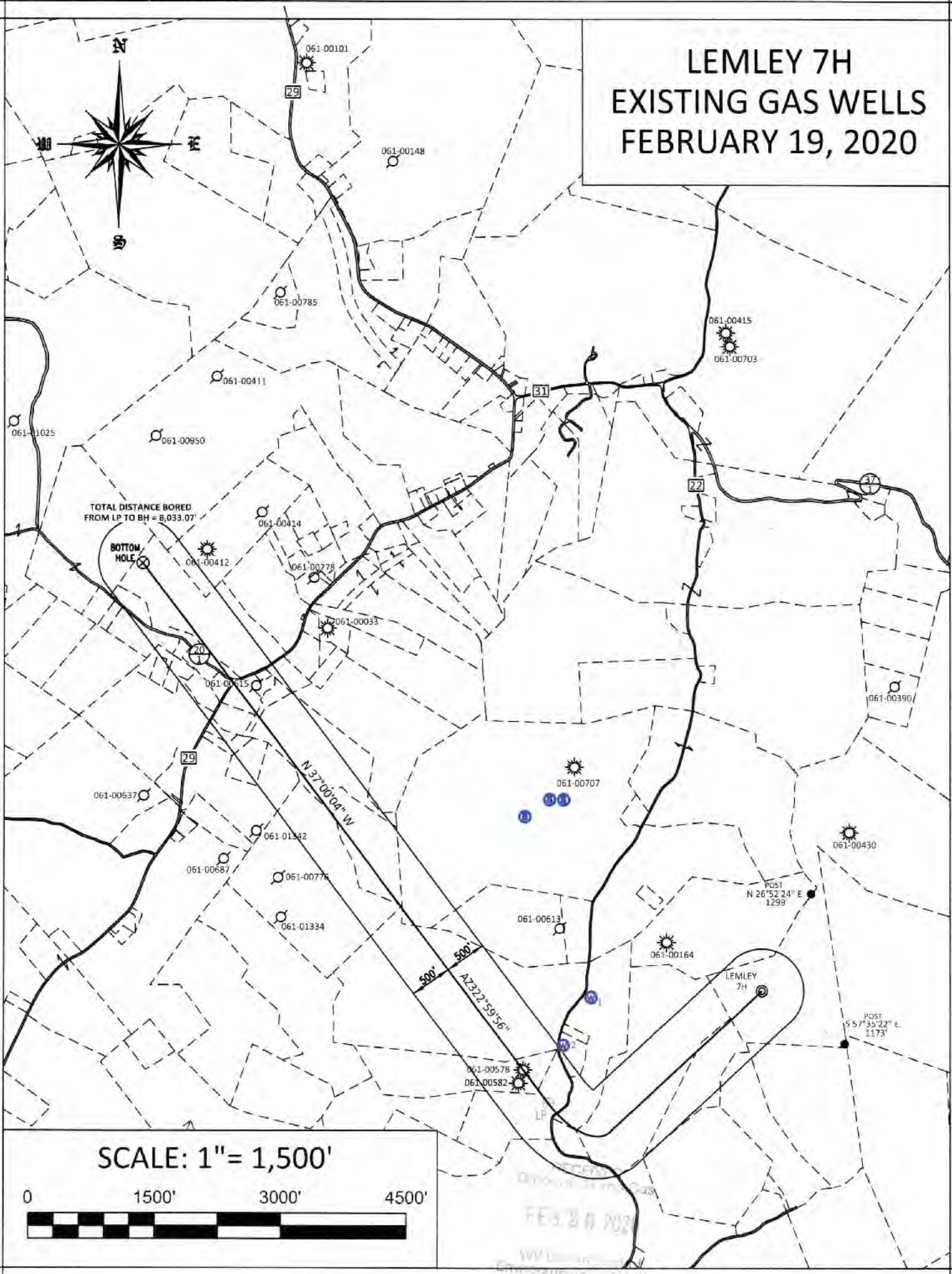
Enclosure

RECEIVED
Office of Oil and Gas

FEB 26 2020

WV Department of
Environmental Protection

LEMLEY 7H EXISTING GAS WELLS FEBRUARY 19, 2020



SCALE: 1" = 1,500'



LEMLEY 7H AREA OF REVIEW

API Number	Well Name	Well Number	Operator	Latitude (NAD 83)	Longitude (NAD 83)	TMP	Comments
061-00582	John W Wright	13	Pennzoil Company	39.667862	80.147856	4-11-43	NA
061-00578	Arkwright	NA	Keystone Gas Co. (Crescent Hills Co)	39.668297	80.147668	4-11-43	NA
061-00615	Goldie Varner	1	Consolidation Oil & Gas Co.	39.680717	80.159134	4-11-26	Plugged 12/1/1980

RECEIVED
 Consolidation Oil & Gas
 APR 26 2000
 Wyoming Department of
 Environmental Protection

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 any 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:

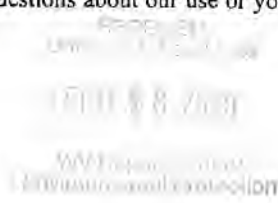
State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>573963.7</u>
County:	<u>Monongalia</u>		Northing:	<u>4391560.8</u>
District:	<u>Clay</u>	Public Road Access:	<u>County Route 22/Long Drain Road</u>	
Quadrangle:	<u>Blacksville</u>	Generally used farm name:	<u>Lemley</u>	
Watershed:	<u>Dunkard Creek</u>			

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: </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.



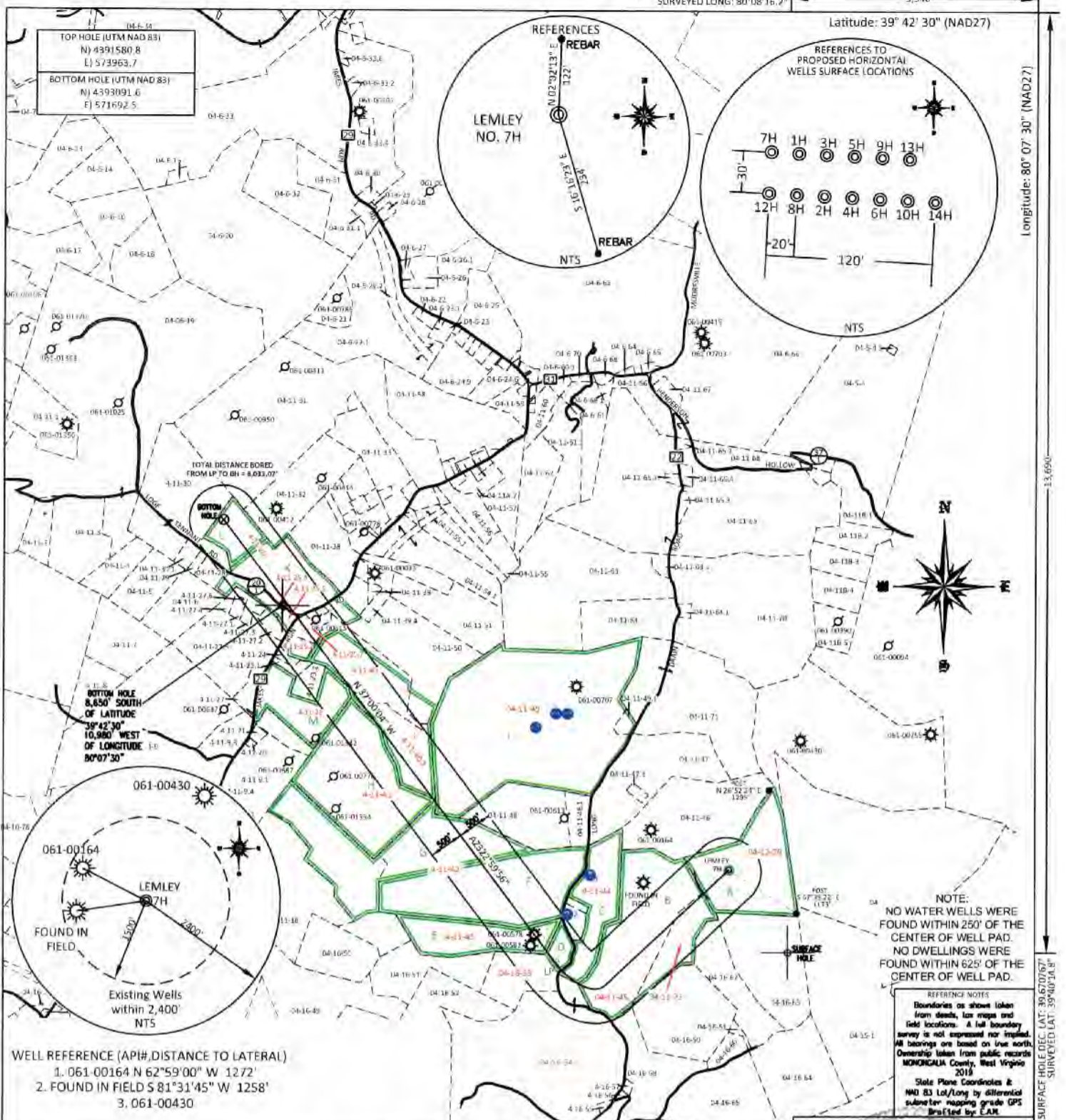
WELL NAME: LEMLEY 7H
BLACKSVILLE, WV



TOTAL DISTANCE BORED
FROM LP TO BH = 8,033.07
FEET



GRAPHIC SCALE



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 & NAD 83 Lat/Long by differential submeter mapping grade GPS drafted by EAM

WELL REFERENCE (API#, DISTANCE TO LATERAL)
1. 061-00164 N 62°59'00" W 1272'
2. FOUND IN FIELD S 81°31'45" W 1258'
3. 061-00430

FILE #: NEE14
DRAWING #: 2904
SCALE: PLAT: 1" = 2000'
TICK MARK: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

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

WATERSHED: DUNKARD CREEK

COUNTY/DISTRICT: MONONGALIA / CLAY QUADRANGLE: BLACKSVILLE, WV
SURFACE OWNER: CLARENCE W. LEMLEY JR. & CHARLOTTE E. LEMLEY ACREAGE: 128.58 +/-
OIL & GAS ROYALTY OWNER: LEROY TENNANT, et al ACREAGE:
LEASE NUMBERS:

DATE: FEBRUARY 19, 2020
OPERATOR'S WELL #: LEMLEY 7H
API WELL #: 47 61 01844 MOD
STATE COUNTY PERMIT
AS-BUILT
ELEVATION: 1,549.47'

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
ESTIMATED DEPTH: TVD: 8,206' TMD: 17,371'
WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC DESIGNATED AGENT: JOHN ADAMS
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

PROPERTY OWNER INDEX	
4-11-73	DONALD STULL ET AL
4-11-42	WILLIAM D. STATLER
4-12-20	CLARENCE W. LEMLEY JR. & CHARLOTTE E. LEMLEY
4-16-53	CONSOL MINING COMPANY
4-16-54	CNX LAND LLC
4-11-43	WILLIAM D. STATLER
4-11-44	WILLIAM D. STATLER SR.
4-11-45	DONALD STULL ET AL
4-11-49	RONALD W. & PATRICIA STATLER
4-11-41	STEPHEN J. & CYNTHIA A. BUSCH
4-11-40.1	MARK D. & AMBER RIGGLE
4-11-23	MARK D. & AMBER RIGGLE
4-11-40	JAMES O. & JANET I. JACKSON FAMILY IRREVOCABLE TRUST
4-11-25.7	SANDRA K. & RICHARD L. FRANCIS
4-11-25.2	JAMES O. & JANET I. JACKSON FAMILY IRREVOCABLE TRUST
4-11-25.5	IRA E. & GERALDINE L. VERNER
4-11-25.4	RONALD B. & DONNA JO AMMONS
4-11-26	RUBY E. STEPHEN ET AL

LEASE INDEX			
A	WV-061-003525-001	H	WV-061-004130-001
B	WV-061-001291-003	I	WV-061-003971-001
C	WV-061-004327-001	J	WV-061-002367-002
D	WV-061-005435-001	K	XTO PARTICIPATION AGREEMENT
E	WV-061-001139-001		
F	WV-061-002269-001	L	WV-061-004116-002
G	WV-061-003983-001	M	WV-061-004606-001

RECEIVED
Office of Oil and Gas
FEB 26 2020
WV Department of
Environmental Protection

FILE #: NEE14

DRAWING #: 2903

SCALE: N/A

DATE: FEBRUARY 19, 2020

OPERATOR'S WELL #: LEMLEY 7H

API WELL #: 47 61 01844 MDD
STATE COUNTY PERMIT