



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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Wednesday, May 12, 2021
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 BUNNER 8H
47-061-01870-00-00

Extended Lateral Length

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.

A handwritten signature in blue ink, appearing to read "James A. Martin".

James A. Martin
Chief

Operator's Well Number: BUNNER 8H
Farm Name: PATRICIA A. BUNNER
U.S. WELL NUMBER: 47-061-01870-00-00
Horizontal 6A New Drill
Date Modification Issued: 5/12/2021

Promoting a healthy environment.

05/14/2021

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: 8H Well Pad Name: Bunner

3) Farm Name/Surface Owner: Patricia A. Bunner Public Road Access: Upper Days Run Rd

4) Elevation, current ground: 1328' Elevation, proposed post-construction: 1308'

5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____
(b) If Gas Shallow Deep _____
Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 8,027' (GL), 104', 4500 psi

8) Proposed Total Vertical Depth: 8,027'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 25,115'

11) Proposed Horizontal Leg Length: 16,229'

12) Approximate Fresh Water Strata Depths: 150', 1100' (GL)

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

14) Approximate Saltwater Depths: 1500', 2180' (GL)

15) Approximate Coal Seam Depths: 416', 553', 814', 919' (GL)

16) Approximate Depth to Possible Void (coal mine, karst, other): none

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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18)

CASING AND TUBING PROGRAM

<u>TYPE</u>	<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	94.7	100'	100'	113/GTS
Fresh Water	13-3/8	New	J-55	54.5	1,230'	1,200'	961/CTS
Coal							
Intermediate	9-5/8	New	J-55	36	2,530'	2,500'	864/CTS
Production	5-1/2	New	P-110	20	25,115'	25,085'	6,023
Tubing	2-7/8	New	P-110	6.5	NA	8000	NA
Liners							

Bryan Hester
4.15.21

<u>TYPE</u>	<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	28	0.375	NA	NA	Type 1	1.18
Fresh Water	13-3/8	17-1/2	0.380	2730	500	Class A	1.19
Coal							
Intermediate	9-5/8	12-3/8	0.395	3520	2800	Class A	1.19
Production	5-1/2	8-3/4 & 8-1/2	0.361	14,360	11,500 (frac)	50:50 POZ	1.07
Tubing	2-7/8	NA	0.217	13,870	NA	NA	NA
Liners							

PACKERS

Kind:	NA			
Sizes:				
Depths Set:				

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

Utilize auger rig to set cellar & conductor. The conductor will be grouted with cement to surface. Mobilize top hole drilling rig. Drill surface section on air. Run surface (freshwater & coal string) casing to desired depth. The surface section will not penetrate sea level. Surface casing will be cemented to surface. Drill intermediate section on air. Run intermediate casing to desired depth. Intermediate casing will be cemented to surface. Drill on air the production section to the start of the curve (KOP). The well will be loaded with synthetic oil base drilling mud (SOBM). Demobilize top hole rig. Mobilize horizontal drilling rig. Finish drilling the production section utilizing MWD surveys and geosteering practices to maintain the wellbore in the Marcellus shale and prevent anti-collision. Production casing will be ran to TD and cement top will be inside the intermediate casing.

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

A cement bond log will determine the top of production casing cement. The production casing will be pressure tested. The hydraulic fracturing equipment will then open the toe sleeves and begin pumping the first stage. The plug-and-perf method will be used for the remaining stages. The max anticipated pressure during frac is 11,500psi and a max rate of 90bpm. After frac, the drillout rig will drill all plugs out of the well. Land production tubing at desired depth. Then flowback well until ready to turn in line to production facilities.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 16.36

22) Area to be disturbed for well pad only, less access road (acres): 6.79

23) Describe centralizer placement for each casing string:

Surface: shoe track & every 3rd joint to surface
Intermediate: shoe track & every 3rd joint to surface
Production: Rigid bow centralizers at shoe track & every other joint in the lateral to KOP. Bow springs from KOP to surface every third joint.

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 & intermediate on air will utilize high volumetric flow rates of air to ensure the wellbore is clean prior to TOH.
Production section will utilize synthetic oil based drilling mud to properly clean the wellbore. At TD, pump rate and rotation will be maximized and tripping will not begin until shakers flow clean.
Production casing will be circulated prior to cementing to ensure a prepared wellbore for cement.

*Note: Attach additional sheets as needed.

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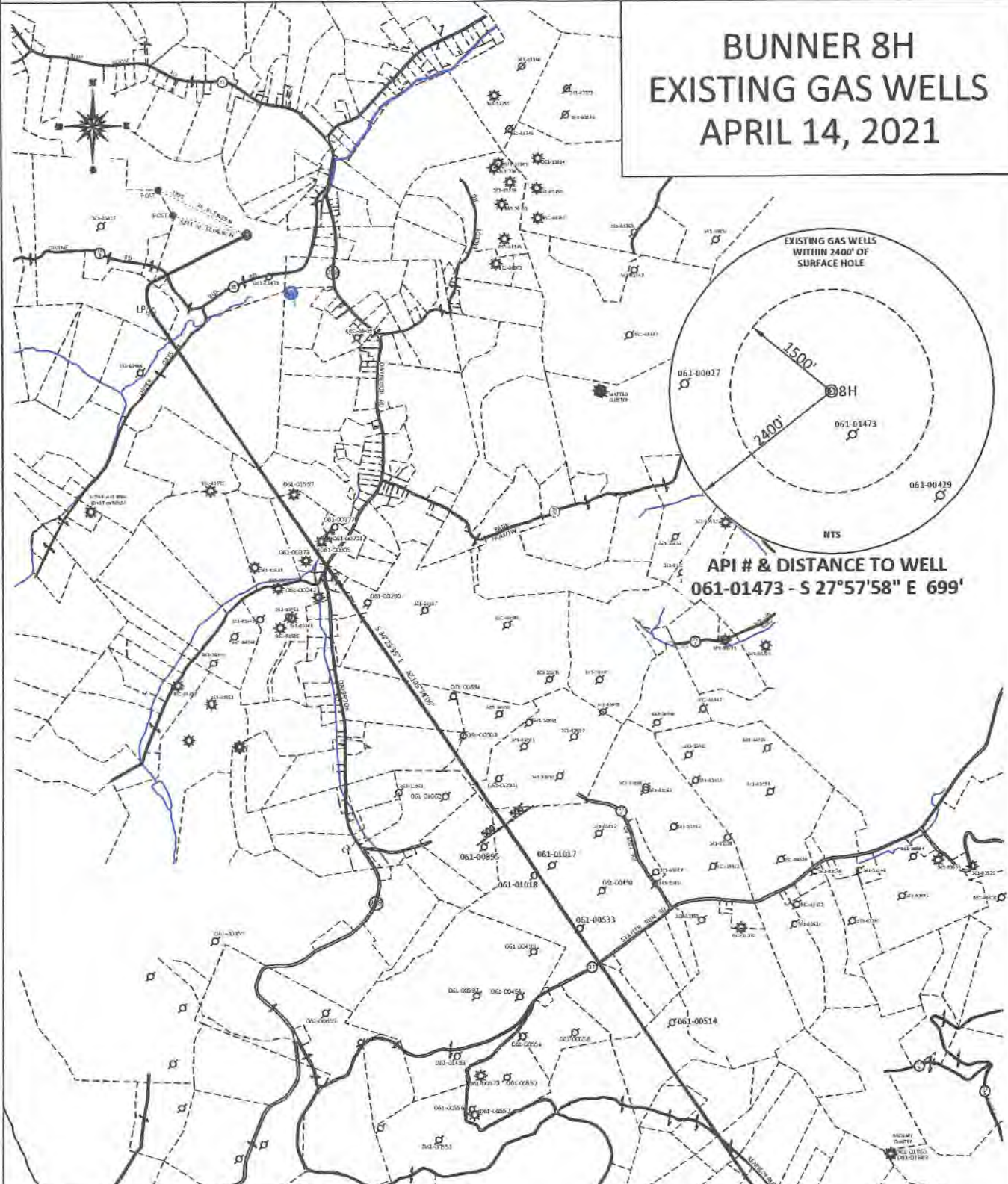
Bunner 8H Area of Review

API Number	Well Name	Well Number	Operator	Latitude (NAD 27)	Longitude (NAD 27)	TMP	TVD	Comments
47-061-01587	Daybrook Development	21	Sitter Drilling LLC	39.661392	-80.227299	4-17-16.3	2500	NA
47-061-00377	Larry Yost	12	Yost & Yost Inc	39.650490	-80.212814	4-17-16.2	707	Plugged 6/29/1983
47-061-00721	Larry Yost	13	Yost & Yost Inc	39.649636	-80.213570	4-17-16.2	2104	NA
47-061-00905	Murby Yost	14	Daybrook Development	39.650071	-80.213757	4-17-16.3	2105	NA
47-061-00373	Larry Yost	11	Yost & Yost Inc	39.650993	-80.212421	4-17-16.3	3285	NA
47-061-00242	Edward Yost	1	NA	39.647671	-80.213653	4-17-16	3255	NA
47-061-00290	Richard Malott	1	Yost & Yost Inc	39.647606	-80.211319	4-17-19	2233	NA
47-061-00903	H&M Hamilton	NA	Consolidation Coal	39.642241	-80.206225	4-20-08	NA	Plugged 5/3/1989
47-061-01062	J L & P D Foley	NA	Consolidation Coal	39.639776	-80.207161	4-20-32	NA	Plugged 4/10/1992
47-061-00901	H&M Hamilton	NA	Consolidation Coal	39.640501	-80.204348	4-20-11	NA	Plugged 6/18/1991
47-061-00895	D&C Ammons	NA	Consolidation Coal	39.637746	-80.205097	4-20-31	NA	NA
47-061-01017	J & S Moore	NA	Consolidation Coal	39.637021	-80.201533	4-20-25.1	NA	Plugged 5/9/1991
47-061-01018	J & S Moore	NA	Consolidation Coal	39.636586	-80.202471	4-20-25.1	NA	Plugged 5/11/1991
47-061-00533	Jeffrey & Sandra Moore	5	East Resources Inc.	39.634456	-80.200074	4-20-25.1	NA	Plugged 1/21/2010
47-061-00514	Neal Ercolano	1	NNE Resources LLC	39.630698	-80.195194	4-20-49	NA	Plugged 8/14/2020

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BUNNER 8H EXISTING GAS WELLS APRIL 14, 2021



API # & DISTANCE TO WELL
061-01473 - S 27°57'58" E 699'

SCALE: 1" = 2,000'



TOTAL DISTANCE BORED
FROM LP TO BH = 16,229.99'

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NORTHEAST NATURAL ENERGY, LLC

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

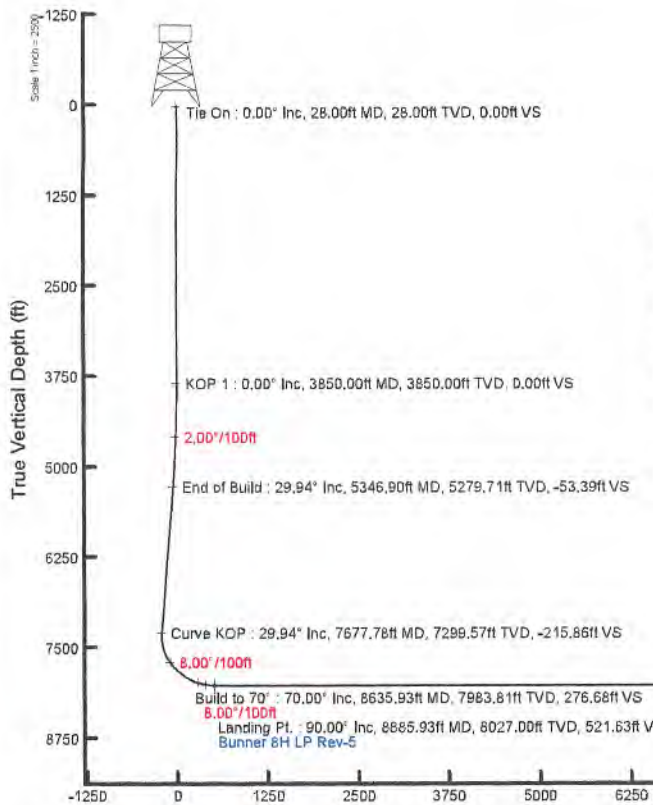
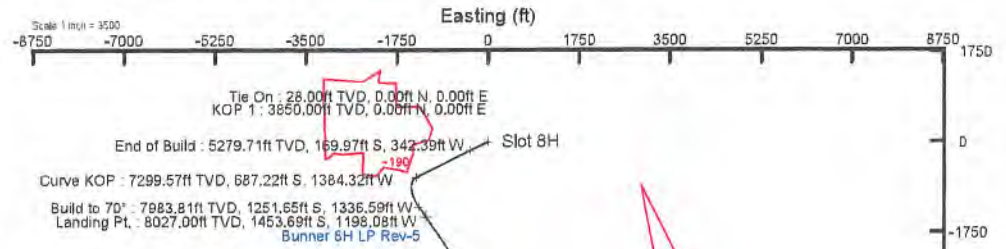
Slot: Slot 8H
 Well: Bunner 8H
 Wellbore: Bunner 8H PWB



Flat reference wellpath is Bunner 8H PWB Ex-01 (4.6.21)	Grid System: NAD83 / Lambert (West Virginia SP, Northern Zone (4701), US Feet)
True vertical depths are referenced to Patterson 271 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to Patterson 271 (RKB)	Scale: True distance
Patterson 271 (RKB) to Mean Sea Level: 1301 feet	Coordinates are in feet referenced to BMT
Mean Sea Level to Ground level (A1S61 Slot 8H): -1277 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: Nipping on 2021-04-09 Database: WA_MFL_EASTERIUS_DeW

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Casing Type	Hole Size	Casing Size	Grade	Weight	Casing Depth (GL)	Drill Depth (GL)
Conductor	28"	24"	N/A	N/A	40'	40'
Surface	17.5"	13.375"	J-55	54.5	1200'	1230'
Intermediate	12.25"	9.675"	J-55	36	2500'	2530'



Formation	Top (GL)	Base (GL)
Tully	7746'	7795'
Hamilton	7795'	7903'
Upper Marcellus	7903'	7983'
Cherry Valley	7983'	7987'
Lower Marcellus	7987'	8012'
Target	7999'	
Onondaga	8012'	

Bunner 8H BHL Rev-4
 BHL : 8027.00ft TVD, 14840.14ft S, 7978.82ft E

Bunner 8H BHL Rev-4
 BHL : 90.00° Inc, 25115.92ft MD, 8027.00ft TVD, 16751.62ft VS

Vertical Section (ft)
 Azimuth 145.57° with reference 0.00 N, 0.00 E

Northing (ft)
 4706101870

Scale 1 inch = 2500

WELL NAME: BUNNER 8H
BLACKSVILLE, WV

4706101870



05/14/2021



GRAPHIC SCALE

TOTAL DISTANCE BORED
FROM LP TO BH = 16,229.99'

BLACKSVILLE QUAD
GRANTTOWN QUAD

CLAY

SURFACE HOLE DEC. LONG: 80.217961

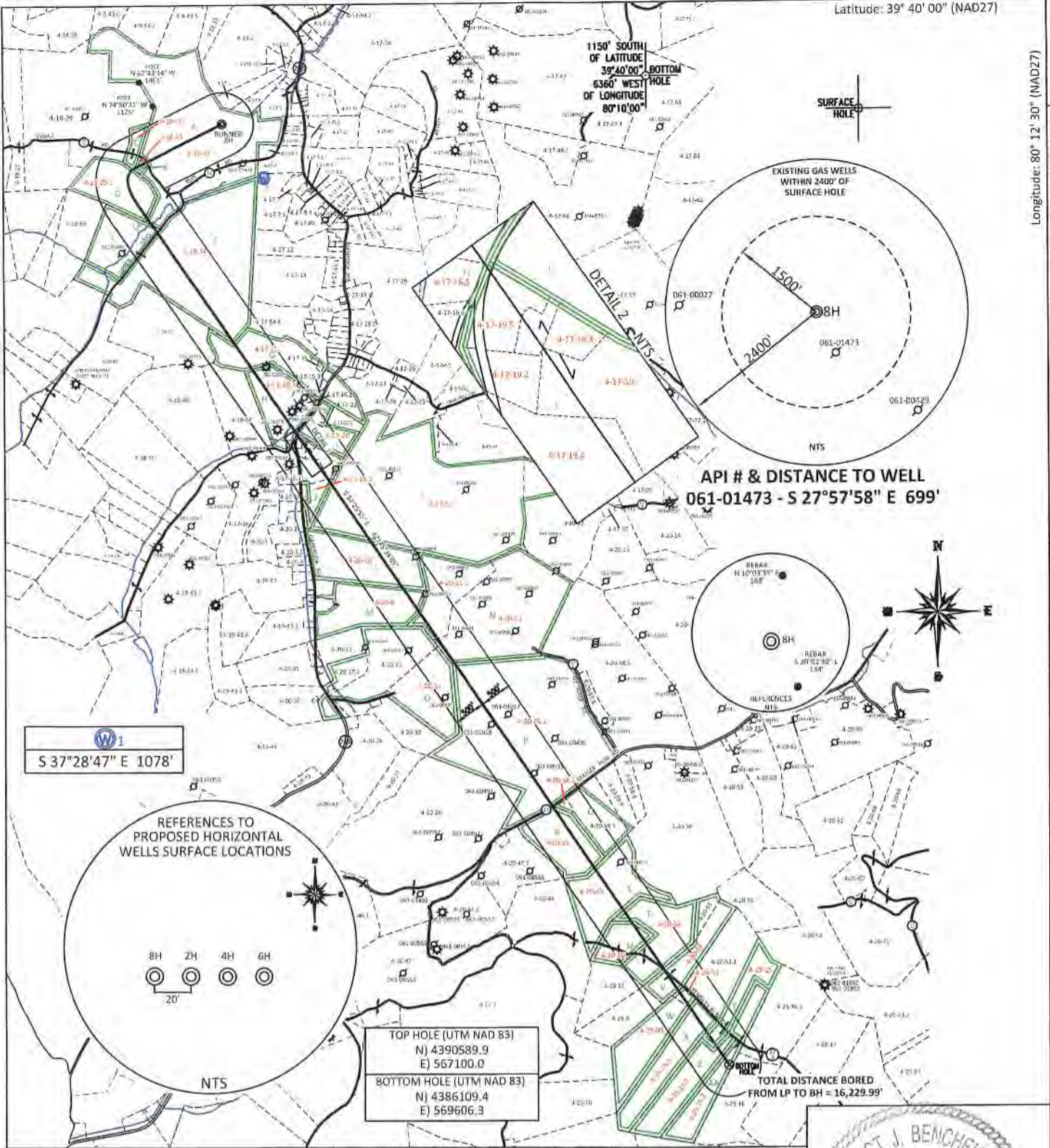
SURVEYED LONG: 80°13'04.7"

2,710'

Latitude: 39° 40' 00" (NAD27)

Longitude: 80° 12' 30" (NAD27)

SURFACE HOLE DEC. LAT: 39.662005
SURVEYED LAT: 39°39'44.7"



FILE #: NEE14

DRAWING #: 2947

SCALE: PLAT: 1" = 2200'
TICK MARK: 1" = 2000'

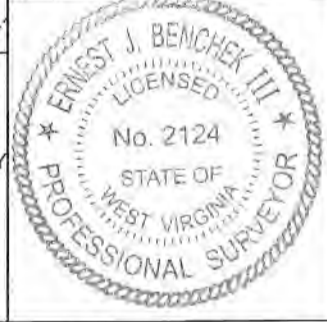
MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE SUBMETER MAPPING
OF ELEVATION: GRADE GPS

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

Signed: *[Signature]*

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



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

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

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

WATERSHED: DUNKARD CREEK

COUNTY/DISTRICT: MONONGALIA / CLAY

SURFACE OWNER: PATRICIA A. BUNNER

OIL & GAS ROYALTY OWNER: PATRICIA BUNNER, et al

LEASE NUMBERS:

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

TARGET FORMATION: MARCELLUS

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

DATE: APRIL 15, 2021

OPERATOR'S WELL #: BUNNER 8H

API WELL #: 47 61 01870 MOD
STATE COUNTY PERMIT

CURRENT ELEVATION: 1,328' PROPOSED ELEVATION: 1,308'

QUADRANGLE: BLACKSVILLE, WV

ACREAGE: 94.72 +/-
ACREAGE: 915.251 +/-

ESTIMATED DEPTH: TVD: 8,027' TMD: 25,115.92'

DESIGNATED AGENT: JOHN ADAMS
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

05/14/2021

PROPERTY OWNER INDEX	
4-18-32	PATRICIA A. BUNNER
4-18-30	PRUDENCE G BERRY
4-18-31	ROBERT ELDON & PRUDENCE BERRY; GAIL & DEBRA JEAN JONES
4-18-29.1	BILLY VON DEVINE
4-18-34	GORDON PROPERTIES LLC
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4-25-52	DOROTHY WEST ESTATE ET AL

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D	WV-061-005639-001	S	WV-061-005717-001
E	WV-061-000175-000	T	WV-061-004555-004
F	WV-061-000683-120	U	WV-061-005715-001
G	WV-061-003325-011	V	WV-061-005551-002
H	WV-061-001051-001	W	WV-061-004235-026
I	WV-061-003260-001	X	WV-061-005757-001
J	WV-061-003323-001	Y	WV-061-004235-015
K	WV-061-003539-003	Z	WV-061-004504-001
L	WV-061-003299-013	AA	WV-061-004504-001
M	WV-061-003747-001		
N	WV-061-001052-002		
O	WV-061-003862-001		

05/14/2021

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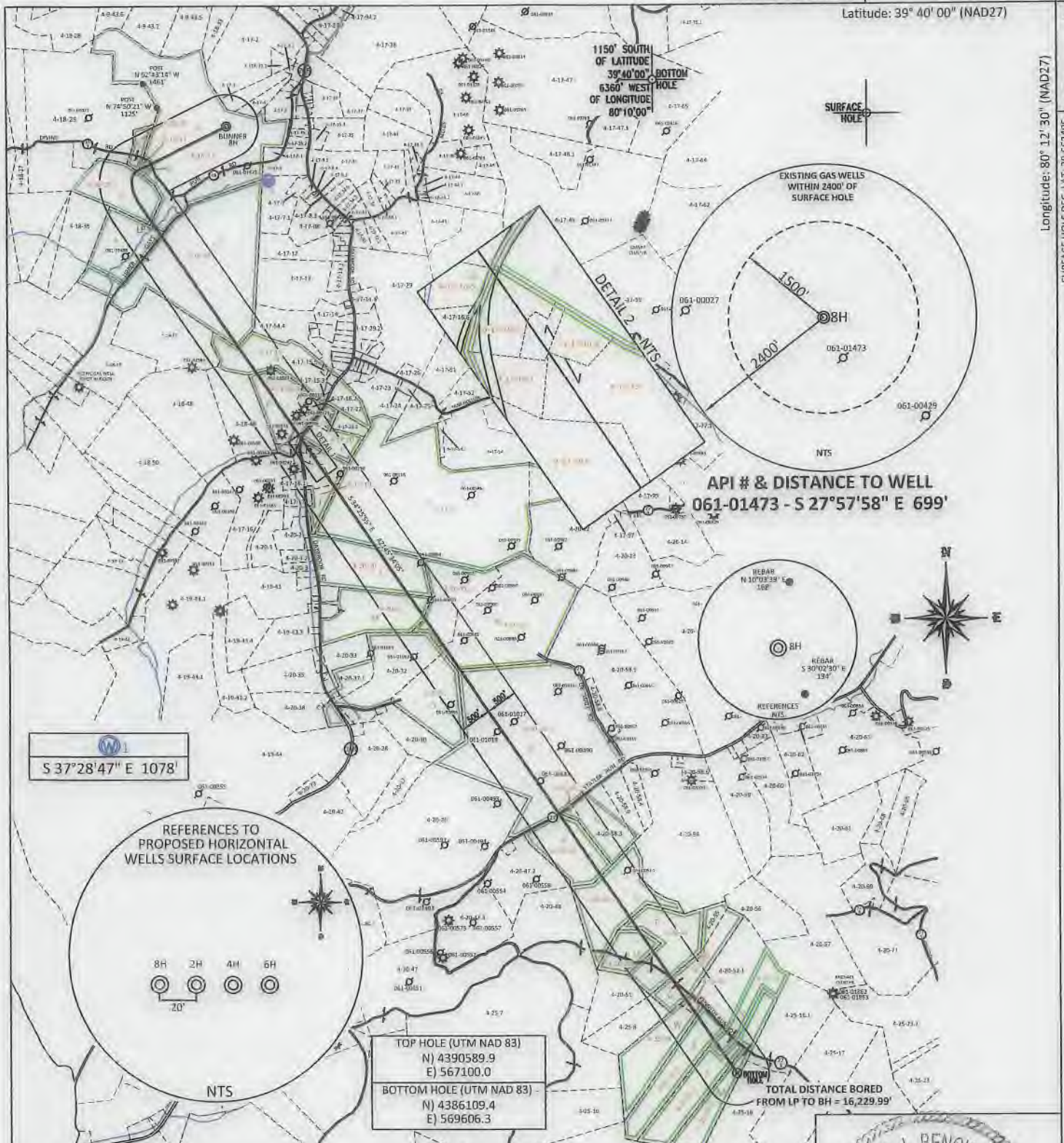
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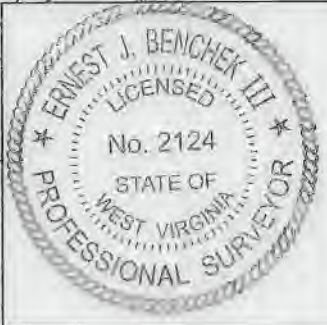
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CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY):

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E	WV-061-000175-000	T	WV-061-004555-004
F	WV-061-000683-120	U	WV-061-005715-001
G	WV-061-003325-011	V	WV-061-005551-002
H	WV-061-001051-001	W	WV-061-004235-026
I	WV-061-003260-001	X	WV-061-005757-001
J	WV-061-003323-001	Y	WV-061-004235-015
K	WV-061-003539-003	Z	WV-061-004504-001
L	WV-061-003299-013	AA	WV-061-004504-001
M	WV-061-003747-001		
N	WV-061-001052-002		
O	WV-061-003862-001		

05/14/2021

FILE #: NEE14

DATE: APRIL 15, 2021

DRAWING #: 2947

OPERATOR'S WELL #: BUNNER 8H

SCALE: N/A

API WELL #: 47 61 01870 M3D
STATE COUNTY PERMIT

WW-6A1
(5/13)

Operator's Well No. Bunner 8H

**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
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See Attached

RECEIVED
Office of Oil and Gas
APR 21 2021
WV Department of
Environmental Protection

**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

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
A	WV-061-004154-001	Patricia Bunner	Northeast Natural Energy, LLC	12.5% or Greater	1563	435
B	WV-061-005368-015	Anthony J. Stanley	Northeast Natural Energy, LLC	12.5% or Greater	142	323
B	WV-061-005378-013	Darby Lynn McDonald	Northeast Natural Energy, LLC	12.5% or Greater	1688	581
B	WV-061-005378-002	Eleanor K. Kosienki	Northeast Natural Energy, LLC	12.5% or Greater	1638	666
B	WV-061-005368-011	Gary W. Spragg	Northeast Natural Energy, LLC	12.5% or Greater	1643	40
B	WV-061-005368-012	John T. Stanley	Northeast Natural Energy, LLC	12.5% or Greater	1660	358
B	WV-061-005378-006	Lois Evelyn Holder	Northeast Natural Energy, LLC	12.5% or Greater	1666	143
B	WV-061-005368-013	Lois Smith	Northeast Natural Energy, LLC	12.5% or Greater	1666	139
B	WV-061-005368-014	Martha Wilcox	Northeast Natural Energy, LLC	12.5% or Greater	1647	816
B	WV-061-005378-011	Micah Riggerbach	Northeast Natural Energy, LLC	12.5% or Greater	1673	297
B	WV-061-005378-012	Patricia Ann Virgili	Northeast Natural Energy, LLC	12.5% or Greater	1679	290
B	WV-061-005378-004	Paul Stebelton	Northeast Natural Energy, LLC	12.5% or Greater	1664	727
B	WV-061-005378-010	Rachel Asbury	Northeast Natural Energy, LLC	12.5% or Greater	1673	295
B	WV-061-005378-008	Rebekah Stebelton	Northeast Natural Energy, LLC	12.5% or Greater	1666	147
B	WV-061-005378-007	Sarah Brandt	Northeast Natural Energy, LLC	12.5% or Greater	1666	145
B	WV-061-005378-009	Shelba Stebelton Roach	Northeast Natural Energy, LLC	12.5% or Greater	1666	149
B	WV-061-005378-003	Shirley Ann Blalock	Northeast Natural Energy, LLC	12.5% or Greater	1664	725
B	WV-061-005378-005	Terry Spivey	Northeast Natural Energy, LLC	12.5% or Greater	1666	141
C	WV-061-005378-013	Darby Lynn McDonald	Northeast Natural Energy, LLC	12.5% or Greater	1688	581
C	WV-061-005361-015	Anthony J. Stanley	Northeast Natural Energy, LLC	12.5% or Greater	142	319
C	WV-061-005361-001	Gary W. Spragg	Northeast Natural Energy, LLC	12.5% or Greater	1637	60
C	WV-061-005361-013	John T. Stanley	Northeast Natural Energy, LLC	12.5% or Greater	1660	358
C	WV-061-005378-006	Lois Evelyn Holder	Northeast Natural Energy, LLC	12.5% or Greater	1666	143
C	WV-061-005361-014	Lois Smith	Northeast Natural Energy, LLC	12.5% or Greater	1662	743
C	WV-061-005361-012	Martha Wilcox	Northeast Natural Energy, LLC	12.5% or Greater	1647	816
C	WV-061-005378-011	Micah Riggerbach	Northeast Natural Energy, LLC	12.5% or Greater	1673	297
C	WV-061-005378-012	Patricia Ann Virgili	Northeast Natural Energy, LLC	12.5% or Greater	1679	290
C	WV-061-005378-004	Paul Stebelton	Northeast Natural Energy, LLC	12.5% or Greater	1664	727
C	WV-061-005378-010	Rachel Asbury	Northeast Natural Energy, LLC	12.5% or Greater	1673	295
C	WV-061-005378-008	Rebekah Stebelton	Northeast Natural Energy, LLC	12.5% or Greater	1666	147
C	WV-061-005378-007	Sarah Brandt	Northeast Natural Energy, LLC	12.5% or Greater	1666	145
C	WV-061-005378-009	Shelba Stebelton Roach	Northeast Natural Energy, LLC	12.5% or Greater	1666	149
C	WV-061-005378-003	Shirley Ann Blalock	Northeast Natural Energy, LLC	12.5% or Greater	1664	725
C	WV-061-005378-005	Terry Spivey	Northeast Natural Energy, LLC	12.5% or Greater	1666	141
D	WV-061-005639-001	Billy Von Devine	Northeast Natural Energy, LLC	12.5% or Greater	1697	764
E	WV-061-000175-000	Bob R. Chisler	Northeast Natural Energy, LLC	12.5% or Greater	1435	767
E	WV-061-000175-000	Charles D. Chisler	Northeast Natural Energy, LLC	12.5% or Greater	1435	767
E	WV-061-000175-000	John Chisler	Northeast Natural Energy, LLC	12.5% or Greater	1435	767
E	WV-061-000175-000	Roy Dale Chisler	Northeast Natural Energy, LLC	12.5% or Greater	1435	767
F	WV-061-000683-120	Alan Bowling	Northeast Natural Energy, LLC	12.5% or Greater	1509	709
F	WV-061-000683-067	Alison N. Paulson	Northeast Natural Energy, LLC	12.5% or Greater	1505	399
F	WV-061-000683-071	Allen B. Taylor	Northeast Natural Energy, LLC	12.5% or Greater	1505	265
F	WV-061-000683-063	Barbara Huber	Northeast Natural Energy, LLC	12.5% or Greater	1500	583
F	WV-061-000683-075	Bernice Pratt	Northeast Natural Energy, LLC	12.5% or Greater	1503	120
F	WV-061-000683-035	Betty Fultz	Northeast Natural Energy, LLC	12.5% or Greater	1485	370

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
F	WV-061-000683-114	Beulah Royston	Northeast Natural Energy, LLC	12.5% or Greater	1507	575
F	WV-061-000683-101	Beverly A. Houchin	Northeast Natural Energy, LLC	12.5% or Greater	1506	95
F	WV-061-000683-039	Burl H. Henry	Northeast Natural Energy, LLC	12.5% or Greater	1485	380
F	WV-061-000683-116	Byron Jones	Northeast Natural Energy, LLC	12.5% or Greater	1506	695
F	WV-061-000683-057	Carl E. Swartz	Northeast Natural Energy, LLC	12.5% or Greater	1498	197
F	WV-061-000683-092	Carol A. Luckey	Northeast Natural Energy, LLC	12.5% or Greater	1505	462
F	WV-061-000683-132	Carol Gardner	Northeast Natural Energy, LLC	12.5% or Greater	1516	631
F	WV-061-000683-112	Carol Jean Hunnell	Northeast Natural Energy, LLC	12.5% or Greater	1509	554
F	WV-061-000683-136	Cathy J. Adkins	Northeast Natural Energy, LLC	12.5% or Greater	1521	680
F	WV-061-000683-082	Cindy Zace	Northeast Natural Energy, LLC	12.5% or Greater	1503	554
F	WV-061-000683-015	Connie Geissinger	Northeast Natural Energy, LLC	12.5% or Greater	1484	230
F	WV-061-000683-125	Crystal Christensen	Northeast Natural Energy, LLC	12.5% or Greater	1532	551
F	WV-061-000683-093	Cynthia A. Sharp	Northeast Natural Energy, LLC	12.5% or Greater	1505	519
F	WV-061-000683-130	Cynthia Chambers	Northeast Natural Energy, LLC	12.5% or Greater	1516	629
F	WV-061-000683-018	D. Ray Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1484	247
F	WV-061-000683-020	Daniel T. Sims	Northeast Natural Energy, LLC	12.5% or Greater	1484	261
F	WV-061-000683-102	Darrell R. Collins	Northeast Natural Energy, LLC	12.5% or Greater	1505	505
F	WV-061-000683-055	David Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1492	562
F	WV-061-000683-030	David Watkins	Northeast Natural Energy, LLC	12.5% or Greater	1484	566
F	WV-061-000683-008	Don Jones	Northeast Natural Energy, LLC	12.5% or Greater	1506	697
F	WV-061-000683-074	Donald K. Miller	Northeast Natural Energy, LLC	12.5% or Greater	1503	534
F	WV-061-000683-056	Donald L. Shane	Northeast Natural Energy, LLC	12.5% or Greater	1492	544
F	WV-061-000683-126	Donna C. Weselius	Northeast Natural Energy, LLC	12.5% or Greater	1510	17
F	WV-061-000683-121	Donna Gail Bowling	Northeast Natural Energy, LLC	12.5% or Greater	1509	707
F	WV-061-000683-040	Doris Mae Henry	Northeast Natural Energy, LLC	12.5% or Greater	1485	376
F	WV-061-000683-087	Dorothy Sine	Northeast Natural Energy, LLC	12.5% or Greater	1503	815
F	WV-061-000683-024	Douglas D. Watkins	Northeast Natural Energy, LLC	12.5% or Greater	1484	269
F	WV-061-000683-115	Earl Bowling	Northeast Natural Energy, LLC	12.5% or Greater	1527	648
F	WV-061-000683-129	Emma Tedrick	Northeast Natural Energy, LLC	12.5% or Greater	1513	643
F	WV-061-000683-046	Eva L. Ellis	Northeast Natural Energy, LLC	12.5% or Greater	1487	687
F	WV-061-000683-066	Goldene B. Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1502	618
F	WV-061-000683-109	Helen Gregg	Northeast Natural Energy, LLC	12.5% or Greater	1510	23
F	WV-061-000683-076	Helen Jeffers Lowry	Northeast Natural Energy, LLC	12.5% or Greater	1503	544
F	WV-061-000683-069	Jacquelyn M. Halbrook	Northeast Natural Energy, LLC	12.5% or Greater	1504	770
F	WV-061-000683-090	Jaimee C. Sharp	Northeast Natural Energy, LLC	12.5% or Greater	1503	862
F	WV-061-000683-131	James Chambers	Northeast Natural Energy, LLC	12.5% or Greater	1516	124
F	WV-061-000683-068	James Paulson	Northeast Natural Energy, LLC	12.5% or Greater	1505	402
F	WV-061-000683-119	James R. Sine	Northeast Natural Energy, LLC	12.5% or Greater	1507	253
F	WV-061-000683-051	James Ray Lambert	Northeast Natural Energy, LLC	12.5% or Greater	1490	857
F	WV-061-000683-019	Janet Coleman	Northeast Natural Energy, LLC	12.5% or Greater	1484	259
F	WV-061-000683-014	Janet S. Martin	Northeast Natural Energy, LLC	12.5% or Greater	1483	493
F	WV-061-000683-049	Jean-Clare Sims Bohm	Northeast Natural Energy, LLC	12.5% or Greater	1488	880
F	WV-061-000683-021	Jerry E. Sims	Northeast Natural Energy, LLC	12.5% or Greater	1484	263
F	WV-061-000683-100	Jo Ann Collins	Northeast Natural Energy, LLC	12.5% or Greater	1505	507
F	WV-061-000683-017	Jo Ann Watkins	Northeast Natural Energy, LLC	12.5% or Greater	1484	245
F	WV-061-000683-052	John Alan Lambert	Northeast Natural Energy, LLC	12.5% or Greater	1490	859
F	WV-061-000683-077	John Michael Paulson	Northeast Natural Energy, LLC	12.5% or Greater	1503	713

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
F	WV-061-000683-110	John R. Jones	Northeast Natural Energy, LLC	12.5% or Greater	1508	499
F	WV-061-000683-048	Joseph B. Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1488	898
F	WV-061-000683-031	Joyce Sell	Northeast Natural Energy, LLC	12.5% or Greater	1484	564
F	WV-061-000683-023	Judy I. Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1574	528
F	WV-061-000683-037	Keith Henry	Northeast Natural Energy, LLC	12.5% or Greater	1485	386
F	WV-061-000683-027	Kent S. Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1484	275
F	WV-061-000683-059	Kim David Fritz	Northeast Natural Energy, LLC	12.5% or Greater	1500	573
F	WV-061-000683-088	Larry G. Collins	Northeast Natural Energy, LLC	12.5% or Greater	1506	779
F	WV-061-000683-085	Larry M. Sine	Northeast Natural Energy, LLC	12.5% or Greater	1503	653
F	WV-061-000683-142	Laura Ann Rogers	Northeast Natural Energy, LLC	12.5% or Greater	1688	551
F	WV-061-000683-072	Leo K. Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1502	666
F	WV-061-000683-034	Leroy Sine	Northeast Natural Energy, LLC	12.5% or Greater	1486	567
F	WV-061-000683-043	Linda Lorraine Makin	Northeast Natural Energy, LLC	12.5% or Greater	1487	312
F	WV-061-000683-062	Lisa Cortes	Northeast Natural Energy, LLC	12.5% or Greater	1500	573
F	WV-061-005627-001	Lisa Emler	Northeast Natural Energy, LLC	12.5% or Greater	1692	225
F	WV-061-000683-084	Lori Kirby	Northeast Natural Energy, LLC	12.5% or Greater	1503	880
F	WV-061-000683-050	Lorita Marie Zastrow	Northeast Natural Energy, LLC	12.5% or Greater	1488	878
F	WV-061-000683-128	Louis Bowling	Northeast Natural Energy, LLC	12.5% or Greater	1513	645
F	WV-061-000683-007	Luana S. Alicandri	Northeast Natural Energy, LLC	12.5% or Greater	1453	219
F	WV-061-000683-032	Mack Watkins	Northeast Natural Energy, LLC	12.5% or Greater	1484	562
F	WV-061-000683-079	Marion Lavern Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1503	548
F	WV-061-000683-123	Marjorie C. Robinette	Northeast Natural Energy, LLC	12.5% or Greater	1510	21
F	WV-061-000683-078	Mary Ann Sine	Northeast Natural Energy, LLC	12.5% or Greater	1503	205
F	WV-061-000683-094	Mary Anne Ketelsen	Northeast Natural Energy, LLC	12.5% or Greater	1505	145
F	WV-061-000683-127	Mary Brown	Northeast Natural Energy, LLC	12.5% or Greater	1510	633
F	WV-061-000683-111	Mary M. Field	Northeast Natural Energy, LLC	12.5% or Greater	1510	372
F	WV-061-000683-095	Mary S. Pirie	Northeast Natural Energy, LLC	12.5% or Greater	1505	523
F	WV-061-000683-122	Nancy Bovenizer	Northeast Natural Energy, LLC	12.5% or Greater	1507	251
F	WV-061-000683-107	Nellie Bichard	Northeast Natural Energy, LLC	12.5% or Greater	1509	705
F	WV-061-000683-033	Nellie G. Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1485	372
F	WV-061-000683-089	Pamela E. Sharp	Northeast Natural Energy, LLC	12.5% or Greater	1503	864
F	WV-061-000683-060	Patricia JoAnn Wagner	Northeast Natural Energy, LLC	12.5% or Greater	1500	458
F	WV-061-000683-098	Paul Marvin Collins	Northeast Natural Energy, LLC	12.5% or Greater	1505	491
F	WV-061-000683-104	Perry W. Miller Jr.	Northeast Natural Energy, LLC	12.5% or Greater	1505	161
F	WV-061-000683-103	Philip E. Miller	Northeast Natural Energy, LLC	12.5% or Greater	1504	760
F	WV-061-000683-025	Philip J. Sims	Northeast Natural Energy, LLC	12.5% or Greater	1484	271
F	WV-061-000683-070	Phillip D. Sine	Northeast Natural Energy, LLC	12.5% or Greater	1505	470
F	WV-061-000683-099	Robert Alan Sharp	Northeast Natural Energy, LLC	12.5% or Greater	1504	748
F	WV-061-000683-091	Robert Lee Collins	Northeast Natural Energy, LLC	12.5% or Greater	1507	269
F	WV-061-000683-041	Robert Lee Henry	Northeast Natural Energy, LLC	12.5% or Greater	1485	384
F	WV-061-000683-064	Robert M. Shane	Northeast Natural Energy, LLC	12.5% or Greater	1500	571
F	WV-061-000683-073	Robert Paulson	Northeast Natural Energy, LLC	12.5% or Greater	1502	668
F	WV-061-000683-038	Robert W. Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1485	382
F	WV-061-000683-106	Ronald Hadley	Northeast Natural Energy, LLC	12.5% or Greater	1505	175
F	WV-061-000683-097	Rosemary Gae Penhorwood	Northeast Natural Energy, LLC	12.5% or Greater	1532	418
F	WV-061-000683-028	Ruth Ellen Larry	Northeast Natural Energy, LLC	12.5% or Greater	1484	277
F	WV-061-000683-108	Ruth Holmes	Northeast Natural Energy, LLC	12.5% or Greater	1507	585

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
F	WV-061-000683-124	Sandra K. Krider	Northeast Natural Energy, LLC	12.5% or Greater	1511	771
F	WV-061-000683-047	Sharon K. Schuster	Northeast Natural Energy, LLC	12.5% or Greater	1487	691
F	WV-061-000683-080	Sherry L. Harrison	Northeast Natural Energy, LLC	12.5% or Greater	1505	373
F	WV-061-003618-001	Shuman Inc.	Northeast Natural Energy, LLC	12.5% or Greater	1539	411
F	WV-061-000683-029	Stephen A. Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1484	279
F	WV-061-000683-096	Steve B. Paulson	Northeast Natural Energy, LLC	12.5% or Greater	1511	550
F	WV-061-000683-042	Sue Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1487	308
F	WV-061-000683-081	Susan J. Sine	Northeast Natural Energy, LLC	12.5% or Greater	1503	649
F	WV-061-000683-105	Susan Ranae Lentz	Northeast Natural Energy, LLC	12.5% or Greater	1505	133
F	WV-061-000683-036	Teresa Leigh Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1485	368
F	WV-061-000683-135	Thomas A. Dawson	Northeast Natural Energy, LLC	12.5% or Greater	1516	771
F	WV-061-000683-026	Tommy D. Watkins	Northeast Natural Energy, LLC	12.5% or Greater	1484	273
F	WV-061-000683-117	Victoria Hammersley	Northeast Natural Energy, LLC	12.5% or Greater	1506	704
F	WV-061-000683-113	Wayne McElwee	Northeast Natural Energy, LLC	12.5% or Greater	1510	19
F	WV-061-000683-083	William E. Sharp	Northeast Natural Energy, LLC	12.5% or Greater	1505	367
F	WV-061-000683-053	Yuri Dmitri Popov	Northeast Natural Energy, LLC	12.5% or Greater	1492	435
G	WV-061-003325-011	Adrian Kyle Wells II	Northeast Natural Energy, LLC	12.5% or Greater	1502	752
G	WV-061-003325-005	David Lee Wells	Northeast Natural Energy, LLC	12.5% or Greater	1502	756
G	WV-061-003325-001	Lelia Kimberly Wells Fournet	Northeast Natural Energy, LLC	12.5% or Greater	1503	102
G	WV-061-003325-007	Olivia Keth Wells Sullivan	Northeast Natural Energy, LLC	12.5% or Greater	1502	758
G	WV-061-001035-018	Barry Hollandsworth	Northeast Natural Energy, LLC	12.5% or Greater	1486	895
G	WV-061-005323-006	Judith Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1483	483
G	WV-061-005323-002	Jacqueline C. Cowell	Northeast Natural Energy, LLC	12.5% or Greater	1483	483
G	WV-061-005323-001	Joyce A. Clark	Northeast Natural Energy, LLC	12.5% or Greater	1483	483
G	WV-061-005323-012	Jerry L. Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1483; 1640	483; 355
G	WV-061-005323-010	Jeffrey L. Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1483	483
G	WV-061-005323-007	Janice Kay Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1483	483
G	WV-061-005323-006	James L. Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1483	483
G	WV-061-004721-009	Sharon Lyons Rock	Northeast Natural Energy, LLC	12.5% or Greater	1608	55
G	WV-061-004721-008	Robert Lyons	Northeast Natural Energy, LLC	12.5% or Greater	1608	52
G	WV-061-005467-001	Billy Ray Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1645	174
G	WV-061-003324-001	Brian E. Davis	Northeast Natural Energy, LLC	12.5% or Greater	1505	404
G	WV-061-003325-014	Guy S. Graziano Jr.	Northeast Natural Energy, LLC	12.5% or Greater	1503	858
G	WV-061-001035-041	Celeste M. Williams	Northeast Natural Energy, LLC	12.5% or Greater	1517	399
G	WV-061-001035-035	Charles Bradley Davis	Northeast Natural Energy, LLC	12.5% or Greater	1503	86
G	WV-061-003325-013	Charles J. Altamore	Northeast Natural Energy, LLC	12.5% or Greater	1503	866
G	WV-061-003803-001	Cheryl L. Gallagher	Northeast Natural Energy, LLC	12.5% or Greater	1559	272
G	WV-061-003867-001	Cliff Evan Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1566	5
G	WV-061-003934-002	Daniel G. Dinius	Northeast Natural Energy, LLC	12.5% or Greater	1566	3
G	WV-061-001035-036	David Wayne Williams	Northeast Natural Energy, LLC	12.5% or Greater	1503	870
G	WV-061-002401-007	Dennis Keith Williams	Northeast Natural Energy, LLC	12.5% or Greater	1441	724
G	WV-061-003872-001	Don R. Williams	Northeast Natural Energy, LLC	12.5% or Greater	1576	426
G	WV-061-003325-003	Donald Wheeler Jr.	Northeast Natural Energy, LLC	12.5% or Greater	1503	92
G	WV-061-005323-003	Ellen J. Woodruff	Northeast Natural Energy, LLC	12.5% or Greater	1483	487
G	WV-061-003325-016	Fred J. Altamore	Northeast Natural Energy, LLC	12.5% or Greater	1505	369
G	WV-061-003325-025	Jack L. Yost	Northeast Natural Energy, LLC	12.5% or Greater	1493	273
G	WV-061-005323-011	James F. Williams	Northeast Natural Energy, LLC	12.5% or Greater	1640	353

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
G	WV-061-003934-003	Stephen A. Jones	Northeast Natural Energy, LLC	12.5% or Greater	1662	755
G	WV-061-003934-007	Trisha Jones	Northeast Natural Energy, LLC	12.5% or Greater	1638	642
G	WV-061-003757-001	Nancy A. Kallas	Northeast Natural Energy, LLC	12.5% or Greater	1557	492
G	WV-061-002401-004	James Everett Williams II	Northeast Natural Energy, LLC	12.5% or Greater	1441	20
G	WV-061-003934-006	Janet D. Crabtree	Northeast Natural Energy, LLC	12.5% or Greater	1635	492
G	WV-061-003325-004	Jerry Wayne Moore	Northeast Natural Energy, LLC	12.5% or Greater	1503	104
G	WV-061-00467-003	Jimmy Randall Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1647	118
G	WV-061-003331-001	Jo Statler	Northeast Natural Energy, LLC	12.5% or Greater	1502	599
G	WV-061-003934-005	John C. Jones	Northeast Natural Energy, LLC	12.5% or Greater	1635	490
G	WV-061-001035-026	Joseph Anthony Haught	Northeast Natural Energy, LLC	12.5% or Greater	1493	884
G	WV-061-002401-006	Joyce Ann Berga	Northeast Natural Energy, LLC	12.5% or Greater	1440	686
G	WV-061-001035-032	Judy D. Rose	Northeast Natural Energy, LLC	12.5% or Greater	1500; 1642	395; 164
G	WV-061-002401-005	Karen J. Taylor	Northeast Natural Energy, LLC	12.5% or Greater	1440	691
G	WV-061-005323-009	Kathleen A. Williams	Northeast Natural Energy, LLC	12.5% or Greater	1484	560
G	WV-061-003840-001	Kimberly Brummage	Northeast Natural Energy, LLC	12.5% or Greater	1562	347
G	WV-061-001035-028	Larry L. Rush	Northeast Natural Energy, LLC	12.5% or Greater	1493	893
G	WV-061-003934-004	Loruma B. Brokaw	Northeast Natural Energy, LLC	12.5% or Greater	1636	227
G	WV-061-001035-012	Correll W. Cummins	Northeast Natural Energy, LLC	12.5% or Greater	1610	481
G	WV-061-002416-001	Mabel L. McAfee	Northeast Natural Energy, LLC	12.5% or Greater	1440	697
G	WV-061-003694-001	Malorie Jane Evans	Northeast Natural Energy, LLC	12.5% or Greater	1642	166
G	WV-061-003325-006	Marilyn Jane Moore	Northeast Natural Energy, LLC	12.5% or Greater	1504	768
G	WV-061-001035-036	Mark Allen Williams	Northeast Natural Energy, LLC	12.5% or Greater	1503	870
G	WV-061-002401-001	Mary Jane Pemberton	Northeast Natural Energy, LLC	12.5% or Greater	1441	724
G	WV-061-001035-022	Mary V. Cole	Northeast Natural Energy, LLC	12.5% or Greater	1492	431
G	WV-061-001035-044	George W. Yost	Northeast Natural Energy, LLC	12.5% or Greater	1636	134
G	WV-061-005372-001	Randall E. Dinius	Northeast Natural Energy, LLC	12.5% or Greater	1637	593
G	WV-061-002401-003	Rebecca Lynn Stahler	Northeast Natural Energy, LLC	12.5% or Greater	1441	8
G	WV-061-003325-004	Richard Lane Moore	Northeast Natural Energy, LLC	12.5% or Greater	1503	104
G	WV-061-003325-004	Robert Lynn Moore	Northeast Natural Energy, LLC	12.5% or Greater	1503	104
G	WV-061-002401-002	Robert Ora Wheeler	Northeast Natural Energy, LLC	12.5% or Greater	1441	14
G	WV-061-005323-008	Robin K. Walls	Northeast Natural Energy, LLC	12.5% or Greater	1481	269
G	WV-061-005467-002	Rodney Wayne Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1645	176
G	WV-061-005467-004	Roxanna Cahill and Michael Cahill	Northeast Natural Energy, LLC	12.5% or Greater	1647	120
G	WV-061-001035-024	Russell D. Yost	Northeast Natural Energy, LLC	12.5% or Greater	1492	419
G	WV-061-001035-018	Shirley Hollandsworth	Northeast Natural Energy, LLC	12.5% or Greater	1486	895
G	WV-061-001035-015	Bob Williams	Northeast Natural Energy, LLC	12.5% or Greater	1486	144
G	WV-061-005323-004	Sue Ann Strickland	Northeast Natural Energy, LLC	12.5% or Greater	1483	485
G	WV-061-003325-004	Susan Gail Moore	Northeast Natural Energy, LLC	12.5% or Greater	1503	104
G	WV-061-002401-008	Susan L. Michael	Northeast Natural Energy, LLC	12.5% or Greater	1441	724
G	WV-061-001035-027	Tana D. Butler	Northeast Natural Energy, LLC	12.5% or Greater	1493	891
G	WV-061-001035-036	Teresa Jane Swanson	Northeast Natural Energy, LLC	12.5% or Greater	1503	870
G	WV-061-003934-009	Thomas D. Jones	Northeast Natural Energy, LLC	12.5% or Greater	1636	217
G	WV-061-001035-030	Todd A. Rupert	Northeast Natural Energy, LLC	12.5% or Greater	1498	209
G	WV-061-001035-010	Wilma G. Williams	Northeast Natural Energy, LLC	12.5% or Greater	1485	364
G	WV-061-003325-010	Linda L. Barker	Northeast Natural Energy, LLC	12.5% or Greater	1503	96
G	WV-061-004072-006	Linda Lee Brown	Northeast Natural Energy, LLC	12.5% or Greater	1566	333

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
G	WV-061-003325-009	Susan R. Edwards	Northeast Natural Energy, LLC	12.5% or Greater	1503	94
G	WV-061-001035-031	Beulah Farley	Northeast Natural Energy, LLC	12.5% or Greater	1498	363
G	WV-061-001035-023	Charles A. Filbey	Northeast Natural Energy, LLC	12.5% or Greater	1594	222
G	WV-061-001035-029	Gary R. Filbey	Northeast Natural Energy, LLC	12.5% or Greater	1495	5
G	WV-061-001035-009	Janet L. Filbey	Northeast Natural Energy, LLC	12.5% or Greater	1485	175
G	WV-061-001035-009	Richard L. Filbey	Northeast Natural Energy, LLC	12.5% or Greater	1485	175
G	WV-061-003325-015	Ronald D. Gump Jr.	Northeast Natural Energy, LLC	12.5% or Greater	1503	819
G	WV-061-004072-002	Deborah A. Haught	Northeast Natural Energy, LLC	12.5% or Greater	1565	513
G	WV-061-001035-045	Susan Lynn James	Northeast Natural Energy, LLC	12.5% or Greater	1638	466
G	WV-061-002430-003	Michelle Dawn Johnson	Northeast Natural Energy, LLC	12.5% or Greater	1446; 1447	621; 457
G	WV-061-001035-038	Charles R. Miller	Northeast Natural Energy, LLC	12.5% or Greater	1505	121
G	WV-061-001035-034	Donald L. Miller	Northeast Natural Energy, LLC	12.5% or Greater	1505	269
G	WV-061-004072-008	David Nicholson	Northeast Natural Energy, LLC	12.5% or Greater	1566	696
G	WV-061-004072-001	James E. Nicholson	Northeast Natural Energy, LLC	12.5% or Greater	1565	515
G	WV-061-004072-003	Jeffrey L. Nicholson	Northeast Natural Energy, LLC	12.5% or Greater	1565	849
G	WV-061-004072-005	Joseph B. Nicholson	Northeast Natural Energy, LLC	12.5% or Greater	1565	517
G	WV-061-001035-011	Martha T. Price	Northeast Natural Energy, LLC	12.5% or Greater	1485	362
G	WV-061-004072-004	Charlotta M. Simpson	Northeast Natural Energy, LLC	12.5% or Greater	1566	1
G	WV-061-003325-012	Rhonda E. Taylor	Northeast Natural Energy, LLC	12.5% or Greater	1503	645
G	WV-061-001035-037	Bruce M. Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1505	521
G	WV-061-004072-009	Conrad K. Tennant Jr.	Northeast Natural Energy, LLC	12.5% or Greater	1566	733
G	WV-061-005419-001	Sharon Kay Bussineau	Northeast Natural Energy, LLC	12.5% or Greater	1648	251
G	WV-061-001035-040	Mark B. Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1505	383
G	WV-061-001035-039	Wayne Tennant Jr.	Northeast Natural Energy, LLC	12.5% or Greater	1510	87
G	WV-061-002430-004	Diane Beth Thomas	Northeast Natural Energy, LLC	12.5% or Greater	1446; 1447	621; 478
G	WV-061-001035-014	Patricia Van Tassell	Northeast Natural Energy, LLC	12.5% or Greater	1486	148
G	WV-061-003325-008	Joyce Walls	Northeast Natural Energy, LLC	12.5% or Greater	1502	746
G	WV-061-004072-007	Diana S. Walsh	Northeast Natural Energy, LLC	12.5% or Greater	1566	741
G	WV-061-002430-002	Jarrod Williams	Northeast Natural Energy, LLC	12.5% or Greater	1447	400
G	WV-061-001035-046	Jean Williams	Northeast Natural Energy, LLC	12.5% or Greater	1641	298
G	WV-061-001035-033	Peggy L. Williams	Northeast Natural Energy, LLC	12.5% or Greater	1503	844
G	WV-061-005519-001	Toby Williams	Northeast Natural Energy, LLC	12.5% or Greater	1654	254
G	WV-061-001035-042	Marsha Catherine Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1521	169
H	WV-061-001051-001	Barry D. Yost	Northeast Natural Energy, LLC	12.5% or Greater	1502	660
H	WV-061-001051-001	Betty Gall Sutphin	Northeast Natural Energy, LLC	12.5% or Greater	1510	89
H	WV-061-001051-001	Carrie M. Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1497	710
H	WV-061-001051-001	Charlotte Ann Cayavec	Northeast Natural Energy, LLC	12.5% or Greater	1511	552
H	WV-061-001051-001	Christina Stitchick	Northeast Natural Energy, LLC	12.5% or Greater	1497	706
H	WV-061-001051-001	Connie L. White	Northeast Natural Energy, LLC	12.5% or Greater	1503	672
H	WV-061-001051-001	Connie S. Copeland	Northeast Natural Energy, LLC	12.5% or Greater	1497	704
H	WV-061-001051-001	David Yost	Northeast Natural Energy, LLC	12.5% or Greater	1503	676
H	WV-061-001051-001	Dennis L. Yost	Northeast Natural Energy, LLC	12.5% or Greater	1502	664
H	WV-061-001051-001	Donny L. Moore	Northeast Natural Energy, LLC	12.5% or Greater	1503	684
H	WV-061-001051-001	Danny J. Yost	Northeast Natural Energy, LLC	12.5% or Greater	1506	88
H	WV-061-001051-001	Diana L. Fulps	Northeast Natural Energy, LLC	12.5% or Greater	1505	531
H	WV-061-001051-001	Ellen R. Yost	Northeast Natural Energy, LLC	12.5% or Greater	1497	668
H	WV-061-001051-001	G. Edward Stiles	Northeast Natural Energy, LLC	12.5% or Greater	1502	658

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H	WV-061-001051-001	Ida M. Yost Osecky	Northeast Natural Energy, LLC	12.5% or Greater	1500	438
H	WV-061-001051-001	Jack L. Yost	Northeast Natural Energy, LLC	12.5% or Greater	1497	712
H	WV-061-001051-001	Jessica McAninch	Northeast Natural Energy, LLC	12.5% or Greater	1497	708
H	WV-061-001051-001	Jill Renee Maley	Northeast Natural Energy, LLC	12.5% or Greater	1503	678
H	WV-061-001051-001	Jim Fae Yost	Northeast Natural Energy, LLC	12.5% or Greater	1500	407
H	WV-061-001051-001	Jodie Lynn Maley Smith	Northeast Natural Energy, LLC	12.5% or Greater	1503	674
H	WV-061-001051-001	Larry L. Yost	Northeast Natural Energy, LLC	12.5% or Greater	1497	716
H	WV-061-001051-001	Linn Jarrett	Northeast Natural Energy, LLC	12.5% or Greater	1503	686
H	WV-061-001051-001	Margaret A. Berdine	Northeast Natural Energy, LLC	12.5% or Greater	1631	513
H	WV-061-001051-001	Mark J. Jarrett	Northeast Natural Energy, LLC	12.5% or Greater	1503	680
H	WV-061-001051-001	Michael Stitchick	Northeast Natural Energy, LLC	12.5% or Greater	1523	428
H	WV-061-001051-001	Molly E. Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1500	442
H	WV-061-001051-001	Nancy A. Maggard	Northeast Natural Energy, LLC	12.5% or Greater	1500	405
H	WV-061-001051-001	Norma Jean Stiles	Northeast Natural Energy, LLC	12.5% or Greater	1497	671
H	WV-061-001051-001	Peggy L. Yost	Northeast Natural Energy, LLC	12.5% or Greater	1500	387
H	WV-061-001051-001	Philip D. Yost	Northeast Natural Energy, LLC	12.5% or Greater	1500	409
H	WV-061-001051-001	Randy D. Yost	Northeast Natural Energy, LLC	12.5% or Greater	1497	714
H	WV-061-001051-001	Rhonda Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1503	682
H	WV-061-001051-001	Richard Kyle Yost	Northeast Natural Energy, LLC	12.5% or Greater	1502	662
H	WV-061-001051-001	Robert M. Smith	Northeast Natural Energy, LLC	12.5% or Greater	1506	90
H	WV-061-001051-001	Robin L. Libert	Northeast Natural Energy, LLC	12.5% or Greater	1505	153
H	WV-061-001051-001	Waynetta Jean Parker	Northeast Natural Energy, LLC	12.5% or Greater	1507	240
H	WV-061-001051-001	William Robert Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1507	238
I	WV-061-003260-001	Brian E. and Melissa A. Eddy	Northeast Natural Energy, LLC	12.5% or Greater	1454; 1575	818; 253
J	WV-061-003323-001	Kelli D. Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1502	748
J	WV-061-003323-001	Lorri E. Kuhn	Northeast Natural Energy, LLC	12.5% or Greater	1502	748
J	WV-061-003323-001	Gary D. Yost	Northeast Natural Energy, LLC	12.5% or Greater	1502	748
J	WV-061-003323-003	Peggy Jo Yost	Northeast Natural Energy, LLC	12.5% or Greater	1502	715
J	WV-061-003696-002	Dennis L. Yost	Northeast Natural Energy, LLC	12.5% or Greater	1564	551
J	WV-061-003696-001	David D. Yost	Northeast Natural Energy, LLC	12.5% or Greater	1564	543
J	WV-061-003323-002	Larry L. Yost	Northeast Natural Energy, LLC	12.5% or Greater	1502	713
K	WV-061-003539-003	Charles Edward Bennett Jr.	Northeast Natural Energy, LLC	12.5% or Greater	1538	348
K	WV-061-003539-012	Georgia Ellen Tennant a/k/a Gerogia E. Butcher	Northeast Natural Energy, LLC	12.5% or Greater	1684	434
K	WV-061-003539-004	Amy Lynn Trickett	Northeast Natural Energy, LLC	12.5% or Greater	1568	246
K	WV-061-002472-004	Daniel M. Copeland	Northeast Natural Energy, LLC	12.5% or Greater	1427	190
K	WV-061-002472-002	Jimmie Dell Copeland	Northeast Natural Energy, LLC	12.5% or Greater	1427	130
K	WV-061-003539-006	John Max Copeland III	Northeast Natural Energy, LLC	12.5% or Greater	1641	314
K	WV-061-002472-005	Mary. L Copeland	Northeast Natural Energy, LLC	12.5% or Greater	1425	682
K	WV-061-002472-001	Robert Lyle Copeland	Northeast Natural Energy, LLC	12.5% or Greater	1426	117
K	WV-061-001552-020	Janie Louis Gram	Northeast Natural Energy, LLC	12.5% or Greater	1635	528
K	WV-061-003539-007	Deborah S. Hayhurt	Northeast Natural Energy, LLC	12.5% or Greater	1647	23
K	WV-061-001552-018	Judy Ann Heston	Northeast Natural Energy, LLC	12.5% or Greater	1630	187
K	WV-061-001552-021	Denzil Ray Hibbs	Northeast Natural Energy, LLC	12.5% or Greater	1647	11
K	WV-061-001552-019	Donnie Fay Hibbs	Northeast Natural Energy, LLC	12.5% or Greater	1635	340
K	WV-061-001552-023	John W. Higgins	Northeast Natural Energy, LLC	12.5% or Greater	1647	15
K	WV-061-001552-012;	Paula E. Higgins	Northeast Natural Energy, LLC	12.5% or Greater	1395	96

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K	WV-061-001552-022	Mary L. Ogawa	Northeast Natural Energy, LLC	12.5% or Greater	1647	13
K	WV-061-002479-001	Ruby Jane Simpson	Northeast Natural Energy, LLC	12.5% or Greater	1426	777
K	WV-061-003539-005	Joan Sinclair	Northeast Natural Energy, LLC	12.5% or Greater	1641	312
K	WV-061-003539-013	Robin Delgado	Northeast Natural Energy, LLC	12.5% or Greater	140	371
K	WV-061-003539-009	Cristy Acree	Northeast Natural Energy, LLC	12.5% or Greater	139	448
K	WV-061-003539-014	Brandon Stokes	Northeast Natural Energy, LLC	12.5% or Greater	140	375
K	WV-061-003539-008	Bradley Stokes	Northeast Natural Energy, LLC	12.5% or Greater	1671	366
K	WV-061-003539-011	Jesse Thomas Tennant Jr.	Northeast Natural Energy, LLC	12.5% or Greater	1684	432
K	WV-061-003539-010	Lindsay J. Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1684	430
K	WV-061-001552-017	William L. Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1568	248
K	WV-061-001552-024	Sarah E. Thompson	Northeast Natural Energy, LLC	12.5% or Greater	1650	66
K	WV-061-005629-001	Mary Lou Verbosky	Northeast Natural Energy, LLC	12.5% or Greater	1557	501
L	WV-061-003299-013	Kevin S. Owens	Northeast Natural Energy, LLC	12.5% or Greater	1597	144
L	WV-061-003299-010	Donny L. Moore	Northeast Natural Energy, LLC	12.5% or Greater	1506	41
L	WV-061-003299-014	Linn Jarrett	Northeast Natural Energy, LLC	12.5% or Greater	1653	545
L	WV-061-003299-016	Connie Burch	Northeast Natural Energy, LLC	12.5% or Greater	1653	549
L	WV-061-003299-015	Mark A. Jarrett	Northeast Natural Energy, LLC	12.5% or Greater	1653	547
L	WV-061-003299-012	Margaret A. Berdine	Northeast Natural Energy, LLC	12.5% or Greater	1511	825
L	WV-061-003299-011	Robert M. Smith	Northeast Natural Energy, LLC	12.5% or Greater	1679	252
L	WV-061-003299-007	G. Edward Stiles	Northeast Natural Energy, LLC	12.5% or Greater	1506	424
L	WV-061-003299-005	Jody Lynn Maley Smith	Northeast Natural Energy, LLC	12.5% or Greater	1503	856
L	WV-061-003299-006	Jill Renee Maley	Northeast Natural Energy, LLC	12.5% or Greater	1505	157
L	WV-061-003299-002	Ellen R. Yost	Northeast Natural Energy, LLC	12.5% or Greater	1498	615
L	WV-061-003299-003	Peggy Jo Yost	Northeast Natural Energy, LLC	12.5% or Greater	1500	272
L	WV-061-003299-008	Dennis L. Yost	Northeast Natural Energy, LLC	12.5% or Greater	1505; 1670	165; 170
L	WV-061-003299-004	David D. Yost	Northeast Natural Energy, LLC	12.5% or Greater	1503; 1670	665; 169
L	WV-061-003299-001	Larry L. Yost	Northeast Natural Energy, LLC	12.5% or Greater	1495	896
M	WV-061-003747-001	Mabel Correll Cummins	Northeast Natural Energy, LLC	12.5% or Greater	1542	98
M	WV-061-004379-001	Yost Heritage Inc.	Northeast Natural Energy, LLC	12.5% or Greater	1578	529
M	WV-061-001050-002	Janice L. Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1605	479
N	WV-061-001052-002	YOST HERITAGE	Northeast Natural Energy, LLC	12.5% or Greater	1670	16
O	WV-061-003862-001	Northeast Natural Energy LLC	Northeast Natural Energy, LLC	12.5% or Greater	1560	832
P	WV-061-005714-001	Jeffrey John Moore and Sandra Jean Moore	Northeast Natural Energy, LLC	12.5% or Greater	1639	177
		EQT Production Company	Northeast Natural Energy, LLC		149	643
Q	WV-061-005416-001	H3, LLC	Northeast Natural Energy, LLC	12.5% or Greater	1641	432
Q	WV-061-003457-001	Master Minerals Holdings I, L.P	Northeast Natural Energy, LLC	12.5% or Greater	1513	613
Q	WV-061-005416-002	Shriner's Children Hospital of Sacramento California	Northeast Natural Energy, LLC	12.5% or Greater	136	44
Q	WV-061-003457-002	James Thorne	Northeast Natural Energy, LLC	12.5% or Greater	1605	591
Q	WV-061-004621-001	Westhawk Minerals LLC (DWG Oil and Gas Acquisitions, LLC)	Northeast Natural Energy, LLC	12.5% or Greater	134	217
Q	WV-061-003457-003	Fortune Development	Northeast Natural Energy, LLC	12.5% or Greater	1613	329
R	WV-061-005716-001	James & Arthela Eddy	South Penn Oil Company	12.5% or Greater	*SEE Leasehold Chain	

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S	WV-061-005717-001	Aliakbar Afshari (Daryoush Hooshar and Farzaneh Hassani interest)	EQT Production Company	12.5% or Greater	1509	582
		EQT Production Company	Northeast Natural Energy, LLC		149	643
S	WV-061-005717-001	Pikewood Energy Corporation (Aliakbar Afshari interest)	EQT Production Company	12.5% or Greater	1509	582
		EQT Production Company	Northeast Natural Energy, LLC		149	643
S	WV-061-005717-002	Amir H. Mohammadi (Daryoush Hooshar and Farzaneh Hassani interest)	EQT Production Company	12.5% or Greater	1509	586
		EQT Production Company	Northeast Natural Energy, LLC		149	643
S	WV-061-005717-002	Pikewood Energy Corporation (Amir H. Mohammadi interest)	EQT Production Company	12.5% or Greater	1509	586
		EQT Production Company	Northeast Natural Energy, LLC		149	643
T	WV-061-004555-004	Patricia Statler	Northeast Natural Energy, LLC	12.5% or Greater	1605	690
T	WV-061-004555-001	E. Marie Brunett-Sandridge	Northeast Natural Energy, LLC	12.5% or Greater	1591	710
T	WV-061-004555-003	Richard E. West	Northeast Natural Energy, LLC	12.5% or Greater	1606	84
T	WV-061-004555-005	William E. Boyce	Northeast Natural Energy, LLC	12.5% or Greater	1605	692
T	WV-061-004555-002	Worley D. Moore	Northeast Natural Energy, LLC	12.5% or Greater	1605	688
U	WV-061-005715-001	Douglas H. M. Boggess	EQT Production Company	12.5% or Greater	1565	392
		EQT Production Company	Northeast Natural Energy, LLC		149	643
U	WV-061-005715-002	Pamela Louise Boggess Towns	EQT Production Company	12.5% or Greater	1565	383
		EQT Production Company	Northeast Natural Energy, LLC		149	643
U	WV-061-005715-003	Carolyn Sue Boggess Watson	EQT Production Company	12.5% or Greater	1565	389
		EQT Production Company	Northeast Natural Energy, LLC		149	643
U	WV-061-005715-004	Franklin M. Brand Boggess (Elizabeth M. Boggess interest)	EQT Production Company	12.5% or Greater	1565	395
		EQT Production Company	Northeast Natural Energy, LLC		149	643
V	WV-061-005551-002	Green Mountain Land Ventures, LLC	Northeast Natural Energy, LLC	12.5% or Greater	1732	212
W	WV-061-004235-026	Barbara Jean Dorsen Alcaraz	Northeast Natural Energy, LLC	12.5% or Greater	1671	343
W	WV-061-004235-011	Evelyn Irene Davis Roach	Northeast Natural Energy, LLC	12.5% or Greater	1601	465
W	WV-061-004235-007	Doreatha Lee Bowen Busteed	Northeast Natural Energy, LLC	12.5% or Greater	1600	296
W	WV-061-004235-008	Mildred Marie Gage Hale	Northeast Natural Energy, LLC	12.5% or Greater	1600	624
W	WV-061-004235-022	James Ray Gage	Northeast Natural Energy, LLC	12.5% or Greater	1643	102
W	WV-061-004235-024	Carol Graham	Northeast Natural Energy, LLC	12.5% or Greater	1650	151
W	WV-061-004235-023	Laurna Francis Bacon	Northeast Natural Energy, LLC	12.5% or Greater	1647	569
W	WV-061-004235-010	James Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1601	462
W	WV-061-004235-009	Harlan Oscar Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1600	626
W	WV-061-004235-012	Faye Delores Brown Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1601	737
W	WV-061-004235-013	Anthony Allen Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1601	740
W	WV-061-004235-014	The Guy W. Bowen Sr. and Lora J. Bowen Trust	Northeast Natural Energy, LLC	12.5% or Greater	1601	742

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W	WV-061-004235-015	Alice Renee Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1601	745
W	WV-061-004235-016	Clifton Earl Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1605	678
W	WV-061-004235-017	Darrell Allen Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1605	680
W	WV-061-004555-005	William E. Boyce	Northeast Natural Energy, LLC	12.5% or Greater	1605	692
W	WV-061-004555-001	Elsie Marie Brunett-Sandbridge	Northeast Natural Energy, LLC	12.5% or Greater	1591	710
W	WV-061-004235-004	James Edward Eddy and Ronda Sullivan Eddy	Northeast Natural Energy, LLC	12.5% or Greater	1572	227
W	WV-061-004235-004	James E. Eddy	Northeast Natural Energy, LLC	12.5% or Greater	1570	719
W	WV-061-004235-006	Michael John Eddy and Natalie Eddy	Northeast Natural Energy, LLC	12.5% or Greater	1572	227
W	WV-061-004235-006	Michael J. Eddy	Northeast Natural Energy, LLC	12.5% or Greater	1572	229
W	WV-061-004555-002	Worley D. Moore	Northeast Natural Energy, LLC	12.5% or Greater	1605	688
W	WV-061-004555-004	Patricia A. Statler	Northeast Natural Energy, LLC	12.5% or Greater	1605	690
W	WV-061-004555-003	Richard E. West	Northeast Natural Energy, LLC	12.5% or Greater	1606	84
X	WV-061-005757-001	Joseph John	Northeast Natural Energy, LLC	12.5% or Greater	1732	42
Y	WV-061-004235-015	Alice Renee Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1601	745
Y	WV-061-004235-013	Anthony Allen Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1601	740
Y	WV-061-004235-026	Barbara Jean Alcaraz	Northeast Natural Energy, LLC	12.5% or Greater	1671	343
Y	WV-061-004235-016	Clifton Earl Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1605	678
Y	WV-061-004235-017	Darrell Allen Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1605	680
Y	WV-061-004235-007	Doreatha Lee Bowen Busted	Northeast Natural Energy, LLC	12.5% or Greater	1600	296
Y	WV-061-004235-008	Evelyn Irene Davis Roach	Northeast Natural Energy, LLC	12.5% or Greater	1601	465
Y	WV-061-004235-012	Faye Delores Brown Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1601	737
Y	WV-061-004235-009	Harlan Oscar Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1600	626
Y	WV-061-004235-010	James Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1601	462
Y	WV-061-004235-004	James E. Eddy	Northeast Natural Energy, LLC	12.5% or Greater	1570	719
Y	WV-061-004235-004	James E. Eddy and Ronda S. Eddy	Northeast Natural Energy, LLC	12.5% or Greater	1570	719
Y	WV-061-004235-022	James Ray Gage	Northeast Natural Energy, LLC	12.5% or Greater	1643	102
Y	WV-061-004235-024	Carol Graham	Northeast Natural Energy, LLC	12.5% or Greater	1650	151
Y	WV-061-004235-006	Michael J. Eddy and Natalie A. Eddy	Northeast Natural Energy, LLC	12.5% or Greater	1572	229
Y	WV-061-004235-006	Michael J. Eddy	Northeast Natural Energy, LLC	12.5% or Greater	1572	229
Y	WV-061-004235-008	Mildred M. Hale	Northeast Natural Energy, LLC	12.5% or Greater	1600	624
Y	WV-061-005479-002	Peggy Sue Meschonat	Northeast Natural Energy, LLC	12.5% or Greater	1662	729
Y	WV-061-004235-023	Laurna Francis Bacon	Northeast Natural Energy, LLC	12.5% or Greater	1647	569
Y	WV-061-004235-014	The Guy W. Bowen, Sr. and Lora J. Bowen Trust	Northeast Natural Energy, LLC	12.5% or Greater	1601	742
Y	WV-061-005479-001	Warren S. Floyd	Northeast Natural Energy, LLC	12.5% or Greater	1647	177
Z	WV-061-004504-001	Zachary B. Johnson and Delila M. Johnson	Northeast Natural Energy, LLC	12.5% or Greater	1587	274
Z	WV-061-004235-026	Barbara Jean Dorsen Alcaraz	Northeast Natural Energy, LLC	12.5% or Greater	1671	343
Z	WV-061-004235-008	Evelyn Irene Davis Roach	Northeast Natural Energy, LLC	12.5% or Greater	1601	465
Z	WV-061-004235-007	Doreatha Lee Bowen Busted	Northeast Natural Energy, LLC	12.5% or Greater	1600	296
Z	WV-061-004235-008	Mildred Marie Gage Hale	Northeast Natural Energy, LLC	12.5% or Greater	1600	624
Z	WV-061-004235-022	James Ray Gage	Northeast Natural Energy, LLC	12.5% or Greater	1643	102

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
Z	WV-061-004235-024	Carol Graham	Northeast Natural Energy, LLC	12.5% or Greater	1650	151
Z	WV-061-004235-023	Laurna Francis Bacon	Northeast Natural Energy, LLC	12.5% or Greater	1647	569
Z	WV-061-004235-010	James Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1601	462
Z	WV-061-004235-009	Harlan Oscar Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1600	626
Z	WV-061-004235-012	Faye Delores Brown Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1601	737
Z	WV-061-004235-013	Anthony Allen Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1601	740
Z	WV-061-004235-014	The Guy W. Bowen Sr. and Lora J. Bowen Trust	Northeast Natural Energy, LLC	12.5% or Greater	1601	742
Z	WV-061-004235-015	Alice Renee Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1630	745
Z	WV-061-004235-016	Clifton Earl Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1605	678
Z	WV-061-004235-017	Darrell Allen Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1605	680
Z	WV-061-004235-006	Michael J. Eddy	Northeast Natural Energy, LLC	12.5% or Greater	1572	229
Z	WV-061-004235-004	James Edward Eddy	Northeast Natural Energy, LLC	12.5% or Greater	1570	719
Z	WV-061-004235-004	Ronda Sullivan Eddy	Northeast Natural Energy, LLC	12.5% or Greater	1570	719
Z	WV-061-004235-006	Natalie Eddy	Northeast Natural Energy, LLC	12.5% or Greater	1572	229
AA	WV-061-004504-001	Zachary B. Johnson and Della M. Johnson	Northeast Natural Energy, LLC	12.5% or Greater	1587	274
AA	WV-061-004235-026	Barbara Jean Dorsen Alcaraz	Northeast Natural Energy, LLC	12.5% or Greater	1671	343
AA	WV-061-004235-008	Evelyn Irene Davis Roach	Northeast Natural Energy, LLC	12.5% or Greater	1601	465
AA	WV-061-004235-007	Doreatha Lee Bowen Busteed	Northeast Natural Energy, LLC	12.5% or Greater	1600	296
AA	WV-061-004235-008	Mildred Marie Gage Hale	Northeast Natural Energy, LLC	12.5% or Greater	1600	624
AA	WV-061-004235-022	James Ray Gage	Northeast Natural Energy, LLC	12.5% or Greater	1643	102
AA	WV-061-004235-024	Carol Graham	Northeast Natural Energy, LLC	12.5% or Greater	1650	151
AA	WV-061-004235-023	Laurna Francis Bacon	Northeast Natural Energy, LLC	12.5% or Greater	1647	569
AA	WV-061-004235-010	James Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1601	462
AA	WV-061-004235-009	Harlan Oscar Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1600	626
AA	WV-061-004235-012	Faye Delores Brown Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1601	737
AA	WV-061-004235-013	Anthony Allen Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1601	740
AA	WV-061-004235-014	The Guy W. Bowen Sr. and Lora J. Bowen Trust	Northeast Natural Energy, LLC	12.5% or Greater	1601	742
AA	WV-061-004235-015	Alice Renee Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1601	745
AA	WV-061-004235-016	Clifton Earl Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1605	678
AA	WV-061-004235-017	Darrell Allen Bowen	Northeast Natural Energy, LLC	12.5% or Greater	1605	680
AA	WV-061-004235-006	Michael J. Eddy	Northeast Natural Energy, LLC	12.5% or Greater	1572	229
AA	WV-061-004235-004	James Edward Eddy	Northeast Natural Energy, LLC	12.5% or Greater	1570	719
AA	WV-061-004235-004	Ronda Sullivan Eddy	Northeast Natural Energy, LLC	12.5% or Greater	1570	719
AA	WV-061-004235-006	Natalie Eddy	Northeast Natural Energy, LLC	12.5% or Greater	1572	229

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Grantor, Lessor, etc.	Grantee, Lessee, etc.	Book Type	Book No.	Page No.
James & Arthela Eddy	South Penn Oil Company	Deed	32	195
South Penn Oil Company	South Penn Natural Gas	Deed	304	457
South Penn Natural Gas	South Penn Oil Company	Deed	580	311
South Penn Oil Company, Penzoil Company	Penzoil Company	Miscellaneous	50	573
Penzoil Company	Penzoil Products Company	Assignment	23	280
Penzoil Company	Penzoil Products Company	Assignment	25	145
Penzoil Products Company	Penzoil Exploration and Production	Miscellaneous	53	69
Penzoil Exploration and Production	Devon Energy Production Company, L.P.	*Devon Purchase Penzoil in 1999. Confirmed via WV Secretary of State		
Devon Energy Production Company, L.P.	East Resources Inc.	Deed	1207	146
East Resources Inc.	HG Energy, LLC	Assignment	110	500
East Resources Inc. & HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	123	43
American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Miscellaneous	122	85
Ascent Resources - Marcellus, LLC	EQT Production Company	Assignment	132	166
EQT Production Company	Northeast Natural Energy, LLC	Assignment	149	643

RECEIVED
Office of Oil and Gas
APR 21 2021
WV Department of
Environmental Protection

4706101870

Permit Modification

4706101870

Received date: 4/21/21

Well Name: 8H

Operator: NINE

API: 61-0870

Pad Name: BUNNER

	MODIFIED PERMIT	ORIGINAL PERMIT
TVD	8027	8024
TMD	25115	23340
HL	16229	14487
FW	✓	150', 1100(EL)
SW	✓	1500, 2180
COAL	✓	416,553, 814, 919
CONDUCTOR	✓	100
FRESHWATER	✓	1230
INTERMEDIATE 1	✓	2530
INTERMEDIATE 2		
PRODUCTION	25115	23340

Notes: _____

