



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

Tuesday, June 14, 2022
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 MCCLELLAN 3H
47-061-01884-00-00

Extended Lateral

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', is written over a white background.

James A. Martin
Chief

Operator's Well Number: MCCLELLAN 3H
Farm Name: KLONDIKE REAL ESTATE PARTNERSHIP
U.S. WELL NUMBER: 47-061-01884-00-00
Horizontal 6A New Drill
Date Modification Issued: 6/14/2022

Promoting a healthy environment.

06/17/2022

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

1) Well Operator: Northeast Natural Energy LLC 494498281 Monongalia Battelle Mannington
Operator ID County District Quadrangle

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

3) Farm Name/Surface Owner: McClellan Public Road Access: SR 15/7 (Harvey Run Road)

4) Elevation, current ground: 1,412' Elevation, proposed post-construction: Existing

5) Well Type (a) Gas X Oil NA Underground Storage NA
Other NA

(b) If Gas Shallow X Deep NA
Horizontal X

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 8,000', 103', 3600 PSI

8) Proposed Total Vertical Depth: 8,001'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 23,452'

11) Proposed Horizontal Leg Length: 14,997'

12) Approximate Fresh Water Strata Depths: 50'; 1,122'

13) Method to Determine Fresh Water Depths: Drillers log from offset wells

14) Approximate Saltwater Depths: 1,820'; 2,570'

15) Approximate Coal Seam Depths: 1,107'

16) Approximate Depth to Possible Void (coal mine, karst, other): NA

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

(a) If Yes, provide Mine Info: Name: Marion County Coal Company Mine CK# 79679
Depth: 1,107' Amt \$ 5000
Seam: Pittsburgh Date 5/17/22
Owner: American Consolidated Natural Resources

RECEIVED
Office of Oil and Gas

MAY 31 2022

WV Department of
Environmental Protection

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	100'	100'	CTS
Fresh Water	13-3/8"	New	J-55	54.5	1,440'	1,410'	CTS
Coal					NA	NA	
Intermediate	9-5/8"	New	J-55	36	2,710'	2,680'	CTS
Production	5-1/2"	New	P-110	20	23,452'	24,422'	5578
Tubing	2-7/8"	New	P-110	6.5	NA	8,500'	NA
Liners							

*To cover Red Rock

Kenneth Greynolds Digitally signed by Kenneth Greynolds
 DN: cn = Kenneth Greynolds email = Kenneth.L.Greynolds@wv.gov c = AD O = WVDEP OU = Oil and Gas
 Date: 2022.05.23 15:06:01 -0400

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"	32"	.375"	NA	NA	Class A	1.19
Fresh Water	13-3/8"	17 1/2"	.38"	2,730	500	Class A	1.19
Coal							
Intermediate	9-5/8"	12 3/8"	.395"	3,520	2,800	Class A	1.19
Production	5-1/2"	8 3/4"	.361"	14,360	11,500	50:50 Poz	1.16
Tubing	2-7/8"	NA	.217"	13,870	NA	NA	NA
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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 set 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 casing 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 11,200psi 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): N/A

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

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.

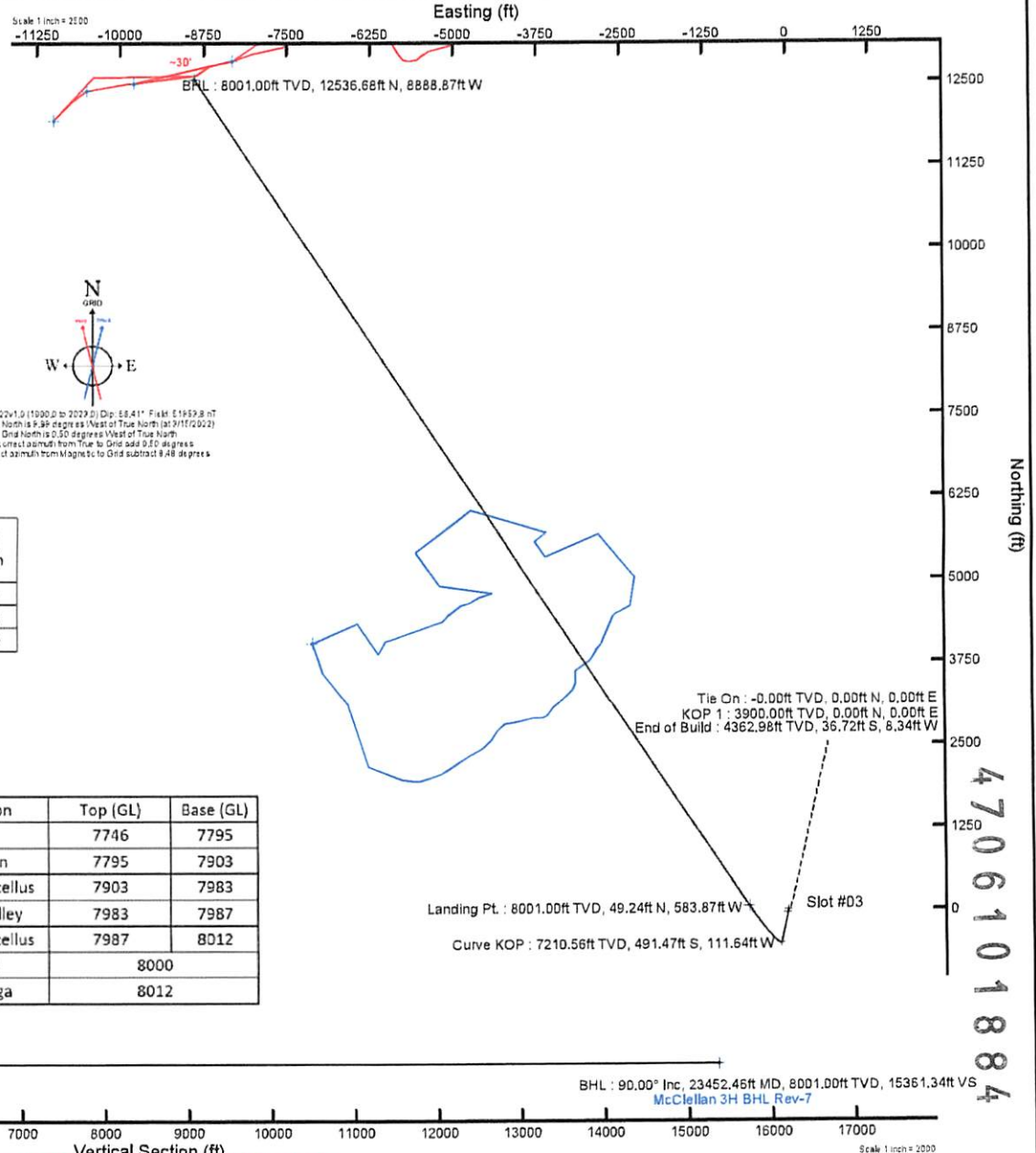
NORTHEAST NATURAL ENERGY, LLC

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

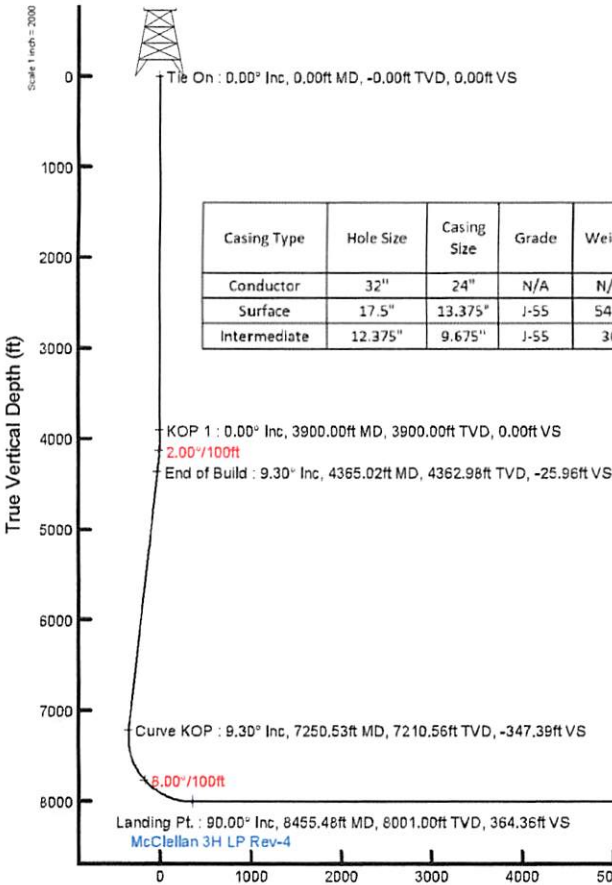
Slot: Slot #03
 Well: McClellan 3H
 Wellbore: McClellan 3H PWB

First reference wellpath is McClellan 3H PWB E-209	Grid System: NAD83 / Lambert West Virginia BF, Northern Zone (4701), US feet
True vertical depths are referenced to Ground Level (GL)	North Reference: Grid north
Reference wellpath measured depths are referenced to Ground Level (GL)	Scale: True diameter
Ground Level (GL) to Mean Sea Level: 1412 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot #03): -1412 feet	Depth are in feet
Offset wellpath NDE are referenced to each path's default MD station	Created by: manojb on 2022-03-17, Database: Wv, MPL, EA-OTERMUS, Data

Location Information						
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude		
McClellan Pad	1748165.200	429461.000	39°27'16.2511"N	80°15'42.8165"W		
Slot	Local E (ft)	Local N (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot #02	10.28	-81.29	1748169.810	429471.180	39°27'16.2046"N	80°15'49.8608"W
Ground Level (GL) to Ground level (At Slot: Slot #02)						0ft
Mean Sea Level to Ground level (At Slot: Slot #02)						-1412ft
Ground Level (GL) to Mean Sea Level						1412ft



HDDM10022v1.0 (19000.0 to 2022.0) Dip: 68.41° Field: E1959.8 nT
 Magnetic North is 6.89 degrees West of True North (at 2/11/2022)
 Grid North is 0.20 degrees West of True North
 To correct azimuth from True to Grid add 0.20 degrees
 To correct azimuth from Magnetic to Grid subtract 6.89 degrees



Casing Type	Hole Size	Casing Size	Grade	Weight	Casing Depth (GL)	Drill Depth
Conductor	32"	24"	N/A	N/A	100	100
Surface	17.5"	13.375"	J-55	54.5	1410	1440
Intermediate	12.375"	9.675"	J-55	36	2680	2710

Formation	Top (GL)	Base (GL)
Tully	7746	7795
Hamilton	7795	7903
Upper Marcellus	7903	7983
Cherry Valley	7983	7987
Lower Marcellus	7987	8012
Target	8000	
Onondaga	8012	

Azimuth 326.37° with reference 0.00 N, 0.00 E

4706101884

McClellan 3H Area of Review

API Number	Well Name	Well Number	Operator	Latitude (NAD 83)	Longitude (NAD 83)	TMP	TVD	Comments
061-00622	Seth Tennant	NA	Consolidation Coal Co.	39.638181	-80.294655	1-24-04	3540	Plugged 8/23/1981
061-00158	Audra Cross	6	Eastern Associated / Peabody Coal Company	39.646164	-80.303771	1-17-09.1	3640	Plugged 12/14/1988
061-00870	AJ Carrothers	5	Eastern Associated / Peabody Coal Company	39.648912	-80.304034	1-17-07	NA	Plugged 9/9/1988
061-00865	Irvin Tennant	2	Eastern Associated / Peabody Coal Company	39.650072	-80.30666	1-18-17	NA	Plugged 6/8/1988
061-00194	Mary F. Tennant	1	Eastern Associated / Peabody Coal Company	39.652737	-80.307418	1-18-17	3214	Plugged 6/23/1987
061-00203	NA	NA	NA	NA	NA	1-18-17	NA	Plugged 12/11/2001

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WELL: McCLELLAN 3H
QUAD: MANNINGTON, WV

4706101884

TOTAL DISTANCE BORED
FROM LP TO BH = 14,997'

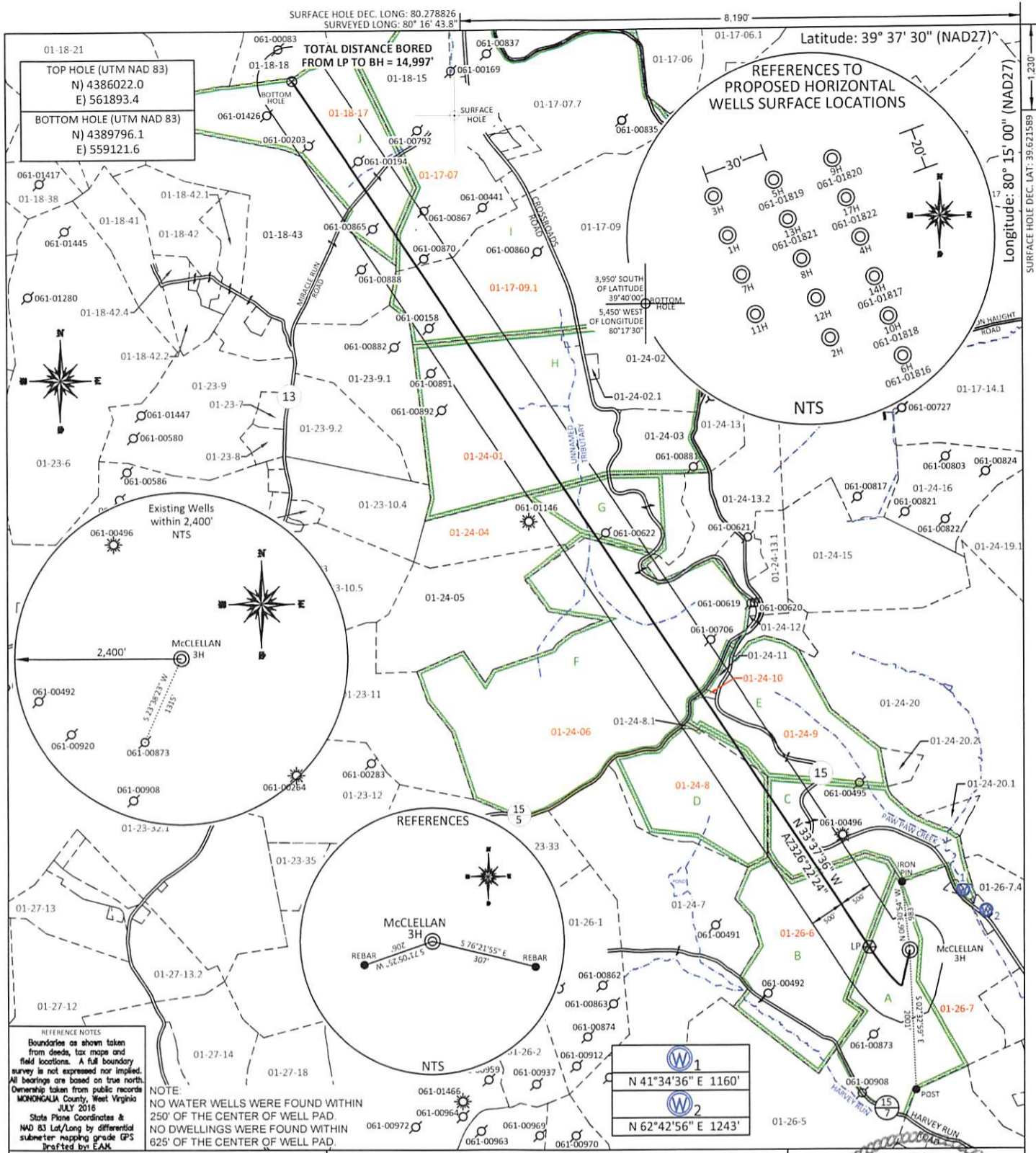
WADESTOWN QUAD
MANNINGTON QUAD

BATTLE

06/17/2022



GRAPHIC SCALE 1"=2,000'

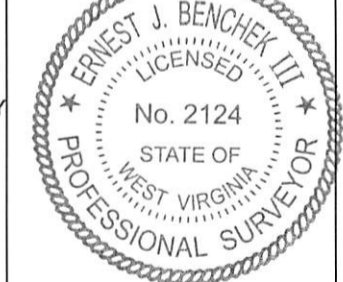


REFERENCE NOTES
 Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records MONONGALIA County, West Virginia JULY 2016
 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS drafted by EAM.

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.

FILE #: NNE14
 DRAWING #: 2996
 SCALE: PLAT: 1" = 2000'
TICK: 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 Dipsal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: UPPER MONONGAHELA
 COUNTY/DISTRICT: MONONGALIA / BATTELLE
 SURFACE OWNER: KLONDIKE REAL ESTATE PARTNERSHIP
 OIL & GAS ROYALTY OWNER: Barbara June Sutton, et al
 LEASE NUMBERS: _____

DATE: MAY 24, 2022
 OPERATOR'S WELL #: McCLELLAN 3H
 API WELL #: 47 61 01884 MOD
 STATE COUNTY PERMIT

AS-BUILT ELEVATION: 1,411.7'
 QUADRANGLE: MANNINGTON
 ACREAGE: 1382.3 +/-
 ACREAGE: 129.4 +/- 06/17/2022

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

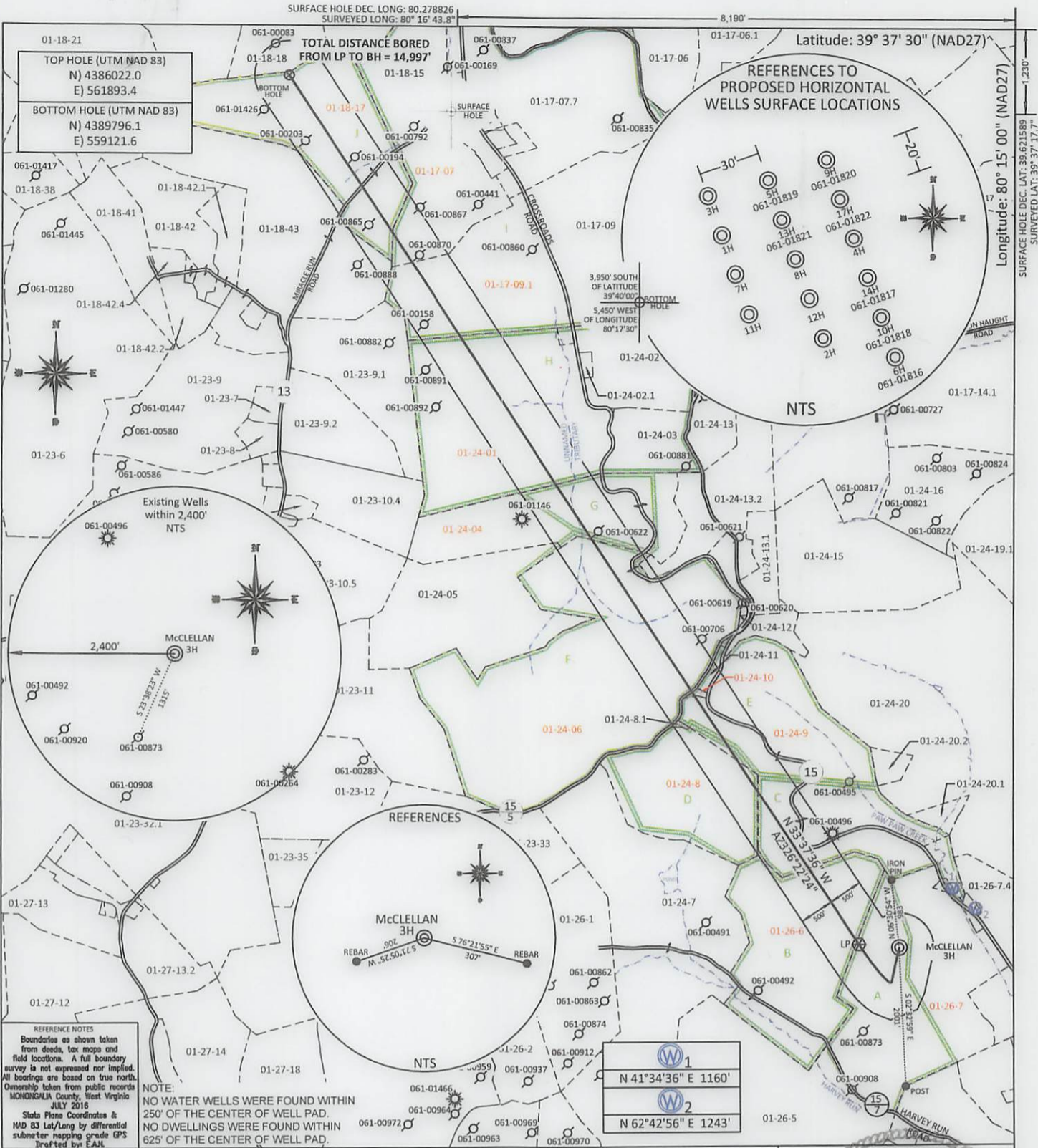
TARGET FORMATION: MARCELLUS
 ESTIMATED DEPTH: TVD: 8,001' TMD: 23,452'
 WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
 DESIGNATED AGENT: JOHN ADAMS
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301
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LEASE INDEX			
A	WV-061-004172-011	F	WV-061-005933-001
B	WV-061-004173-066	G	WV-061-004099-025
C	WV-061-005560-003	H	WV-061-700075-001
D	WV-061-004287-038	I	WV 061 000317 001-LA
E	WV-061-004223-001	J	WV-061-003767-004

06/17/2022

FILE #: NEE14DRAWING #: 2996SCALE: N/ADATE: MAY 24, 2022OPERATOR'S WELL #: McCLELLAN 3HAPI WELL #: 47 61 01884-1100
STATE COUNTY PERMIT



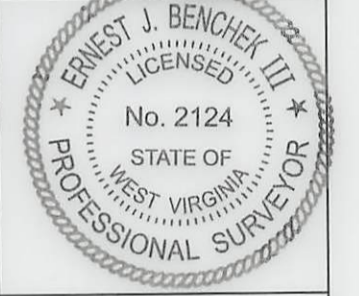
REFERENCE NOTES
 Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records MONONGALIA County, West Virginia JULY 2016
 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS. Drafted by EAM.

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.

W1
 N 41°34'36" E 1160'
 W2
 N 62°42'56" E 1243'

FILE #: NNE14
 DRAWING #: 2996
 SCALE: PLAT: 1" = 2000'
TICK: 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 Disposal Production Deep
 Gas Liquid Injection Storage Shallow

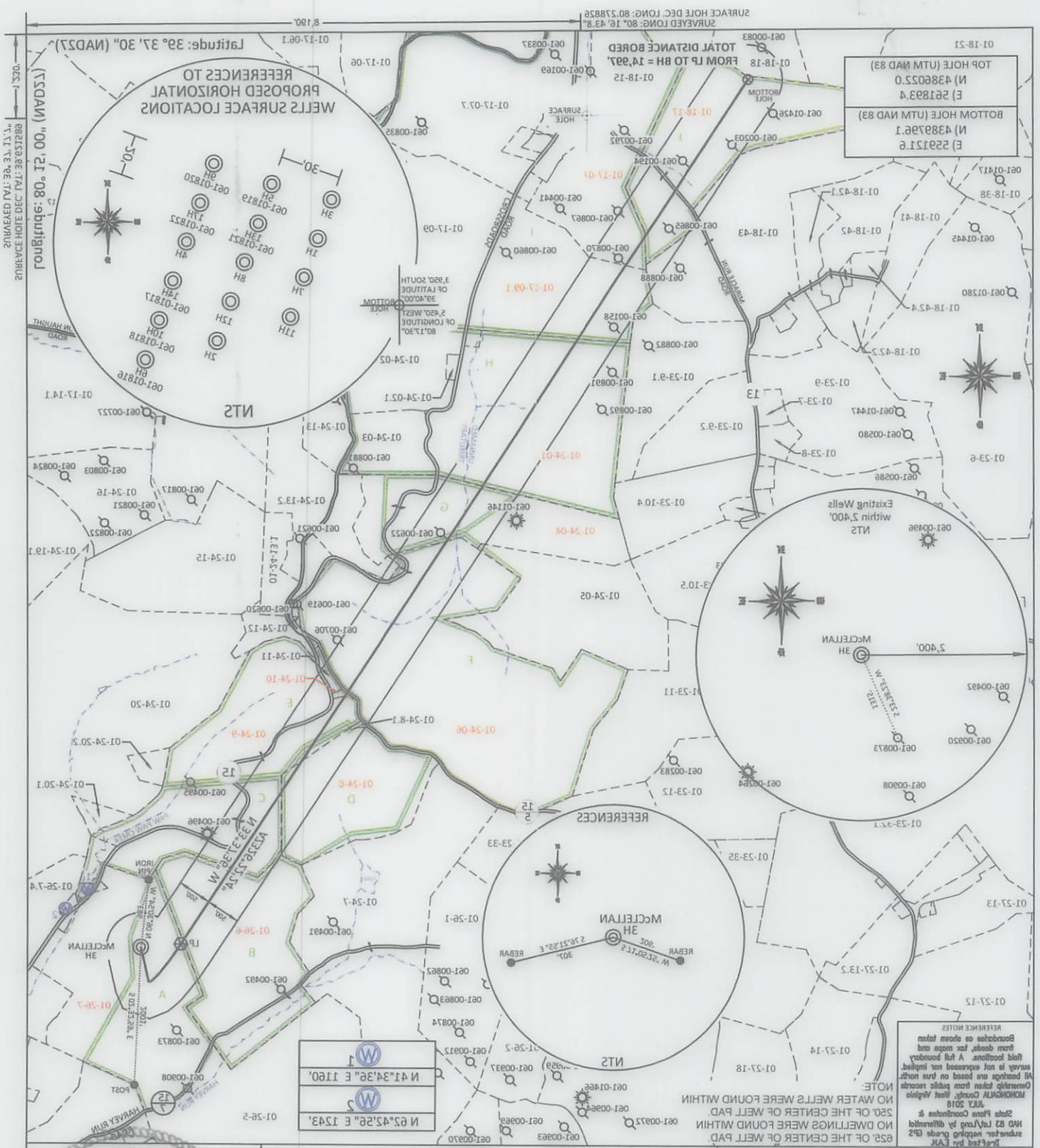
WATERSHED: UPPER MONONGAHELA
 COUNTY/DISTRICT: MONONGALIA / BATTELLE
 SURFACE OWNER: KLONDIKE REAL ESTATE PARTNERSHIP
 OIL & GAS ROYALTY OWNER: Barbara June Sutton, et al
 LEASE NUMBERS: _____

DATE: MAY 24, 2022
 OPERATOR'S WELL #: McCLELLAN 3H
 API WELL #: 47 61 01884 MWD
 STATE COUNTY PERMIT

AS-BUILT ELEVATION: 1,411.7'
 QUADRANGLE: MANNINGTON
 ACREAGE: 1382.3 +/-
 ACREAGE: 129.4 +/-

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: 8,001' TMD: 23,452'
 WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
 DESIGNATED AGENT: JOHN ADAMS
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
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 CITY: CHARLESTON STATE: WV ZIP CODE: 25301
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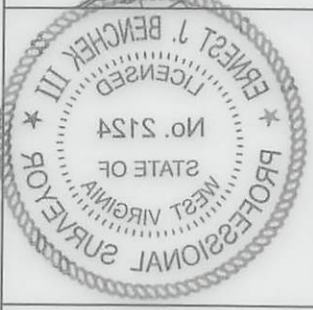
TOP HOLE (UTM NAD 83)
E) 25212.6
N) 438262.1

BOTTOM HOLE (UTM NAD 83)
E) 25193.4
N) 438655.0

W 25207.3
S 23.21° E
302

W 25212.6
S 23.21° E
302

NOTE:
NO DWELLINGS WERE FOUND WITHIN 250' OF THE CENTER OF WELL PAD.
NO WATER WELLS WERE FOUND WITHIN 500' OF THE CENTER OF WELL PAD.
EXISTING WELLS WITHIN 500' OF THE CENTER OF WELL PAD ARE SHOWN WITHIN THIS MAP.
BOUNDARIES ON THIS MAP ARE BASED ON THE MOST RECENT AERIAL PHOTOGRAPHY AVAILABLE TO THE SURVEYOR.
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L.L.S. #2124; Ernest J. Benchek III
Signed: _____
THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY
BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY
PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND
I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS

FILE #:	INE14
DRAWING #:	2996
SCALE:	PLAT: 1" = 2000' TICK: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:	1/200
PROVEN SOURCE OF ELEVATION:	GRADE GPS SUBMETER MAPPING

CITY: CHARLESTON STATE: WV ZIP CODE: 25301
WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
DESIGNATED AGENT: JOHN ADAMS
ESTIMATED DEPTH: TVD: 8,001', TMD: 23,452',
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY):
PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE

LEASE NUMBERS:
OIL & GAS ROYALTY OWNER: Barbara June Sutton, et al
SURFACE OWNER: KLONDIKE REAL ESTATE PARTNERSHIP
COUNTY DISTRICT: MONONGALIA \ BATTLE
WATERSHED: UPPER MONONGAHELA
ELEVATION: 1,411.7'
AS-BUILT
STATE COUNTY PERMIT # 01884 WVD
API WELL #: 47 61
OPERATOR'S WELL #: McCLELLAN 3H
DATE: MAY 24, 2022

06/17/2022

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C	WV-061-005560-003	H	WV-061-700075-001
D	WV-061-004287-038	I	WV 061 000317 001-LA
E	WV-061-004223-001	J	WV-061-003767-004

06/17/2022

FILE #: NEE14
DRAWING #: 2996
SCALE: N/A

DATE: MAY 24, 2022
OPERATOR'S WELL #: McCLELLAN 3H
API WELL #: 47 61 01884 MOD
STATE COUNTY PERMIT

06/17/2022

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1-17-97	JASON L SHRIVER
1-24-17	NELSON DALE & CHERYL LISBETH GALLAGHER
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1-28-8	ROBERT G SANTEE ESTATE
1-28-7	KLONDIKE REAL ESTATE PARTNERSHIP
	PROPERTY OWNER INDEX

			LEASE INDEX
A	WA-061-004175-011	F	WA-061-002933-001
B	WA-061-004173-066	G	WA-061-004099-052
C	WA-061-002560-003	H	WA-061-200025-001
D	WA-061-004587-038	I	WA 061 000317 001-1A
E	WA-061-004553-001	J	WA-061-003262-004

DATE: <u> MAY 24, 2022 </u> OPERATOR'S WELL #: <u> McCLELLAN 3H </u> API WELL #: <u> 47 </u> STATE <u> 61 </u> COUNTY <u> 01884 Mod </u> PERMIT	FILE #: <u> NEE14 </u> DRAWING #: <u> 2996 </u> SCALE: <u> N/A </u>
---	---

WW-6A1
(5/13)

Operator's Well No. McClellan 3H

**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
 By: Hollie Medley *Hollie Medley*
 Its: Regulatory Manager

4706101884

WW-6A1

Operators Well No. McClellan 3H

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
A	WV-061-004172-011	Jerry D. Atwood	Northeast Natural Energy, LLC	12.5% Royalty or More	1568	137
	WV-061-004172-054	Linda Austin	Northeast Natural Energy, LLC	12.5% Royalty or More	1578	385
	WV-061-004172-068	Larry Shaun Barr	Northeast Natural Energy, LLC	12.5% Royalty or More	1581	297
	WV-061-004172-055	Michael P. Barr	Northeast Natural Energy, LLC	12.5% Royalty or More	1578	387
	WV-061-004172-061	Patrick Collin Barr	Northeast Natural Energy, LLC	12.5% Royalty or More	1579	232
	WV-061-004172-021	Danielle Sutton Blalock	Northeast Natural Energy, LLC	12.5% Royalty or More	1570	350
	WV-061-004172-028	Claudia Brown	Northeast Natural Energy, LLC	12.5% Royalty or More	1573	5
	WV-061-004172-092	Deena Brown	Northeast Natural Energy, LLC	12.5% Royalty or More	1590	331
	WV-061-004172-015	Gerold L. Brown	Northeast Natural Energy, LLC	12.5% Royalty or More	1565	727
	WV-061-004172-099	Douglas E. Browning	Northeast Natural Energy, LLC	12.5% Royalty or More	1592	617
	WV-061-004172-004	Peggy Lee Burchett	Northeast Natural Energy, LLC	12.5% Royalty or More	1566	353
	WV-061-004172-013	Eleanor Carroll	Northeast Natural Energy, LLC	12.5% Royalty or More	1565	734
	WV-061-004172-060	Lisa Deanne Picon Carroll	Northeast Natural Energy, LLC	12.5% Royalty or More	1579	229
	WV-061-004172-104	Erin Chacon	Northeast Natural Energy, LLC	12.5% Royalty or More	1595	421
	WV-061-004172-014	Patricia S. Christian	Northeast Natural Energy, LLC	12.5% Royalty or More	1565	729
	WV-061-004172-094	Robin Cornett	Northeast Natural Energy, LLC	12.5% Royalty or More	1591	138
	WV-061-004172-081	Becki Leanne Picon Deskin	Northeast Natural Energy, LLC	12.5% Royalty or More	1585	266
	WV-061-004172-039	Rodana A. Dunfee	Northeast Natural Energy, LLC	12.5% Royalty or More	1655	485
	WV-061-004172-067	Debra C. Edwards	Northeast Natural Energy, LLC	12.5% Royalty or More	1580	574
	WV-061-004172-103	Marie Chacon Evanoff	Northeast Natural Energy, LLC	12.5% Royalty or More	1595	263
	WV-061-004172-072	John Fincke	Northeast Natural Energy, LLC	12.5% Royalty or More	1581	315
	WV-061-004172-065	Linda Sharene Picon Frankford	Northeast Natural Energy, LLC	12.5% Royalty or More	1580	46
	WV-061-004172-036	Coralee Garrett	Northeast Natural Energy, LLC	12.5% Royalty or More	1654	315
	WV-061-004172-023	Robert Alan Garrett	Northeast Natural Energy, LLC	12.5% Royalty or More	1570	356
	WV-061-004172-040	Ruthann Garrett	Northeast Natural Energy, LLC	12.5% Royalty or More	1655	487
	WV-061-004172-034	William David Garrett	Northeast Natural Energy, LLC	12.5% Royalty or More	1655	483
	WV-061-004172-100	Avis Anita Adkins	Northeast Natural Energy, LLC	12.5% Royalty or More	1593	672
	WV-061-004172-046	Sharon K. Gustina	Northeast Natural Energy, LLC	12.5% Royalty or More	1655	493
	WV-061-004172-108	James Hawk	Northeast Natural Energy, LLC	12.5% Royalty or More	1658	668
	WV-061-004172-095	Kevin Hawk	Northeast Natural Energy, LLC	12.5% Royalty or More	1598	375
	WV-061-004172-106	Billie J. Hawk	Northeast Natural Energy, LLC	12.5% Royalty or More	1600	75
	WV-061-004172-098	Steven Hawk	Northeast Natural Energy, LLC	12.5% Royalty or More	1592	615
	WV-061-004172-031	Donna Jean Kelley	Northeast Natural Energy, LLC	12.5% Royalty or More	1655	508
	WV-061-004172-031	JoAnn McClelland	Northeast Natural Energy, LLC	12.5% Royalty or More	1655	512
	WV-061-004172-031	Jerry Lee Johnson	Northeast Natural Energy, LLC	12.5% Royalty or More	1655	514
	WV-061-004172-031	James A. Johnson	Northeast Natural Energy, LLC	12.5% Royalty or More	1655	510
	WV-061-004172-035	Donna M. Engle Kelley	Northeast Natural Energy, LLC	12.5% Royalty or More	1575	290
	WV-061-004172-087	Kelly Kueck	Northeast Natural Energy, LLC	12.5% Royalty or More	1589	230
	WV-061-004172-032	Patti L. Leasure	Northeast Natural Energy, LLC	12.5% Royalty or More	1655	479
	WV-061-004172-006	Cindy Russell Lee	Northeast Natural Energy, LLC	12.5% Royalty or More	1566	357
	WV-061-004172-030	Cynthia Kay Leininger	Northeast Natural Energy, LLC	12.5% Royalty or More	1654	313
	WV-061-004172-008	Tamaree Beatrice Littlefield	Northeast Natural Energy, LLC	12.5% Royalty or More	1566	375
	WV-061-004172-043	Connie Louthen	Northeast Natural Energy, LLC	12.5% Royalty or More	1655	489
	WV-061-004172-044	William Loathen Jr.	Northeast Natural Energy, LLC	12.5% Royalty or More	1655	491
	WV-061-004172-022	AMP IV, LP (Eric Carl Malmgren)	Northeast Natural Energy, LLC	12.5% Royalty or More	1570	352
	WV-061-004172-056	Joyce L. Barr Masser	Northeast Natural Energy, LLC	12.5% Royalty or More	1578	389
	WV-061-004172-007	Karen A. Palencar	Northeast Natural Energy, LLC	12.5% Royalty or More	1566	381
	WV-061-004172-059	Paula Louise Picon	Northeast Natural Energy, LLC	12.5% Royalty or More	1579	227
	WV-061-004172-018	Karen Anita Powers	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	499
	WV-061-004172-052	Frances C. Richie	Northeast Natural Energy, LLC	12.5% Royalty or More	1578	375
	WV-061-004172-005	David Harold Russell	Northeast Natural Energy, LLC	12.5% Royalty or More	1566	355
	WV-061-004172-009	Iris J. Russell	Northeast Natural Energy, LLC	12.5% Royalty or More	1566	385
	WV-061-004172-016	Paulette A. Sawvel	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	495
	WV-061-004172-085	Todd E. Long	Northeast Natural Energy, LLC	12.5% Royalty or More	1587	288
	WV-061-004172-033	Barbara Stover	Northeast Natural Energy, LLC	12.5% Royalty or More	1575	286
	WV-061-004172-001	AMP IV, LP (Barbara June Sutton)	Northeast Natural Energy, LLC	12.5% Royalty or More	1560	223

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
	WV-061-004172-019	David Sutton	Northeast Natural Energy, LLC	12.5% Royalty or More	1570	346
	WV-061-004172-020	Douglas Donald Sutton	Northeast Natural Energy, LLC	12.5% Royalty or More	1570	348
	WV-061-004172-002	AMP IV, LP (Douglas B. Sutton)	Northeast Natural Energy, LLC	12.5% Royalty or More	1560	235
	WV-061-004172-051	Judy Sutton	Northeast Natural Energy, LLC	12.5% Royalty or More	1578	373
	WV-061-004172-003	AMP IV, LP (Stephen R. Sutton)	Northeast Natural Energy, LLC	12.5% Royalty or More	1560	237
	WV-061-004172-002	Babara Uhrig	Northeast Natural Energy, LLC	12.5% Royalty or More	1581	317
	WV-061-004172-012	Darlene W. Vorhis	Northeast Natural Energy, LLC	12.5% Royalty or More	1565	736
	WV-061-004172-083	Jeremy Blake Watson	Northeast Natural Energy, LLC	12.5% Royalty or More	1586	540
	WV-061-004172-102	Kevin Paul Watson	Northeast Natural Energy, LLC	12.5% Royalty or More	1593	675
	WV-061-004172-010	Debra S. Wells	Northeast Natural Energy, LLC	12.5% Royalty or More	1568	135
	WV-061-004172-047	Charles A. Winland	Northeast Natural Energy, LLC	12.5% Royalty or More	1577	41
	WV-061-004172-048	Thomas Winland	Northeast Natural Energy, LLC	12.5% Royalty or More	1577	43
	WV-061-004172-071	William B. Winland	Northeast Natural Energy, LLC	12.5% Royalty or More	1581	313
	WV-061-004172-082	Katie Yaraborough	Northeast Natural Energy, LLC	12.5% Royalty or More	1585	268
B	WV-061-004173-066	Jeffrey Martin	Northeast Natural Energy, LLC	12.5% Royalty or More	1607	580
	WV-061-004173-065	Phillip Martin	Northeast Natural Energy, LLC	12.5% Royalty or More	1607	578
	WV-061-004173-067	Jennifer Martin	Northeast Natural Energy, LLC	12.5% Royalty or More	1607	582
	WV-061-004173-001	Susan Elaine Irving	Northeast Natural Energy, LLC	12.5% Royalty or More	1566	369
	WV-061-004173-006	Michael David Irving	Northeast Natural Energy, LLC	12.5% Royalty or More	1565	711
	WV-061-004173-003	Scott Ryan Irving	Northeast Natural Energy, LLC	12.5% Royalty or More	1566	389
	WV-061-004173-266	Cherisse Marie Mikels Gomez	Northeast Natural Energy, LLC	12.5% Royalty or More	1548	341
	WV-061-004173-190	Theodore Vincent Mikels Jr.	Northeast Natural Energy, LLC	12.5% Royalty or More	1637	56
	WV-061-004173-178	Damain Lawrence Eppele	Northeast Natural Energy, LLC	12.5% Royalty or More	1631	355
	WV-061-004173-177	Lea Nizhoni Eppele	Northeast Natural Energy, LLC	12.5% Royalty or More	1631	353
	WV-061-004173-278	Kayle Nanah Eppele	Northeast Natural Energy, LLC	12.5% Royalty or More	1666	165
	WV-061-004173-068	Marianne Lee Keys	Northeast Natural Energy, LLC	12.5% Royalty or More	1609	379
	WV-061-004173-034	Coral A. Lewitzke	Northeast Natural Energy, LLC	12.5% Royalty or More	1589	707
	WV-061-004173-014	Michael L. Lewitzke	Northeast Natural Energy, LLC	12.5% Royalty or More	1574	390
	WV-061-004173-209	Eva Marie Breshears	Northeast Natural Energy, LLC	12.5% Royalty or More	1636	727
	WV-061-004173-208	Barbara Sue Blessing	Northeast Natural Energy, LLC	12.5% Royalty or More	1636	725
	WV-061-004173-002	James Frank Harvey	Northeast Natural Energy, LLC	12.5% Royalty or More	1566	206
	WV-061-004173-306	Daniel Ray Harvey	Northeast Natural Energy, LLC	12.5% Royalty or More	1684	846
	WV-061-004173-303	Rhonda Ranee Mathes	Northeast Natural Energy, LLC	12.5% Royalty or More	1686	70
	WV-061-004173-305	Robyn Lynette Smith	Northeast Natural Energy, LLC	12.5% Royalty or More	1637	705
	WV-061-004173-314	Ryan Lynn Smith	Northeast Natural Energy, LLC	12.5% Royalty or More	1687	545
	WV-061-004173-305	Karen Kay Wright	Northeast Natural Energy, LLC	12.5% Royalty or More	1686	74
	WV-061-004173-307	Jerry Lee Harvey	Northeast Natural Energy, LLC	12.5% Royalty or More	1686	76
	WV-061-004173-318	Robert Lewis Harvey	Northeast Natural Energy, LLC	12.5% Royalty or More	1688	565
	WV-061-004173-311	Patty Jo Cheney	Northeast Natural Energy, LLC	12.5% Royalty or More	1686	78
	WV-061-004173-264	Kimberly J. Hulverson	Northeast Natural Energy, LLC	12.5% Royalty or More	1648	339
	WV-061-004173-276	Karen J. Busby	Northeast Natural Energy, LLC	12.5% Royalty or More	1657	325
	WV-061-004173-320	Donald H. Harvey	Northeast Natural Energy, LLC	12.5% Royalty or More	1689	421
	WV-061-004173-300	Darrell M. Harvey	Northeast Natural Energy, LLC	12.5% Royalty or More	1683	634
	WV-061-004173-288	Beverly L. Shelley	Northeast Natural Energy, LLC	12.5% Royalty or More	1681	721
	WV-061-004173-317	Leilani Stieb Dill	Northeast Natural Energy, LLC	12.5% Royalty or More	1636	731
	WV-061-004173-319	Linda Stieb Hodge	Northeast Natural Energy, LLC	12.5% Royalty or More	1689	435
	WV-061-004173-127	Steve Richard Harvey	Northeast Natural Energy, LLC	12.5% Royalty or More	1621	538
	WV-061-004173-013	Phil David Harvey	Northeast Natural Energy, LLC	12.5% Royalty or More	1573	491
	WV-061-004173-016	Ken Allen Harvey	Northeast Natural Energy, LLC	12.5% Royalty or More	1578	391
	WV-061-004173-316	Derek Weider	Northeast Natural Energy, LLC	12.5% Royalty or More	1687	549
	WV-061-004173-090	Karen Sue Carter Reed	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	821
	WV-061-004173-070	Jospeh Junior Bingamon	Northeast Natural Energy, LLC	12.5% Royalty or More	1610	489
	WV-061-004173-088	Mary Ann Stemple	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	666
	WV-061-004173-074	Linda K. Rohrig	Northeast Natural Energy, LLC	12.5% Royalty or More	1610	491
	WV-061-004173-073	Linda Marlene Rice	Northeast Natural Energy, LLC	12.5% Royalty or More	1610	822
	WV-061-004173-072	Luann Cornell Shaller	Northeast Natural Energy, LLC	12.5% Royalty or More	1610	820
	WV-061-004173-179	William Edward Fulks	Northeast Natural Energy, LLC	12.5% Royalty or More	1640	564
	WV-061-004173-183	LaVonne Marie Santee Teutsch	Northeast Natural Energy, LLC	12.5% Royalty or More	1631	762

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
	WV-061-004173-186	Laurel Renee Santee Tausiani	Northeast Natural Energy, LLC	12.5% Royalty or More	1637	48
	WV-061-004173-105	Dennis Dean Benson Sr.	Northeast Natural Energy, LLC	12.5% Royalty or More	1618	559
	WV-061-004173-131	Dennis Dean Benson Jr.	Northeast Natural Energy, LLC	12.5% Royalty or More	1621	546
	WV-061-004173-130	Stephanie Elsie Benson	Northeast Natural Energy, LLC	12.5% Royalty or More	1621	544
	WV-061-004173-039	Ramona Imogene Santee Boore	Northeast Natural Energy, LLC	12.5% Royalty or More	1593	677
	WV-061-004173-015	Betty Ann Earl	Northeast Natural Energy, LLC	12.5% Royalty or More	1577	45
	WV-061-004173-008	Mary Willidene Gump	Northeast Natural Energy, LLC	12.5% Royalty or More	1568	446
	WV-061-004173-0184	Elizabeth Ann Gump	Northeast Natural Energy, LLC	12.5% Royalty or More	1631	764
	WV-061-004173-0174	Katherine Louise Gump	Northeast Natural Energy, LLC	12.5% Royalty or More	1635	369
	WV-061-004173-026	Onelta Ann Opyoke	Northeast Natural Energy, LLC	12.5% Royalty or More	1585	175
	WV-061-004173-033	Cary L. Tulanowski	Northeast Natural Energy, LLC	12.5% Royalty or More	1589	176
	WV-061-004173-032	Joey D. Gillespie	Northeast Natural Energy, LLC	12.5% Royalty or More	1589	168
	WV-061-004173-042	Rodney Kuhn	Northeast Natural Energy, LLC	12.5% Royalty or More	1595	423
	WV-061-004173-043	Alice Beatrice McIntosh	Northeast Natural Energy, LLC	12.5% Royalty or More	1595	425
	WV-061-004173-050	Robert Glenn Santee, Jr.	Northeast Natural Energy, LLC	12.5% Royalty or More	1600	573
	WV-061-004173-046	Diana Lynn Eddy	Northeast Natural Energy, LLC	12.5% Royalty or More	1595	431
	WV-061-004173-041	Steven Earl Santee	Northeast Natural Energy, LLC	12.5% Royalty or More	1593	421
	WV-061-004173-045	Richard Harvey Santee	Northeast Natural Energy, LLC	12.5% Royalty or More	1595	429
	WV-061-004173-044	Jason Paul Santee	Northeast Natural Energy, LLC	12.5% Royalty or More	1595	427
	WV-061-004173-028	Sharon K. Houghton	Northeast Natural Energy, LLC	12.5% Royalty or More	1587	292
	WV-061-004173-031	Bennett Edward Haught	Northeast Natural Energy, LLC	12.5% Royalty or More	1589	237
	WV-061-004173-027	Robert Gay Santee	Northeast Natural Energy, LLC	12.5% Royalty or More	1579	290
	WV-061-004173-018	Toby John Williams	Northeast Natural Energy, LLC	12.5% Royalty or More	1579	242
	WV-061-004173-018	Jarred Tyler Williams	Northeast Natural Energy, LLC	12.5% Royalty or More	1579	242
	WV-061-004173-024	Edwin Lee Wright	Northeast Natural Energy, LLC	12.5% Royalty or More	1581	319
	WV-061-004173-017	Daniel Ray Wright	Northeast Natural Energy, LLC	12.5% Royalty or More	1579	240
	WV-061-004173-053	William Mark Wright	Northeast Natural Energy, LLC	12.5% Royalty or More	1600	575
	WV-061-004173-048	Mary Alice Sturm	Northeast Natural Energy, LLC	12.5% Royalty or More	1597	387
	WV-061-004173-047	Seth R. Sturm	Northeast Natural Energy, LLC	12.5% Royalty or More	1597	385
	WV-061-004173-054	David W. Haught, Jr.,	Northeast Natural Energy, LLC	12.5% Royalty or More	1602	21
	WV-061-004173-038	Joseph Bradley Haught	Northeast Natural Energy, LLC	12.5% Royalty or More	1591	660
	WV-061-004173-040	Bonnie Lou Young Friend	Northeast Natural Energy, LLC	12.5% Royalty or More	1593	419
	WV-061-004173-189	Vernon Wayne Santee	Northeast Natural Energy, LLC	12.5% Royalty or More	1637	54
	WV-061-004173-210	Beverly Jane Santee Clutter	Northeast Natural Energy, LLC	12.5% Royalty or More	1636	729
	WV-061-004173-297	Donna Marie O'Brien	Northeast Natural Energy, LLC	12.5% Royalty or More	1683	628
	WV-061-004173-270	Donald L. Dawley	Northeast Natural Energy, LLC	12.5% Royalty or More	1622	274
	WV-061-004173-188	Dorene Larkey	Northeast Natural Energy, LLC	12.5% Royalty or More	1637	52
	WV-061-004173-181	Nancy Elizabeth Dawley	Northeast Natural Energy, LLC	12.5% Royalty or More	1631	758
	WV-061-004173-293	John Alan Santee	Northeast Natural Energy, LLC	12.5% Royalty or More	1683	622
	WV-061-004173-229	James Michael Ryder	Northeast Natural Energy, LLC	12.5% Royalty or More	1637	684
	WV-061-004173-228	Patrick Barry Ryder	Northeast Natural Energy, LLC	12.5% Royalty or More	1637	682
	WV-061-004173-263	Jeffrey Lee Ryder	Northeast Natural Energy, LLC	12.5% Royalty or More	1648	337
	WV-061-004173-289	Jeanne Rush Santee	Northeast Natural Energy, LLC	12.5% Royalty or More	1683	548
	WV-061-004173-298	Elaine B. Santee	Northeast Natural Energy, LLC	12.5% Royalty or More	1683	630
	WV-061-004173-203	Beverly A. Hammerstrom	Northeast Natural Energy, LLC	12.5% Royalty or More	1636	715
	WV-061-004173-195	Pamela M. Malaragno	Northeast Natural Energy, LLC	12.5% Royalty or More	1636	112
	WV-061-004173-290	Paul Lenny Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1683	550
	WV-061-004173-313	Dane Allen Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1687	543
	WV-061-004173-187	Thelma Maxine Webb	Northeast Natural Energy, LLC	12.5% Royalty or More	1637	50
	WV-061-004173-204	Shelley A. Showers	Northeast Natural Energy, LLC	12.5% Royalty or More	1636	717
	WV-061-004173-287	Barry L. Gifford	Northeast Natural Energy, LLC	12.5% Royalty or More	1681	719
	WV-061-004173-285	Keith Gifford	Northeast Natural Energy, LLC	12.5% Royalty or More	1681	715
	WV-061-004173-286	Christa Gifford Thompson	Northeast Natural Energy, LLC	12.5% Royalty or More	1681	717
	WV-061-004173-012	Herbert Dale Becker	Northeast Natural Energy, LLC	12.5% Royalty or More	1573	7
	WV-061-004173-009	Robert L. Ruckle (life-estate); Caroline S. Ruckle (remainder); Kathryn P. Mann (remainder); James R. Ruckle (remainder)	Northeast Natural Energy, LLC	12.5% Royalty or More	1575	240
	WV-061-004173-283	James M. Hinerman	Northeast Natural Energy, LLC	12.5% Royalty or More	1680	589
	WV-061-004173-281	Larry Keith Hinerman	Northeast Natural Energy, LLC	12.5% Royalty or More	1680	585
	WV-061-004173-231	Peggy J. Moravec	Northeast Natural Energy, LLC	12.5% Royalty or More	1637	688

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
	WV-061-004173-282	Dennis Ray Hinerman	Northeast Natural Energy, LLC	12.5% Royalty or More	1680	587
	WV-061-004173-294	Betty Lou Doak	Northeast Natural Energy, LLC	12.5% Royalty or More	1683	624
	WV-061-004173-205	David L. Hinerman	Northeast Natural Energy, LLC	12.5% Royalty or More	1636	719
	WV-061-004173-296	Glenn Robert Hinerman	Northeast Natural Energy, LLC	12.5% Royalty or More	1683	636
	WV-061-004173-279	Kay Danna	Northeast Natural Energy, LLC	12.5% Royalty or More	1680	619
	WV-061-004173-280	Krissie Brownlee	Northeast Natural Energy, LLC	12.5% Royalty or More	1680	583
	WV-061-004173-206	Sandra Ann Hinerman	Northeast Natural Energy, LLC	12.5% Royalty or More	1636	721
	WV-061-004173-292	Jodie A. Hinerman Shrontz	Northeast Natural Energy, LLC	12.5% Royalty or More	1683	620
	WV-061-004173-291	Michael Scott Hinerman	Northeast Natural Energy, LLC	12.5% Royalty or More	1683	618
	WV-061-004173-207	Janet Marlene Stewart Hinerman	Northeast Natural Energy, LLC	12.5% Royalty or More	1636	723
	WV-061-004173-284	Westlake Energy Partners LLC	Northeast Natural Energy, LLC	12.5% Royalty or More	1680	591
	WV-061-004173-310	Robert Ray Hinerman	Northeast Natural Energy, LLC	12.5% Royalty or More	1685	3
	WV-061-004173-308	Marsha Ann Delaney	Northeast Natural Energy, LLC	12.5% Royalty or More	1684	848
	WV-061-004173-309	Lori Lea Hinerman Harvey	Northeast Natural Energy, LLC	12.5% Royalty or More	1685	1
	WV-061-004173-299	John Marvin Hinerman	Northeast Natural Energy, LLC	12.5% Royalty or More	1683	632
	WV-061-004173-004	Sharon Louise Goodwin	Northeast Natural Energy, LLC	12.5% Royalty or More	1565	449
	WV-061-004173-005	Roberta A. MacCallum	Northeast Natural Energy, LLC	12.5% Royalty or More	1565	428
	WV-061-004173-007	Richard C. Wells	Northeast Natural Energy, LLC	12.5% Royalty or More	1565	765
	WV-061-004173-158	Dwight Jr "Bud" Briningner	Northeast Natural Energy, LLC	12.5% Royalty or More	1626	29
	WV-061-004173-157	Lori Clark	Northeast Natural Energy, LLC	12.5% Royalty or More	1626	27
	WV-061-004173-035	Betty Lou Rice	Northeast Natural Energy, LLC	12.5% Royalty or More	1589	525
	WV-061-004173-150	Terry W. Keeney	Northeast Natural Energy, LLC	12.5% Royalty or More	1626	15
	WV-061-004173-029	Betty L. Carr Briningner	Northeast Natural Energy, LLC	12.5% Royalty or More	1587	368
	WV-061-004173-019	Stella Ann Morford	Northeast Natural Energy, LLC	12.5% Royalty or More	1580	50
	WV-061-004173-176	Audrey Ann Santee Beighey	Northeast Natural Energy, LLC	12.5% Royalty or More	1635	373
	WV-061-004173-166	Rebecca L. Santee	Northeast Natural Energy, LLC	12.5% Royalty or More	1628	221
	WV-061-004173-120	Renee Elenn Santee Holmes	Northeast Natural Energy, LLC	12.5% Royalty or More	1620	479
	WV-061-004173-124	Suzetta Mary Santee Taylor	Northeast Natural Energy, LLC	12.5% Royalty or More	1621	535
	WV-061-004173-137	Tomie Dee Santee	Northeast Natural Energy, LLC	12.5% Royalty or More	1622	539
	WV-061-004173-165	Thomas Daniel Santee II	Northeast Natural Energy, LLC	12.5% Royalty or More	1628	219
	WV-061-004173-154	Stephen Michael Santee	Northeast Natural Energy, LLC	12.5% Royalty or More	1593	421
	WV-061-004173-037	Family Tree Corporation	Northeast Natural Energy, LLC	12.5% Royalty or More	1591	658
	WV-061-004173-101	Katherine Jane Santee Huffman	Northeast Natural Energy, LLC	12.5% Royalty or More	1617	795
	WV-061-004173-049	Vera Jean Slater	Northeast Natural Energy, LLC	12.5% Royalty or More	1600	17
	WV-061-004173-171	Betty Anderson Santee	Northeast Natural Energy, LLC	12.5% Royalty or More	1630	5
	WV-061-004173-162	Sean Evan Thomas	Northeast Natural Energy, LLC	12.5% Royalty or More	1628	345
	WV-061-004173-077	John Dylan Swope	Northeast Natural Energy, LLC	12.5% Royalty or More	1612	841
	WV-061-004173-149	Terri Swope-Shussler	Northeast Natural Energy, LLC	12.5% Royalty or More	1626	13
	WV-061-004173-133	Molly C. Swope Villanueva	Northeast Natural Energy, LLC	12.5% Royalty or More	1622	523
	WV-061-004173-058	Marsha Pavey	Northeast Natural Energy, LLC	12.5% Royalty or More	1604	102
	WV-061-004173-061	Mary Jean Lolatte	Northeast Natural Energy, LLC	12.5% Royalty or More	1604	108
	WV-061-004173-059	Odie Deron Kendrick III	Northeast Natural Energy, LLC	12.5% Royalty or More	1604	104
	WV-061-004173-060	Billy Paul Kendrick	Northeast Natural Energy, LLC	12.5% Royalty or More	1604	106
	WV-061-004173-011	Edna Jeanette Webb	Northeast Natural Energy, LLC	12.5% Royalty or More	1571	37
	WV-061-004173-321	Sandy Skartsiaris	Northeast Natural Energy, LLC	12.5% Royalty or More	1694	643
	WV-061-004173-324	Steven Griffioen	Northeast Natural Energy, LLC	12.5% Royalty or More	1725	725
	WV-061-004173-194	Kenneth Griffioen	Northeast Natural Energy, LLC	12.5% Royalty or More	1636	110
	WV-061-004173-193	Ronald Griffioen	Northeast Natural Energy, LLC	12.5% Royalty or More	1636	108
	WV-061-004173-182	Debra L. Santee	Northeast Natural Energy, LLC	12.5% Royalty or More	1631	760
C	WV-061-005560-003	Marileasa Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1692	319
	WV-061-005654-001	XTO Energy, Inc.	Northeast Natural Energy, LLC	12.5% Royalty or More	1698	693
	WV-061-005560-001	Rodney Russell Martin	Northeast Natural Energy, LLC	12.5% Royalty or More	1706	297
	WV-061-005560-009	Linda Levine	Northeast Natural Energy, LLC	12.5% Royalty or More	1706	287
	WV-061-005560-008	Pamela Elsey	Northeast Natural Energy, LLC	12.5% Royalty or More	1706	285
	WV-061-005560-010	Crystal Leah Elsey Davidson	Northeast Natural Energy, LLC	12.5% Royalty or More	1706	289
	WV-061-005560-012	James Randall Elsey	Northeast Natural Energy, LLC	12.5% Royalty or More	1706	293
	WV-061-005560-013	Jennifer Ann Ochwat	Northeast Natural Energy, LLC	12.5% Royalty or More	1706	295
	WV-061-005560-011	Deborah Elsey	Northeast Natural Energy, LLC	12.5% Royalty or More	1706	291

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
	WV-061-005560-004	Lynda William Tennant - Statutory Lease	Northeast Natural Energy, LLC	12.5% Royalty or More	142	454
	WV-061-005560-007	Donald G. Tennant II	Northeast Natural Energy, LLC	12.5% Royalty or More	1706	283
	WV-061-005560-004	Cory Adam Dintaman - Statutory Lease	Northeast Natural Energy, LLC	12.5% Royalty or More	142	450
	WV-061-005560-006	Craig Alan Dintaman - Statutory Lease	Northeast Natural Energy, LLC	12.5% Royalty or More	142	458
D	WV-061-004287-038	Gary Lee Eddy	Northeast Natural Energy, LLC	12.5% Royalty or More	1608	830
	WV-061-004287-037	Donna Eddy	Northeast Natural Energy, LLC	12.5% Royalty or More	1608	828
	WV-061-004287-001	Catherine Franks	Northeast Natural Energy, LLC	12.5% Royalty or More	1572	36
	WV-061-004287-022	Shirley Miller	Northeast Natural Energy, LLC	12.5% Royalty or More	1580	137
	WV-061-004287-020	Marlene Smalley	Northeast Natural Energy, LLC	12.5% Royalty or More	1578	409
	WV-061-004938-003	Judith Emrich	Northeast Natural Energy, LLC	12.5% Royalty or More	1614	59
	WV-061-004938-001	Sharon Newton	Northeast Natural Energy, LLC	12.5% Royalty or More	1614	55
	WV-061-004938-002	Michael Toothman	Northeast Natural Energy, LLC	12.5% Royalty or More	1614	57
	WV-061-004287-024	Turner Family Trust	Northeast Natural Energy, LLC	12.5% Royalty or More	1580	72
E	WV-061-004223-001	Marileasa Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1568	394
F	WV-061-005933-001	EQT	Northeast Natural Energy, LLC	12.5% Royalty or More	1772	481
G	WV-061-004099-025	Nancy Lawler, a/k/a Nancy B. Lawler	Northeast Natural Energy, LLC	12.5% Royalty or More	138; 138	156; 168
	WV-061-004099-026	Ruth Ann Burns, a/k/a Ruth Burns	Northeast Natural Energy, LLC	12.5% Royalty or More	138; 138	156; 168
	WV-061-004099-001	The Burns Family General Partnership	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	472
	WV-061-005781-001	Emory Peak Minerals LLC (Ridgetop Appalachia LLC interest)	Northeast Natural Energy, LLC	12.5% Royalty or More	1745	609
	WV-061-005457-002	Equinor	Northeast Natural Energy, LLC	12.5% Royalty or More	1640	801
	WV-061-004099-023	James Holden Campbell	Northeast Natural Energy, LLC	12.5% Royalty or More	1629	128
	WV-061-004099-024	Margaret Ruth Campbell D'Onofrio	Northeast Natural Energy, LLC	12.5% Royalty or More	1635	361
	WV-061-004099-021	James Edward Nicholas	Northeast Natural Energy, LLC	12.5% Royalty or More	1588	404
	WV-061-004099-012	Joseph Edwin Hall II	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	676
	WV-061-004099-017	Jeffrey Joseph Rigby	Northeast Natural Energy, LLC	12.5% Royalty or More	1571	584
	WV-061-004099-020	Jerry Robert Rigby	Northeast Natural Energy, LLC	12.5% Royalty or More	1585	187
	WV-061-004099-019	Joel Eric Rigby	Northeast Natural Energy, LLC	12.5% Royalty or More	1572	846
	WV-061-004099-015	Janice Marie Rigby Page	Northeast Natural Energy, LLC	12.5% Royalty or More	1570	701
	WV-061-004099-014	Jack Albert Graham	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	501
	WV-061-004099-013	James Michael Graham	Northeast Natural Energy, LLC	12.5% Royalty or More	1568	575
	WV-061-004099-022	Jean Ann Graham Gaunce	Northeast Natural Energy, LLC	12.5% Royalty or More	1640	464
	WV-061-004099-011	Susan Ann Derda Graham	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	674
	WV-061-004099-007	Betty Jean Bernstein, f/k/a Betty Jean Hall	Northeast Natural Energy, LLC	12.5% Royalty or More	1566	537
	WV-061-004099-027	Joseph A. Hall, Sr, a/k/a Joseph Alan Hall, Sr.	Northeast Natural Energy, LLC	12.5% Royalty or More	1650	137
	WV-061-004358-014	Susan K. Skinner	Northeast Natural Energy, LLC	12.5% Royalty or More	1602	201
	WV-061-004358-011	Linda L. Bellile Banks	Northeast Natural Energy, LLC	12.5% Royalty or More	1601	502
	WV-061-004358-012	Pamela Harris	Northeast Natural Energy, LLC	12.5% Royalty or More	1601	504
	WV-061-004358-013	Teena Cooke	Northeast Natural Energy, LLC	12.5% Royalty or More	1602	25
	WV-061-004358-007	The Robert and Lou Atha Trust, Lou Atha as trustee	Northeast Natural Energy, LLC	12.5% Royalty or More	1530	435
	WV-061-004358-001	Thomas M. Atha	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	474
	WV-061-004358-004	Rebel Leigh Wetmore Clair	Northeast Natural Energy, LLC	12.5% Royalty or More	1576	566
	WV-061-004358-009	WOG Minerals, LLC	Northeast Natural Energy, LLC	12.5% Royalty or More	1581	343
	WV-061-004358-006	Kristina Hellyer Dow	Northeast Natural Energy, LLC	12.5% Royalty or More	1580	438
	WV-061-004358-003	Kathleen Atha	Northeast Natural Energy, LLC	12.5% Royalty or More	1576	478
	WV-061-004099-003	Basnett Oil and Gas LLC	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	518
	WV-061-004099-005	Basnett Oil and Gas LLC	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	509
	WV-061-004716-001	Francis Gregory Swisher and Theresa Irene Swisher, f/k/a Theresa Tuttle	Northeast Natural Energy, LLC	12.5% Royalty or More	1618	340
	WV-061-004410-015	Flora C. Acker	Northeast Natural Energy, LLC	12.5% Royalty or More	1609	383
	WV-061-004410-011	Sandra Rogers	Northeast Natural Energy, LLC	12.5% Royalty or More	1595	134
	WV-061-004410-009	Barbara Mounts	Northeast Natural Energy, LLC	12.5% Royalty or More	1595	130
	WV-061-004419-010	Mabel Jean Porter	Northeast Natural Energy, LLC	12.5% Royalty or More	1595	132
	WV-061-004410-013	Three Rivers Royalty II	Northeast Natural Energy, LLC	12.5% Royalty or More	1605	721
	WV-061-004410-003	Barbara K. Hoover	Northeast Natural Energy, LLC	12.5% Royalty or More	1591	177
	WV-061-004410-004	Deborah L. DeGarmo	Northeast Natural Energy, LLC	12.5% Royalty or More	1591	179
	WV-061-004410-002	Ruby W. Verno	Northeast Natural Energy, LLC	12.5% Royalty or More	1591	175
	WV-061-004410-006	Salena Baumgartner	Northeast Natural Energy, LLC	12.5% Royalty or More	1591	183
	WV-061-004410-014	Willard L. Dorsey, Jr.	Northeast Natural Energy, LLC	12.5% Royalty or More	1608	832
	WV-061-004410-012	Three Rivers Royalty II	Northeast Natural Energy, LLC	12.5% Royalty or More	1596	753

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	WV-061-004410-007	Natalie C. Durbin	Northeast Natural Energy, LLC	12.5% Royalty or More	1591	185
	WV-061-004410-005	Joseph G. Dorsey	Northeast Natural Energy, LLC	12.5% Royalty or More	1591	181
	WV-061-005136-001	Jimmy Wright	Northeast Natural Energy, LLC	12.5% Royalty or More	1619	635
	WV-061-004410-008	Three Rivers Royalty II (Clyde Kenneth Wright)	Northeast Natural Energy, LLC	12.5% Royalty or More	1591	187
H	WV-061-700075-001	NNESP Properties, LLC	Northeast Natural Energy, LLC	12.5% Royalty or More	1755	34
	WV-061-800075-001	NNE Properties II, LLC	Northeast Natural Energy, LLC	12.5% Royalty or More	1755	34
I	WV 061 000317 001-LA	SWN (Emory Peak Minerals LLC (Ridgetop Appalachia Interest (Haymaker Properties, LP Interest)))	Northeast Natural Energy, LLC	12.5% Royalty or More	1700	201
	WV 061 000317 001-LA	SWN (NNE (Ridgetop Appalachia (Haymaker Properties, LP interest)))	Northeast Natural Energy, LLC	12.5% Royalty or More	1700	201
	WV 061 000317 001-LA	SWN (Equinor (Statoil interest))	Northeast Natural Energy, LLC	12.5% Royalty or More	1700	201
J	WV-061-003767-004	ERP Federal Mining Complex, LLC	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	86