

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, January 10, 2023 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 SULLIVAN 5H 47-061-01918-00-00

Change Lateral Direction

NORTHEAST NATURAL ENERGY LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin Chief

Operator's Well Number: SULLIVAN 5H Farm Name: ALAN SULLIVAN U.S. WELL NUMBER: 47-061-01918-00-00 Horizontal 6A New Drill Date Modification Issued: 01/10/2023

Promoting a healthy environment.

WW-6B (04/15)

CK# 85739 \$15000 Mod Exp Mod
\$15000 Mad
Exp

API NO. 47- 061 _ 01918 Mop OPERATOR WELL NO. 5H Well Pad Name: Sullivan

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

Operator ID County District Quadrangle 2) Operator's Well Number: 5H Well Pad Name: Sullivan 3) Farm Name/Surface Owner: Alan Sullivan Public Road Access: Route 27/1 4) Elevation, current ground: 1,520' Elevation, proposed post-construction: 1,476' 5) Well Type (a) Gas X Oil Underground Storage Other					
 3) Farm Name/Surface Owner: Alan Sullivan Public Road Access: Route 27/1 4) Elevation, current ground: 1,520' Elevation, proposed post-construction: 1,476' 5) Well Type (a) Gas X Oil Underground Storage Other 					
 4) Elevation, current ground: 1,520' Elevation, proposed post-construction: 1,476' 5) Well Type (a) Gas X Oil Underground Storage Other 					
5) Well Type (a) Gas X Oil Underground Storage					
Other					
6) Existing Pad: Yes or No No					
7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s): Marcellus, 8,247', 87', 5200 psi					
8) Proposed Total Vertical Depth: 8,247'					
9) Formation at Total Vertical Depth: Marcellus					
10) Proposed Total Measured Depth: 21,177'					
11) Proposed Horizontal Leg Length: 12,377'					
12) Approximate Fresh Water Strata Depths: 50', 1,262'					
13) Method to Determine Fresh Water Depths: Drillers logs from offset wells					
14) Approximate Saltwater Depths: 2,050', 2,580' JAN 0 9 2023					
15) Approximate Coal Seam Depths: 500', 1,260' WV Department of Environmental Protection					
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 No					
(a) If Yes, provide Mine Info: Name: N/A					
Depth:					
Seam:					
Owner:					

Gayne Digitally signed by Gayne Knitowski Date: 2023.01.06 16:27:25-05:00'

Page 1 of 3

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size</u> (in)	<u>New</u> or <u>Used</u>	Grade	Weight per ft. (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	CEMENT: <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	24"	New	NA	NA	100	100 _	GTS
Fresh Water	13-3/8"	New	J-55	54.5	1,505	1,475* <	CTS
Coal							
Intermediate	9-5/8"	New	J-55	36	2,680	2,650 -	CTS
Production	5-1/2"	New	P-110	20	21,177'	21,147'	4,980
Tubing	2-7/8"	New	P-110	6.5	NA		
Liners							

*depth to cover Red Rock formation

Gayne Digitally signed by Gayne Knitowski Date: 2023.01.06 16:27:42-05'00'

ТҮРЕ	Size (in)	Wellbore Diameter (in)	<u>Wall</u> Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	24"	28	0.375	NA	NA	Type 1	1.18
Fresh Water	13-3/8"	17-1/2"	0.380	2,730	500	Class A or L	1.19
Coal							
Intermediate	9-5/8"	12-3/8"	0.395	3,520	2800	Class A or L	1.19
Production	5-1/2"	8-3/4"	0.361	14,360	11,400	50:50 POZ	1.07
Tubing	2-7/8"	NA	0.217	13,870	NA	NA	NA
Liners							

RECEIVED Office of Oil and Gas

JAN 0 9 2023

Kind:	WV Department of Environmental Protect
Sizes:	
Depths Set:	

PACKERS

Page 2 of 3

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 11,200psi 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):	28.65
---	-------

22) Area to be disturbed for well pad only, less access road (acres):	15.32	RECEIVED Office of Oil and Gas
23) Describe centralizer placement for each casing string:		JAN 09 2023
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 from KOP to surface every third joint.	joint in the lat	WV Department of Environmental Protection

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.

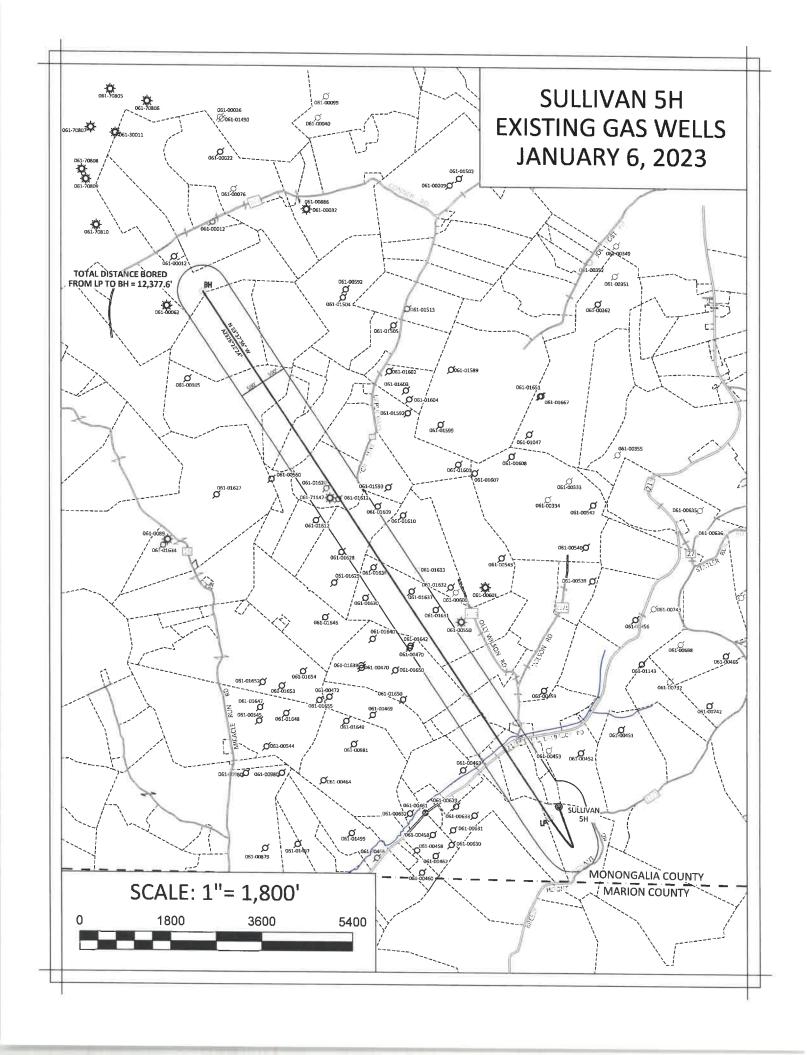
25) Proposed borehole conditioning procedures:

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.

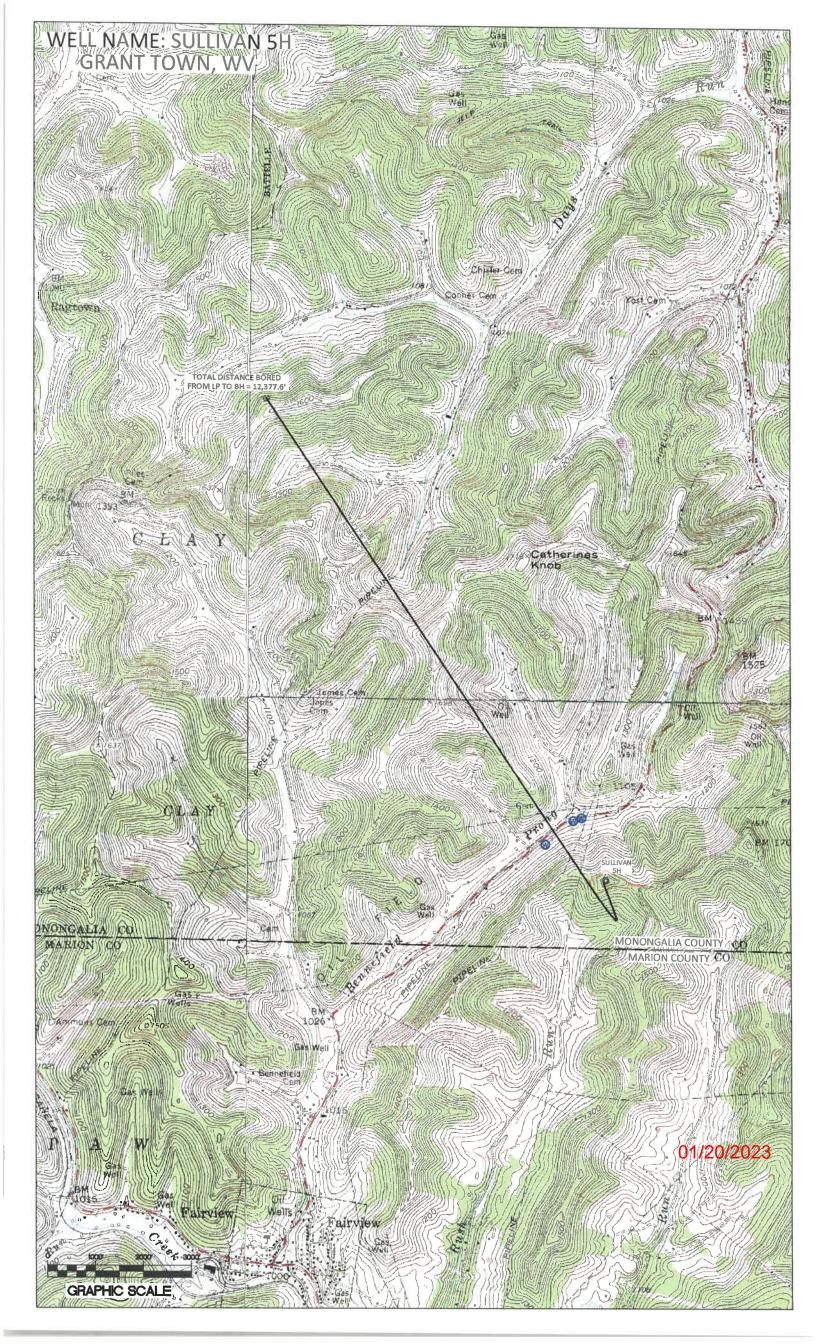
Page 3 of 3

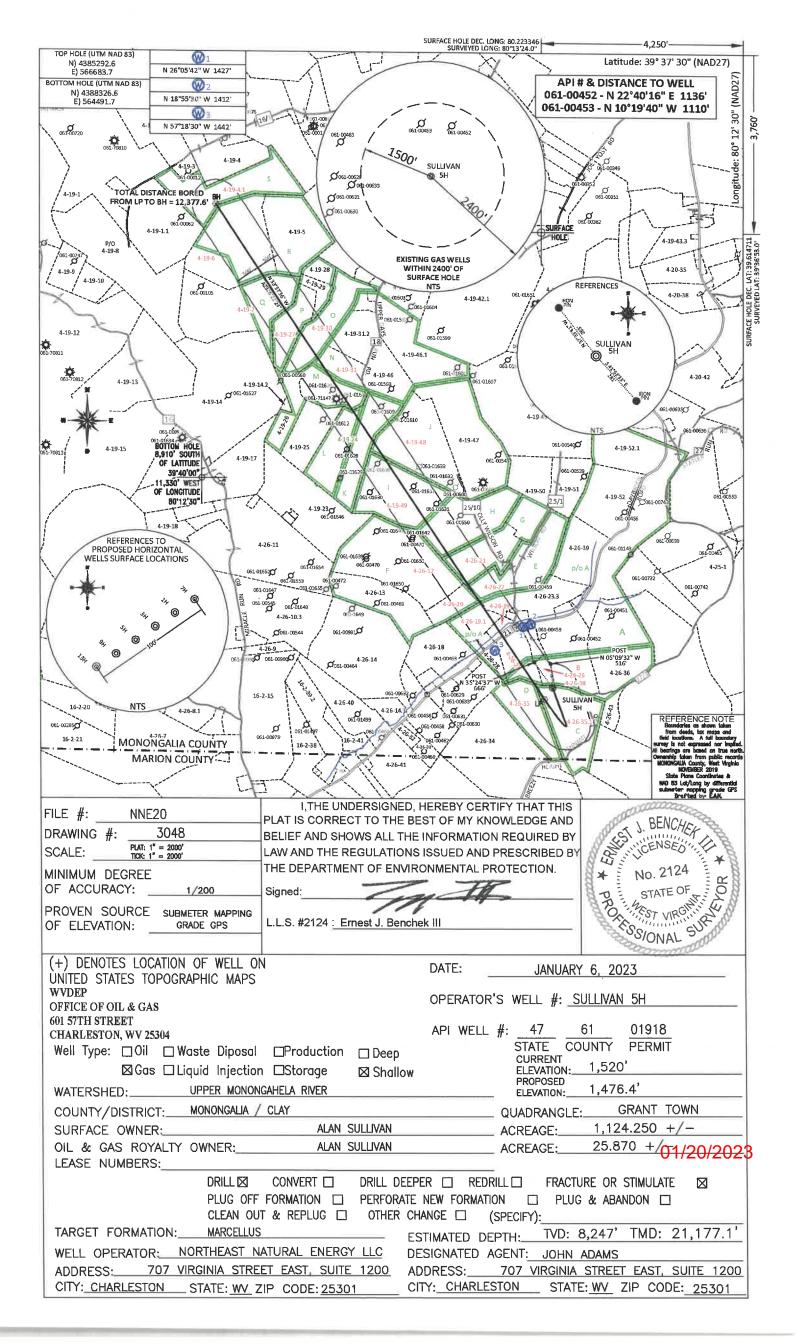


>
ίΩ.
~
-
ш
T
C
a
0
.2
_
2
S

061-00470 Kenneth Albert 061-01642 Kenneth Albert			Operator	Latitude (NAU 03)	LUNGILUUG (NAU 02)	INIF		Notes
	Albert	S	East Resources Inc	39.622091	-80.237035	4-26-12	NA	Plugged 9/8/05
	Albert	NA	Eastern Associated / Peabody Coal Company	39.623338	-80.233621	4-26-12	NA	Plugged 5/24/12
/ 061-01631 Micheal Latocha	atocha	9	Eastern Associated / Peabody Coal Company	39.625135	-80.231389	4-19-49	NA	Plugged 7/28/11
/ 061-01637 Micheal Latocha	atocha	10	Eastern Associated / Peabody Coal Company	39.626102	-80.233105	4-19-49	NA	Plugged 12/20/11
 061-01638 Micheal Latocha 	atocha	NA	Eastern Associated / Peabody Coal Company	39.62734	-80.235811	4-19-49	NA	Plugged 2/6/12
 061-01633 Micheal Latocha 	atocha	4	Eastern Associated / Peabody Coal Company	39.627233	-80.232718	4-19-48	NA	Plugged 10/20/11
V 061-01612 Edith Darrah	ırrah	NA	Eastern Associated / Peabody Coal Company	39.629732	-80.244009	4-19-31	NA	NA
/ 061-01620 Billy Ray Tennant	ennant	2	Eastern Associated / Peabody Coal Company	39.630968	-80.238352	4-19-31	NA	Plugged 7/26/11
/ 061-71147 NA		NA	NA	39.631043	-80,238536	4-19-31	NA	Pre 1929 farm well

WV Department of Environmental Protection





4-26-35	RANDY LEE & TRINA TENNANT
4-19-30	BILLIE & JEFFERSON PRICE
4-19-27	JAMES TENNANT
4-19-31	JIMMY R & PAMELA K TENNANT; BILLY RAY & ROXANA CAHILL
4-19-48	JAMES F & LINDA KARUS
4-26-38	ADAM CLAY DARRAH
4-19-49	MICHAEL J LATOCHA
4-26-21	MARVIN L WILSON II
4-26-22	LINDA KAY FOGT
4-26-19	LINDA R PARKER
4-26-19.1	SANDRA L LONG
4-19-24	EDITH L DARRAH
4-26-27	NNE MIDSTREAM LLC
4-26-12	KENNETH W & RUTH E ALBERT
4-26-35.1	ALAN SULLIVAN
4-26-26	NNE MIDSTREAM LLC
4-26-20	KENNETH W & RUTH E ALBERT
4-19-6	JIMMY R & PAMELA K TENNANT; RAY & ROXANA CAHILL
4-19-7	STEPHEN R WILSON, ET AL
4-19-4.1	KEMBLE D TATE

	LEASE INDEX		
Α	WV-061-000160-001-ACT	K	WV-061-003931-001
В	WV-061-000160-001-ACT	L	WV-061-003931-011
С	WV-061-005448-002	Μ	WV-061-003931-011
D	WV-061-000160-001-ACT	N	WV-061-006350-001
E	WV-061-000160-001-ACT	0	WV-061-003931-011
F	WV-061-005998-001	Р	WV-061-003931-011
G	WV-061-000160-001-ACT	Q	WV-061-005906-004
Η	WV-061-000160-001-ACT	R	WV-061-005906-004
	WV-061-000160-001-ACT	S	WV-061-005876-002
J	WV-061-001851-0014		

FILE #:NEE20	DATE:JANUARY 6, 2023
DRAWING #:3048	OPERATOR'S WELL #: <u>SULLIVAN 5H</u>
SCALE: N/A	API WELL #: <u>47</u> <u>61</u> <u>01918</u> STATE COUNTY PERMIT

Sulliva	ors Well No	Operato			WW-6A1 Form	
Page	Book	Royalty	Grantee, Lessee, etc.	Grantor, Lessor, etc.	Lease Number	Tract
44	1775	12.5% Royalty or More	Northeast Natural Energy, LLC	EQT Production Company	WV-061-000160-001-ACT	Α
	1775	12.5% Royalty or More	Northeast Natural Energy, LLC	EQT Production Company	WV-061-000160-001-ACT	В
44	1772	12.5% Royalty or More	Northeast Natural Energy, LLC	Alan Sullivan	WV-061-005448-002	С
	1775	12.5% Royalty or More	Northeast Natural Energy, LLC	EQT Production Company	WV-061-000160-001-ACT	D
44	1775	12.5% Royalty or More	Northeast Natural Energy, LLC	EQT Production Company	WV-061-000160-001-ACT	E
44		12.5% Royalty or More	Northeast Natural Energy, LLC	Ridgetop Appalachia, LLC	WV-061-005998-001	F
204	1785	12.5% Royalty or More	Northeast Natural Energy, LLC	EQT Production Company	WV-061-000160-001-ACT	G
44	1775		Northeast Natural Energy, LLC	EQT Production Company	WV-061-000160-001-ACT	н
44	1775	12.5% Royalty or More	Northeast Natural Energy, LLC	EQT Production Company	WV-061-000160-001-ACT	1
44	1775	12.5% Royalty or More	01.	Terrance W. Mason	WV-061-001851-0014	1
321	1568	12.5% Royalty or More	Northeast Natural Energy, LLC	Judith Ann Munkittrick	WV-061-001851-032	
113	1570	12.5% Royalty or More	Northeast Natural Energy, LLC	Debra L. Frazier	WV-061-001851-027	
814	1567	12.5% Royalty or More	Northeast Natural Energy, LLC		WV-061-001851-026	
240	1727	12.5% Royalty or More	Northeast Natural Energy, LLC	Gary W. Moore Donna G. Moore	WV-061-001851-026	
240	1727	12.5% Royalty or More	Northeast Natural Energy, LLC		WV-061-001851-026	
240	1727	12.5% Royalty or More	Northeast Natural Energy, LLC	William Bruce Moore		
240	1727	12.5% Royalty or More	Northeast Natural Energy, LLC	Samuel Moore	WV-061-001851-026	
240	1727	12.5% Royalty or More	Northeast Natural Energy, LLC	Jason Moore	WV-061-001851-026	к
52	1564	12.5% Royalty or More	Northeast Natural Energy, LLC	Margaret A. Berdine	WV-061-003931-001	ĸ
61	1402	12.5% Royalty or More	Northeast Natural Energy, LLC	Ryan C. Radtka	WV-061-002923-001	
51	1564	12.5% Royalty or More	Northeast Natural Energy, LLC	Gary L. Moore	WV-061-003931-002	_
51	1564	12.5% Royalty or More	Northeast Natural Energy, LLC	Linda K. Statler	WV-061-003931-002	
51	1564	12.5% Royalty or More	Northeast Natural Energy, LLC	Kenneth R. Moore	WV-061-003931-002	
51	1564	12.5% Royalty or More	Northeast Natural Energy, LLC	Susan L. Heiskell	WV-061-003931-002	
53:	1564	12.5% Royalty or More	Northeast Natural Energy, LLC	LaNelle C. Stiles	WV-061-003931-008	
41	1565	12.5% Royalty or More	Northeast Natural Energy, LLC	Jody Lynn Maley	WV-061-003931-007	
75	1557	12.5% Royalty or More	Northeast Natural Energy, LLC	Jill Renee Maley	WV-061-003931-014	
52	1564	12.5% Royalty or More	Northeast Natural Energy, LLC	Kelli D. Wilson	WV-061-003931-019	
52	1564	12.5% Royalty or More	Northeast Natural Energy, LLC	Lorri E. Kuhn	WV-061-003931-019	
52	1564	12.5% Royalty or More	Northeast Natural Energy, LLC	Gary D. Yost	WV-061-003931-019	
52	1564	12.5% Royalty or More	Northeast Natural Energy, LLC	Brett L. Yost	WV-061-003931-016	
52	1564	12.5% Royalty or More	Northeast Natural Energy, LLC	Cheral A. Skinner	WV-061-003931-016	
52:	1564	12.5% Royalty or More	Northeast Natural Energy, LLC	Kami D. Elliott	WV-061-003931-016	
52	1564	12.5% Royalty or More	Northeast Natural Energy, LLC	Dennis L. Yost	WV-061-003931-005	
11	1568	12.5% Royalty or More	Northeast Natural Energy, LLC	David D. Yost	WV-061-003931-003	
28	1568	12.5% Royalty or More	Northeast Natural Energy, LLC	Michael G. Phillips	WV-061-003931-006	
75	1557	12.5% Royalty or More	Northeast Natural Energy, LLC	Melinda P. Heidekat	WV-061-003931-013	
41	1562	12.5% Royalty or More	Northeast Natural Energy, LLC	Connie Sharon Copeland	WV-061-003931-011	
39	1562	12.5% Royalty or More	Northeast Natural Energy, LLC	Randy D. Yost	WV-061-003931-010	
25	1560	12.5% Royalty or More	Northeast Natural Energy, LLC	Phillip D. Yost	WV-061-003931-018	
820	1567	12.5% Royalty or More	Northeast Natural Energy, LLC	Nancy A. Maggard	WV-061-003931-020	
513	1564	12.5% Royalty or More	Northeast Natural Energy, LLC	Gerald Wayne Stiles	WV-061-003931-004	
758	1557	12.5% Royalty or More	Northeast Natural Energy, LLC	Diana L. Fulps	WV-061-003931-015	

JAN 09 2023

WV Department of Environmental Protection

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
	WV-061-003931-012	Linda M. Sutphin	Northeast Natural Energy, LLC	12.5% Royalty or More	1560	264
	WV-061-003915-008	Judith J. Radcliff	Northeast Natural Energy, LLC	12.5% Royalty or More	1559	125
	WV-061-003915-005	James Swiger	Northeast Natural Energy, LLC	12.5% Royalty or More	1560	258
	WV-061-003933-001	Gary S. Williams	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	818
<u> </u>	WV-061-003931-011	Connie Sharon Copeland	Northeast Natural Energy, LLC	12.5% Royalty or More	1562	416
	WV-061-003931-009	Danny J. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	425
	WV-061-003931-015	Diana L. Fulps	Northeast Natural Energy, LLC	12.5% Royalty or More	1557	758
	WV-061-003931-010	Randy D. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1562	397
	WV-061-003931-020	Nancy A. Maggard	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	820
	WV-061-003931-004	Gerald Wayne Stiles	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	513
	WV-061-003931-008	LaNelle Stiles	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	531
	WV-061-003931-007	Jody Lynn Maley	Northeast Natural Energy, LLC	12.5% Royalty or More	1565	417
	WV-061-003931-014	Jill Renee Maley	Northeast Natural Energy, LLC	12.5% Royalty or More	1557	756
	WV-061-003931-006	Michael G. Phillips	Northeast Natural Energy, LLC	12.5% Royaity or More	1568	283
	WV-061-003931-013	Melinda P. Heidekat	Northeast Natural Energy, LLC	12.5% Royalty or More	1557	754
	WV-061-003931-005	Dennis L. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	529
	WV-061-003931-003	David D. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1568	112
	WV-061-002923-001	Ryan C. Radtka	Northeast Natural Energy, LLC	12.5% Royalty or More	1402	615
<pre>/ M</pre>	WV-061-003931-011	Connie Sharon Copeland	Northeast Natural Energy, LLC	12.5% Royalty or More	1562	416
	WV-061-002923-001	Ryan C. Radtka	Northeast Natural Energy, LLC	12.5% Royalty or More	1402	615
JN	WV-061-006350-001	MM-Marcellus II, L.P.	Northeast Natural Energy, LLC	12.5% Royalty or More	1796	77
 CO 	WV-061-003931-011	Connie Sharon Copeland	Northeast Natural Energy, LLC	12.5% Royalty or More	1562	416
	WV-061-003931-009	Danny J. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	410
	WV-061-003931-015	Diana L. Fulps	Northeast Natural Energy, LLC	12.5% Royalty or More	1557	758
	WV-061-003931-010	Randy D. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1562	397
	WV-061-003931-020	Nancy A. Maggard	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	820
	WV-061-003931-004	Gerald Wayne Stiles	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	513
	WV-061-003931-008	LaNelle Stiles	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	531
	WV-061-003931-007	Jody Lynn Maley	Northeast Natural Energy, LLC	12.5% Royalty or More	1565	417
	WV-061-003931-014	Jill Renee Maley	Northeast Natural Energy, LLC	12.5% Royalty or More	1557	756
	WV-061-003931-006	Michael G. Phillips	Northeast Natural Energy, LLC	12.5% Royalty or More	1568	283
	WV-061-003931-013	Melinda P. Heidekat	Northeast Natural Energy, LLC	12.5% Royalty or More	1557	754
	WV-061-003931-005	Dennis L. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	529
	WV-061-003931-003	David D. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1568	112
	WV-061-002923-001	Ryan C. Radtka	Northeast Natural Energy, LLC	12.5% Royalty or More	1402	615
~ P	WV-061-003931-011	Connie Sharon Copeland	Northeast Natural Energy, LLC	12.5% Royalty or More	1402	
	WV-061-003931-009	Danny J. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	416
	WV-061-003931-015	Diana L. Fulps	Northeast Natural Energy, LLC	12.5% Royalty of More	1557	425
_	WV-061-003931-010	Randy D. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1562	758
	WV-061-003931-020	Nancy A. Maggard	Northeast Natural Energy, LLC	12.5% Royalty or More	1562	397
	WV-061-003931-004	Gerald Wayne Stiles	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	820
	WV-061-003931-008	LaNelle Stiles	Northeast Natural Energy, LLC	12.5% Royalty or More		513
	WV-061-003931-007	Jody Lynn Maley	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	531
	WV-061-003931-014	Jill Renee Maley	Northeast Natural Energy, LLC	12.5% Royalty or More	1565	417
	WV-061-003931-006	Michael G. Phillips	Northeast Natural Energy, LLC	12.5% Royalty or More	1557 1568	756 283

JAN 09 2023

WV Department of Environmental Protection

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
	WV-061-003931-013	Melinda P. Heidekat	Northeast Natural Energy, LLC	12.5% Royalty or More	1557	754
	WV-061-003931-005	Dennis L. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	529
	WV-061-003931-003	David D. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1568	112
/	WV-061-002923-001	Ryan C. Radtka	Northeast Natural Energy, LLC	12.5% Royalty or More	1402	615
Q	WV-061-005906-004	Gary W. Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1772	426
	WV-061-005906-001	Donna G. Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1772	420
	WV-061-005906-003	William Bruce Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1772	424
	WV-061-005906-005	Samuel Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1778	798
_	WV-061-005906-002	Jason Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1772	422
	WV-061-005916-002	Derrick Wayne Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1774	689
	WV-061-005916-001	Eric Blaine Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1774	687
	WV-061-005916-004	Darrian Marie Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1787	54
	WV-061-005904-002	Donald G. Tennant II	Northeast Natural Energy, LLC	12.5% Royalty or More	1772	121
	WV-061-005904-001	Craig Alan Dintaman	Northeast Natural Energy, LLC	12.5% Royalty or More	1772	119
	WV-061-005916-003	Yolanda Krotzer Davis	Northeast Natural Energy, LLC	12.5% Royalty or More	1775	788
	WV-061-005934-003	Rachel Haught	Northeast Natural Energy, LLC	12.5% Royalty or More	1781	561
	WV-061-005904-003	Jack R. Tuttle	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	532
	WV-061-005788-003	Kenneth D. Brame	Northeast Natural Energy, LLC	12.5% Royalty or More	1793	350
	WV-061-005788-006	Paul McBride	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	500
_	WV-061-005788-004	Paula McBride	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	630
	WV-061-005788-007	Brian Keith Clark	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	508
	WV-061-005788-005	Cheryl Lee Clark	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	504
	WV-061-005788-002	Toni Lindsey Greene	Northeast Natural Energy, LLC	12.5% Royalty or More	1775	840
	WV-061-005788-001	Sandy L. Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1748	76
	WV-061-006074-005	LeeAnn Shumiloff	Northeast Natural Energy, LLC	12.5% Royalty or More	1793	436
	WV-061-006074-004	Christopher B. Wilson	Northeast Natural Energy, LLC	12.5% Royalty or More	1793	434
	WV-061-006074-001	Susan Brinegar	Northeast Natural Energy, LLC	12.5% Royalty or More	1735	43
	WV-061-006074-003	Justin Wilson	Northeast Natural Energy, LLC	12.5% Royalty or More	1789	41
	WV-061-006074-002	Deken Wilson	Northeast Natural Energy, LLC	12.5% Royalty or More	1789	40
	WV-061-005916-007	John C. Jones	Northeast Natural Energy, LLC	12.5% Royalty or More	1789	403
	WV-061-005916-005	Janet D. Crabtree	Northeast Natural Energy, LLC	12.5% Royalty or More	1786	629
	WV-061-005916-006	Loruma B. Brokaw	Northeast Natural Energy, LLC	12.5% Royalty or More	1786	623
	WV-061-005916-008	Thomas D. Jones	Northeast Natural Energy, LLC	12.5% Royalty or More	1786	
	WV-061-006032-001	Marsha Catherine Wilson	Northeast Natural Energy, LLC	12.5% Royalty of More	1794	534
	WV-061-006021-005	Nancy A, Kallas	Northeast Natural Energy, LLC	12.5% Royalty of More	1788	
	WV-061-006021-004	Pamela Lane Tennant	Northeast Natural Energy, LLC	12.5% Royalty of More	1788	514
	WV-061-006021-001	Patricia Jane Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More		88
	WV-061-006021-003	Kimberly Dawn Huggins Coker	Northeast Natural Energy, LLC	12.5% Royalty or More	1787	82
	WV-061-006021-002	James David Tennant	Northeast Natural Energy, LLC		1787	86
	WV-061-005934-001	Tonya Smerdeli	Northeast Natural Energy, LLC	12.5% Royalty or More 12.5% Royalty or More	1787	84
	WV-061-005934-002	Tina Bragg	Northeast Natural Energy, LLC		1775	824
	WV-061-006019-002	Roxana Cahill	Northeast Natural Energy, LLC	12.5% Royalty or More	1775	826
	WV-061-006016-001	Jimmy Randall Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1788	512
	WV-061-006017-001	Pamela Kay Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1787	72
	WV-061-006019-001	Billy Ray Tennant		12.5% Royalty or More	1787	74
		Siny noy remain	Northeast Natural Energy, LLC	12.5% Royalty or More	1787	78

JAN 09 2023

WV Department of Environmental Protection

7	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
R	WV-061-005906-004	Gary W. Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1772	426
	WV-061-005906-001	Donna G. Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1772	420
	WV-061-005906-003	William Bruce Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1772	424
	WV-061-005906-005	Samuel Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1778	798
	WV-061-005906-002	Jason Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1772	422
	WV-061-005916-002	Derrick Wayne Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1774	689
	WV-061-005916-001	Eric Blaine Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1774	687
	WV-061-005916-004	Darrian Marie Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1787	54
	WV-061-005904-002	Donald G. Tennant II	Northeast Natural Energy, LLC	12.5% Royalty or More	1772	121
	WV-061-005904-001	Craig Alan Dintaman	Northeast Natural Energy, LLC	12.5% Royalty or More	1772	119
	WV-061-005916-003	Yolanda Krotzer Davis	Northeast Natural Energy, LLC	12.5% Royalty or More	1775	788
	WV-061-005934-003	Rachel Haught	Northeast Natural Energy, LLC	12.5% Royalty or More	1781	561
_	WV-061-005904-003	Jack R. Tuttle	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	532
	WV-061-005788-003	Kenneth D. Brame	Northeast Natural Energy, LLC	12.5% Royalty or More	1793	350
	WV-061-005788-006	Paul McBride	Northeast Natural Energy, LLC	12.5% Royalty or More	1795	506
	WV-061-005788-004	Paula McBride	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	630
	WV-061-005788-007	Brian Keith Clark	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	508
	WV-061-005788-005	Cheryl Lee Clark	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	504
	WV-061-005788-002	Toni Lindsey Greene	Northeast Natural Energy, LLC	12.5% Royalty or More	1734	840
	WV-061-005788-001	Sandy L. Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1775	762
	WV-061-006074-005	LeeAnn Shumiloff	Northeast Natural Energy, LLC	12.5% Royalty or More	1748	436
	WV-061-006074-004	Christopher B. Wilson	Northeast Natural Energy, LLC	12.5% Royalty or More	1793	430
	WV-061-006074-001	Susan Brinegar	Northeast Natural Energy, LLC	12.5% Royalty or More	1795	
	WV-061-006074-003	Justin Wilson	Northeast Natural Energy, LLC	12.5% Royalty or More	1789	502
	WV-061-006074-002	Deken Wilson	Northeast Natural Energy, LLC	12.5% Royalty or More	1789	411
	WV-061-005916-007	John C. Jones	Northeast Natural Energy, LLC	12.5% Royalty or More	1789	409
	WV-061-005916-005	Janet D. Crabtree	Northeast Natural Energy, LLC	12.5% Royalty or More	1789	443
	WV-061-005916-006	Loruma B. Brokaw	Northeast Natural Energy, LLC	12.5% Royalty of More		625
	WV-061-005916-008	Thomas D. Jones	Northeast Natural Energy, LLC	12.5% Royalty or More	1786 1794	627
	WV-061-006032-001	Marsha Catherine Wilson	Northeast Natural Energy, LLC	12.5% Royalty of More		534
	WV-061-006021-005	Nancy A. Kallas	Northeast Natural Energy, LLC	12.5% Royalty or More	1788	522
	WV-061-006021-004	Pamela Lane Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1788	514
	WV-061-006021-001	Patricia Jane Tennant	Northeast Natural Energy, LLC		1787	88
	WV-061-006021-003	Kimberly Dawn Huggins Coker	Northeast Natural Energy, LLC	12.5% Royalty or More	1787	82
	WV-061-006021-002	James David Tennant		12.5% Royalty or More	1787	86
	WV-061-005934-001	Tonya Smerdell	Northeast Natural Energy, LLC Northeast Natural Energy, LLC	12.5% Royalty or More	1787	84
	WV-061-005934-002	Tina Bragg	Northeast Natural Energy, LLC	12.5% Royalty or More	1775	824
	WV-061-006019-002	Roxana Cahill	Northeast Natural Energy, LLC	12.5% Royalty or More	1775	826
	WV-061-006016-001	Jimmy Randall Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1788	512
	WV-061-006017-001	Pamela Kay Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1787	72
	WV-061-006019-001	Billy Ray Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1787	74
s	WV-061-005876-002	Kemble D. Tate	Northeast Natural Energy, LLC	12.5% Royalty or More 12.5% Royalty or More	1787 1782	78 291

JAN **09** 2023

WV Department of Environmental Protection

