



west virginia department of environmental protection

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

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

Friday, April 17, 2020
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

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

Re: Permit Modification Approval for CUMMINS 2H
47-061-01828-00-00

NORTHEAST NATURAL ENERGY LLC

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

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

James A. Martin
Chief

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over the printed name and title.

Operator's Well Number: CUMMINS 2H
Farm Name: JERRY L. YOST ET AL
U.S. WELL NUMBER: 47-061-01828-00-00
Horizontal 6A New Drill
Date Modification Issued: 4/16/2020

Promoting a healthy environment.

WW-6B
(04/15)

API NO. 47- 061 - 01828 MOD
OPERATOR WELL NO. 2H
Well Pad Name: Cummins

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: 2H Well Pad Name: Cummins

3) Farm Name/Surface Owner: Jerry L Yost et al Public Road Access: CR 25/3 (Yank Hollow Rd.)

4) Elevation, current ground: 1360' Elevation, proposed post-construction: 1358'

5) Well Type (a) Gas Oil Underground Storage

Other _____

(b) If Gas Shallow Deep _____

Horizontal _____

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

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus; 8,073', 101', 3,600 psi

8) Proposed Total Vertical Depth: 8,070'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 17,185'

11) Proposed Horizontal Leg Length: 8,599'

12) Approximate Fresh Water Strata Depths: 50'; 1,250'

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

14) Approximate Saltwater Depths: 1,648'; 2,408'

15) Approximate Coal Seam Depths: 1,248'

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: _____
Depth: _____
Seam: _____
Owner: _____

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18) CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	24"	New	NA	94.71	40'	40'	GTS
Fresh Water	13-3/8"	New	J-55	54.5	1,330'	1,300'	CTS
Coal							
Intermediate	9-5/8"	New	J-55	40	2,488'	2,458'	CTS
Production	5-1/2"	New	P-110	20			
Tubing	2-7/8"	New	N-80	6.5	17,185'	17,155'	NA
Liners							

MDK 2/25/2020

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"	30"	.375	415		4,500 pst grout	NA
Fresh Water	13-3/8"	17 1/2"	.38"	2,760	2,000	Type 1	1.18
Coal							
Intermediate	9-5/8"	12 1/4"	.395"	3,950	3,000	Type 1	1.18
Production	5-1/2"	8-3/4"	.361"	12,530	9,700	50:50 Poz	1.21
Tubing	2-7/8"	NA	.271"	10,570	3,600	NA	NA
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

Drilling and completion of a horizontal Marcellus well. The well was previously drilled to a depth of 6,150'. The well will be cemented back to 4,000' and re-drilled from the KOP to approximately 8,070' TVD/17,185' TMD, along a 323° azimuth

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 40.42 ac

22) Area to be disturbed for well pad only, less access road (acres): 11.99 ac

23) Describe centralizer placement for each casing string:

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

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

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

25) Proposed borehole conditioning procedures:

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

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*Note: Attach additional sheets as needed.

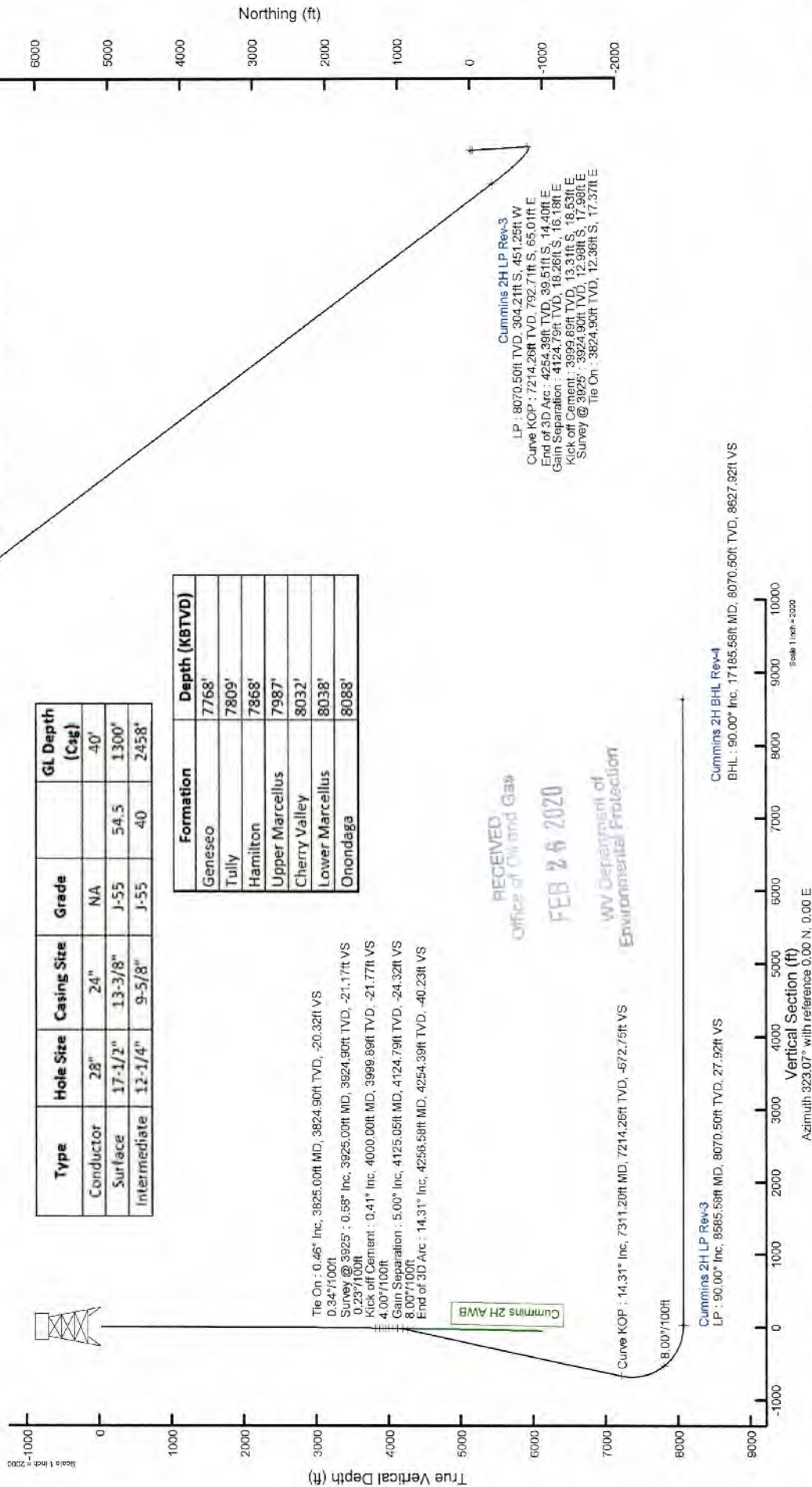


NORTHEAST NATURAL ENERGY, LLC

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

Slot #02
 Well: Cummins 2H ST01
 Wellbore: Cummins 2H ST01 PWB

PMI reference wellbore is Cummins 2H ST01 PWB #402
This vertical depths are referenced to Patterson 334 (KB)
Reference wellbore measured depths are referenced to Patterson 334 (KB)
Mean Sea Level to Mean Sea Level: 1352 feet
Mean Sea Level to Ground Level (At Slot Slot 47/02): -1355 feet
Onset wellbore MDs are referenced to even path's onset MD datum
Created by: stephen.mccoy@bakerhughes.com



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Cummins 2H Area of Review

API Number	Well Name	Well Number	Operator	Latitude (NAD 27)	Longitude (NAD 27)	TMP	Comments
47-061-01335	W G & M Tennant	NA	Noumenon Corp, a WV Corp	39.671415	-80.194086	4-10-47.4	Plugged 10/10/15
47-061-00820	R E & B B Wilson	NA	Consolidation Coal Co.	39.668102	-80.189914	4-10-75.8	Plugged 10/3/86
47-061-00819	J & R Brummage	NA	Consolidation Coal Co.	39.667377	-80.18785	4-17-67	Plugged 10/7/86
47-061-00813	Terry D & Lelia R Eddy	NA	Consolidation Coal Co.	39.664862	-80.18785	4-17-66	Plugged 9/15/88
47-061-00830	J & A Yost	NA	Consolidation Coal Co.	39.661817	-80.184847	4-17-72	Plugged 3/30/87

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**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

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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
 Its: Regulatory Manager

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
A	WV-061-003750-016	Peggy A. Varner	Northeast Natural Energy LLC	12.5% or Greater	1565	297
	WV-061-003750-024	Mary Catherine Hartzell	Northeast Natural Energy LLC	12.5% or Greater	1557	443
	WV-061-003750-021	John M. Henderson	Northeast Natural Energy LLC	12.5% or Greater	1557	750
	WV-061-003750-018	David L. Henderson	Northeast Natural Energy LLC	12.5% or Greater	1557	453
	WV-061-003750-041	Dennis Montgomery and Lucretia Montgomery	Northeast Natural Energy LLC	12.5% or Greater	1568	273
	WV-061-003750-019	Sally Strganac	Northeast Natural Energy LLC	12.5% or Greater	1557	379
	WV-061-003750-040	Roy P. Chaney	Northeast Natural Energy LLC	12.5% or Greater	1559	468
	WV-061-003750-042	George W. Chaney and Charlotte Chaney	Northeast Natural Energy LLC	12.5% or Greater	1568	157
	WV-061-003750-026	Evelyn Varner Fuller	Northeast Natural Energy LLC	12.5% or Greater	1559	470
	WV-061-003750-082	Lancaster-Lebanon Boy Scouts of America	Northeast Natural Energy LLC	12.5% or Greater	1591	171
	WV-061-003750-061	Donna Ray Tennant Palma	Northeast Natural Energy LLC	12.5% or Greater	1575	510
	WV-061-003750-078	Donna Rae Palma	Northeast Natural Energy LLC	12.5% or Greater	1589	555
	WV-061-003750-089	Stacy Bernarduci	Northeast Natural Energy LLC	12.5% or Greater	1596	494
	WV-061-003750-088	Shelly Koterak and Michael Koterak	Northeast Natural Energy LLC	12.5% or Greater	1596	490
	WV-061-003750-080	Wendy Johnston	Northeast Natural Energy LLC	12.5% or Greater	1589	559
	WV-061-003750-095	Pardon & Pardon LLC	Northeast Natural Energy LLC	12.5% or Greater	1604	822
	WV-061-003750-022	Patricia A. Stabler	Northeast Natural Energy LLC	12.5% or Greater	1557	457
	WV-061-003750-060	John E. Gump	Northeast Natural Energy LLC	12.5% or Greater	1575	266
	WV-061-003750-059	Lee Ann Rohrer	Northeast Natural Energy LLC	12.5% or Greater	1575	264
	WV-061-003750-096	Sylvia Sue Hoffman and Dennis Hoffman	Northeast Natural Energy LLC	12.5% or Greater	1551	164
	WV-061-003750-013	Silas Sammel Stavlscheck and Elizabeth Stavlscheck	Northeast Natural Energy LLC	12.5% or Greater	1557	748
	WV-061-003750-003	Sally Sonia Conjeski and Michael Conjeski	Northeast Natural Energy LLC	12.5% or Greater	1562	437
	WV-061-003750-087	Thomas A. Varner and Carolyn T. Varner	Northeast Natural Energy LLC	12.5% or Greater	1595	417
	WV-061-003750-001	David Varner	Northeast Natural Energy LLC	12.5% or Greater	1566	513
	WV-061-003750-002	Cassandra Kennedy	Northeast Natural Energy LLC	12.5% or Greater	1564	325
	WV-061-003750-005	Abigail Nida	Northeast Natural Energy LLC	12.5% or Greater	1566	297
	WV-061-003750-096	Betty King Adleman	Northeast Natural Energy LLC	12.5% or Greater	1605	473
	WV-061-003750-093	Bonita K.Patterson, a/k/a Bonnie L.Patterson and Barry Patterson	Northeast Natural Energy LLC	12.5% or Greater	1604	170
	WV-061-003750-077	Stephen & Denise Plank	Northeast Natural Energy LLC	12.5% or Greater	1589	553
	WV-061-003750-092	Lisa & Craig Bordner	Northeast Natural Energy LLC	12.5% or Greater	1604	168
	WV-061-003750-085	Gabrielle Bree McAulliffe	Northeast Natural Energy LLC	12.5% or Greater	1593	446
	WV-061-003750-084	Christyna Echard, f/k/a Cristyna Marie McAulliffe	Northeast Natural Energy LLC	12.5% or Greater	1593	444
	WV-061-003750-079	Stephen R. Plank	Northeast Natural Energy LLC	12.5% or Greater	1589	557
	WV-061-003750-107	Allan S. Varner	Northeast Natural Energy LLC	12.5% or Greater	1633	350
	WV-061-003750-106	Donald R. Varner	Northeast Natural Energy LLC	12.5% or Greater	1633	348
	WV-061-003750-104	Ramona Varner Hawkins	Northeast Natural Energy LLC	12.5% or Greater	1613	779
	WV-061-003750-102	Robert Craig Varner, aka, R. Craig Varner	Northeast Natural Energy LLC	12.5% or Greater	1612	811
	WV-061-003750-004	Mariys Greenhalgh and William Greenhalgh	Northeast Natural Energy LLC	12.5% or Greater	1565	560
	WV-061-003750-108	M. Dianne Toothman	Northeast Natural Energy LLC	12.5% or Greater	1633	352
	WV-061-003750-057	Sarah Suzanne Maxwell	Northeast Natural Energy LLC	12.5% or Greater	1575	260
	WV-061-003750-100	Douglas Closser	Northeast Natural Energy LLC	12.5% or Greater	1625	814
	WV-061-003750-044	Jay Closser	Northeast Natural Energy LLC	12.5% or Greater	1573	458
	WV-061-003750-017	Ernest Closser III and Rosemary Closser	Northeast Natural Energy LLC	12.5% or Greater	1559	456
	WV-061-003750-101	Arleigh Closser	Northeast Natural Energy LLC	12.5% or Greater	1625	816
	WV-061-003750-113	John R. Varner	Northeast Natural Energy LLC	12.5% or Greater	135	365
	WV-061-003750-110	Sharon V. Helber	Northeast Natural Energy LLC	12.5% or Greater	135	478
	WV-061-003750-111	Thomas D. Varner	Northeast Natural Energy LLC	12.5% or Greater	135	482
	WV-061-003750-012	Sheila V. Gill	Northeast Natural Energy LLC	12.5% or Greater	1560	459
	WV-061-003750-045	Brian G. King	Northeast Natural Energy LLC	12.5% or Greater	1573	462
	WV-061-003750-058	Constance Bird	Northeast Natural Energy LLC	12.5% or Greater	1575	262
	WV-061-003750-047	Stephen A. King	Northeast Natural Energy LLC	12.5% or Greater	1573	468
	WV-061-003750-046	Karl P. King and Edna F. King	Northeast Natural Energy LLC	12.5% or Greater	1573	466
	WV-061-003750-029	Kathleen V. Teagarden	Northeast Natural Energy LLC	12.5% or Greater	1564	667
	WV-061-003750-094	John L. Hughes	Northeast Natural Energy LLC	12.5% or Greater	1604	100
	WV-061-003750-049	James Jay Stephenson and Sharon Stephenson	Northeast Natural Energy LLC	12.5% or Greater	1574	271
	WV-061-003750-048	Lori Ann Patterson and James Patterson	Northeast Natural Energy LLC	12.5% or Greater	1574	269
	WV-061-003750-056	Robert L. Stephenson	Northeast Natural Energy LLC	12.5% or Greater	1574	288
	WV-061-003750-055	James Edwin Stephenson	Northeast Natural Energy LLC	12.5% or Greater	1574	286
	WV-061-003750-054	Matthew Scott Stephenson	Northeast Natural Energy LLC	12.5% or Greater	1574	284
	WV-061-003750-053	James Cooke Stephenson	Northeast Natural Energy LLC	12.5% or Greater	1574	282
	WV-061-003750-036	Jane Stephenson Brewer	Northeast Natural Energy LLC	12.5% or Greater	1568	275
	WV-061-003750-071	Cory Stephenson	Northeast Natural Energy LLC	12.5% or Greater	1578	493
	WV-061-003750-072	Casey Stephenson	Northeast Natural Energy LLC	12.5% or Greater	1580	20
	WV-061-003750-069	Sheena Neill, fka, Sheena Travaglino	Northeast Natural Energy LLC	12.5% or Greater	1578	489
	WV-061-003750-063	Letitia Travaglino, aka, Tisha Travaglino	Northeast Natural Energy LLC	12.5% or Greater	1577	14
	WV-061-003750-065	Whitney Travaglino	Northeast Natural Energy LLC	12.5% or Greater	1577	18
	WV-061-003750-068	Brian Young	Northeast Natural Energy LLC	12.5% or Greater	1578	487
	WV-061-003750-064	Tiffany Hutter, fka, Tiffany Young	Northeast Natural Energy LLC	12.5% or Greater	1577	16
	WV-061-003750-070	Vicki Stephenson	Northeast Natural Energy LLC	12.5% or Greater	1578	491
	WV-061-003750-098	Kelli Stephenson, f/k/a Kelli S. Leone	Northeast Natural Energy LLC	12.5% or Greater	1605	485
	WV-061-003750-052	Paul W. Stephenson	Northeast Natural Energy LLC	12.5% or Greater	1574	277
	WV-061-003750-062	Melanie Zee Headlee & Scott Headlee	Northeast Natural Energy LLC	12.5% or Greater	1575	714
	WV-061-003750-051	Nicole Lea Rohanna & Jeremy Rohanna	Northeast Natural Energy LLC	12.5% or Greater	1574	275
	WV-061-003750-050	Donna Rose	Northeast Natural Energy LLC	12.5% or Greater	1574	273
	WV-061-003750-067	Kimberly M. Elsiminger	Northeast Natural Energy LLC	12.5% or Greater	1577	22

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
	WV-061-003750-066	Christopher Eisminger	Northeast Natural Energy LLC	12.5% or Greater	1577	20
	WV-061-003750-037	WISC, LP- interest of Earle Agnew Welsh,	Northeast Natural Energy LLC	12.5% or Greater	1568	269
	WV-061-003750-020	Ivan D. Rickard and Barbara L. Rickard	Northeast Natural Energy LLC	12.5% or Greater	1557	455
	WV-061-003750-008	Mary Kay Goodwin	Northeast Natural Energy LLC	12.5% or Greater	1564	663
	WV-061-003750-007	Elizabeth Goodwin	Northeast Natural Energy LLC	12.5% or Greater	1565	558
	WV-061-003750-011	Dolly Goodwin Throckmorton	Northeast Natural Energy LLC	12.5% or Greater	1557	437
	WV-061-003750-097	Donna A. Varner	Northeast Natural Energy LLC	12.5% or Greater	1605	483
	WV-061-003750-025	Kathleen Mary Harris	Northeast Natural Energy LLC	12.5% or Greater	1554	478
	WV-061-003750-023	Mary Elizabeth Taylor	Northeast Natural Energy LLC	12.5% or Greater	1557	445
	WV-061-003750-043	Carolyn Rose Tabarini and Bernard Tabarini	Northeast Natural Energy LLC	12.5% or Greater	1568	155
	WV-061-003750-105	Fred William Taylor	Northeast Natural Energy LLC	12.5% or Greater	135	486
	WV-061-003750-112	Edward James Taylor	Northeast Natural Energy LLC	12.5% or Greater	1615	761
B	WV-061-004591-002	A. Keith Michael	Northeast Natural Energy LLC	12.5% or Greater	1594	66
	WV-061-004591-001	Gregory G. Michael	Northeast Natural Energy LLC	12.5% or Greater	1595	384
	WV-061-004591-001	Jane Ann Reynolds	Northeast Natural Energy LLC	12.5% or Greater	1595	384
C	WV-061-000127-001-LA	EOT	Northeast Natural Energy LLC	12.5% or Greater	1660	538
D	WV-061-003023-016	Ora C. Eddy	Northeast Natural Energy LLC	12.5% or Greater	1517	387
	WV-061-003023-019	Melvin Luther Eddy	Northeast Natural Energy LLC	12.5% or Greater	1534	118
	WV-061-003023-017	Lena Ann Wright	Northeast Natural Energy LLC	12.5% or Greater	1521	728
	WV-061-003023-015	Denzil F. Eddy	Northeast Natural Energy LLC	12.5% or Greater	1517	374
	WV-061-003023-014	Billy Joe Eddy	Northeast Natural Energy LLC	12.5% or Greater	1518	25
	WV-061-003023-013	Donna E. Lemmon	Northeast Natural Energy LLC	12.5% or Greater	1439	316
	WV-061-003023-018	Emelia B. Polansky	Northeast Natural Energy LLC	12.5% or Greater	1521	692
	WV-061-003023-020	Judy Lipscomb	Northeast Natural Energy LLC	12.5% or Greater	1535	693
	WV-061-003023-022	Terry White and Shirley White	Northeast Natural Energy LLC	12.5% or Greater	1554	442
	WV-061-003023-021	Rebecca Phillips	Northeast Natural Energy LLC	12.5% or Greater	1535	695
	WV-061-003023-002	Julia Marcia Harris	Northeast Natural Energy LLC	12.5% or Greater	1428	895
	WV-061-003023-003	Larry L. Roupe	Northeast Natural Energy LLC	12.5% or Greater	1431	415
	WV-061-003023-006	Nina J. Wood	Northeast Natural Energy LLC	12.5% or Greater	1430	357
	WV-061-003739-008	Dolly P. Eddy a.k.a Dolly P. Tennant, aka Dot Tennant	Northeast Natural Energy LLC	12.5% or Greater	1563	422
	WV-061-003739-003	Charlene & Michael Walker	Northeast Natural Energy LLC	12.5% or Greater	1562	375
	WV-061-003739-002	Kathy Jo Ramsey	Northeast Natural Energy LLC	12.5% or Greater	1557	377
	WV-061-003739-005	Dolores Louise White	Northeast Natural Energy LLC	12.5% or Greater	1563	123
	WV-061-003739-012	Edwina Trotto and John D. Trotto, aka Edwina White	Northeast Natural Energy LLC	12.5% or Greater	1557	490
	WV-061-003739-001	Anita Jo Gonzales fka Anita Jo White & James Gonzales	Northeast Natural Energy LLC	12.5% or Greater	1557	449
	WV-061-003739-004	David W. Eddy, a/k/a David Wayne Eddy	Northeast Natural Energy LLC	12.5% or Greater	1550	517
	WV-061-003739-006	Deborah L. Meade	Northeast Natural Energy LLC	12.5% or Greater	1562	197
	WV-061-003739-009	Sandra L. Shackelford	Northeast Natural Energy LLC	12.5% or Greater	1557	361
	WV-061-003739-010	Timothy C. Eddy	Northeast Natural Energy LLC	12.5% or Greater	1562	203
	WV-061-003739-011	Walter R. Eddy,	Northeast Natural Energy LLC	12.5% or Greater	1555	312
E	WV-061-001620-035	Stone Hill Mineral Holdings LLC.	Northeast Natural Energy LLC	12.5% or Greater	1682	312
	WV-061-001620-011	Moses Thomas Tennant	Northeast Natural Energy LLC	12.5% or Greater	1535	643
	WV-061-001620-020	Herbert Earl Hamilton and Cynthia Hamilton	Northeast Natural Energy LLC	12.5% or Greater	1545	449
	WV-061-001620-025	Jesse Martin Tennant	Northeast Natural Energy LLC	12.5% or Greater	1566	31
	WV-061-001620-019	Amanda Joe Wilson	Northeast Natural Energy LLC	12.5% or Greater	1542	822
	WV-061-001620-024	Nancy Joe Wilson	Northeast Natural Energy LLC	12.5% or Greater	1550	571
	WV-061-001620-018	Amber Lou Kavlick, fka Amber Lou Wilson	Northeast Natural Energy LLC	12.5% or Greater	1542	106
	WV-061-001620-022	Susan Rose Price & David Price	Northeast Natural Energy LLC	12.5% or Greater	1550	567
	WV-061-001620-012	Betty Louise Tennant	Northeast Natural Energy LLC	12.5% or Greater	1535	91
	WV-061-001620-016	Rosemary M. Saunders & George Saunders	Northeast Natural Energy LLC	12.5% or Greater	1550	563
	WV-061-001620-032	Steven Britvec	Northeast Natural Energy LLC	12.5% or Greater	1670	47
	WV-061-001620-031	Mary Ann Raley	Northeast Natural Energy LLC	12.5% or Greater	1670	45
	WV-061-001620-030	Barbara Kay Brookover	Northeast Natural Energy LLC	12.5% or Greater	1670	43
	WV-061-001620-009	David Marko	Northeast Natural Energy LLC	12.5% or Greater	1524	327
	WV-061-001620-036	Waco Oil and Gas	Northeast Natural Energy LLC	12.5% or Greater	1683	542
	WV-061-001620-034	Mike Ross Inc.	Northeast Natural Energy LLC	12.5% or Greater	1681	669
	WV-061-001620-033	Krista Burke	Northeast Natural Energy LLC	12.5% or Greater	1678	582
	WV-061-001620-023	Georgia Butcher, fka Georgia Ellen Tennant & Richard D. Butcher Sr.	Northeast Natural Energy LLC	12.5% or Greater	1550	569
	WV-061-001620-014	Robert D. Kerns	Northeast Natural Energy LLC	12.5% or Greater	1541	357
	WV-061-001620-029	Brandi Leigh Hall Sanchez, fka, Brandi Rubeshaw	Northeast Natural Energy LLC	12.5% or Greater	1611	760
	WV-061-001620-028	James Paul Rush	Northeast Natural Energy LLC	12.5% or Greater	1565	303
	WV-061-001620-026	Jesse Thomas Tennant	Northeast Natural Energy LLC	12.5% or Greater	1565	562
	WV-061-001620-027	William L. Tennant & Virginia I. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1565	286
	WV-061-001620-022	Susan Rose Price	Northeast Natural Energy LLC	12.5% or Greater	1550	567
F	WV-061-002352-056	Catherine L. Griffith	Northeast Natural Energy LLC	12.5% or Greater	1564	625
	WV-061-003837-005	Geraldine Anne Engler Flynn and Phillip D. Flynn	Northeast Natural Energy LLC	12.5% or Greater	1566	708
	WV-061-003109-002	Winifred H. Wildman by her Attorney in Fact, Randolph L. Wildman	Northeast Natural Energy LLC	12.5% or Greater	1557	375
	WV-061-003837-007	Margaret Gene Sherman, fka, Margaret Gene Lewis, aka Gene W. Lewis	Northeast Natural Energy LLC	12.5% or Greater	1562	811
	WV-061-003837-002	Douglas O. Hill Jr.	Northeast Natural Energy LLC	12.5% or Greater	1562	178
	WV-061-003837-003	Geoffrey L. Hill	Northeast Natural Energy LLC	12.5% or Greater	1564	238
	WV-061-003837-004	Mark R. Hill	Northeast Natural Energy LLC	12.5% or Greater	1566	285
	WV-061-003837-008	Linda I. Croff, aka, Linda Wildman Croff, fka, Linda Irene Wildman and Allen Croff	Northeast Natural Energy LLC	12.5% or Greater	1562	205
	WV-061-003837-006	Dorothy Jane Duffield	Northeast Natural Energy LLC	12.5% or Greater	1560	135
	WV-061-003837-012	Nancy A. Vernon and Rick C. Vernon	Northeast Natural Energy LLC	12.5% or Greater	1567	431

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
G	WV-0061-003255-001	Bertha B. Wilson	Northeast Natural Energy LLC	12.5% or Greater	1453	738
H	WV-0061-003255-001	Bertha B. Wilson	Northeast Natural Energy LLC	12.5% or Greater	1453	738
I	WV-0061-003255-001	Bertha B. Wilson	Northeast Natural Energy LLC	12.5% or Greater	1453	738
J	WV-061-003693-010	John L. Loth	Northeast Natural Energy LLC	12.5% or Greater	1564	804
	WV-061-004132-001	Waco Oil & Gas Co., Inc.	Northeast Natural Energy LLC	12.5% or Greater	1564	219
	WV-061-005563-001	Noumenon Corporation	Northeast Natural Energy LLC	12.5% or Greater	1667	103
	WV-061-005563-002	Mark V. Eddy	Northeast Natural Energy LLC	12.5% or Greater	1678	329
	WV-061-004564-002	Deanna Cannata	Northeast Natural Energy LLC	12.5% or Greater	1604	846
	WV-061-003758-005	Robert Lee Miller Jr.	Northeast Natural Energy LLC	12.5% or Greater	1559	584
	WV-061-004564-001	Roberta Lynn King	Northeast Natural Energy LLC	12.5% or Greater	1591	730
	WV-061-003693-001	Carmel G. Brookover	Northeast Natural Energy LLC	12.5% or Greater	1535	847
	WV-061-003693-002	Celia P. Askew & Robert L. Askew	Northeast Natural Energy LLC	12.5% or Greater	1557	441
	WV-061-003758-003	Gary Michael Price	Northeast Natural Energy LLC	12.5% or Greater	1548	11
	WV-061-003758-004	Rhonda B. Kraus, fka Rhonda Lovingood	Northeast Natural Energy LLC	12.5% or Greater	1549	606
	WV-061-003758-002	Paulette Flowers	Northeast Natural Energy LLC	12.5% or Greater	1550	209
	WV-061-003758-001	Myra June Neylon & Bruce Neylon	Northeast Natural Energy LLC	12.5% or Greater	1552	422
	WV-061-003693-006	Betty Eileen Roy	Northeast Natural Energy LLC	12.5% or Greater	1554	440
	WV-061-003693-004	Betty Jo King	Northeast Natural Energy LLC	12.5% or Greater	1544	112
	WV-061-003693-005	Patricia Ann Fleming	Northeast Natural Energy LLC	12.5% or Greater	1557	497
	WV-061-003693-009	John M. McLarty	Northeast Natural Energy LLC	12.5% or Greater	1551	239
	WV-061-003693-008	Debbie K. McLarty aka Debbie K. Hebert	Northeast Natural Energy LLC	12.5% or Greater	1554	438
K	WV-061-003982-001	Billy Jo Eddy and Janet Eddy	Northeast Natural Energy LLC	12.5% or Greater	1565	550
	WV-061-003693-010	John L. Loth	Northeast Natural Energy LLC	12.5% or Greater	1564	804
	WV-061-004132-001	Waco Oil & Gas Co., Inc.	Northeast Natural Energy LLC	12.5% or Greater	1564	219
	WV-061-005563-001	Noumenon Corporation	Northeast Natural Energy LLC	12.5% or Greater	1667	103
	WV-061-005563-002	Mark V. Eddy	Northeast Natural Energy LLC	12.5% or Greater	1678	329
	WV-061-004564-002	Deanna Cannata	Northeast Natural Energy LLC	12.5% or Greater	1604	846
	WV-061-003758-005	Robert Lee Miller Jr.	Northeast Natural Energy LLC	12.5% or Greater	1559	584
	WV-061-004564-001	Roberta Lynn King	Northeast Natural Energy LLC	12.5% or Greater	1591	730
	WV-061-003693-001	Carmel G. Brookover	Northeast Natural Energy LLC	12.5% or Greater	1535	847
	WV-061-003693-002	Celia P. Askew & Robert L. Askew	Northeast Natural Energy LLC	12.5% or Greater	1557	441
	WV-061-003758-003	Gary Michael Price	Northeast Natural Energy LLC	12.5% or Greater	1548	11
	WV-061-003758-004	Rhonda B. Kraus, fka Rhonda Lovingood	Northeast Natural Energy LLC	12.5% or Greater	1549	606
	WV-061-003758-002	Paulette Flowers	Northeast Natural Energy LLC	12.5% or Greater	1550	209
	WV-061-003758-001	Myra June Neylon & Bruce Neylon	Northeast Natural Energy LLC	12.5% or Greater	1552	422
	WV-061-003693-006	Betty Eileen Roy	Northeast Natural Energy LLC	12.5% or Greater	1554	440
	WV-061-003693-004	Betty Jo King	Northeast Natural Energy LLC	12.5% or Greater	1544	112
	WV-061-003693-005	Patricia Ann Fleming	Northeast Natural Energy LLC	12.5% or Greater	1557	497
	WV-061-003693-009	John M. McLarty	Northeast Natural Energy LLC	12.5% or Greater	1551	239
	WV-061-003693-008	Debbie K. McLarty aka Debbie K. Hebert	Northeast Natural Energy LLC	12.5% or Greater	1554	438
L	WV-061-004387-043	Joshua Blaine Lemley & Noah Blaine Lemley	Northeast Natural Energy LLC	12.5% or Greater	1397	623
	WV-061-004387-044	Judy Hardcastle	Northeast Natural Energy LLC	12.5% or Greater	1642	174
	WV-061-004387-029	Janet McNutt	Northeast Natural Energy LLC	12.5% or Greater	1621	595
	WV-061-004387-055	Patricia McNutt	Northeast Natural Energy LLC	12.5% or Greater	1638	510
	WV-061-004387-045	Karen Deann Smith	Northeast Natural Energy LLC	12.5% or Greater	1626	66
	WV-061-004387-049	Kris Elaine Loomis	Northeast Natural Energy LLC	12.5% or Greater	1626	64
	WV-061-004387-081	Stewart Coffman and Shirley Coffman	Northeast Natural Energy LLC	12.5% or Greater	1627	286
	WV-061-004387-060	Pauline Coffman	Northeast Natural Energy LLC	12.5% or Greater	1621	593
	WV-061-004387-027	Jack D. Vogel and Ruth L. Vogel	Northeast Natural Energy LLC	12.5% or Greater	1627	290
	WV-061-004387-039	Joe A. Vogel	Northeast Natural Energy LLC	12.5% or Greater	1580	752
	WV-061-004387-031	Jeffrey E. Sheets	Northeast Natural Energy LLC	12.5% or Greater	1573	480
	WV-061-004387-060	Mary Moore Postlethwait	Northeast Natural Energy LLC	12.5% or Greater	1571	463
	WV-061-002153-001	Barbara L. Dulaney	Northeast Natural Energy LLC	12.5% or Greater	1571	459
	WV-061-004387-061	Randall J. Moore	Northeast Natural Energy LLC	12.5% or Greater	1571	461
	WV-061-004387-021	Florence Copestick	Northeast Natural Energy LLC	12.5% or Greater	1617	420
	WV-061-004387-109	Virginia G. Hundall	Northeast Natural Energy LLC	12.5% or Greater	1575	276
	WV-061-003927-003	Benjamin C. Sheets	Northeast Natural Energy LLC	12.5% or Greater	1600	61
	WV-061-004387-057	Mary E. Sheets	Northeast Natural Energy LLC	12.5% or Greater	1600	577
	WV-061-004387-085	Theresa Marie Koerber	Northeast Natural Energy LLC	12.5% or Greater	137	731
	WV-061-004387-078	Shella Marzich	Northeast Natural Energy LLC	12.5% or Greater	1643	521
	WV-061-004387-050	Lester Marvin Salisbury	Northeast Natural Energy LLC	12.5% or Greater	1623	517
	WV-061-004387-035	Jerry Lee Koerber	Northeast Natural Energy LLC	12.5% or Greater	1575	441
	WV-061-004387-030	Jeffrey A. Koerber	Northeast Natural Energy LLC	12.5% or Greater	1578	347
	WV-061-003927-006	Brenda K. Gee	Northeast Natural Energy LLC	12.5% or Greater	1604	211
	WV-061-004387-037	Jodi M. Casper	Northeast Natural Energy LLC	12.5% or Greater	1575	443
	WV-061-004387-076	Shannon L. Welch	Northeast Natural Energy LLC	12.5% or Greater	138	140
	WV-061-004387-069	Robert Lee Sheets	Northeast Natural Energy LLC	12.5% or Greater	1573	482
	WV-061-004387-020	Eugene Edward Sheets, by his Limited Conservator, Deana Burton	Northeast Natural Energy LLC	12.5% or Greater	1617	772
	WV-061-003927-002	Barry Lee Koerber	Northeast Natural Energy LLC	12.5% or Greater	138	144
	WV-061-004387-005	Cindy Ann Goff	Northeast Natural Energy LLC	12.5% or Greater	138	136
	WV-061-004387-089	Thomas Gary Koerber	Northeast Natural Energy LLC	12.5% or Greater	1671	389
	WV-061-004387-018	Eric Gerald Koerber	Northeast Natural Energy LLC	12.5% or Greater	138	132
	WV-061-004387-054	Martha E. Piatt	Northeast Natural Energy LLC	12.5% or Greater	1575	447
	WV-061-004387-067	Richard L. Haythorn	Northeast Natural Energy LLC	12.5% or Greater	1575	278
	WV-061-004387-082	Teresa A. McDonald	Northeast Natural Energy LLC	12.5% or Greater	1575	445
	WV-061-004387-025	Holly G. Myers	Northeast Natural Energy LLC	12.5% or Greater	1600	579
	WV-061-004292-002	Carolyn S. Knopp	Northeast Natural Energy LLC	12.5% or Greater	1575	449

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
	WV-061-004387-063	Michael Alexander Iesem	Northeast Natural Energy LLC	12.5% or Greater	1578	527
	WV-061-004387-058	Paul Edward Strokes	Northeast Natural Energy LLC	12.5% or Greater	1670	69
	WV-061-004387-012	David J. Brown	Northeast Natural Energy LLC	12.5% or Greater	1633	453
	WV-061-004387-014	Debra A. Malone	Northeast Natural Energy LLC	12.5% or Greater	1636	114
	WV-061-004387-068	Robert E. Touhsaent	Northeast Natural Energy LLC	12.5% or Greater	1641	348
	WV-061-004387-010	Cynthia M. Touhsaent	Northeast Natural Energy LLC	12.5% or Greater	1629	130
	WV-061-004387-089	Thomas T. Touhsaent	Northeast Natural Energy LLC	12.5% or Greater	165	492
	WV-061-004387-019	Ethel Pearl Simmons	Northeast Natural Energy LLC	12.5% or Greater	1571	465
	WV-061-004387-105	Virgil E. Simmons	Northeast Natural Energy LLC	12.5% or Greater	1571	467
	WV-061-004387-016	Don Carroll Strait	Northeast Natural Energy LLC	12.5% or Greater	1607	768
	WV-061-004387-004	Charmaine Strait Lightner	Northeast Natural Energy LLC	12.5% or Greater	1607	762
	WV-061-004387-062	Rebecca Hixenbaugh	Northeast Natural Energy LLC	12.5% or Greater	1627	288
	WV-061-004387-006	Constance E. Headley Pearson	Northeast Natural Energy LLC	12.5% or Greater	1607	764
	WV-061-004387-103	Vicki L. Headley Hensley	Northeast Natural Energy LLC	12.5% or Greater	1607	770
	WV-061-004387-023	Gary Edwin Huffman	Northeast Natural Energy LLC	12.5% or Greater	1607	766
	WV-061-004387-032	Jeffrey Allen Black	Northeast Natural Energy LLC	12.5% or Greater	1661	781
	WV-061-004387-054	Pam Black	Northeast Natural Energy LLC	12.5% or Greater	1665	766
	WV-061-004387-033	Jerome Tomasetti	Northeast Natural Energy LLC	12.5% or Greater	1665	764
	WV-061-004387-015	Deli Carosone	Northeast Natural Energy LLC	12.5% or Greater	1639	807
	WV-061-004387-074	Sandy M. Grudevich	Northeast Natural Energy LLC	12.5% or Greater	1639	805
	WV-061-004387-028	Jack W. Donahue Jr.	Northeast Natural Energy LLC	12.5% or Greater	1631	265
	WV-061-004387-084	Bruce Donahue	Northeast Natural Energy LLC	12.5% or Greater	1629	13
	WV-061-004387-051	Linda Naypaver	Northeast Natural Energy LLC	12.5% or Greater	1629	15
	WV-061-004387-061	Merla Iannaco	Northeast Natural Energy LLC	12.5% or Greater	1636	104
	WV-061-004387-047	Kennetha Sanchez	Northeast Natural Energy LLC	12.5% or Greater	1647	423
	WV-061-004387-093	Troy Donahue	Northeast Natural Energy LLC	12.5% or Greater	137	192
	WV-061-004387-046	Kenneth Adams	Northeast Natural Energy LLC	12.5% or Greater	1639	803
	WV-061-004387-055	Mary Cherokee	Northeast Natural Energy LLC	12.5% or Greater	1630	255
	WV-061-004387-025	Gary W. Voorhels	Northeast Natural Energy LLC	12.5% or Greater	1611	668
	WV-061-004387-083	Teri Lynn Voorheis Whitecotton	Northeast Natural Energy LLC	12.5% or Greater	1611	670
	WV-061-004387-017	Donald R. Swartz	Northeast Natural Energy LLC	12.5% or Greater	137	188
	WV-061-004430-001	William C. Swartz	Northeast Natural Energy LLC	12.5% or Greater	1661	779
	WV-061-004387-058	Mary Lou Verbosky	Northeast Natural Energy LLC	12.5% or Greater	1675	185
	WV-061-004387-011	Dan Bruce Briggs and Cynthia L. Briggs	Northeast Natural Energy LLC	12.5% or Greater	1578	523
	WV-061-004387-091	Timothy Morgan Briggs	Northeast Natural Energy LLC	12.5% or Greater	137	735
	WV-061-004387-067	Mona Bell Fletcher	Northeast Natural Energy LLC	12.5% or Greater	1578	413
	WV-061-004387-026	Homeport Christian Church, interest of Lois Cummings	Northeast Natural Energy LLC	12.5% or Greater	1586	626
	WV-061-004387-065	Rex B. Tennant II	Northeast Natural Energy LLC	12.5% or Greater	1565	564
	WV-061-004387-081	Sherrie L. Tennant, aka Sherrie Lou Tennant, aka Sherrie Lou Tennant Sussman, aka Sherrie Lou Vernon, aka Sherrie Vernon	Northeast Natural Energy LLC	12.5% or Greater	1566	706
	WV-061-004387-095	Alva William or Billie Wright	Northeast Natural Energy LLC	12.5% or Greater	137	723
	WV-061-004387-036	Joanne Melton	Northeast Natural Energy LLC	12.5% or Greater	1613	26
	WV-061-004387-072	Sammy Hitch Gourley	Northeast Natural Energy LLC	12.5% or Greater	1613	3
	WV-061-004387-056	Patricia Parker	Northeast Natural Energy LLC	12.5% or Greater	1613	1
	WV-061-004387-087	Thomas Fox	Northeast Natural Energy LLC	12.5% or Greater	137	711
	WV-061-003927-010	Brett King	Northeast Natural Energy LLC	12.5% or Greater	138	249
	WV-061-003927-012	Brian Lee King	Northeast Natural Energy LLC	12.5% or Greater	137	703
	WV-061-004387-022	Florence Keele	Northeast Natural Energy LLC	12.5% or Greater	1613	28
	WV-061-004387-013	Dawn Miller	Northeast Natural Energy LLC	12.5% or Greater	1613	787
	WV-061-004387-097	Clarence Albert Wright	Northeast Natural Energy LLC	12.5% or Greater	137	719
	WV-049-004628-001	Allison Marie Lemley	Northeast Natural Energy LLC	12.5% or Greater	137	739
	WV-061-003927-008	Brenda Sue Hall	Northeast Natural Energy LLC	12.5% or Greater	1628	228
	WV-061-004387-001	Carol Ann Wolfe	Northeast Natural Energy LLC	12.5% or Greater	1622	12
	WV-061-004387-073	Rev. Dr. James B. Bowden	Northeast Natural Energy LLC	12.5% or Greater	1619	814
	WV-061-004387-002	Charles Handline	Northeast Natural Energy LLC	12.5% or Greater	137	707
	WV-061-004387-064	Michael S. Wells Sr.	Northeast Natural Energy LLC	12.5% or Greater	1617	744
	WV-061-004387-099	Jack Eugene Wright	Northeast Natural Energy LLC	12.5% or Greater	137	727
	WV-061-004387-101	Leroy Edwin Wright	Northeast Natural Energy LLC	12.5% or Greater	137	715
	WV-061-004387-053	Lynette Wright	Northeast Natural Energy LLC	12.5% or Greater	1612	110
M	WV-049-004628-001	Allison Marie Lemley	Northeast Natural Energy LLC	12.5% or Greater	137	739
	WV-061-004387-095	Alva William or Billie Wright	Northeast Natural Energy LLC	12.5% or Greater	137	723
	WV-061-003927-001	Barbara L. Dulaney	Northeast Natural Energy LLC	12.5% or Greater	1571	459
	WV-061-003927-002	Barry Lee Koerber	Northeast Natural Energy LLC	12.5% or Greater	138	144
	WV-061-003927-003	Benjamin C. Sheets	Northeast Natural Energy LLC	12.5% or Greater	1562	367
	WV-061-003927-006	Brenda K. Gee	Northeast Natural Energy LLC	12.5% or Greater	1604	211
	WV-061-003927-008	Brenda Sue Hall	Northeast Natural Energy LLC	12.5% or Greater	1628	228
	WV-061-003927-010	Brett King	Northeast Natural Energy LLC	12.5% or Greater	138	249
	WV-061-003927-012	Brian Lee King	Northeast Natural Energy LLC	12.5% or Greater	137	703
	WV-061-003927-014	Bruce Donahue	Northeast Natural Energy LLC	12.5% or Greater	1629	13
	WV-061-003927-016	Carol Ann Wolfe	Northeast Natural Energy LLC	12.5% or Greater	1622	12
	WV-061-004292-002	Carolyn S. Knoop	Northeast Natural Energy LLC	12.5% or Greater	1575	449
	WV-061-004387-002	Charles Handline	Northeast Natural Energy LLC	12.5% or Greater	137	707
	WV-061-004387-004	Charmaine Strait Lightner	Northeast Natural Energy LLC	12.5% or Greater	1607	762
	WV-061-004387-005	Cindy Ann Goff	Northeast Natural Energy LLC	12.5% or Greater	138	136
	WV-061-004387-097	Clarence Albert Wright	Northeast Natural Energy LLC	12.5% or Greater	137	719
	WV-061-004387-006	Constance E. Headley Pearson	Northeast Natural Energy LLC	12.5% or Greater	1607	764

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	WV-061-004387-008	Cynthia M. Touhsaent, heir of Rev. Wilson E. Touhsaent, interest of Evelyn Touhsaent	Northeast Natural Energy LLC	12.5% or Greater	1626	56
	WV-061-004387-011	Dan Bruce Briggs and Cynthia L. Briggs	Northeast Natural Energy LLC	12.5% or Greater	1578	523
	WV-061-004387-012	David J. Brown	Northeast Natural Energy LLC	12.5% or Greater	1633	453
	WV-061-004387-013	Dawn Miller	Northeast Natural Energy LLC	12.5% or Greater	1613	787
	WV-061-004387-014	Debra A. Malone	Northeast Natural Energy LLC	12.5% or Greater	1636	114
	WV-061-004387-015	Deli Carosone	Northeast Natural Energy LLC	12.5% or Greater	1639	807
	WV-061-004387-016	Don Carroll Strait	Northeast Natural Energy LLC	12.5% or Greater	1607	768
	WV-061-004387-017	Donald R. Swartz	Northeast Natural Energy LLC	12.5% or Greater	137	188
	WV-061-004387-018	Eric Gerald Koerber	Northeast Natural Energy LLC	12.5% or Greater	138	132
	WV-061-004387-019	Ethel Pearl Simmons	Northeast Natural Energy LLC	12.5% or Greater	1571	465
	WV-061-004387-020	Eugene Edward Sheets, by his Limited Conservator, Deana Burton	Northeast Natural Energy LLC	12.5% or Greater	1617	772
	WV-061-004387-021	Florence Copestick	Northeast Natural Energy LLC	12.5% or Greater	1617	420
	WV-061-004387-022	Florence Keele	Northeast Natural Energy LLC	12.5% or Greater	1613	28
	WV-061-004387-023	Gary Edwin Huffman	Northeast Natural Energy LLC	12.5% or Greater	1607	766
	WV-061-004387-024	Gary W. Voorheis	Northeast Natural Energy LLC	12.5% or Greater	1611	668
	WV-061-004387-025	Holly G. Myers	Northeast Natural Energy LLC	12.5% or Greater	1600	579
	WV-061-004387-026	Homeport Christian Church	Northeast Natural Energy LLC	12.5% or Greater	1586	626
	WV-061-004387-027	Jack D. Vogel and Ruth L. Vogel	Northeast Natural Energy LLC	12.5% or Greater	1627	290
	WV-061-004387-099	Jack Eugene Wright	Northeast Natural Energy LLC	12.5% or Greater	137	727
	WV-061-004387-028	Jack W. Donahue Jr.	Northeast Natural Energy LLC	12.5% or Greater	1631	265
	WV-061-004387-029	Janet McNutt	Northeast Natural Energy LLC	12.5% or Greater	1621	595
	WV-061-004387-030	Jeffrey A. Koerber	Northeast Natural Energy LLC	12.5% or Greater	1578	347
	WV-061-004387-032	Jeffrey Allen Black	Northeast Natural Energy LLC	12.5% or Greater	1661	781
	WV-061-004387-031	Jeffrey E. Sheets	Northeast Natural Energy LLC	12.5% or Greater	1573	480
	WV-061-004387-033	Jerome Tomasetti	Northeast Natural Energy LLC	12.5% or Greater	1665	764
	WV-061-004387-035	Jerry Lee Koerber	Northeast Natural Energy LLC	12.5% or Greater	1575	441
	WV-061-004387-036	Joanne Melton	Northeast Natural Energy LLC	12.5% or Greater	1613	26
	WV-061-004387-037	Jodi M. Casper	Northeast Natural Energy LLC	12.5% or Greater	1575	443
	WV-061-004387-039	Joe A. Vogel	Northeast Natural Energy LLC	12.5% or Greater	1580	752
	WV-061-004387-041	John Welty Stewart	Northeast Natural Energy LLC	12.5% or Greater	1618	609
	WV-061-004387-044	Judy Hardcastle	Northeast Natural Energy LLC	12.5% or Greater	1642	174
	WV-061-004387-045	Karen Diann Smith	Northeast Natural Energy LLC	12.5% or Greater	1626	66
	WV-061-004387-046	Kenneth Adams	Northeast Natural Energy LLC	12.5% or Greater	1639	803
	WV-061-004387-047	Kenneth Sanchez	Northeast Natural Energy LLC	12.5% or Greater	1647	423
	WV-061-004387-049	Kris Elaine Loomis	Northeast Natural Energy LLC	12.5% or Greater	1626	64
	WV-061-004387-101	Leroy Edwin Wright	Northeast Natural Energy LLC	12.5% or Greater	137	715
	WV-061-004387-050	Lester Marvin Salisbury	Northeast Natural Energy LLC	12.5% or Greater	1623	517
	WV-061-004387-051	Linda Naypaver	Northeast Natural Energy LLC	12.5% or Greater	1629	15
	WV-061-004387-053	Lynette Wright	Northeast Natural Energy LLC	12.5% or Greater	1612	110
	WV-061-004387-054	Martha E. Piatt	Northeast Natural Energy LLC	12.5% or Greater	1574	447
	WV-061-004387-055	Mary Cherokee	Northeast Natural Energy LLC	12.5% or Greater	1630	255
	WV-061-004387-057	Mary E. Sheets	Northeast Natural Energy LLC	12.5% or Greater	1600	577
	WV-061-004387-058	Mary Lou Verbosky	Northeast Natural Energy LLC	12.5% or Greater	1675	185
	WV-061-004387-060	Mary Moore Postlethwait	Northeast Natural Energy LLC	12.5% or Greater	1571	463
	WV-061-004387-061	Merla Iannaco	Northeast Natural Energy LLC	12.5% or Greater	1636	104
	WV-061-004387-063	Michael Alexander Lesem	Northeast Natural Energy LLC	12.5% or Greater	1578	527
	WV-061-004387-064	Michael S. Wells Sr.	Northeast Natural Energy LLC	12.5% or Greater	1617	774
	WV-061-004387-067	Mona Bell Fletcher	Northeast Natural Energy LLC	12.5% or Greater	1578	413
	WV-061-004387-054	Pam Black	Northeast Natural Energy LLC	12.5% or Greater	1665	766
	WV-061-004387-055	Patricia McNutt	Northeast Natural Energy LLC	12.5% or Greater	1638	510
	WV-061-004387-056	Patricia Parker	Northeast Natural Energy LLC	12.5% or Greater	1613	1
	WV-061-004387-058	Paul Edward Strokes	Northeast Natural Energy LLC	12.5% or Greater	1671	69
	WV-061-004387-060	Pauline Coffman	Northeast Natural Energy LLC	12.5% or Greater	1621	593
	WV-061-004387-060	Randall J. Moore	Northeast Natural Energy LLC	12.5% or Greater	1571	461
	WV-061-004387-062	Rebecca Hixenbaugh	Northeast Natural Energy LLC	12.5% or Greater	1627	288
	WV-061-004387-073	Rev. Dr. James B. Bowden	Northeast Natural Energy LLC	12.5% or Greater	1619	814
	WV-061-004387-065	Rex B. Tennant II	Northeast Natural Energy LLC	12.5% or Greater	1565	564
	WV-061-004387-067	Richard L. Haythorn	Northeast Natural Energy LLC	12.5% or Greater	1575	278
	WV-061-004387-068	Robert E. Touhsaent	Northeast Natural Energy LLC	12.5% or Greater	1641	348
	WV-061-004387-069	Robert Lee Sheets	Northeast Natural Energy LLC	12.5% or Greater	1573	482
	WV-061-004387-070	Ruthie V. Dennis	Northeast Natural Energy LLC	12.5% or Greater	1618	573
	WV-061-004387-072	Sammy Hitch Gourley	Northeast Natural Energy LLC	12.5% or Greater	1613	3
	WV-061-004387-074	Sandy M. Grudevich	Northeast Natural Energy LLC	12.5% or Greater	1639	805
	WV-061-004387-076	Shannon L. Welch	Northeast Natural Energy LLC	12.5% or Greater	1561	828
	WV-061-004387-078	Shella Marzich	Northeast Natural Energy LLC	12.5% or Greater	1643	521
	WV-061-004387-081	Sherrie L. Tennant, aka Sherrie Lou Tennant, aka Sherrie Lou Tennant Sussman, aka Sherrie Lou Vernon, aka Sherrie Vernon	Northeast Natural Energy LLC	12.5% or Greater	1566	706
	WV-061-004387-081	Stewart Coffman and Shirley Coffman	Northeast Natural Energy LLC	12.5% or Greater	1627	286
	WV-061-004387-082	Teresa A. McDonald	Northeast Natural Energy LLC	12.5% or Greater	1575	445
	WV-061-004387-083	Teri Lynn Voorheis Whitecotton	Northeast Natural Energy LLC	12.5% or Greater	1611	670
	WV-061-004387-085	Theresa Marie Koerber	Northeast Natural Energy LLC	12.5% or Greater	137	731
	WV-061-004387-087	Thomas Fox	Northeast Natural Energy LLC	12.5% or Greater	137	711
	WV-061-004387-089	Thomas Gary Koerber	Northeast Natural Energy LLC	12.5% or Greater	1671	389
	WV-061-004387-089	Thomas T. Touhsaent	Northeast Natural Energy LLC	12.5% or Greater	1615	492
	WV-061-004387-091	Timothy Morgan Briggs	Northeast Natural Energy LLC	12.5% or Greater	137	735

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	WV-061-004387-106	Virgil E. Simmons	Northeast Natural Energy LLC	12.5% or Greater	1571	467
	WV-061-004387-109	Virginia G. Hundall	Northeast Natural Energy LLC	12.5% or Greater	1575	279
	WV-061-004430-001	William C. Swartz	Northeast Natural Energy LLC	12.5% or Greater	1661	779
	WV-061-004387-043	Willie B. Lemley & Wendy Lemley	Northeast Natural Energy LLC	12.5% or Greater	1397	623
N	WV-061-004387-095	Alva William or Billie Wright	Northeast Natural Energy LLC	12.5% or Greater	137	723
	WV-061-004387-087	Thomas Fox	Northeast Natural Energy LLC	12.5% or Greater	137	711
	WV-061-002153-001	Barbara Lynn Dulaney	Northeast Natural Energy LLC	12.5% or Greater	1571	459
	WV-061-003927-002	Barry Lee Koerber	Northeast Natural Energy LLC	12.5% or Greater	138	144
	WV-061-003927-003	Benjamin C. Sheets	Northeast Natural Energy LLC	12.5% or Greater	1600	61
	WV-061-003927-006	Brenda K. Gee	Northeast Natural Energy LLC	12.5% or Greater	1604	211
	WV-061-003927-010	Brett King	Northeast Natural Energy LLC	12.5% or Greater	138	249
	WV-061-003927-012	Brian Lee King	Northeast Natural Energy LLC	12.5% or Greater	137	703
	WV-061-004292-002	Carolyn S. Knoop	Northeast Natural Energy LLC	12.5% or Greater	1575	449
	WV-061-004387-022	Florence Keele	Northeast Natural Energy LLC	12.5% or Greater	1613	28
	WV-061-004387-013	Dawn Miller	Northeast Natural Energy LLC	12.5% or Greater	1613	787
	WV-061-004387-004	Charmaine Strait Lightner	Northeast Natural Energy LLC	12.5% or Greater	1607	762
	WV-061-004387-005	Cindy Ann Goff	Northeast Natural Energy LLC	12.5% or Greater	138	136
	WV-061-004387-097	Clarence Albert Wright	Northeast Natural Energy LLC	12.5% or Greater	137	719
	WV-061-004387-036	Joanne Melton	Northeast Natural Energy LLC	12.5% or Greater	1613	26
	WV-061-004387-072	Sammy Hitch Gourley	Northeast Natural Energy LLC	12.5% or Greater	1613	3
	WV-061-004387-056	Patricia Parker	Northeast Natural Energy LLC	12.5% or Greater	1613	1
	WV-061-004387-006	Constance E. Headley Pearson	Northeast Natural Energy LLC	12.5% or Greater	1607	764
	WV-061-004387-044	Judy Hardcastle	Northeast Natural Energy LLC	12.5% or Greater	1542	174
	WV-061-004387-029	Janet McNutt	Northeast Natural Energy LLC	12.5% or Greater	1621	595
	WV-061-004387-055	Patricia McNutt	Northeast Natural Energy LLC	12.5% or Greater	1638	510
	WV-061-004387-045	Karen Diann Smith	Northeast Natural Energy LLC	12.5% or Greater	1626	66
	WV-061-004387-049	Kris Elaine Loomis	Northeast Natural Energy LLC	12.5% or Greater	1626	64
	WV-061-004387-081	Stewart Coffman and Shirley Coffman	Northeast Natural Energy LLC	12.5% or Greater	1627	286
	WV-061-004387-060	Pauline Coffman	Northeast Natural Energy LLC	12.5% or Greater	1621	593
	WV-061-004387-010	Cynthia M. Toussaent	Northeast Natural Energy LLC	12.5% or Greater	1629	130
	WV-061-004387-011	Dan Bruce Briggs and Cynthia L. Briggs	Northeast Natural Energy LLC	12.5% or Greater	1578	523
	WV-049-004628-001	Allison Marie Lemley	Northeast Natural Energy LLC	12.5% or Greater	137	739
	WV-061-003927-008	Brenda Sue Hall	Northeast Natural Energy LLC	12.5% or Greater	1628	228
	WV-061-004387-001	Carol Ann Wolfe	Northeast Natural Energy LLC	12.5% or Greater	1622	12
	WV-061-004387-073	Rev. Dr. James B. Bowden	Northeast Natural Energy LLC	12.5% or Greater	1619	814
	WV-061-004387-016	Don Carroll Strait	Northeast Natural Energy LLC	12.5% or Greater	1607	768
	WV-061-004387-017	Donald R. Swartz	Northeast Natural Energy LLC	12.5% or Greater	137	188
	WV-061-004387-012	David J. Brown	Northeast Natural Energy LLC	12.5% or Greater	1633	453
	WV-061-004387-062	Rebecca Hixenbaugh	Northeast Natural Energy LLC	12.5% or Greater	1627	288
	WV-061-004387-002	Charles Handline	Northeast Natural Energy LLC	12.5% or Greater	137	707
	WV-061-004385-016	Eric Verbosky and Sara Verbosky	Northeast Natural Energy LLC	12.5% or Greater	1595	439
	WV-061-004387-019	Ethel Pearl Simmons	Northeast Natural Energy LLC	12.5% or Greater	1571	465
	WV-061-004387-064	Michael S. Wells Sr.	Northeast Natural Energy LLC	12.5% or Greater	1617	774
	WV-061-004387-020	Eugene Edward Sheets, by his Limited Conservator, Deana Burton	Northeast Natural Energy LLC	12.5% or Greater	1617	772
	WV-061-004387-021	Florence Copestick	Northeast Natural Energy LLC	12.5% or Greater	1617	420
	WV-061-004387-023	Gary Edwin Huffman	Northeast Natural Energy LLC	12.5% or Greater	1607	766
	WV-061-004387-024	Gary W. Voorheis	Northeast Natural Energy LLC	12.5% or Greater	1611	668
	WV-061-004387-089	Thomas Gary Koerber	Northeast Natural Energy LLC	12.5% or Greater	1671	389
	WV-061-004387-018	Eric Gerald Koerber	Northeast Natural Energy LLC	12.5% or Greater	138	132
	WV-061-004387-025	Holly G. Myers	Northeast Natural Energy LLC	12.5% or Greater	1600	579
	WV-061-004387-026	Homeport Christian Church	Northeast Natural Energy LLC	12.5% or Greater	1586	626
	WV-061-004387-027	Jack D. Vogel and Ruth L. Vogel	Northeast Natural Energy LLC	12.5% or Greater	1627	290
	WV-061-004387-099	Jack Eugene Wright	Northeast Natural Energy LLC	12.5% or Greater	137	727
	WV-061-004387-030	Jeffrey A. Koerber	Northeast Natural Energy LLC	12.5% or Greater	1578	347
	WV-061-004387-031	Jeffrey E. Sheets	Northeast Natural Energy LLC	12.5% or Greater	1573	387
	WV-061-004387-035	Jerry Lee Koerber	Northeast Natural Energy LLC	12.5% or Greater	1575	441
	WV-061-004387-037	Jodi M. Casper	Northeast Natural Energy LLC	12.5% or Greater	1575	443
	WV-061-004387-039	Joe A. Vogel	Northeast Natural Energy LLC	12.5% or Greater	1580	752
	WV-061-004387-058	Mary Lou Verbosky	Northeast Natural Energy LLC	12.5% or Greater	1675	185
	WV-061-004387-032	Jeffrey Allen Black	Northeast Natural Energy LLC	12.5% or Greater	1661	781
	WV-061-004387-054	Pam Black	Northeast Natural Energy LLC	12.5% or Greater	1665	766
	WV-061-004387-033	Jerome Tomasetti	Northeast Natural Energy LLC	12.5% or Greater	1665	764
	WV-061-004387-015	Deli Carosone	Northeast Natural Energy LLC	12.5% or Greater	1639	807
	WV-061-004387-074	Sandy M. Grudevich	Northeast Natural Energy LLC	12.5% or Greater	1639	805
	WV-061-004387-028	Jack W. Donahue Jr.	Northeast Natural Energy LLC	12.5% or Greater	1631	265
	WV-061-003927-014	Bruce Donahue	Northeast Natural Energy LLC	12.5% or Greater	1629	13
	WV-061-004387-051	Linda Naypaver	Northeast Natural Energy LLC	12.5% or Greater	1629	15
	WV-061-004387-061	Merla Iannaço	Northeast Natural Energy LLC	12.5% or Greater	1636	104
	WV-061-004387-047	Kennetha Sanchez	Northeast Natural Energy LLC	12.5% or Greater	1647	423
	WV-061-004387-093	Troy Donahue	Northeast Natural Energy LLC	12.5% or Greater	137	192
	WV-061-004387-046	Kenneth Adams	Northeast Natural Energy LLC	12.5% or Greater	1639	803
	WV-061-004387-055	Mary Cherokee	Northeast Natural Energy LLC	12.5% or Greater	1630	255
	WV-061-004387-101	Leroy Edwin Wright	Northeast Natural Energy LLC	12.5% or Greater	137	715
	WV-061-004387-050	Lester Marvin Salisbury	Northeast Natural Energy LLC	12.5% or Greater	1623	517
	WV-061-004387-053	Lynette Wright	Northeast Natural Energy LLC	12.5% or Greater	1612	110

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	WV-061-004387-054	Martha E. Piatt	Northeast Natural Energy LLC	12.5% or Greater	1575	447
	WV-061-004387-057	Mary E. Sheets	Northeast Natural Energy LLC	12.5% or Greater	1600	577
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	WV-061-004387-067	Mona Bell Fletcher	Northeast Natural Energy LLC	12.5% or Greater	1578	413
	WV-061-004387-058	Paul Edward Strokes	Northeast Natural Energy LLC	12.5% or Greater	1670	69
	WV-061-004387-061	Randall J. Moore	Northeast Natural Energy LLC	12.5% or Greater	1571	461
	WV-061-004387-085	Theresa Marie Koerber	Northeast Natural Energy LLC	12.5% or Greater	137	731
	WV-061-004387-065	Rex B. Tennant II	Northeast Natural Energy LLC	12.5% or Greater	1565	564
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	WV-061-004443-010	Shannon L. Welch	Northeast Natural Energy LLC	12.5% or Greater	138	140
	WV-061-004387-078	Shella Marzich	Northeast Natural Energy LLC	12.5% or Greater	1643	521
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	WV-061-004387-109	Virginia G. Hudnall	Northeast Natural Energy LLC	12.5% or Greater	1575	276
	WV-061-004430-001	William C. Swartz	Northeast Natural Energy LLC	12.5% or Greater	1661	779
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	WV-061-001943-022	Mary Moore Postlethwait	Northeast Natural Energy LLC	12.5% or Greater	1557	405
	WV-061-001943-028	Randall Moore	Northeast Natural Energy LLC	12.5% or Greater	562	7
	WV-061-001943-019	Barbara Lynn Dulaney	Northeast Natural Energy LLC	12.5% or Greater	1557	399
	WV-061-003927-011	Virginia G. Hundall	Northeast Natural Energy LLC	12.5% or Greater	1575	276
	WV-061-001943-012	Benjamin C. Sheets, a/k/a Benjamin Clair Sheets	Northeast Natural Energy LLC	12.5% or Greater	1562	367
	WV-061-001943-010	Michael T. Sheets	Northeast Natural Energy LLC	12.5% or Greater	1562	371
	WV-061-001943-031	Shannon L. Welch	Northeast Natural Energy LLC	12.5% or Greater	1561	828
	WV-061-001943-015	Robert Lee Sheets	Northeast Natural Energy LLC	12.5% or Greater	1557	403
	WV-061-004387-048	Eugene Edward Sheets, by his limited Conservator, Deana Burton	Northeast Natural Energy LLC	12.5% or Greater	1617	772
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	WV-061-003881-001	Brenda K. Gee	Northeast Natural Energy LLC	12.5% or Greater	1553	637
	WV-061-001943-006	Jodi M. Casper	Northeast Natural Energy LLC	12.5% or Greater	1541	788
	WV-061-001943-026	Barry L. Koerber	Northeast Natural Energy LLC	12.5% or Greater	1562	9
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	WV-061-001943-025	Teresa A. McDonald	Northeast Natural Energy LLC	12.5% or Greater	1566	438
	WV-061-001943-009	Carolyn S. Knoop, f/k/a Carolyn S. Berry	Northeast Natural Energy LLC	12.5% or Greater	1562	365
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	WV-061-004387-093	William C. Swartz	Northeast Natural Energy LLC	12.5% or Greater	1661	779
	WV-061-001943-005	Sherrie L. Tennant, a/k/a Sherrie Lou Tennant, a/k/a Sherrie Lou Tennant Sussman, a/k/a Sherrie Lou Vernon, a/k/a Sherrie Vernon	Northeast Natural Energy LLC	12.5% or Greater	1538	336
	WV-061-001943-004	Rex B. Tennant II	Northeast Natural Energy LLC	12.5% or Greater	1538	548
	WV-061-004387-110	Mary Lou Verbosky	Northeast Natural Energy LLC	12.5% or Greater	1675	185
	WV-061-004387-002	Dan Bruce Briggs and Cynthia L. Briggs	Northeast Natural Energy LLC	12.5% or Greater	1578	523
	WV-061-004387-108	Timothy Morgan Briggs	Northeast Natural Energy LLC	12.5% or Greater	137	735
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	WV-061-004387-059	Janet McNutt	Northeast Natural Energy LLC	12.5% or Greater	1621	595
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	WV-061-004387-066	Stewart Coffman and Shirley Coffman	Northeast Natural Energy LLC	12.5% or Greater	1627	286
	WV-061-004387-058	Pauline Coffman	Northeast Natural Energy LLC	12.5% or Greater	1621	593
	WV-061-004387-053	John Welty Stewart	Northeast Natural Energy LLC	12.5% or Greater	1618	609
	WV-061-004387-052	Ruthie V. Dennis	Northeast Natural Energy LLC	12.5% or Greater	1618	573
	WV-061-003684-001	Mary Lou Verbosky	Northeast Natural Energy LLC	12.5% or Greater	1557	501
	WV-061-004387-105	Alva William or Billie Wright	Northeast Natural Energy LLC	12.5% or Greater	137	723
	WV-061-004387-040	Joanne Melton	Northeast Natural Energy LLC	12.5% or Greater	1613	26
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	WV-061-004387-038	Patricia Parker	Northeast Natural Energy LLC	12.5% or Greater	1613	1
	WV-061-004387-102	Thomas Fox	Northeast Natural Energy LLC	12.5% or Greater	137	711
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	WV-061-004387-042	Dawn Miller	Northeast Natural Energy LLC	12.5% or Greater	1613	787
	WV-061-004387-104	Clarence Albert Wright	Northeast Natural Energy LLC	12.5% or Greater	137	719
	WV-061-004387-109	Allison Marie Lemley	Northeast Natural Energy LLC	12.5% or Greater	137	739
	WV-061-004387-071	Brenda Sue Hall	Northeast Natural Energy LLC	12.5% or Greater	1628	228
	WV-061-004387-057	Carol Ann Wolfe	Northeast Natural Energy LLC	12.5% or Greater	1622	12
	WV-061-004387-056	Rev. Dr. James B. Bowden	Northeast Natural Energy LLC	12.5% or Greater	1619	817
	WV-061-004387-101	Charles Handline	Northeast Natural Energy LLC	12.5% or Greater	137	707
	WV-061-004387-051	Michael S. Wells Sr.	Northeast Natural Energy LLC	12.5% or Greater	1617	774
	WV-061-004387-106	Jack Eugene Wright	Northeast Natural Energy LLC	12.5% or Greater	137	727
	WV-061-004387-103	Leroy Edwin Wright	Northeast Natural Energy LLC	12.5% or Greater	137	715
	WV-061-004387-019	Lynette Wright	Northeast Natural Energy LLC	12.5% or Greater	1612	110
P	WV-061-005332-001	CNX Gas Company, LLC	Northeast Natural Energy LLC	12.5% or Greater	1632	789
Q	WV-061-005332-001	CNX Gas Company, LLC	Northeast Natural Energy LLC	12.5% or Greater	1632	789
R	WV-061-005332-001	CNX Gas Company, LLC	Northeast Natural Energy LLC	12.5% or Greater	1632	789
S	WV-061-005332-001	CNX Gas Company, LLC	Northeast Natural Energy LLC	12.5% or Greater	1632	789

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FEB 26 2020

West Virginia Department of
Environmental Protection



January 23, 2020

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

RE: Cummins 2H, 6H, 14H

Dear Permit Reviewer:

Please be advised that Northeast Natural Energy LLC has the right to drill, extract and produce the minerals beneath the roads identified as Days Run Road (Route 25), Memorial Road (Route 20), and Loge Tennant Road (CR 20/1).

Sincerely,



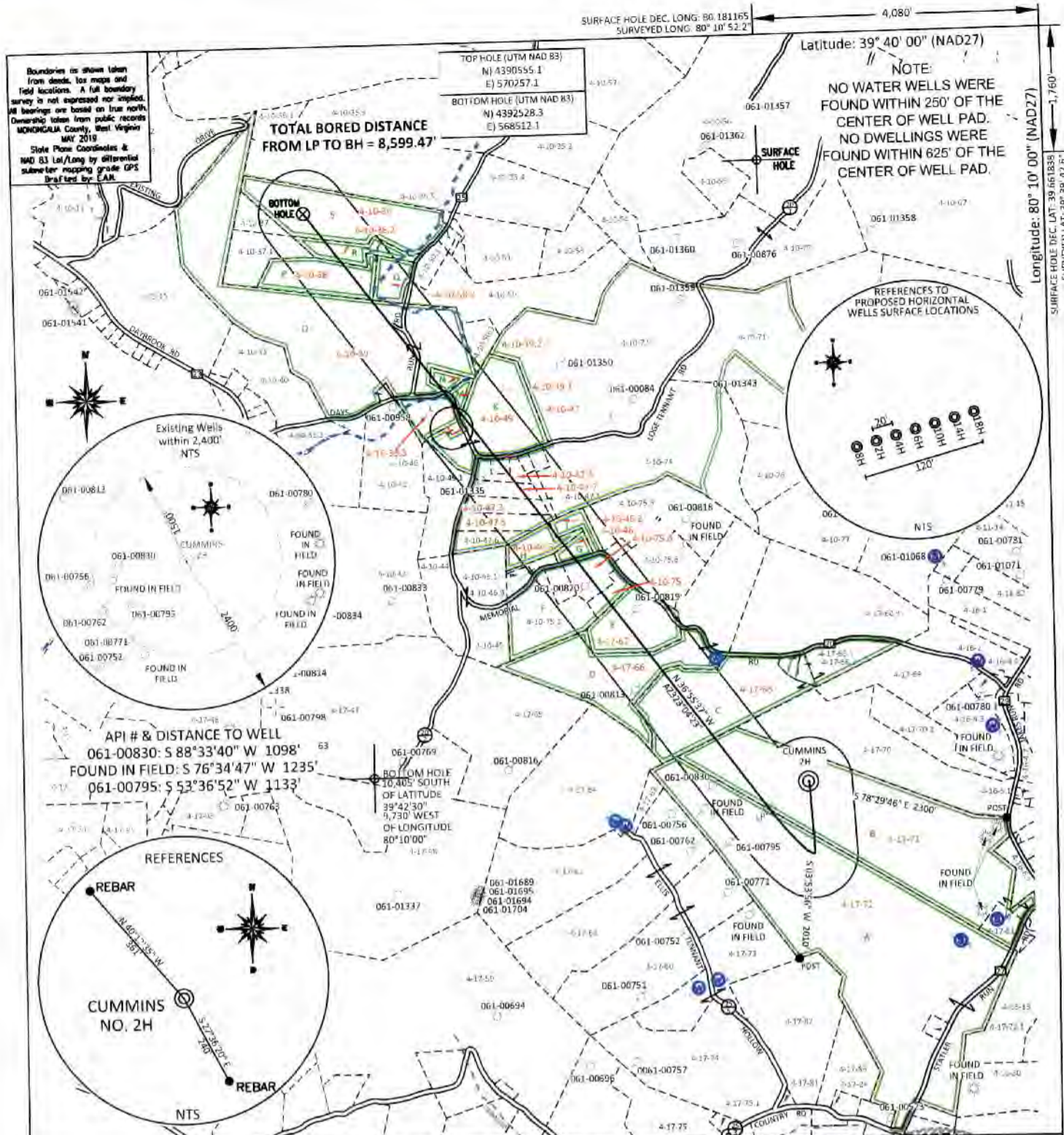
Charles Dornetto
Manager – Land Operations

Enclosure

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Office of Oil and Gas

FEB 26 2020

WV Department of
Environmental Protection



FILE #: NNE15
 DRAWING #: 2943
 SCALE: PLAT: 1" = 1600'
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 Diposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: DUNKARD CREEK
 COUNTY/DISTRICT: MONONGALIA / CLAY
 SURFACE OWNER: JERRY L. YOST ET AL
 OIL & GAS ROYALTY OWNER: NNE LLC, et al
 LEASE NUMBERS: _____

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

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

DATE: FEBRUARY 18, 2020
 OPERATOR'S WELL #: CUMMINS 2H
 API WELL #: 47 61 01829 MOD
 STATE COUNTY PERMIT
 CURRENT ELEVATION: 1,374'
 PROPOSED ELEVATION: 1,358.25'
 QUADRANGLE: BLACKSVILLE
 ACREAGE: 81.472 +/-
 ACREAGE: 674.928 +/-
 ESTIMATED DEPTH: TVD:8,070' TMD:17,185'
 DESIGNATED AGENT: JOHN ADAMS
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

PROPERTY OWNER INDEX	
4-17-71	JERRY L. YOST ET AL
4-17-72	JERRY L YOST
4-17-68	LEONARD MICHAEL YOHO
4-17-66	MELVIN LUTHER EDDY ET AL
4-17-67	LISA D & STEVEN E WHITE
4-10-75	RICKY N & DOUGLAS N WILSON
4-10-75.8	DOUGLAS N WILSON
4-10-46.5	EDWARD & AVA MARIE TENNANT
4-10-46.2	EDWARD & AVA MARIE TENNANT
4-10-46	JOHN BELL & STEPHANIE WILSON
4-10-47.5	ROBERT JOE TENNANT
4-10-47.3	ROBERT JOE TENNANT
4-10-47.7	WILLIAM G & MARY L TENNANT
4-10-47.4	WILLIAM G & MARY L TENNANT
4-10-49	BILLY JO & JANET EDDY
4-10-39.3	JOSHUA BLAINE & NOAH BLAINE LEMLEY
4-10-47	ROBERT JOE TENNANT
4-10-39.1	WILLIE B & WENDY LEMLEY
4-10-39	MARY LOU VERBOSKY
4-10-38	JASON G STOUT
4-10-50.2	JASON G STOUT
4-10-39.2	ERIC & SARA VERBOSKY
4-10-36.2	JASON G STOUT
4-10-36	JASON G STOUT

LEASE INDEX			
A	WV-061-003499-001	J	WV-061-003693-002
B	WV-061-004599-060	K	WV-061-003693-002
C	WV-061-00127-001-LA	L	WV-061-004387-087
D	WV-061-003023-014	M	WV-061-004387-092
E	WV-061-001620-008	N	WV-061-004387-092
F	WV-061-003837-008	O	WV-061-004387-087
G	WV-061-003255-001	P	WV-061-005332-001
H	WV-061-003255-001	Q	WV-061-005332-001
I	WV-061-003255-001	R	WV-061-005332-001
		S	WV-061-005332-001

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

FILE #: NEE15

DRAWING #: 2943

SCALE: N/A

DATE: FEBRUARY 18, 2020

OPERATOR'S WELL #: CUMMINS 2H

API WELL #: 47 61 01828 MOD
STATE COUNTY PERMIT