



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 14H
47-061-01840-00-00

NORTHEAST NATURAL ENERGY LLC

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

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

James A. Martin
Chief

Operator's Well Number: CUMMINS 14H
Farm Name: JERRY L. YOST ET AL
U.S. WELL NUMBER: 47-061-01840-00-00
Horizontal 6A New Drill
Date Modification Issued: 4/16/2020

Promoting a healthy environment.

WW-6B
(04/15)

4706101840
API NO. 47- _____
OPERATOR WELL NO. 14H
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: 14H 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: 15,447'

11) Proposed Horizontal Leg Length: 6,581'

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	15,447'	15,417'	3525 Cu Ft
Tubing	2-7/8"	New	N-80	6.5			NA
Liners							

MJK 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 will be drilled on air to an approximate depth of 5,372' TVD/MD. The well will then be horizontally drilled on synthetic based mud from the KOP to approximately 8,070' TVD/15,447' MD along a 323° azimuth

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

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

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

4706101840



NORTHEAST NATURAL ENERGY, LLC

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

Slot: Slot #14
 Well: Cummins 14H
 Wellbore: Cummins 14H PWB

Reference Wellbore Cummins 24H PWB E-01	Grid System: NAD83 / Lambert Vertical Spheroid / North Zone (NAD83) / US Feet
The vertical depths are referenced to the datum of 1988 (NA 89)	North Reference Grid Ref.
Reference Wellbore Cummins 24H PWB E-01	Scale: True distance
Reference Wellbore Cummins 24H PWB E-01	Coordinates are in feet referenced to SGA
Reference Wellbore Cummins 24H PWB E-01	Depths are in feet
Reference Wellbore Cummins 24H PWB E-01	Created by: slp on 2020-02-26 09:56:14 AM, User: VA_JRN_LEASTRIBUS_DAM



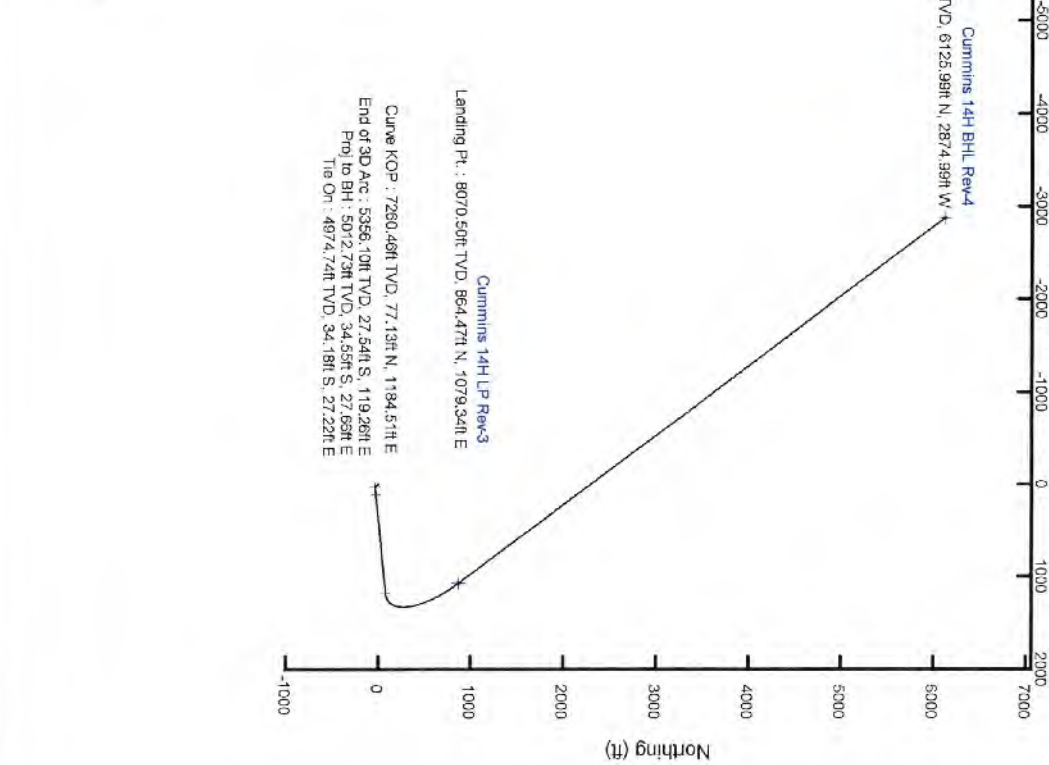
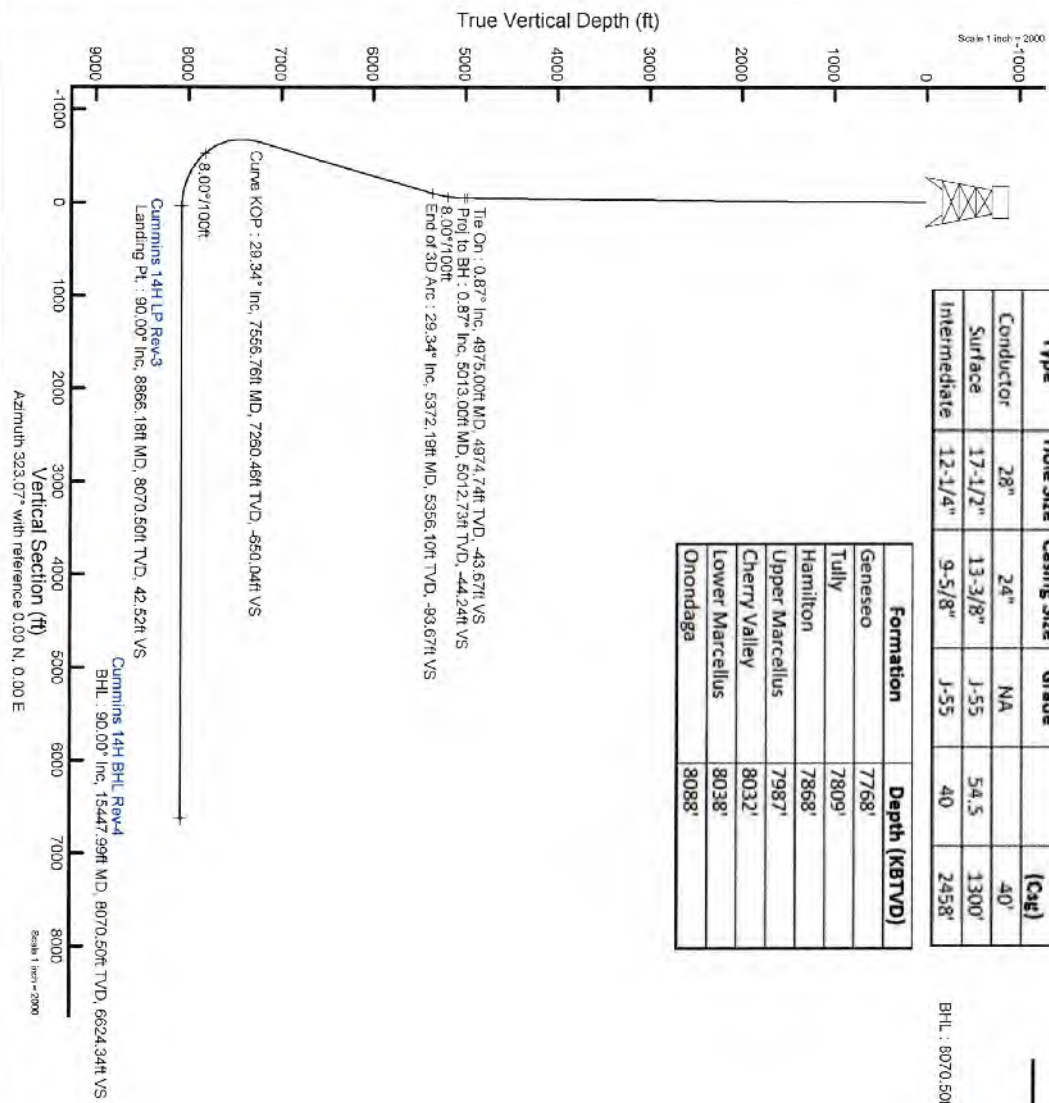
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Type	Hole Size	Casing Size	Grade	GL Depth (Csg)
Conductor	28"	24"	NA	40'
Surface	17-1/2"	13-3/8"	J-55	54.5
Intermediate	12-1/4"	9-5/8"	J-55	40
				2458'

Formation	Depth (KBTVD)
Genesee	7768'
Tully	7809'
Hamilton	7868'
Upper Marcellus	7987'
Cherry Valley	8032'
Lower Marcellus	8038'
Onondaga	8088'



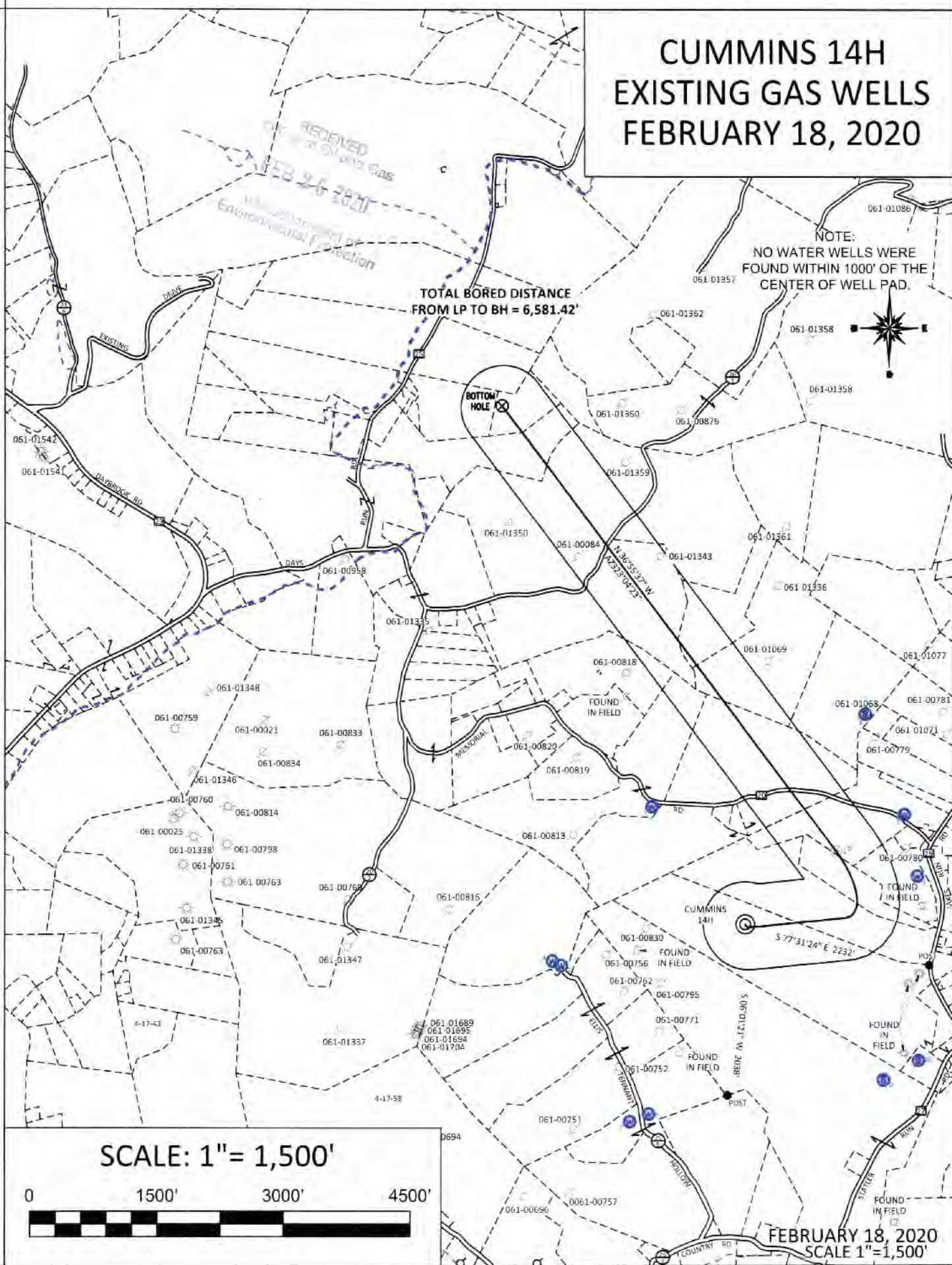
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CUMMINS 14H EXISTING GAS WELLS FEBRUARY 18, 2020

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Department of Environmental Protection

NOTE:
NO WATER WELLS WERE
FOUND WITHIN 1000' OF THE
CENTER OF WELL PAD.

TOTAL BORED DISTANCE
FROM LP TO BH = 6,581.42'



SCALE: 1" = 1,500'



FEBRUARY 18, 2020
SCALE 1" = 1,500'

4706101840

Cummins 14H Area of Review									
API Number	Well Name	Well Number	Operator	Latitude (NAD 27)	Longitude (NAD 27)	TMP	TVD	Comments	
47-061-00084	Brookover	1	Oper in Min. owner fld, no code assign (Orphan well proj)	39.673902	-80.187852	4-10-72	3267	Plugged 8/8/90	
47-061-01343	R B Bays	NA	Atkinson, Roger L.	39.673894	-80.184402	4-10-74	800	Plugged 11/5/15	

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West Virginia Department of
Environmental Protection

WW-6A1
(5/13)

Operator's Well No. Cummins 14H

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
See Attached				

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Northeast Natural Energy LLC
 By: Hollie Medley *Hollie Medley*
 Its: Regulatory Manager

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WV Department of
Environmental Protection

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
A	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
B	WV-061-004599-060	Diana Adamson	Northeast Natural Energy LLC	12.5% or Greater	1636	163
	WV-061-003674-017	Kenneth Arnett	Northeast Natural Energy LLC	12.5% or Greater	1562	199
	WV-061-003674-006	Robert Arnett	Northeast Natural Energy LLC	12.5% or Greater	1550	487
	WV-061-003674-020	W. Keith Arnett	Northeast Natural Energy LLC	12.5% or Greater	1564	673
	WV-061-004599-037	Dorothy R. Back	Northeast Natural Energy LLC	12.5% or Greater	1608	22
	WV-061-003708-006	Eileen Bane	Northeast Natural Energy LLC	12.5% or Greater	1541	303
	WV-061-003708-007	Ruby Brookover	Northeast Natural Energy LLC	12.5% or Greater	1545	774
	WV-061-003856-076	Connie Brooks	Northeast Natural Energy LLC	12.5% or Greater	1593	600
	WV-061-003674-007	Arleen L. Burke	Northeast Natural Energy LLC	12.5% or Greater	1550	491
	WV-061-004599-023	Dorothy Cheek	Northeast Natural Energy LLC	12.5% or Greater	1610	584
	WV-061-003856-078	Bonnie Chisholm	Northeast Natural Energy LLC	12.5% or Greater	1593	644
	WV-061-003856-075	Jacky Chisler	Northeast Natural Energy LLC	12.5% or Greater	1593	588
	WV-061-003856-066	Clindy Conner	Northeast Natural Energy LLC	12.5% or Greater	1589	141
	WV-061-003856-009	Frederick Conner	Northeast Natural Energy LLC	12.5% or Greater	1565	626
	WV-061-003856-072	James Conner	Northeast Natural Energy LLC	12.5% or Greater	1590	323
	WV-061-003856-008	John C. Conner	Northeast Natural Energy LLC	12.5% or Greater	1564	665
	WV-061-003856-036	Loretta Cook	Northeast Natural Energy LLC	12.5% or Greater	1579	803
	WV-061-003856-038	Paul Cook	Northeast Natural Energy LLC	12.5% or Greater	1579	815
	WV-061-003856-024	Cheryl Copeland	Northeast Natural Energy LLC	12.5% or Greater	1577	825
	WV-061-004599-017	Connie Copeland	Northeast Natural Energy LLC	12.5% or Greater	1606	750
	WV-061-004599-041	Leora Mae Sayers aka Leora Mae Corder	Northeast Natural Energy LLC	12.5% or Greater	1610	368
	WV-061-003856-044	Gloria Cox	Northeast Natural Energy LLC	12.5% or Greater	1580	182
	WV-061-003856-074	Patricia Crowley	Northeast Natural Energy LLC	12.5% or Greater	1593	668
	WV-061-004599-044	Virginia Dailey	Northeast Natural Energy LLC	12.5% or Greater	1614	791
	WV-061-003674-031	Terry Eberhart	Northeast Natural Energy LLC	12.5% or Greater	1563	206
	WV-061-003856-054	Marguerite Eddy	Northeast Natural Energy LLC	12.5% or Greater	1588	397
	WV-061-003708-013	Vada Eddy	Northeast Natural Energy LLC	12.5% or Greater	1565	556
	WV-061-003708-011	Vanessa Eddy	Northeast Natural Energy LLC	12.5% or Greater	1564	327
	WV-061-003843-001	Nellie M. Elder	Northeast Natural Energy LLC	12.5% or Greater	1564	669
	WV-061-003843-002	Nancy Elkins	Northeast Natural Energy LLC	12.5% or Greater	1564	374
	WV-061-004599-061	Jean Emory	Northeast Natural Energy LLC	12.5% or Greater	1636	739
	WV-061-004599-064	Tina Marie Tennant Flynn	Northeast Natural Energy LLC	12.5% or Greater	1643	820
	WV-061-004599-021	Sherry Irene Frazier	Northeast Natural Energy LLC	12.5% or Greater	1613	38
	WV-061-004599-065	Lori Frederick	Northeast Natural Energy LLC	12.5% or Greater	1646	45
	WV-061-003856-023	Carolyn Fullton	Northeast Natural Energy LLC	12.5% or Greater	1577	789
	WV-061-003856-011	Sandy Gatwood	Northeast Natural Energy LLC	12.5% or Greater	1557	435
	WV-061-003856-063	Tammy S. Gill	Northeast Natural Energy LLC	12.5% or Greater	1589	467
	WV-061-003856-034	Brenda Gribble	Northeast Natural Energy LLC	12.5% or Greater	1576	845
	WV-061-003856-079	Ellen J. Haines	Northeast Natural Energy LLC	12.5% or Greater	1594	600
	WV-061-004599-053	Earl Hall	Northeast Natural Energy LLC	12.5% or Greater	1619	409
	WV-061-003856-045	Richard Hamilton	Northeast Natural Energy LLC	12.5% or Greater	1580	185
	WV-061-003856-016	Curtis Harrell	Northeast Natural Energy LLC	12.5% or Greater	1562	373
	WV-061-004599-039	Billy C. Haught	Northeast Natural Energy LLC	12.5% or Greater	1619	403
	WV-061-003856-027	Michael Haught	Northeast Natural Energy LLC	12.5% or Greater	1576	831
	WV-061-003856-028	Alden Henderson	Northeast Natural Energy LLC	12.5% or Greater	1576	833
	WV-061-003674-010	Wilma Higgins	Northeast Natural Energy LLC	12.5% or Greater	1542	91
WV-061-003856-084	Donna Huffman	Northeast Natural Energy LLC	12.5% or Greater	1607	58	
WV-061-004599-056	Helen Hull	Northeast Natural Energy LLC	12.5% or Greater	1642	57	
WV-061-004599-038	Larry D. Hull	Northeast Natural Energy LLC	12.5% or Greater	1614	788	
WV-061-003856-013	John W. Hunnell, aka, John Wayne Hunnell	Northeast Natural Energy LLC	12.5% or Greater	1565	307	
WV-061-003674-030	Dianne Hunnell	Northeast Natural Energy LLC	12.5% or Greater	1565	620	
WV-061-004599-043	Janet D. Jacobs	Northeast Natural Energy LLC	12.5% or Greater	1613	76	
WV-061-003856-004	Brian Joliff	Northeast Natural Energy LLC	12.5% or Greater	1565	612	
WV-061-003856-007	Michael Joliff	Northeast Natural Energy LLC	12.5% or Greater	1568	281	
WV-061-003856-048	Debra Kacsmar	Northeast Natural Energy LLC	12.5% or Greater	1582	64	
WV-061-003856-032	Thomas Kelley	Northeast Natural Energy LLC	12.5% or Greater	1576	841	
WV-061-004599-067	William Kelley	Northeast Natural Energy LLC	12.5% or Greater	135	462	
WV-061-004599-028	Barbara Kelley	Northeast Natural Energy LLC	12.5% or Greater	1607	270	
WV-061-003674-024	Helen Kennedy	Northeast Natural Energy LLC	12.5% or Greater	1557	365	
WV-061-004599-005	Kenneth Kiger	Northeast Natural Energy LLC	12.5% or Greater	1597	605	
WV-061-004599-004	William Kiger	Northeast Natural Energy LLC	12.5% or Greater	1597	603	
WV-061-004599-032	Judy King	Northeast Natural Energy LLC	12.5% or Greater	1607	624	
WV-061-003856-081	Donley Eugene Kisner	Northeast Natural Energy LLC	12.5% or Greater	1593	450	
WV-061-003856-082	Vickie Lynn Kisner	Northeast Natural Energy LLC	12.5% or Greater	1593	452	
WV-061-003856-056	David A. Lash	Northeast Natural Energy LLC	12.5% or Greater	1588	578	
WV-061-003856-059	Frank Lash, Jr.	Northeast Natural Energy LLC	12.5% or Greater	1588	601	
WV-061-003856-068	Joseph W. Lash	Northeast Natural Energy LLC	12.5% or Greater	1589	479	
WV-061-003856-057	Steven M. Lash	Northeast Natural Energy LLC	12.5% or Greater	1588	585	
WV-061-003856-067	Timothy S. Lash	Northeast Natural Energy LLC	12.5% or Greater	1589	476	
WV-061-004599-001	Ellen E. Tuttle Lemley	Northeast Natural Energy LLC	12.5% or Greater	1595	506	

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
	WV-061-004599-029	Mary F. Lemley	Northeast Natural Energy LLC	12.5% or Greater	1607	618
	WV-061-003674-012	Mary Lou Lemley	Northeast Natural Energy LLC	12.5% or Greater	1550	473
	WV-061-004599-006	Linda Maran, aka, Linda Moran	Northeast Natural Energy LLC	12.5% or Greater	1602	37
	WV-061-003856-050	Gina Massie	Northeast Natural Energy LLC	12.5% or Greater	1586	18
	WV-061-003856-080	Lola Ercelene Shriver May	Northeast Natural Energy LLC	12.5% or Greater	1593	448
	WV-061-003856-026	Allen McCardle	Northeast Natural Energy LLC	12.5% or Greater	1577	804
	WV-061-003674-004	Mary R. McCullough	Northeast Natural Energy LLC	12.5% or Greater	1541	834
	WV-061-003856-077	Robert Michael	Northeast Natural Energy LLC	12.5% or Greater	1593	603
	WV-061-003856-041	Shirley Miller	Northeast Natural Energy LLC	12.5% or Greater	1578	345
	WV-061-003856-006	Debra G. Moffa	Northeast Natural Energy LLC	12.5% or Greater	1566	21
	WV-061-003674-018	Ethan D. Moore	Northeast Natural Energy LLC	12.5% or Greater	1566	295
	WV-061-003708-015	Harold W. Moore	Northeast Natural Energy LLC	12.5% or Greater	1564	380
	WV-061-004599-022	Jeff Moore	Northeast Natural Energy LLC	12.5% or Greater	1615	779
	WV-061-003856-035	Pauline Moore	Northeast Natural Energy LLC	12.5% or Greater	1576	847
	WV-061-003856-014	Velda E. Moore, f/k/a Velda Elizabeth Tennant	Northeast Natural Energy LLC	12.5% or Greater	1565	676
	WV-061-004599-066	Joyce C. Murphy	Northeast Natural Energy LLC	12.5% or Greater	1648	241
	WV-061-003674-008	Nicholas Myers	Northeast Natural Energy LLC	12.5% or Greater	1550	584
	WV-061-003674-033	Deborah Netzel	Northeast Natural Energy LLC	12.5% or Greater	1568	146
	WV-061-004599-012	Glenn Nicholson	Northeast Natural Energy LLC	12.5% or Greater	1606	744
	WV-061-003708-002	Lola T. Owen	Northeast Natural Energy LLC	12.5% or Greater	1550	481
	WV-061-003674-028	Norma Panrell	Northeast Natural Energy LLC	12.5% or Greater	1564	717
	WV-061-004599-054	Lea Ann Papesh	Northeast Natural Energy LLC	12.5% or Greater	1627	325
	WV-061-003856-037	Alys Patterson	Northeast Natural Energy LLC	12.5% or Greater	1579	809
	WV-061-003856-039	Jare Patterson	Northeast Natural Energy LLC	12.5% or Greater	1579	818
	WV-061-003856-040	Ryan Patterson	Northeast Natural Energy LLC	12.5% or Greater	1579	824
	WV-061-003856-053	William Phares	Northeast Natural Energy LLC	12.5% or Greater	1588	394
	WV-061-004599-055	William Phares	Northeast Natural Energy LLC	12.5% or Greater	1634	384
	WV-061-003674-013	Donna Pifer	Northeast Natural Energy LLC	12.5% or Greater	1554	480
	WV-061-003856-052	Vivian Price	Northeast Natural Energy LLC	12.5% or Greater	1586	24
	WV-061-004599-046	Glenda Ramsey	Northeast Natural Energy LLC	12.5% or Greater	1613	82
	WV-061-003674-002	Kathy Jo Ramsey	Northeast Natural Energy LLC	12.5% or Greater	1554	482
	WV-061-003856-083	Bruce R. Rogers	Northeast Natural Energy LLC	12.5% or Greater	1607	56
	WV-061-003674-016	Ellen Rose	Northeast Natural Energy LLC	12.5% or Greater	1554	422
	WV-061-004599-007	Nancy Ross	Northeast Natural Energy LLC	12.5% or Greater	1605	280
	WV-061-003856-002	Anthony G. Sago	Northeast Natural Energy LLC	12.5% or Greater	1557	367
	WV-061-005119-001	April Sago aka April Phillips	Northeast Natural Energy LLC	12.5% or Greater	1618	781
	WV-061-003856-003	David K. Sago & Ramona J. Sago	Northeast Natural Energy LLC	12.5% or Greater	1564	378
	WV-061-003856-005	Jeffrey Sago	Northeast Natural Energy LLC	12.5% or Greater	1567	840
	WV-061-003856-001	Karen E. Sago	Northeast Natural Energy LLC	12.5% or Greater	1553	220
	WV-061-003856-049	Zeva Scripp	Northeast Natural Energy LLC	12.5% or Greater	1584	774
	WV-061-004599-010	Linda Shriver	Northeast Natural Energy LLC	12.5% or Greater	1605	299
	WV-061-003856-071	Cheryl Slampak	Northeast Natural Energy LLC	12.5% or Greater	1590	321
	WV-061-004599-002	Janice C. Slifko and Harry J. Slifko	Northeast Natural Energy LLC	12.5% or Greater	1597	599
	WV-061-004599-026	Judy T. Smith	Northeast Natural Energy LLC	12.5% or Greater	1607	266
	WV-061-004599-058	Kylie Spears	Northeast Natural Energy LLC	12.5% or Greater	1638	311
	WV-061-003708-010	Vaneta Statler	Northeast Natural Energy LLC	12.5% or Greater	1562	215
	WV-061-003674-014	Rebecca Steele	Northeast Natural Energy LLC	12.5% or Greater	1550	475
	WV-061-004599-009	Donna Stevenson	Northeast Natural Energy LLC	12.5% or Greater	1605	296
	WV-061-003856-020	Shirley Stieringer	Northeast Natural Energy LLC	12.5% or Greater	1575	439
	WV-061-003856-022	Deborah Stiles	Northeast Natural Energy LLC	12.5% or Greater	1577	783
	WV-061-003674-022	Gerald Stiles	Northeast Natural Energy LLC	12.5% or Greater	1564	376
	WV-061-003674-023	Harold Stiles	Northeast Natural Energy LLC	12.5% or Greater	1563	121
	WV-061-003674-027	Janice Stiles	Northeast Natural Energy LLC	12.5% or Greater	1566	27
	WV-061-004599-040	Jason Sumner	Northeast Natural Energy LLC	12.5% or Greater	1610	366
	WV-061-003676-001	Joseph Swiger	Northeast Natural Energy LLC	12.5% or Greater	1561	101
	WV-061-004599-034	Jamy D. Teal	Northeast Natural Energy LLC	12.5% or Greater	1608	18
	WV-061-003856-065	Jody L. Temple	Northeast Natural Energy LLC	12.5% or Greater	1589	473
	WV-061-004599-057	Joshua Temple	Northeast Natural Energy LLC	12.5% or Greater	1638	308
	WV-061-003856-064	Kevin A. Temple	Northeast Natural Energy LLC	12.5% or Greater	1589	470
	WV-061-004599-059	Megan Temple	Northeast Natural Energy LLC	12.5% or Greater	1638	316
	WV-061-003708-004	Allen Temple	Northeast Natural Energy LLC	12.5% or Greater	1557	778
	WV-061-004599-063	Billy Tennant	Northeast Natural Energy LLC	12.5% or Greater	1640	592
	WV-061-003674-005	Brenda Tennant	Northeast Natural Energy LLC	12.5% or Greater	1541	842
	WV-061-004599-014	Burl A. Tennant Jr.	Northeast Natural Energy LLC	12.5% or Greater	1604	236
	WV-061-004599-019	Carl F. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1611	491
	WV-061-003674-015	Cecil L. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1550	477
	WV-061-004599-047	Clyde Tennant	Northeast Natural Energy LLC	12.5% or Greater	1613	85
	WV-061-003708-003	Danny Tennant	Northeast Natural Energy LLC	12.5% or Greater	1550	483
	WV-061-004599-068	Diana Tennant	Northeast Natural Energy LLC	12.5% or Greater	135	466
	WV-061-003856-046	Donald Tennant	Northeast Natural Energy LLC	12.5% or Greater	1580	188
	WV-061-004599-051	Francis Tennant	Northeast Natural Energy LLC	12.5% or Greater	1611	686
	WV-061-003856-043	Freddie Tennant	Northeast Natural Energy LLC	12.5% or Greater	1580	179
	WV-061-003674-037	Glenda Tennant	Northeast Natural Energy LLC	12.5% or Greater	1577	4
	WV-061-003674-032	Helen Tennant	Northeast Natural Energy LLC	12.5% or Greater	1568	319

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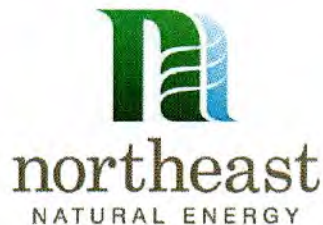
Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
	WV-061-004599-049	Herbert Tennant	Northeast Natural Energy LLC	12.5% or Greater	1613	91
	WV-061-004599-045	James Tennant	Northeast Natural Energy LLC	12.5% or Greater	1613	79
	WV-061-003856-025	Jean Tennant	Northeast Natural Energy LLC	12.5% or Greater	1577	798
	WV-061-003856-033	Jeff Tennant, a/k/a Jeffrey Joseph Tennant; a/k/a Jeffrey Tennant	Northeast Natural Energy LLC	12.5% or Greater	1577	528
	WV-061-004599-035	Jeffrey T. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1608	20
	WV-061-004599-025	Jeffrey A. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1607	264
	WV-061-003856-060	Joseph Tennant	Northeast Natural Energy LLC	12.5% or Greater	1588	610
	WV-061-004599-016	Keith Tennant	Northeast Natural Energy LLC	12.5% or Greater	1606	747
	WV-061-003708-001	Larry Tennant	Northeast Natural Energy LLC	12.5% or Greater	1550	479
	WV-061-003856-015	Martha Tennant	Northeast Natural Energy LLC	12.5% or Greater	1557	752
	WV-061-003856-031	Melody Tennant, a/k/a Melody Ann Tennant	Northeast Natural Energy LLC	12.5% or Greater	1576	839
	WV-061-003856-012	Michael D. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1557	447
	WV-061-004599-052	Michael Tennant	Northeast Natural Energy LLC	12.5% or Greater	1611	688
	WV-061-003856-021	Nelson Tennant	Northeast Natural Energy LLC	12.5% or Greater	1576	277
	WV-061-003856-055	Raph Tennant	Northeast Natural Energy LLC	12.5% or Greater	1588	570
	WV-061-004599-008	Randy Tennant	Northeast Natural Energy LLC	12.5% or Greater	1605	287
	WV-061-003674-019	Richard Tennant	Northeast Natural Energy LLC	12.5% or Greater	1562	201
	WV-061-004599-050	Rita Tennant	Northeast Natural Energy LLC	12.5% or Greater	1610	836
	WV-061-003674-034	Robert N. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1573	456
	WV-061-003856-047	Robert Tennant	Northeast Natural Energy LLC	12.5% or Greater	1582	61
	WV-061-004599-048	Robert L. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1613	88
	WV-061-003856-029	Scott Tennant, a/k/a Scott Douglas Tennant	Northeast Natural Energy LLC	12.5% or Greater	1577	530
	WV-061-003856-061	Sheila Tennant	Northeast Natural Energy LLC	12.5% or Greater	1588	646
	WV-061-004599-013	Shirley Tennant	Northeast Natural Energy LLC	12.5% or Greater	1604	234
	WV-061-003674-021	Sylvia D. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1564	715
	WV-061-003856-010	Virginia Tennant	Northeast Natural Energy LLC	12.5% or Greater	1557	439
	WV-061-003708-005	Wilbur Tennant	Northeast Natural Energy LLC	12.5% or Greater	1550	485
	WV-061-003674-009	William R. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1550	577
	WV-061-003674-029	Thomas Family	Northeast Natural Energy LLC	12.5% or Greater	1565	594
	WV-061-004599-024	Sandra Thomas	Northeast Natural Energy LLC	12.5% or Greater	1606	480
	WV-061-004599-033	Tenisha Elaine Sumner Truitt	Northeast Natural Energy LLC	12.5% or Greater	1608	16
	WV-061-003856-058	Albert Tuttle	Northeast Natural Energy LLC	12.5% or Greater	1588	598
	WV-061-004599-020	Charles E. Tuttle	Northeast Natural Energy LLC	12.5% or Greater	1610	574
	WV-061-004599-031	Charles D. Tuttle	Northeast Natural Energy LLC	12.5% or Greater	1607	622
	WV-061-004599-018	Paul Tuttle	Northeast Natural Energy LLC	12.5% or Greater	1604	371
	WV-061-004599-030	Ronald Tuttle	Northeast Natural Energy LLC	12.5% or Greater	1607	620
	WV-061-004599-011	Sharon Tuttle	Northeast Natural Energy LLC	12.5% or Greater	1606	696
	WV-061-004599-036	Sung Ja Tuttle	Northeast Natural Energy LLC	12.5% or Greater	1613	836
	WV-061-004599-003	Joyce Valentine	Northeast Natural Energy LLC	12.5% or Greater	1597	601
	WV-061-003856-070	Mary J. Valenzia	Northeast Natural Energy LLC	12.5% or Greater	1589	561
	WV-061-003674-003	Charlene Walker	Northeast Natural Energy LLC	12.5% or Greater	1550	573
	WV-061-003674-001	Martha Walker	Northeast Natural Energy LLC	12.5% or Greater	1550	489
	WV-061-003856-019	Neva R. Walker	Northeast Natural Energy LLC	12.5% or Greater	1575	272
	WV-061-003856-018	Robert Walker	Northeast Natural Energy LLC	12.5% or Greater	1575	270
	WV-061-003856-017	Ruby G. Walker	Northeast Natural Energy LLC	12.5% or Greater	1575	268
	WV-061-004599-042	Robin Walls	Northeast Natural Energy LLC	12.5% or Greater	1610	370
	WV-061-004599-027	Sharon T. Walsh	Northeast Natural Energy LLC	12.5% or Greater	1607	268
	WV-061-003856-042	Russel D. Walters	Northeast Natural Energy LLC	12.5% or Greater	1578	156
	WV-061-003856-051	Dorothy Weaver	Northeast Natural Energy LLC	12.5% or Greater	1586	21
	WV-061-003856-069	Deborah White	Northeast Natural Energy LLC	12.5% or Greater	1589	143
	WV-061-003856-073	Linda Wilfong	Northeast Natural Energy LLC	12.5% or Greater	1590	329
	WV-061-003674-011	Barbara Wilson	Northeast Natural Energy LLC	12.5% or Greater	1542	96
	WV-061-003708-008	Bertha Wilson	Northeast Natural Energy LLC	12.5% or Greater	1550	525
	WV-061-003708-009	Leonard Wilson	Northeast Natural Energy LLC	12.5% or Greater	1552	424
	WV-061-004599-062	Kimberly Woodham, trustee of The David Henderson Trust	Northeast Natural Energy LLC	12.5% or Greater	1639	811
	WV-061-003856-062	Floyd W. Wright, aka Floyd William Wright	Northeast Natural Energy LLC	12.5% or Greater	1589	253
	WV-061-003674-035	Mary A. Wright	Northeast Natural Energy LLC	12.5% or Greater	1574	526
	WV-061-003708-014	Jarrod Yost	Northeast Natural Energy LLC	12.5% or Greater	1556	471
	WV-061-003674-036	Jason G. Yost	Northeast Natural Energy LLC	12.5% or Greater	1574	524
	WV-061-003674-025	Verl Loye Yost	Northeast Natural Energy LLC	12.5% or Greater	1557	451
	WV-061-003708-012	Vincent Yost	Northeast Natural Energy LLC	12.5% or Greater	1564	323
C	WV-061-004367-015	Celia P. Askew and Robert L. Askew	Northeast Natural Energy LLC	12.5% or Greater	1585	201
	WV-061-004367-019	Sylvia Bailes Levy, Trustee for Seymour Bailes Trust	Northeast Natural Energy LLC	12.5% or Greater	1593	683
	WV-061-004367-014	Carmel G. Brookover	Northeast Natural Energy LLC	12.5% or Greater	1581	345
	WV-061-004564-002	Deanna G. Cannata	Northeast Natural Energy LLC	12.5% or Greater	1604	846
	WV-061-004367-005	Helen Farringer	Northeast Natural Energy LLC	12.5% or Greater	1577	67
	WV-061-004367-001	Patricia Ann Fleming	Northeast Natural Energy LLC	12.5% or Greater	1577	59
	WV-061-004367-013	Paulette Flowers	Northeast Natural Energy LLC	12.5% or Greater	1580	56
	WV-061-004367-002	Betty Jo King	Northeast Natural Energy LLC	12.5% or Greater	1577	61
	WV-061-004564-001	Roberta Miller King	Northeast Natural Energy LLC	12.5% or Greater	1591	730
	WV-061-004367-008	Rhonda B. Kraus	Northeast Natural Energy LLC	12.5% or Greater	1578	419
	WV-061-004367-016	Robert Lee Miller	Northeast Natural Energy LLC	12.5% or Greater	1590	337

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
	WV-061-004367-012	Myra June Neylon	Northeast Natural Energy LLC	12.5% or Greater	1579	255
	WV-061-004367-020	Noumenon Corporation	Northeast Natural Energy LLC	12.5% or Greater	1661	772
	WV-061-004367-009	Doris Jean Price	Northeast Natural Energy LLC	12.5% or Greater	1578	421
	WV-061-004367-006	Gary Michael Price	Northeast Natural Energy LLC	12.5% or Greater	1578	417
D	WV-061-000127-001-LA	EQT	Northeast Natural Energy LLC	12.5% or Greater	1660	538
E	WV-061-000127-001-LA	EQT	Northeast Natural Energy LLC	12.5% or Greater	1660	538
F	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
G	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 Eddy	Northeast Natural Energy LLC	12.5% or Greater	1678	329
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	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
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	WV-061-003693-008	Debbie K. McLarty aka Debbie K. Hebert	Northeast Natural Energy LLC	12.5% or Greater	1554	438
H	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
I	WV-061-000127-001-LA	EQT	Northeast Natural Energy LLC	12.5% or Greater	1660	538
J	WV-061-004563-000	Sandra R. Main and Arthur Lee Main	Northeast Natural Energy LLC	12.5% or Greater	1591	725

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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,

A handwritten signature in blue ink, appearing to read 'Charles Dornetto', is written over the typed name.

Charles Dornetto
Manager – Land Operations

Enclosure

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

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. Data were taken from public records MONONGALIA County, West Virginia MAY 2019
 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS drafted by E.A.R.

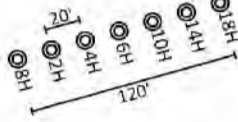
NOTE:
 NO WATER WELLS WERE FOUND WITHIN 1000' OF THE CENTER OF WELL PAD.

TOP HOLE (UTM NAD83)
 N 4390662.0
 E 570280.5
 BOTTOM HOLE (UTM NAD83)
 N 4302413.6
 E 569373.4

SURFACE HOLE DFC, LONG: 80.180891
 SURVEYED LONG: 80°10'51.2"
 Latitude: 39° 40' 00" (NAD27)
 Longitude: 80° 10' 00" (NAD27)
 SURFACE HOLE DEC. LAT: 39.661898
 SURVEYED LAT: 39° 39' 42.8"

TOTAL BORED DISTANCE FROM LP TO BH = 6,581.42'

REFERENCES TO PROPOSED HORIZONTAL WELLS SURFACE LOCATIONS



NTS

Existing Wells within 2,400' NTS

REFERENCES

CUMMINS NO. 14H

API # & DISTANCE TO WELL
 061-00830: S 87°37'15" W 1176'
 FOUND IN FIELD: S 76°27'35" W 1315'
 061-00795: S 54°58'27" W 1208'

FILE #: NNE15
 DRAWING #: 2945
 SCALE: PLAT: 1" = 1600'
 TICK: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE: 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 5TH STREET
 CHARLESTON, WV 25304

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

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

DATE: FEBRUARY 18, 2020
 OPERATOR'S WELL #: CUMMINS 14H
 API WELL #: 47 61 **D1840**
 STATE COUNTY PERMIT
 CURRENT ELEVATION: 1,374'
 PROPOSED ELEVATION: 1,358.25'

QUADRANGLE: BLACKSVILLE
 ACREAGE: 81.472 +/-
 ACREAGE: 513.532 +/-

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:8,070' TMD:15,447'
 WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
 DESIGNATED AGENT: JOHN ADAMS
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

PROPERTY OWNER INDEX	
4-17-71	JERRY L YOST ET AL
4-17-70	ROB & JOYCE BENNETT
4-17-70.1	STEVEN & HILDA JANE WIERSEMA
4-17-69	M RODGER & DONNA S OZBURN
4-17-68	LEONARD MICHAEL YOHO
4-17-68.3	RICHARD P & WILMA L EDDY
4-10-77	ELLEN MARIE ROSE
4-10-76	NANCY M WILSON, RICHARD E PANRELL SR. & NORMA R PANRELL
4-10-74	RACHEL B BAYS
4-10-72	NOUMENON CORPORATION & TITUS H BROOKOVER
4-10-50	MARK MYERS
4-10-53	ARTHUR L & SANDRA R MAIN

LEASE INDEX			
A	WV-061-003499-001	G	WV-061-003693-002
B	WV-061-004599-060	H	WV-061-003693-002
C	WV-061-004367-015	I	WV-061-000127-001-LA
D	WV-061-00127-001-LA	J	WV-061-004563-000
E	WV-061-00127-001-LA		
F	WV-061-003693-002		

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

FILE #: NEE14
DRAWING #: 2945
SCALE: N/A

DATE: FEBRUARY 18, 2020
OPERATOR'S WELL #: CUMMINS 14H
API WELL #: 47 61 **DIBAO**
STATE COUNTY PERMIT



northeast
NATURAL ENERGY

February 25, 2020

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

Re: Cummins Lateral Modification

Dear Permit Reviewer,

Please find enclosed permit modification requests to modify laterals on the Cummins wells outlined below. We are also requesting a modification to the surface casing depths based on previous drilling/casing activity on the same pad. These wells are located in Clay District, Monongalia County. Enclosed are the documents that reflect this requested change.

- Cummins 2H – 47-061-~~01854~~ 01828
- Cummins 6H – 47-061-~~01855~~ 01837
- Cummins 14H – 47-061-~~01856~~ 01840

Should you have any questions please contact me at 304.212.0445 or by email at kbrooks@nne-llc.com.

Sincerely,

Kristen Brooks
Operations Analyst

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