

#### 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, July 26, 2019 WELL WORK PERMIT Horizontal 6A / New Drill

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

Permit approval for CUMMINS 5H Re: 47-061-01856-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless 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:

JERRY L. YOST Farm Name:

U.S. WELL NUMBER: 47-061-01856-00-00

**CUMMINS 5H** 

Horizontal 6A New Drill

Date Issued: 7/26/2019

## PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

#### **CONDITIONS**

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number:	

## **PERMIT CONDITIONS**

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

WW-6B (04/15) 4706101856
API NO. 47-\_\_\_OPERATOR WELL NO. 5H
Well Pad Name: Cummins

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

1) Well Operator	r: Northe	ast Natural	Energy L	494498281	Monongal	ia Clay	Blacksville, WV
* The state of the				Operator ID	County	District	Quadrangle
2) Operator's Wo	ell Number	r: <u>5H</u>		Well P	ad Name: Cu	mmins	
) Farm Name/S	urface Ow	ner: Jerry L	Yost et a	Public Ro	oad Access: C	CR 25/3 (Yan	k Hollow Rd.)
Elevation, cur	rent groun	d: 1360'	Ele	evation, propose	d post-constru	ction: 1358'	
	(a) Gas Other	X	_ Oil	Un	derground Sto	rage	
(	(b)If Gas	Shallow	Х	Deep			-0
<ul><li>5) Existing Pad:</li></ul>	Yes or No	Horizontal No	X		Mar	6/13/2019	
	get Format	ion(s), Depth	(s), Antici	ipated Thickness	_		
) Proposed Tota	al Vertical	Depth: 8,07	70'				
) Formation at T		The state of the s	Marcellus				
0) Proposed To	tal Measur	ed Depth:	15,158'				
1) Proposed Ho	rizontal Le	eg Length:	6,615'				
2) Approximate	e Fresh Wa	ter Strata De	pths:	50'; 1,250'			
<ul><li>3) Method to D</li><li>4) Approximate</li></ul>			-	orillers Log from	offset wells		
5) Approximate	Coal Sear	n Depths: 1	,248'				
6) Approximate	Depth to	Possible Voi	d (coal mi	ne, karst, other):	NA		_
7) Does Proposelirectly overlying				ns Yes	1	No X	
(a) If Yes, prov	ide Mine I	nfo: Name	:				RECEIVED Office of Oil and Ga
		Depth					
		Seam:	-				JUN 2 1 2019
		Owne	r:				WV Department of

WW-6B (04/15)

API NO. 47	
OPERATOR WELL	NO. 5H
Well Pad Name:	Cummins

### 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				4			
Intermediate	9-5/8"	New	J-55	40	2,488'	2,458'	CTS
Production	5-1/2"	New	P-110	20	15,158'	15,128'	3452 cu. ft.
Tubing	2-7/8"	New	N-80	6.5			NA
Liners							

MOK W/13/2019

ТҮРЕ	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:	RECEIVED Office of Oil and Ga
Depths Set:	JUN 2 1 2019

4	7	0	6	4	0	1	8	5	6
---	---	---	---	---	---	---	---	---	---

API NO. 47-\_\_\_OPERATOR WELL NO. 5H
Well Pad Name: Cummins

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 6,250' TVD/MD. The well will then be horizontally drilled on synthetic based mud from the KOP to approximately 8,070' TVD/15,158' MD along a 322° 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 + 4 fige and case SS-2 Spacer @ 13.5 ppg prior to cement.

MAY Department of

<sup>\*</sup>Note: Attach additional sheets as needed.



# NORTHEAST NATURAL ENERGY, LLC Location: Monongalia County, WV Slot: Slot 5H Well: Cummins 5H

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H	UGHES	ď
- 1	a GE company	

Cummins 5H LP Rev-1

End of 3D Arc: 8070,50ft TVD, 645,55ft N, 330,07ft E End of Tangent: 7422.60ft TVD, 48.55ft N, 469.56ft E

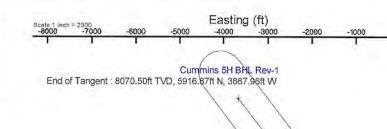
End of 3D Arc: 6485.61ft TVD, 3.79ft N, 50.39ft E

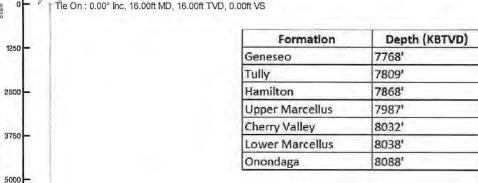
End of Build : 6319.83ft TVD, 0.00ft N, 4.27ft E End of Tangent : 6250.00ft TVD, 0.00ft N, 0.00ft E

Tie On: 16.00ft TVD, 0.00ft N, 0.00ft E



Туре	Hole Size	Casing Size	Grade		GL Depth (Csg)
Conductor	28"	24"	NA		40'
Surface	17-1/2"	13-3/8"	J-55	54.5	1300'
Intermediate	12-1/4"	9-5/8"	J-55	40	2458'





End of Tangent : 0.00° Inc, 6250.00ft MD, 6250.00ft TVD, 0.00ft VS 10.00°/100ft End of Build : 7.00° Inc, 6320.00ft MD, 6319.83ft TVD, -2.58ft VS 10.00°/100ft End of 3D Arc : 24.22° Inc, 6492.77ft MD, 6485.61ft TVD, -27.43ft VS End of Tangent: 24.22° Inc, 7520.23ft MD, 7422.60ft TVD, -245.07ft VS 10,00°/100ft Cummins 5H LP Rev-1 End of 3D Arc: 90.00° Inc, 8542.52ft MD, 8070.50ft TVD, 314.89ft VS Cummins 5H BHL Rev-1 End of Tangent: 90.00° Inc. 15158,49ft MD. 8070,50ft TVD, 6930,86ft VS 2500 3750 5000 6250 Vertical Section (ft) Ottomuth 322.82° with reference 0.00 N, 0.00 E Scale 1 inch = 2500

UT

1000 7000

6000

5000

4000

3000

2000

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0

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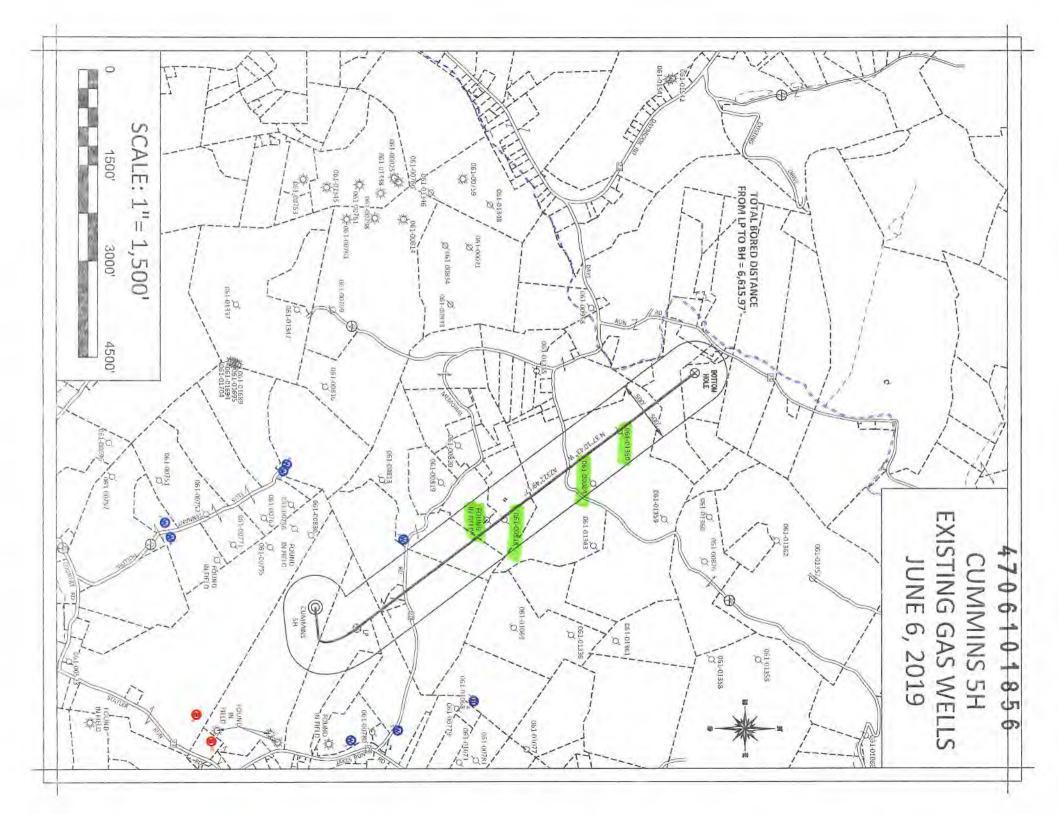
-1250

True Vertical Depth (ft)

6250

7500

8750



			Cummins 5H Area o	f Review				
API Number	Well Name	Well Number	Operator	Latitude (NAD 27)	Longitude (NAD 27)	TMP	TVD	Comments
47-061-01350	N & M V Eddy	NA	Noumenon Corp, a WV Corp	39.674984	-80.19079	4-10-72	240	Plugged 10/21/15
			Oper in Min. owner fld, no code assgn (Orphan					
47-061-00084	Brookover	1	well proj)	39.673902	-80.187852	4-10-72	3267	Plugged 8/8/90
47-061-00818	R & B Wilson	NA	Consolidation Coal Co.	39.670132	-80.185787	4-10-75.3	NA	Plugged 11/19/86
Found In Field	NA	NA	NA	NA	NA	4-10-75.6	NA	NA

WW-9 (4/16)

API Number	47 -	÷	

# Operator's Well No. Cummins 5H STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Northeast Natural Energy LLC	OP Code 494498281
Watershed (HUC 10) Dunkard Creek	Quadrangle Blacksville
Do you anticipate using more than 5,000 bbls of water to comple	ete the proposed well work? Yes 🗸 No
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste: N/A	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection ( UIC Permit	
Reuse (at API Number unknown at this ti  Off Site Disposal (Supply form WW-	
Off Site Disposal (Supply form w w-	of tot disposal location)
Will closed loop system be used? If so, describe: Yes, Please S	See Attachment "A"
Drilling medium anticipated for this well (vertical and horizontal	1)? Air, freshwater, oil based, etc. Verlical - Air/ Curve & Horizontal - Oil Based
-If oil based, what type? Synthetic, petroleum, etc. Syn	ithetic Oil Based Mud
Additives to be used in drilling medium? Organophilic Clay Viscosifiers	, Lime, Unsaturated Fatty Acids, CaCl, Barite, Emulsifiers, Mica LCM, Water Loss Agents
Drill cuttings disposal method? Leave in pit, landfill, removed o	offsite, etc. Removed Offsite - Please See Attachment "A"
-If left in pit and plan to solidify what medium will be u	ised? (cement, lime, sawdust)
-Landfill or offsite name/permit number? Please See Att	tachment "A"
The second of th	
West Virginia solid waste facility. The notice shall be provided where it was properly disposed.	as of any load of drill cuttings or associated waste rejected at any within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West Virg provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally application form and all attachments thereto and that, based	onditions of the GENERAL WATER POLLUTION PERMIT issued ginia Department of Environmental Protection. I understand that the any term or condition of the general permit and/or other applicable examined and am familiar with the information submitted on this on my inquiry of those individuals immediately responsible for ue, accurate, and complete. I am aware that there are significant ity of fine or imprisonment.
Company Official Signature +000 med	Office of 9 1 2019
Company Official (Typed Name) Hollie Medley	JUN 2 1 2019
Company Official Title Regulatory Manager	WV Department of Environmental Protect
	OFFICIAL SEAL
Subscribed and sworn before me this Wh day of	June, 2019, 20 STATE OF WEST VIRGINIA
Karatan Bandin	Kristen Brooks Northeast Natural Energy LLC
9 yuuuru 13 1001W	Notary But 18 48 Donley St., Suite 601 Morgantown, WV 26501
My commission expires Aug. 10, 2023	My Commission Expires Aug. 10, 2023

Operator's Well No. Cummins 5H

Proposed Revegetation Treatr	D' 1 1 54	1 52 B	II
2			n pH
Lime 2	Tons/acre or to correc	et to pH	
Fertilizer type 10-2			
Fertilizer amount 30	50	lbs/acre	
Mulch 2		_Tons/acre	
		Seed Mixtures	
Ter	nporary	Per	rmanent
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	46	Orchard Grass	46
Red Clover	8	Red Clover	8
Perennial Rye	16	Perennial Rye	16
Timothy 15 Annu	al Rye 15	Timothy 15 Ar	nnual Rye 15
provided). If water from the pacreage, of the land application	it will be land applied, inc on area.	application (unless engineered plans in lude dimensions (L x W x D) of the pit,	
provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by:	it will be land applied, incom area.  ed 7.5' topographic sheet.	lude dimensions (L x W x D) of the pit,	
provided). If water from the pacreage, of the land application Photocopied section of involv	it will be land applied, inc on area, ed 7.5' topographic sheet.	lude dimensions (L x W x D) of the pit,	
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provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by:	it will be land applied, inc on area, ed 7.5' topographic sheet.	lude dimensions (L x W x D) of the pit,	and dimensions (L x W), and a
provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by:	it will be land applied, inc on area, ed 7.5' topographic sheet.	lude dimensions (L x W x D) of the pit,	and dimensions (L x W), and a
provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by:	it will be land applied, inc on area, ed 7.5' topographic sheet.	lude dimensions (L x W x D) of the pit,	

#### Attachment A to WW-9

Northeast Natural Energy LLC ("NNE") plans to utilize a closed loop process for its drilling of the Cummins 5H well. Return flow from the well will be separated into its liquid and solid form. Liquids will be held in steel tanks and reused in the drilling and completion process or disposed of at an approved facility listed below. Solids removed from the stream will be diverted to steel half-round tanks where they will be solidified on site and taken to disposal as they are accumulated.

The Drill Cuttings will be taken to disposal at one or more of the following disposal/approved waste facilities, unless listed facilities are no longer approved to accept waste at time of disposal:

- Westmoreland Landfill (Tervita) Belle Vernon, PA (Permit # 100277)
- Meadowfill Landfill (Waste Management) Bridgeport, WV (Permit # SWF 103298)
- Max Environmental Yukon, PA (PAD004835146 and 301071)
- Max Environmental Bulger, PA (PAD059087072 and 301359)
- Chestnut Valley Landfill (Advanced Disposal) Export, PA (Permit # 101421)

NNE plans to reuse and recycle all flowback fluid and/or reach out to other operators in the area who may be able to reuse and recycle such fluid. However, in the event that reuse is not obtainable the fluid will be disposed of at one, or multiple, of the following disposal/approved waste facilities unless listed facilities are no longer approved to accept waste at time of disposal:

- Fairmont Brine Processing (WV NPDES #0116408)
- Green Hunter M. E. Elder 1 Disposal Well (Permit # 47-085-05151)
- Green Hunter Mason 1 Disposal Well (Permit #47-085-09721)
- Green Hunter Warren Disposal Well (Permit #34-121-2-3995)
- Green Hunter Travis Unit Disposal Well (Permit #34-121-2-4086)
- Viking Energy Corporation 20320 Disposal Well (Permit#47-039-02210)
- Ohio Oil Gathering Killbuck Disposal Well (Permit #34-075-24527)
- Ohio Oil Gathering Moran Disposal Well (Permit #34-089-24792)
- Ohio Oil Gathering Bells Run Disposal Well (Permit #34-167-29395)
- Ohio Oil Gathering Long Run Disposal Well (Permit #34-167-29658)
- Ohio Oil Gathering Newell Run Disposal Well (Permit #34-167-29685)
- Appalachian Oil Purchaser Greens Run Disposal Well (Permit #2D0732540)
- Appalachian Oil Purchaser BW#4 Disposal Well (Permit # 2D0732523)

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Office of Oil and Gas

JUN 21 2019



## Cummins 5H SITE SAFETY PLAN

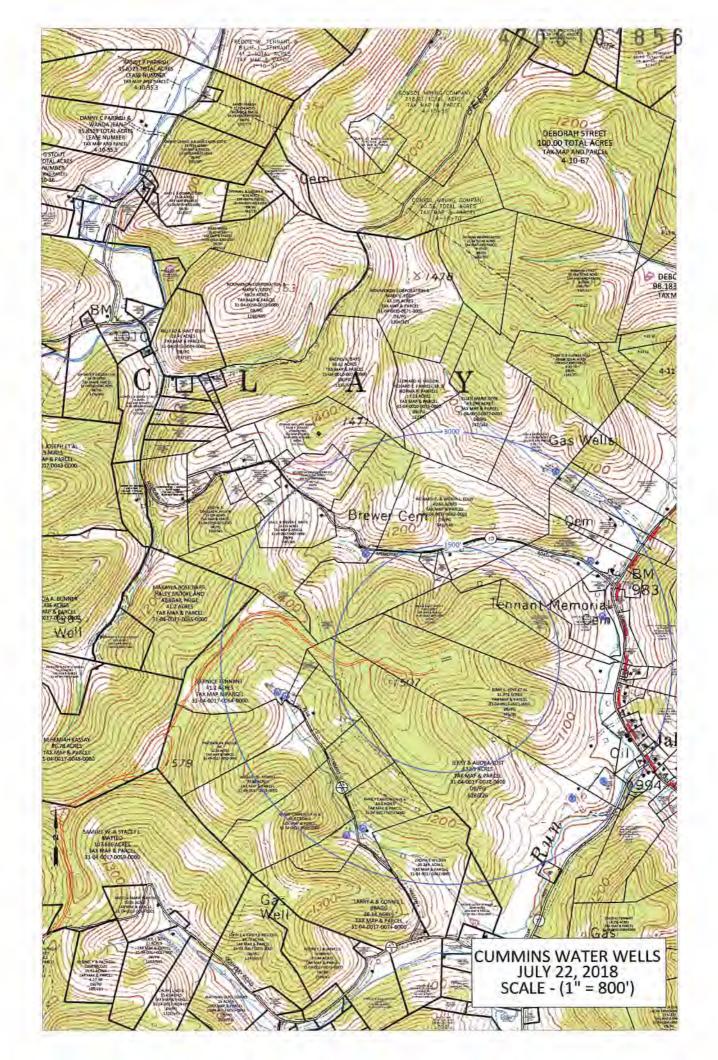
June 2019

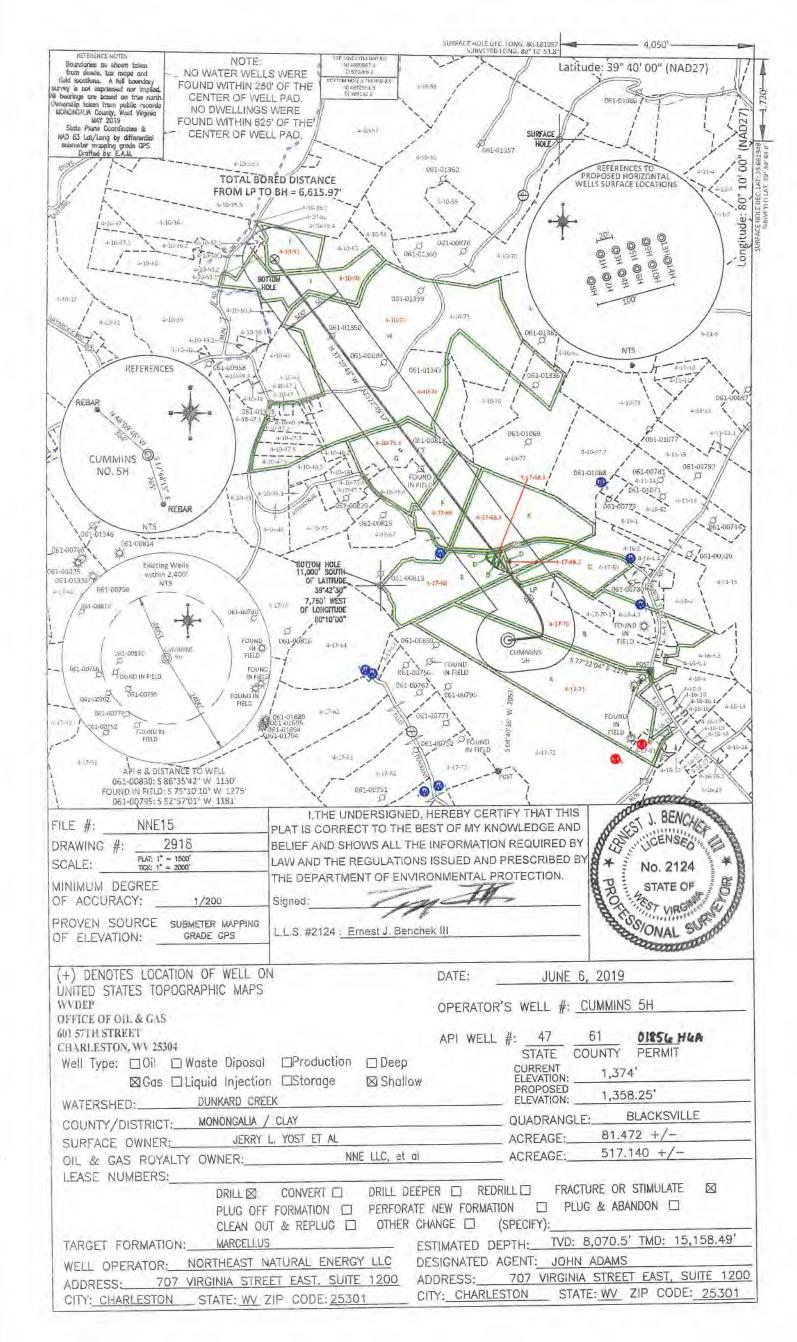
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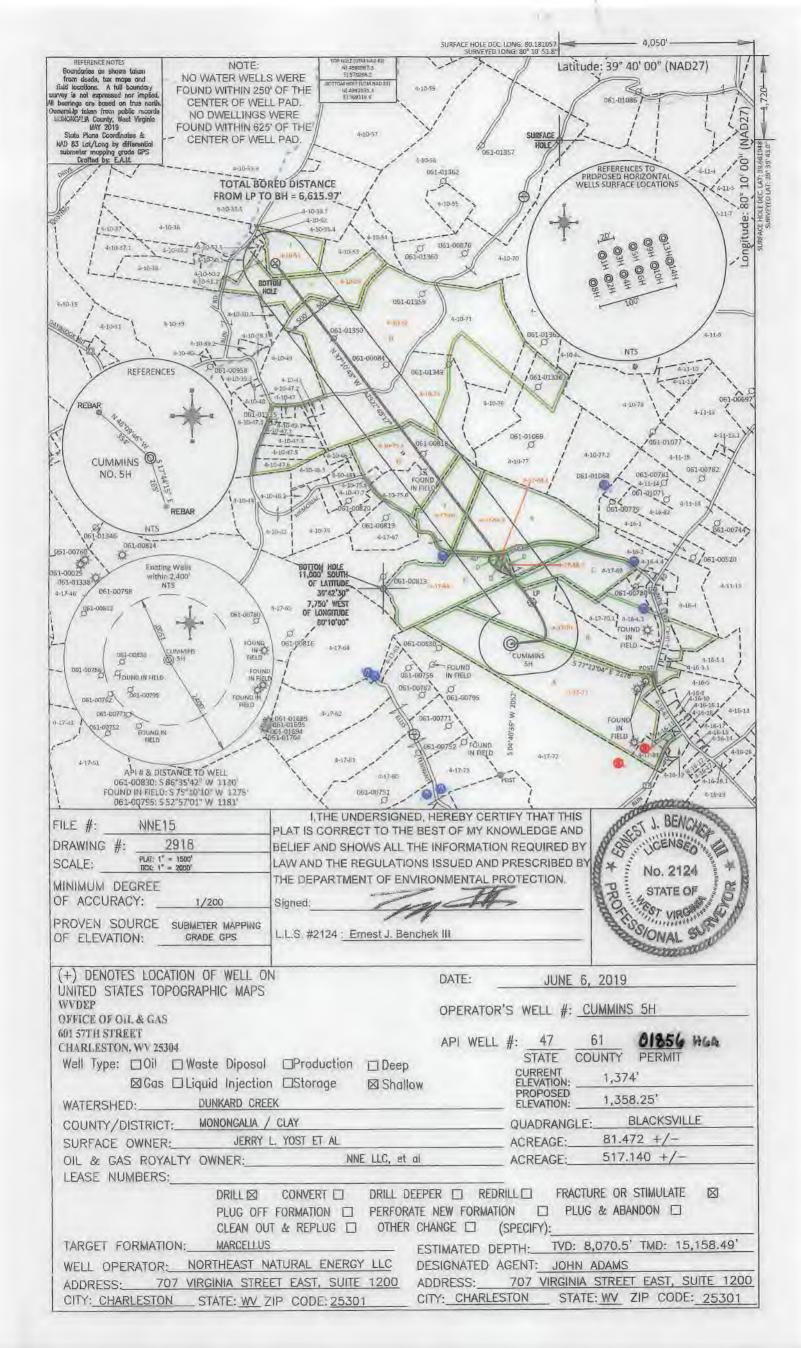
(4/13/2018

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JUN 2 1 2019







	PROPERTY OWNER INDEX
4-17-71	JERRY L. YOST ET AL
4-17-70	ROB & JOYCE BENNETT
4-17-68	LEONARD MICHAEL YOHO
4-17-68.2	JANICE O. & RAY L. BRUMMAGE
4-17-68.1	JANICE O. & RAY L. BRUMMAGE
4-17-68.3	RICHARD P & WILMA L EDDY
4-17-66	BILLY JO EDDY ET AL
4-10-75.3	EDWARD PAUL & AVA MARIE & KEVIN P TENNANT
4-10-74	RACHEL B. BAYS
4-10-72	NOUMENON CORPORATION & MARK V EDDY
4-10-50	MARK MYERS
4-10-51	GARY L & DONNA D EDDY

	LEASE INDEX		
A	WV-061-003499-001	H	WV-061-003693-002
В	WV-061-004599-060	1	WV-061-000127-001-LA
C	WV-061-004367-015	J	WV-061-003725-001
D	WV-061-003738-000	K	WV-061-00127-001-LA
E	WV-061-00127-001-LA		
F	WV-061-003023-014		
G	WV-061-005563-001		

DATE: JUNE 6, 2019

OPERATOR'S WELL #: CUMMINS 5H

API WELL #: 47 61 COUNTY PERMIT

1/00 101000

## 4706101856

WW-6A1 (5/13)

Operator's V	Vell No.	Cummins 5H
Junium 3 1	TOIL ING.	

#### 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	A	6750	120.00	0.162
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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JUN 2 1 2019

WV Department of Environmental Protection

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

Page 1 of 5

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
A	WV-061-003499-001 WV-061-004591-002	MICHAEL, A.KEIT	Northeast Natural Energy LLC Northeast Natural Energy LLC	12.5% or Greater 12.5% or Greater	1545	764 66
A	WV-061-004591-001	REYNOLDS, JANE	Northeast Natural Energy LLC	12.5% or Greater	1595	384
A	WV-061-003676-001	SWIGER, JOSEPH	Northeast Natural Energy LLC	12.5% or Greater	1561	101
B	WV=061-004599-060	ADAMSON, DIANA	Northeast Natural Energy LLC	12.5% or Greater	1636	163
В	WV-061-003674-017	ARNETT, KENNETH	Northeast Natural Energy LLC	12.5% or Greater	1562	199
В	WV-061-003674-006	ARNETT, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1550	487
В	WV-061-003674-020	ARNETT, W. KEIT	Northeast Natural Energy LLC	12.5% or Greater	1564	673
B	WV-061-004599-037	BACK, DOROTHY R	Northeast Natural Energy LLC	12.5% or Greater	1608	303 303
B	WV-061-003708-006 WV-061-003708-007	BANE, EILEEN BROOKOVER, RUBY	Northeast Natural Energy LLC Northeast Natural Energy LLC	12.5% or Greater 12.5% or Greater	1541 1545	774
В	WV-061-003856-076	BROOKS, CONNIE	Northeast Natural Energy LLC	12.5% or Greater	1593	600
В	WV-061-003674-007	BURKE, ARLEEN	Northeast Natural Energy LLC	12.5% or Greater	1550	491
В	WV-061-004599-023	CHEEK, DOROTHY	Northeast Natural Energy LLC	12.5% or Greater	1610	584
В	WV-061-003856-078	CHISHOLM, BONNI	Northeast Natural Energy LLC	12.5% or Greater	1593	644
В	WV-061-003856-075	CHISLER, JACKI	Northeast Natural Energy LLC	12.5% or Greater	1593	588
8	WV-061-003856-066	CONNER, CINDY	Northeast Natural Energy LLC	12.5% or Greater	1589	141
B	WV-061-003856-009	CONNER, FREDERI	Northeast Natural Energy LLC	12.5% or Greater	1565 1590	626 323
В	WV-061-003856-072 WV-061-003856-008	CONNER, JAMES CONNER, JOHN C.	Northeast Natural Energy LLC Northeast Natural Energy LLC	12.5% or Greater 12.5% or Greater	1564	565
В	WV-061-003856-036	COOK, LORETTA	Northeast Natural Energy LLC	12.5% or Greater	1579	803
В	WV-061-003856-038	COOK, PAUL	Northeast Natural Energy LLC	12.5% or Greater	1579	815
В	WV-061-003856-024	COPELAND, CHERL	Northeast Natural Energy LLC	12.5% or Greater	1577	823
В	WV-061-004599-017	COPELAND, CONNI	Northeast Natural Energy LLC	12.5% or Greater	1606	750
В	WV-061-004599-041	CORDER, LEDR ET	Northeast Natural Energy LLC	12.5% or Greater	1610	368
В	WV-061-003856-044	COX, GLORIA I	Northeast Natural Energy LLC	12.5% or Greater	1580	182
В	WV-061-003856-074	CROWLEY, PATRIC	Northeast Natural Energy LLC	12.5% or Greater	1593	668
B B	WV-061-004599-044 WV-061-003674-031	DAILEY, VIRGINI	Northeast Natural Energy LLC	12.5% or Greater	1614	791
В	WV-061-003856-054	EBERHART, TERRY	Northeast Natural Energy LLC Northeast Natural Energy LLC	12.5% or Greater 12.5% or Greater	1563 1588	397
В	WV-061-003708-013	EDDY, VADA	Northeast Natural Energy LLC	12.5% or Greater	1565	556
В	WV-061-003708-011	EDDY, VANESSA	Northeast Natural Energy LLC	12.5% or Greater	1564	327
В	WV-061-003843-001	ELDER, NELLIE	Northeast Natural Energy LLC	12.5% or Greater	1564	669
В	WV-061-003843-002	ELKINS, NANCY R	Northeast Natural Energy LLC	12.5% or Greater	1564	374
В	WV-061-004599-061	EMORY, JEAN	Northeast Natural Energy LLC	12,5% or Greater	1636	.739
В	WV-061-004599-064	FLYNN, TINA M.	Northeast Natural Energy LLC	12.5% or Greater	1643	820
В	WV-061-004599-021	FRAZIER, SHERRY	Northeast Natural Energy LLC	12.5% or Greater	1613	38
B	WV-061-004599-065 WV-061-003856-023	FREDERICK, LORI	Northeast Natural Energy LLC	12.5% or Greater	1646 1577	45 789
В	WV-061-003856-011	GATWOOD, SANDY	Northeast Natural Energy LLC Northeast Natural Energy LLC	12.5% or Greater 12.5% or Greater	1557	435
В	WV-061-003856-063	GILL, TAMMY S.	Northeast Natural Energy LLC	12.5% or Greater	1589	467
В	WV-061-003856-034	GRIBBLE, BRENDA	Northeast Natural Energy LLC	12.5% or Greater	1576	845
В	WV-061-003856-079	HAINES, ELLEN J	Northeast Natural Energy LLC	12.5% or Greater	1594	500
В	WV-061-004599-053	HALL, EARL ET U	Northeast Natural Energy LLC	12.5% or Greater	1619	409
В	WV-061-003855-045	HAMILTON, RICHA	Northeast Natural Energy LLC	12.5% or Greater	1580	185
В	WV-061-003856-016	HARRELL, CURTIS	Northeast Natural Energy LLC	12.5% or Greater	1562	373
B	WV-061-004599-039 WV-061-003856-027	HAUGHT, BILLY C	Northeast Natural Energy LLC	12.5% or Greater	1619 1576	403 831
В	WV-061-003856-028	HAUGHT, MICHAEL HENDERSON, ALDE	Northeast Natural Energy LLC Northeast Natural Energy LLC	12.5% or Greater	1576	833
В	WV-061-003674-010	HIGGINS, WILMA	Northeast Natural Energy LLC	112.5% or Greater	1542	91
В	WV-061-003856-084	HUFFMAN, DONNA	Northeast Natural Energy LLC	12.5% or Greater	1507	58
В	WV-061-004599-056	HULL, HELEN I.	Northeast Natural Energy LLC	12.5% or Greater	1642	57
В	WV-061-004599-038	HULL, LARRY D.	Northeast Natural Energy LLC	12.5% or Greater	1614	788
В	WV-061-003856-013	HUNNEL, JOHN W	Northeast Natural Energy LLC	12.5% or Greater	1565	30
В	WV-061-003674-030	HUNNELL, DIANNE	Northeast Natural Energy LLC	12.5% or Greater	1565	620
В	WV-061-004599-043	JACOBS, JANET D	Northeast Natural Energy LLC	12.5% or Greater	1613	612
B	WV-061-003856-004 WV-061-003856-007	JOLUFF, BRIAN JOLUFF, MICHAE	Northeast Natural Energy LLC Northeast Natural Energy LLC	12.5% or Greater 12.5% or Greater	1565 1568	28:
В	WV-061-003856-048	KACSMAR, DEBRA	Northeast Natural Energy LLC	12.5% or Greater	1582	54
B	WV-061-003856-032	KELLEY, THOMAS	Northeast Natural Energy LLC	12.5% or Greater	1576	84
В	WV-061-004599-067	KELLEY, WILLIAM	Northeast Natural Energy LLC	12.5% or Greater	135	467
В	WV-061-004599-028	KELLY, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1607	270
В	WV-061-003674-024	KENNEDY, HELEN	Northeast Natural Energy LLC	12.5% or Greater	1557	36
В	WV-061-004599-005	KIGER, KENNETH	Northeast Natural Energy LLC	12.5% or Greater	1597	60
В	WV-061-004599-004	KIGER, WILLIAM	Northeast Natural Energy LLC	12.5% or Greater	1597	60
B	WV-061-004599-032 WV-061-003856-081	KING, JUDY E. KISNER, DONLEY	Northeast Natural Energy LLC Northeast Natural Energy LLC	12.5% or Greater 12.5% or Greater	1607 1593	62 45
В	WV-061-003856-082	KISNER, VICKIE	Northeast Natural Energy LLC	12.5% or Greater	1593	45
В	WV-Q61-003856-056	LASH, DAVID A.	Northeast Natural Energy LLC	12.5% or Greater	1588	57
В	WV-061-003856-059	LASH, FRANK JR.	Northeast Natural Energy LLC	12.5% or Greater	1588	60
В	WV-061-003856-068	LASH, JOSEPH W.	Northeast Natural Energy LLC	12.5% or Greater	1589	47
В	WV-061-003856-057	LASH, STEVEN M.	Northeast Natural Energy LLC	12,5% or Greater	1588	58.
В	WV-061-003856-067	LASH, TIMOTHY'S	Northeast Natural Energy LLC	12.5% or Greater	1,589	476
В	WV-061-004599-001	LEMLEY, ELLEN E	Northeast Natural Energy LLC	12,5% or Greater	1595	500
В	WV-061-004599-029	LEMLEY, MARY FL	Northeast Natural Energy LLC	12.5% or Greater	1607	61)
	WV-061-003674-012	LEMLEY, MARY LO	Northeast Natural Energy LLC	12.5% or Greater	1550	473

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
В	WV-061-003856-050	MASSIE, GINA	Northeast Natural Energy LLC	12.5% or Greater	1586	18
	WV-061-003856-080	MAY, LOLA E.	Northeast Natural Energy LLC	12.5% or Greater	1593	448
		MCCARDLE, ALLEN	Northeast Natural Energy LLC	12.5% or Greater	1577	804
	WV-061-003674-004	MCCULLOUGH, MAR	Northeast Natural Energy LLC	12.5% or Greater	1541	834
	WV-061-003856-077 WV-061-003856-041	MICHAEL, ROBERT MILLER, SHIRLEY	Northeast Natural Energy LLC Northeast Natural Energy LLC	12.5% or Greater 12.5% or Greater	1593 1578	603 345
	WV-061-003856-006	MOFFA, DEBRA G	Northeast Natural Energy LLC	12.5% or Greater	1566	21
	WV-061-003674-018	MOORE, ETHAN D	Northeast Natural Energy LLC	12.5% or Greater	1566	295
	WV-061-003708-015	MOORE, HAROLD W	Northeast Natural Energy LLC	12.5% or Greater	1564	380
В	WV-061-004599-022	MOORE, JEFF ET	Northeast Natural Energy LLC	12.5% or Greater	1615	779
		MOORE, PAULINE	Northeast Natural Energy LLC	12.5% or Greater	1576	847
	WV-061-003856-014	MOORE, VELDA E	Northeast Natural Energy LLC	12.5% or Greater	1565	<b>∞</b> 676
В	WV-061-004599-066	MURPHY, JOYCE C	Northeast Natural Energy LLC	12.5% or Greater	1648 1550	Z-71
	WV-061-003674-008 WV-061-003674-033	MYERS, NICHOLAS NETZEL, DEBORAH	Northeast Natural Energy LLC Northeast Natural Energy LLC	12.5% or Greater 12.5% or Greater	1568	146
	WV-061-003074-033 WV-061-004599-012	NICHOLSON, GLEN	Northeast Natural Energy LLC	12.5% or Greater	1606	<del>744</del>
$\frac{1}{B}$	WV-061-003708-002	OWEN, LOLA T.	Northeast Natural Energy LLC	12.5% or Greater	1550	481
В	WV-061-003674-028	PANRELL, NORMA	Northeast Natural Energy LLC	12.5% or Greater	1564	717
	WV-061-004599-054	PAPESH, LEA ANN	Northeast Natural Energy LLC	12.5% or Greater	1627	<b>6</b> 325
	WV-061-003856-037	PATTERSON, ALYS	Northeast Natural Energy LLC	12.5% or Greater	1579	809
	WV-061-003856-039	PATTERSON, JARE	Northeast Natural Energy LLC	12.5% or Greater	1579	818
В	WV-061-003856-040	PATTERSON, RYAN	Northeast Natural Energy LLC	12.5% or Greater	1579	824 394
B	WV-061-003856-053 WV-061-004599-055	PHARES, WILLIAM PHARES, WILLIAM	Northeast Natural Energy LLC Northeast Natural Energy LLC	12.5% or Greater 12.5% or Greater	1588 1634	394
B	WV-061-004599-055 WV-061-003674-013	PIFER, DONNA IR	Northeast Natural Energy LLC	12.5% or Greater	1554	480
B	WV-061-003856-052	PRICE, VIVIAN	Northeast Natural Energy LLC	12.5% or Greater	1586	24
В	WV-061-004599-046	RAMSEY, GLENDA	Northeast Natural Energy LLC	12.5% or Greater	1613	82
В	WV-061-003674-002	RAMSEY, KATHY J	Northeast Natural Energy LLC	12.5% or Greater	1554	482
В	WV-061-003856-083	ROGERS, R BRUCE	Northeast Natural Energy LLC	12.5% or Greater	1607	56
В	WV-061-003674-016	ROSE, ELLEN MAR	Northeast Natural Energy LLC	12.5% or Greater	1554	422
ВВ	WV-061-004599-007	ROSS, NANCY	Northeast Natural Energy LLC	12.5% or Greater	1605 1557	280 367
$\frac{B}{B}$	WV-061-003856-002 WV-061-005119-001	SAGO, ANTHONY G SAGO, APRIL DAW	Northeast Natural Energy LLC Northeast Natural Energy LLC	12.5% or Greater 12.5% or Greater	1618	781
B	WV-061-003856-003	SAGO, DAVID K.	Northeast Natural Energy LLC	12.5% or Greater	1564	378
В	WV-061-003856-005	SAGO, JEFFREY	Northeast Natural Energy LLC	12.5% or Greater	1567	840
В	WV-061-003856-001	SAGO, KAREN E	Northeast Natural Energy LLC	12.5% or Greater	1553	220
В	WV-061-003856-049	SCRIPP, ZEVA C.	Northeast Natural Energy LLC	12.5% or Greater	1584	774
В	WV-061-004599-010	SHRIVER, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1605	299
В	WV-061-003856-071	SLAMPAK, CHERYL	Northeast Natural Energy LLC	12.5% or Greater	1590	321
В	WV-061-004599-002 WV-061-004599-026	SLIFKO, JANICE SMITH, JUDY T	Northeast Natural Energy LLC   Northeast Natural Energy LLC	12.5% or Greater 12.5% or Greater	1597 1607	599 266
B	WV-061-004599-058	SPEARS, KYLIE	Northeast Natural Energy LLC	12.5% or Greater	1638	311
B	WV-061-003708-010	STATLER, VANETA	Northeast Natural Energy LLC	12.5% or Greater	1562	215
В	WV-061-003674-014	STEELE, REBECCA	Northeast Natural Energy LLC	12.5% or Greater	1550	475
В	WV-061-004599-009	STEVENSON, DONN	Northeast Natural Energy LLC	12.5% or Greater	1605	296
В	WV-061-003856-020	STIERINGER, SHI	Northeast Natural Energy LLC	12.5% or Greater	1575	439
В	WV-061-003856-022	STILES, DEBORAH	Northeast Natural Energy LLC	12.5% or Greater	1577	783
В	WV-061-003674-022	STILES, GERALD	Northeast Natural Energy LLC	12.5% or Greater	1564	376
	WV-061-003674-023 WV-061-003674-027	ISTILES, HAROLD	Northeast Natural Energy LLC Northeast Natural Energy LLC	12.5% or Greater 12.5% or Greater	1563	121 27
B	WV-061-003574-027 WV-061-004599-040	SUMNER, JASON	Northeast Natural Energy LLC	12.5% or Greater	1610	366
	WV-061-003676-001	SWIGER, JOSEPH	Northeast Natural Energy LLC	12.5% or Greater	1561	101
	WV-061-004599-034	TEAL, JAMY D.	Northeast Natural Energy LLC	12.5% or Greater	1608	18
	WV-061-003856-065	TEMPLE, JODY L.	Northeast Natural Energy LLC	12.5% or Greater	1589	473
	WV-061-004599-057	TEMPLE, JOSHUA	Northeast Natural Energy LLC	12.5% or Greater	1638	308
	WV-061-003856-064	TEMPLE, KEVIN A	Northeast Natural Energy LLC	12.5% or Greater	1589	470
	WV-061-004599-059 WV-061-003708-004	TEMPLE, MEGAN	Northeast Natural Energy LLC' Northeast Natural Energy LLC	12.5% or Greater	1638 1557	316 778
	WV-061-003708-004 WV-061-004599-063	TENNANT, ALLEN TENNANT, BILLY	Northeast Natural Energy LLC  Northeast Natural Energy LLC	12.5% or Greater 12.5% or Greater	1640	592
	WV-061-004535-005	TENNANT, BRENDA	Northeast Natural Energy LLC	12.5% or Greater	1541	842
В	WV-061-004599-014	TENNANT, BURL A	Northeast Natural Energy LLC	12.5% or Greater	1604	236
В	WV-061-004599-019	TENNANT, CARL F	Northeast Natural Energy LLC	12.5% or Greater	1611	491
В	WV-061-003674-015	TENNANT, CECIL	Northeast Natural Energy LLC	12.5% or Greater	1550	477
	WV-061-004599-047	TENNANT, CLYDE	Northeast Natural Energy LLC	12.5% or Greater	1613	85
	WV-061-003708-003	TENNANT, DANNY	Northeast Natural Energy LLC	12.5% or Greater	1550	483 466
B	WV-061-004599-068 WV-061-003856-046	TENNANT, DIANA TENNANT, DONALD	Northeast Natural Energy LLC   Northeast Natural Energy LLC	12.5% or Greater 12.5% or Greater	135 1580	188
B	WV-061-003836-046 WV-061-004599-051	TENNANT, FRANCI	Northeast Natural Energy LLC	12.5% or Greater	1611	686
В	WV-061-003856-043	TENNANT, FREDDI	Northeast Natural Energy LLC	12.5% or Greater	1580	179
В	WV-061-003674-037	TENNANT, GLENDA	Northeast Natural Energy LLC	12.5% or Greater	1577	4
В	WV-061-003674-032	TENNANT, HELEN	Northeast Natural Energy LLC	12.5% or Greater	1568	319
В	WV-061-004599-049	TENNANT, HERBER	Northeast Natural Energy LLC	12.5% or Greater	1613	91
В	WV-061-004599-045	TENNANT, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1613	79
В	WV-061-003856-025	TENNANT, JEAN	Northeast Natural Energy LLC	12.5% or Greater	1577	798 530
B	WV-061-003856-033 WV-061-004599-035	TENNANT, JEFF TENNANT, JEFFER	Northeast Natural Energy LLC Northeast Natural Energy LLC	12.5% or Greater 12.5% or Greater	1577 1608	528 20
В	WV-061-004599-035	TENNANT, JEFFRE	Northeast Natural Energy LLC	12.5% or Greater	1607	264
B	WV-061-003856-060	TENNANT, JOSEPH	Northeast Natural Energy LLC	12.5% or Greater	1588	610
B	WV-061-004599-016	TENNANT, KEITH	Northeast Natural Energy LLC	12.5% or Greater	1606	747
B	WV-061-003708-001	TENNANT, LARRY	Northeast Natural Energy LLC	12.5% or Greater	1550	479

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
В	WV-061-003856-015	TENNANT, MARTHA	Northeast Natural Energy LLC	12.5% or Greater	1557	752
B	WV-061-003856-031	TENNANT, MELODY	Northeast Natural Energy LLC	12.5% or Greater	1576	839
В	WV-061-003856-012 WV-061-004599-052	TENNANT, MICHAE	Northeast Natural Energy LLC	12,5% or Greater	1557	447
В	WV-061-003856-021	TENNANT, MICHAE TENNANT, NELSON	Northeast Natural Energy LLC	12.5% or Greater	1611	688
В	WV-061-003856-055	TENNANT, RALPH	Northeast Natural Energy LLC Northeast Natural Energy LLC	12.5% or Greater	1576	277
В	WV-061-004599-008	TENNANT, RANDY	Northeast Natural Energy LLC	12.5% or Greater 12.5% or Greater	1588 1605	570
В	WV-061-003674-019	TENNANT, RICHAR	Northeast Natural Energy LLC	12.5% or Greater	1562	287 201
В	WV-061-004599-050	TENNANT, RITA	Northeast Natural Energy LLC	12.5% or Greater	1610	836
В	WV-061-003674-034	TENNANT, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1573	456
В	WV-061-003856-047	TENNANT, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1582	61
В	WV-061-004599-048	TENNANT, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1613	10 88
В	WV-061-003856-029	TENNANT, SCOTT	Northeast Natural Energy LLC	12,5% or Greater	1577	530
В	WV-061-003856-061	TENNANT, SHELIA	Northeast Natural Energy LLC	12.5% or Greater	1588	.646
В	WV-061-004599-013	TENNANT, SHIRL	Northeast Natural Energy LLC	12,5% or Greater	1604	234
В	WV-061-003674-021	TENNANT, SYLVIA	Northeast Natural Energy LLC	12.5% or Greater	1564	715
В	WV-061-003856-010	TENNANT, VIRGIN	Northeast Natural Energy LLC	12.5% or Greater	1557	O 439
В	WV-061-003708-005	TENNANT, WILBUR	Northeast Natural Energy LLC	12.5% or Greater	1550	485
В	WV-061-003674-009	TENNANT, WM R.	Northeast Natural Energy LLC	12.5% or Greater	1550	577
В	WV-061-003674-029	THOMAS FAMILY	Northeast Natural Energy LLC	12.5% or Greater	1565	594
В	WV-061-004599-024	THOMAS, SANDRA	Northeast Natural Energy LLC	12.5% or Greater	1606	480
В	WV-061-004599-033	TRUITT, TENISHA	Northeast Natural Energy LLC	12.5% or Greater	1608	0 16
В	WV-061-003856-058	TUTTLE, ALBERT	Northeast Natural Energy LLC	12.5% or Greater	1588	598
B	WV-061-004599-020	TUTTLE, CHARLES	Northeast Natural Energy LLC	12.5% or Greater	1610	574
8	WV-061-004599-031	TUTTLE, CHARLES	Northeast Natural Energy LLC	12.5% or Greater	1607	622
8	WV-061-004599+018 WV-061-004599+030	TUTTLE, PAUL ET	Northeast Natural Energy LLC	12.5% or Greater	1604	371
В	WV-061-004599-030	TUTTLE, RONALD	Northeast Natural Energy LLC	12.5% or Greater	1607	620
В	WV-061-004599-036	TUTTLE, SUNG JA	Northeast Natural Energy LLC Northeast Natural Energy LLC	12,5% or Greater 12,5% or Greater	1606	696 836
В	WV-061-004599-003	VALENTINE, JOYC	Northeast Natural Energy LLC	12.5% or Greater	1597	601
В	WV-061-003856-070	VENEZIA, MARY J	Northeast Natural Energy LLC	12.5% or Greater	1589	561
В	WV-061-003674-003	(WALKER, CHARLEN	Northeast Natural Energy LLC	12.5% or Greater	1550	573
В	WV-061-003574-001	WALKER, MARTHA	Northeast Natural Energy LLC	12.5% or Greater	1550	489
В	WV-061-003856-019	WALKER, NEVA R	Northeast Natural Energy LLC	12,5% or Greater	1575	272
В	WV-061-003856-018	WALKER, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1575	270
В	WV-061-003856-017	WALKER, RUBY G	Northeast Natural Energy LLC	12,5% or Greater	1575	268
В	WV-061-004599-042	WALLS, ROBIN ET	Northeast Natural Energy LLC	12.5% or Greater	1610	370
В	WV-061-004599-027	WALSH, SHARON T	Northeast Natural Energy LLC	12.5% or Greater	1607	268
В	WV-061-003856-042	WALTERS, RUSSEL	Northeast Natural Energy LLC	12,5% or Greater	1578	156
В	WV-061-003856-051	WEAVER, DOROTHY	Northeast Natural Energy LLC	12.5% or Greater	1586	21
В	WV-061-003856-069	WHITE, DEBORAH	Northeast Natural Energy LLC	12.5% or Greater	1589	143
В.	WV-061-003856-073	WILFONG, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1590	329
В	WV-061-003674-011	WILSON, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1542	96
В	WV-061-003708-008	WILSON, BERTHA	Northeast Natural Energy LLC	12.5% or Greater	1550	525
В	WV-061-003708-009	WILSON, LEONARD	Northeast Natural Energy LLC	12.5% or Greater	1552	424
8 B	WV-061-004599-062	WOODHAM, KIMBER	Northeast Natural Energy LLC	12.5% or Greater	1639	811
B	WV-061-003856-062 WV-061-003674-035	WRIGHT, FLOYD W	Northeast Natural Energy LLC	12,5% or Greater	1589	253
	WV-061-003674-035	WRIGHT, MARY A	Northeast Natural Energy LLC	12.5% or Greater	1574	526
8	WV-061-003708-014	YOST, JARROD YOST, JASON G	Northeast Natural Energy LLC	12.5% or Greater	1556	471
В	WV-061-003674-025	YOST, VERL LOYE	Northeast Natural Energy LLC Northeast Natural Energy LLC	12.5% or Greater	1574	524
В	WV-061-003708-012	VOST, VINCENT	Northeast Natural Energy LLC	12.5% or Greater 12.5% or Greater	1557 1564	451 323
C	WV-061-004367-015	ASKEW, CELIA P.	Northeast Natural Energy LLC	12.5% or Greater	1585	201
C	WV-061-004367-019	BAILES, SEYMOUR	Northeast Natural Energy LLC	12.5% or Greater	1593	683
C	WV-061-004367-014	BROOKOVER, CARM	Northeast Natural Energy LLC	12.5% or Greater	1581	345
C	WV-061-004428-001	CAMPBELL, IEFF	Northeast Natural Energy LLC	12.5% or Greater	1580	254
C	WV-061-004564-002	CANNATA, DEANNA	Northeast Natural Energy LLC	12.5% or Greater	1504	845
C	WV-061-004367-005	FARRINGER, HELE	Northeast Natural Energy LLC	12,5% or Greater	1577	67
C	WV-061-004367-001	FLEMING, PATRIC	Northeast Natural Energy LLC	12.5% or Greater	1577	59
L C	WV-061-004367-013	FLOWERS, PAULET	Northeast Natural Energy LLC	12.5% or Greater	1580	56
C	WV-061-004479-001	HOPKINS, BARBAR	Northeast Natural Energy LLC	12.5% or Greater	1586	424
C	WV-061-004367-002	KING, BETTY JO	Northeast Natural Energy LLC	12.5% or Greater	1577	-61
- C	WV-061-004564-001	KING, ROBERTA M	Northeast Natural Energy LLC	12.5% or Greater	1591	730
- C	WV-061-004367-008	KRAUS, RHONDA B	Northeast Natural Energy LLC	12,5% or Greater	1578	419
- C	WV-061-004367-017	MCLARTY, DEBBIE	Northeast Natural Energy LLC	12.5% or Greater	1593	650
C	WV-061-004367-018	MCLARTY, JOHN M	Northeast Natural Energy LLC	12.5% or Greater	1594	728
C	WV-061-004367-016	MILLER, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1590	337
C	WV-061-004367-012 WV-061-004367-020	NEYLON, MYRA J	Northeast Natural Energy LLC	12.5% or Greater	1579	255
Č	WV-061-004367-009	PRICE, DORIS I.	Northeast Natural Energy LLC	12.5% or Greater	1661	770
C	WV-061-004367-006	PRICE, GARY MIC	Northeast Natural Energy LLC Northeast Natural Energy LLC	12.5% or Greater	1578	421
C	WV-061-004367-003	ROY, BETTY EILE	Northeast Natural Energy LLC	12.5% or Greater 12.5% or Greater	1578	63
	WV-URI-UU3/3h-UUU	BRUMMAGE, KAY	Northeast Natural Energy LLC	12.5% or Greater	1535	738
E	WV-061-000127-001-LA	The state of the s	Northeast Natural Energy LLC	12.5% or Greater	1650	538
F	WV-061 003023 014	EDDY, BILLY JOE	Northeast Natural Energy LLC	12.5% or Greater	1518	25
F	WV-061-D03023-015	EDDY, DENZIL	Northeast Natural Energy LLC	12.5% or Greater	1517	374
E	WV-061-003023-019	EDDY, MELVIN L.	Northeast Natural Energy LLC	12.5% or Greater	1534	118
F	WV-061-003023-016	EDDY, ORA	Northeast Natural Energy LLC	12.5% or Greater	1517	387
F	WV-061-003023-006	HARRIS, JULIA M	Chesapeake Appalachia, L.L.C.	12.5% or Greater	120	769
F	WV-061-003023-006		Northeast Natural Energy LLC	12.5% or Greater	120	769

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
F	WV-061-003023-013	LEMMON, DONNA E	Chesapeake Appalachia, L.L.C.	12.5% or Greater	120	769
F	WV-061-003023-013	Chesapeake Appalachia, L	Northeast Natural Energy LLC	12.5% or Greater	120	769
F	WV-061-003023-020	LIPSCOMB, JUDY	Northeast Natural Energy LLC	12.5% or Greater	1535	693
F	WV-061-003023-021	PHILLIPS, REBEC	Northeast Natural Energy LLC	12.5% or Greater	1535	695
F	WV-061-003023-018	POLANSKY, EMELI	Northeast Natural Energy LLC	12.5% or Greater	1521	692
F	WV-061-003023-002	ROUPE, LARRY L.	Chesapeake Appalachia, L.L.C.	12.5% or Greater	120	769
F	WV-061-003023-002	Chesapeake Appalachia, L	Northeast Natural Energy LLC	12.5% or Greater	120	769
F	WV-061-003023-022	WHITE, TERRY	Northeast Natural Energy LLC	12.5% or Greater	1554	442
F	WV-061-003023-003	WOOD, NINA J.	Chesapeake Appalachia, L.L.C.	12.5% or Greater	120	769
F	WV-061-003023-003	Chesapeake Appalachia, I	Northeast Natural Energy LLC	12.5% or Greater	120	769
F	WV-061-003023-017	WRIGHT, LENA A.	Northeast Natural Energy LLC	12.5% or Greater	1521	728
6	WV-061-005563-001	NOUMENON CORP.	Northeast Natural Energy LLC	12.5% or Greater	1521	728
H	WV-061-003693-002	ASKEW, CELIA P	Northeast Natural Energy LLC	12.5% or Greater	1557	441
H	WV-061-003693-001	BROOKOVER, CARM	Northeast Natural Energy LLC	12,5% or Greater	1535	847
H	WV-061-004428-001	CAMPBELL, JEFF	Northeast Natural Energy LLC	12.5% or Greater	1580	254
H	WV-061-004564-002	CANNATA, DEANNA	Northeast Natural Energy LLC	12.5% or Greater	1604	846
Н	WV-061-003693-007	FARRINGER, HELE	Northeast Natural Energy LLC	12.5% or Greater	1553	280
Н	WV-061-003693-005	FLEMING, PATRIC	Northeast Natural Energy LLC	12.5% or Greater	1557	497
H	WV-061-003758-002	FLOWERS, PAULET	Northeast Natural Energy LLC	12.5% or Greater	1550	209
H	WV-061-004479-001	HOPKINS, BARBAR	Northeast Natural Energy LLC	12.5% or Greater	1586	424
Н	WV-061-003693-004	KING, BETTY JO	Northeast Natural Energy LLC	12.5% or Greater	1544	112
H	WV-061-004564-001	KING, ROBERTA M	Northeast Natural Energy LLC	12.5% or Greater	1591	730
Н	WV-061-003758-004	KRAUS, RHONDA	Northeast Natural Energy LLC	12.5% or Greater	1549	606
Н	WV-061-003693-010	LOTH, JOHN L.	Northeast Natural Energy LLC	12.5% or Greater	1564	804
H	WV-061-003693-008	MCLARTY, DEBBIE	Northeast Natural Energy LLC	12.5% or Greater	1554	438
H	WV-061-003693-009	MCLARTY, JOHN M	Northeast Natural Energy LLC	12.5% or Greater	1551	239
H	WV-061-003758-005	MILLER, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1559	584
Н	WV-061-003758-001	NEYLON, MYRA J	Northeast Natural Energy LLC	12.5% or Greater	1552	422
H	WV-061-003693-003	PRICE, DORIS	Northeast Natural Energy LLC	12.5% or Greater	1553	309
Н	WV-061-003758-003	PRICE, GARY M	Northeast Natural Energy LLC	12.5% or Greater	1548	11
Н	WV-061-003693-006	ROY, BETTY EILE	Northeast Natural Energy LLC	12.5% or Greater	1554	440
H	WV-061-004132-001	WACO OIL AND GA	Northeast Natural Energy LLC	12.5% or Greater	1564	219
	WV-061-000127-001-LA	EQI	Northeast Natural Energy LLC	12.5% or Greater	1660	538
1	WV-061-003725-001	EDDY, GARY L	Northeast Natural Energy LLC	12.5% or Greater	1547	846
K	WV-061-000127-001-LA	EQT	Northeast Natural Energy LLC	12.5% or Greater	1660	538
K	WV-061-003734-001	EDDY, DENZIL F.	Northeast Natural Energy LLC	12.5% or Greater	1564	671
1	WV-061-004515-000	EDDY, GARY L.	Northeast Natural Energy LLC	12.5% or Greater	1588	424



June 14, 2019

WV Department of Environmental Protection Office of Oil and Gas Management 601 57<sup>th</sup> Street SE Charleston, WV 25304

Re: Cummins North – 1H, 3H, 5H, 9H, and 13H

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 Rd (State Route 25), Tennant Memorial Rd (State Route 20), and Dooley Run Road (State Route 20/1) on the enclosed survey plats.

Sincerely,

Christa A. Dotson

Manager - Land Operations Development

Enclosure

RECEIVED Office of Oil and Gas

JUN 2 1 2019

Date of Notice Certification: 06/17/2019

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION

API No. 47-

				Operator'	s Well No. 5H	
				Well Pad	Name: Cummir	js
	been given:					
	ne provisions in West Virginia Code	8 22-6A, the Op	erator has pro	ovided the re	quired parties v	vith the Notice Forms liste
	tract of land as follows:					
State:	West Virginia		TM NAD 83	Easting:	570266.2	
County:	Monongalia			Northing:	4390567.3	Day Jee on
District:	Clay		blic Road Acc		CR 25/3 (Yank H	ollow Read)
Quadrangle: Watershed:	Blacksville	Ge	merally used i	rarm name;	Cummins	
watershed:	Dunkard Creek					
it has provid information r of giving the requirements Virginia Cod of this article Pursuant to	the secretary, shall be verified and ed the owners of the surface descrequired by subsections (b) and (c), surface owner notice of entry to of subsection (b), section sixteen e § 22-6A-11(b), the applicant shall have been completed by the application was a Virginia Code § 22-6A, the Carator has properly served the requirements.	ribed in subdivis section sixteen of survey pursuant of of this article w I tender proof of a ant.	ions (1), (2) this article; ( to subsection ere waived in and certify to the proof to	and (4), sub ii) that the re (a), section writing by the secretary	section (b), section (b), section (b), section that the surface over that the notice	ction ten of this article, the deemed satisfied as a result of each of the notice of six-a, or (iii) the notice of said Pursuant to We requirements of section to
	ECK ALL THAT APPLY	rea parties with th	ie i i i i i i i i i i i i i i i i i i			OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY O	SEISMIC AC				RECEIVED/
	TICE OF SEISMIC ACTIVITY 6	SEISMIC AC	TIVITY WAS	S CONDUC	TED	The country of the co
■ 2. NO		SEISMIC AC	TIVITY WAS PLAT SURV NOT REQUI ENTRY FOR	S CONDUC VEY WAS C RED BECA	TED ONDUCTED USE	NOT REQUIRED
■ 2. NO	TICE OF ENTRY FOR PLAT SUR	SEISMIC AC  EVEY or	TIVITY WAS PLAT SURV NOT REQUI ENTRY FOR	S CONDUC YEY WAS C RED BECA PLAT SUR BY SURFA	TED ONDUCTED USE VEY	NOT REQUIRED  RECEIVED
■ 2. NO	TICE OF ENTRY FOR PLAT SUR	SEISMIC ACTIVEY OF NOTICE NOTICE OF I WAS CONDU	TIVITY WAS PLAT SURV NOT REQUI ENTRY FOR JCTED or	S CONDUC YEY WAS C RED BECA PLAT SUR BY SURFA	TED ONDUCTED USE VEY	NOT REQUIRED  RECEIVED
■ 2. NO ■ 3. NO ■ 4. NO	TICE OF ENTRY FOR PLAT SUR	SEISMIC ACTIVEY OF NOTICE NOTICE OF I WAS CONDU	TIVITY WAS PLAT SURV NOT REQUI ENTRY FOR JCTED or	S CONDUC YEY WAS C RED BECA PLAT SUR BY SURFA	TED ONDUCTED USE VEY	NOT REQUIRED  RECEIVED  RECEIVED  NOT REQUIRED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

RECEIVED
Office of Oil and Gas

JUN 2 1 2019

#### Certification of Notice is hereby given:

THEREFORE, I Hollie Medley , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: Northeast Natural Energy LLC Address: 707 Virginia St. E., Suite 1200 By: Hollie Medley Charleston, WV 25301 Facsimile: 304-241-5972 Its: Regulatory Manager Email: Telephone: 304-212-0422 hmedley@nne-llc.com OFFICIAL SEAL
NOTARM SEATIPUBLIC
STATE OF WEST VIRGINIA
Kristen Brooks
Northeast Natural Energy LLC
48 Donley St., Suite 601
Morgantown, WV 26501
My Commission Expires Aug. 10, 2023 Subscribed and sworn before me this Notary Public

My Commission Expires

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

> RECEIVED Office of Oil and Gas

JUN 2 1 2019

WW-6A (9-13) 47 06 3 0 1 8 5 6

API NO. 47OPERATOR WELL NO. 5H
Well Pad Name: Cummins

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Not	ice Time Requirement: notice	shall be provided no later	than the filing date of permit application.	
Dat	e of Notice: 6/6/2019 Date Pe	ermit Application Filed: 6	5/17/2019	
Not	ice of:			
<b>V</b>	DED OF FOR ANY		ADDOLLA FOR THE	
V	PERMIT FOR ANY	요하는 경험하다 그 경험 점심하다 하나 있다.	PPROVAL FOR THE	
	WELL WORK	CONSTRUCTION O	F AN IMPOUNDMENT OR PIT	
Deli	very method pursuant to We	st Virginia Code § 22-6A-	-10(b)	
	PERSONAL REG	ISTERED	THOD OF DELIVERY THAT REQUIRES A	
-	SERVICE MAI		CEIPT OR SIGNATURE CONFIRMATION	
regis sedi: the sedi: ooil a desco oper more well impo have prov prop prop prop prov prop prov Cod	stered mail or by any method of coment control plan required by second arrace of the tract on which the wind gas leasehold being developed ribed in the erosion and sediment ator or lessee, in the event the trace coal seams; (4) The owners of twork, if the surface tract is to be bundment or pit as described in so a water well, spring or water supide water for consumption by hu osed well work activity is to take ection (b) of this section hold introduced to the sheriff required to be not ision of this article to the contrarter. § 35-8-5.7.a requires, in part	delivery that requires a receiption seven of this article, and well is or is proposed to be led by the proposed well work at control plan submitted pursued of land on which the well record of the surface tract or a used for the placement, contection nine of this article; (5 pply source located within on mans or domestic animals; as a place. (c)(1) If more than the rests in the lands, the application in the pursuant to section, notice to a lien holder is not, that the operator shall also	repit as required by this article shall deliver, by personal seep to or signature confirmation, copies of the application, the did the well plat to each of the following persons: (1) The or ocated; (2) The owners of record of the surface tract or tract, if the surface tract is to be used for roads or other land dissuant to subsection (c), section seven of this article; (3) The proposed to be drilled is located [sic] is known to be undertracts overlying the oil and gas leasehold being developed astruction, enlargement, alteration, repair, removal or aband. Any surface owner or water purveyor who is known to the thousand five hundred feet of the center of the well paid and (6) The operator of any natural gas storage field within the tenants in common or other co-owners of interests decant may serve the documents required upon the person do no eight, article one, chapter eleven-a of this code. (2) Not not notice to a landowner, unless the lien holder is the land of provide the Well Site Safety Plan ("WSSP") to the surface and provided in section 15 of this rule.	e erosion and ewners of record of eacts overlying the isturbance as the coal owner, derlain by one or d by the proposed adonment of any the applicant to d which is used to a which the escribed in escribed in the withstanding any downer. W. Va.
			ce ☑ Well Plat Notice is hereby provided to:	
Z SI	JRFACE OWNER(s)		☑ COAL OWNER OR LESSEE	
Nan	ie: Jerry L Yost et al		Name: see attached	
Add	ress: 74 Statler Run Road	V	Address:	
NT.	Fairview, WV 26570		- COAL OPERATOR	
Nam			☐ COAL OPERATOR	
Add	ress:		Name:	
71.51	JRFACE OWNER(s) (Road an	d/or Other Disturbance)	Address:	
	or our smoothed	The state of the s	SURFACE OWNER OF WATER WELL	
			AND/OR WATER PURVEYOR(s)	
Auu	ress:			
Van	io.		Name: see attached Address:	
A dd	e:		Address.	
Aud	ress:		OPERATOR OF ANY NATURAL GAS STORA	AGE FIELD
TSI	JRFACE OWNER(s) (Impound	lments or Pits)	Name:	and there
Nan	e:		Address:	RECEIVED
Add	ress:			Office of Oil and Gas
-			*Please attach additional forms if necessary	JUN 2 1 2019

47 06 101856

WW-6A (8-13) API NO. 47-\_\_\_\_\_
OPERATOR WELL NO. 5H RECEIVED
Well Pad Name: Cummins Office of Oil and Gas

JUN 2 1 2019

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

Environmental Protection

#### This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5,7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

#### Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13) 47 06 01856
API NO. 47-\_\_\_\_\_
OPERATOR WELL NO. 5H
Well Pad Name: Cummins

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

#### Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

#### Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

#### Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

#### **Written Comment:**

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57<sup>th</sup> St. SE
Charleston, WV 25304
(304) 926-0450

RECEIVED
Office of Oil and Gas

JUN 2 1 2019

WV Department of Environmental Protection

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WW-6A (8-13) APINO 47-06-\*01856
OPERATOR WELL NO. 5H
Well Pad Name: Cumnins

#### Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal scam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

#### **Comment Requirements**

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

#### **Permit Denial or Condition**

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

RECEIVED Office of Oil and Gas

JUN 2 1 2019

WW-6A (8-13)

47 06 101856

API NO. 47OPERATOR WELL NO. 5H
Well Pad Name: Cummins

Notice is hereby given by:

Well Operator: Northeast Natural Energy LLC

Telephone: 304-212-0422

Email: hmedley@nne-llc.com

Address: 707 Virginia St. E, Suite 1200

Charleston, WV 25301

Facsimile: 304-241-5972

#### Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Kristen Brooks
Northeast Natural Energy LLC
48 Donley St., Suite 601
Morgantown, WV 26501
My Commission Expires Aug. 10, 2023

Subscribed and sworn before me this Uthday of June 20

My Commission Expires Aug. 10, 202

, 2023

RECEIVED Office of Oil and Gas

JUN 2 1 2019

### **Cummins 5H**

#### <u>Surface Owner(s) – Road and/or Other</u> Disturbance:

Samuel W. & Stacey L. Matteo 404 Country Road Fairview, WV 26570

Patty Ann Kassay 1991 Daybrook Road Fairview, WV 26570

Bernice Tennant 299 Ellis Tennant Hollow Fairview, WV 26570

Precision Oil & Gas Inc. \
PO Box 884
Bridgeport, WV 26330

#### Coal Owner(s) or Lessee(s):

CONSOL Mining Company LLC 1000 Consol Energy Drive Canonsburg, PA 15317

Gary G. Loring, et al 1176 Sands Drive Fairmont, WV 26554

#### <u>Surface Owner of Water Well and/or Water</u> <u>Purveyor(s)</u>

Melvin Luther Eddy et al 528 Memorial Road Fairview, WV 26570

Bernice Tennant 299 Ellis Tennant Hollow Fairview, WV 26570

Todd J. & Carlene S. Moore 800 Memorial Rd Fairview, WV 26570

> RECEIVED Office of Oil and Gas

JUN 2 1 2019

WW-6A3 (1/12)

Operator	Well No.	Cummins Pad	

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time	Requirement:	Notice shall be prov	vided at least SE	VEN (7) da	ys but no more tha	ın FORTY-FIVE (45) d	ays prior to	
Date of Noti	ce: 10/25/2017	Date of Plan	nned Entry: 11/	1/2017				
Delivery me	thod pursuant	to West Virginia C	ode § 22-6A-10	а				
☐ PERSO	NAL D	REGISTERED	■ METH	OD OF DEI	IVERY THAT RI	EOUIRES A		
				METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION				
on to the suri but no more beneath such owner of mir and Sedimen Secretary, when able the su	face tract to cond than forty-five d tract that has fil herals underlying t Control Manua hich statement sh rface owner to o	luct any plat surveys ays prior to such ented a declaration pur such tract in the co I and the statutes and all include contact in btain copies from the	s required pursu try to: (1) The si- suant to section ounty tax records ad rules related to information, inc	ant to this a urface owne thirty-six, a The notic o oil and ga	rticle. Such notice or of such tract; (2) rticle six, chapter t e shall include a st s exploration and p	r shall provide notice of shall be provided at least to any owner or lessee o wenty-two of this code; atement that copies of the production may be obtain age on the Secretary's we	seven days f coal seams and (3) any e state Erosic ed from the	
	eby provided to	0;		<b>■</b> co.	. ONDERD ON LE	2000		
	CE OWNER(s)				L OWNER OR LE			
	Ellis Tennant Hollow				CONSOL Mining Company			
Tructions.	view, WV 26570		+	Address:	1000 Consol Energy Drive Canonsburg, PA 15317			
	L. & Audra Errol Yost	1	<del>-</del>	-	Callonsotily, FA 10317			
Address: 748		1	-	MINI	ERAL OWNER(s)			
	view, WV 26570	7	-					
	ision Oil & Gas, Inc.		5.7	Name: see attached Address:				
Address: P.O.	Box 884			Audi Caa.				
Bridg	geport, WV 26330		2	*please attach additional forms if necessary				
			Ap	pprox. Latit iblic Road A atershed:	ude & Longitude:	operator is planning ent 570274.51,4390561.22 CR 25/3 (Yank Hollow Road) Dunkard Creek Cummins	ry to conduct	
Copies of the may be obtain Charleston, V	ned from the Sec VV 25304 (304-	retary, at the WV D	Manual and the epartment of Er of such docume	statutes and vironmenta nts or additi	d rules related to oi Il Protection headquional information r	il and gas exploration an uarters, located at 601 57 elated to horizontal drilli	th Street, SE, ng may be	EIVED Oil and Gas
Notice is he	reby given by:							
Well Operator: Northeast Natural Energy LLC			Address:			2 1 2019		
Telephone: 304-212-0422			Charleston, WV 25301 JUN		JUN	0 1 2010		
Email:	hmedley@nne-llc.	com		Facsimile:	304-241-5972		un/ Do	partment of
0" 10	D. F N. 41	5.40					Environme	partment of ental Protec

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

## Cummins Pad Notice of Entry for Plat Survey (WW-6A3) Attachment

#### Mineral Owners

A Keith Michael 241 Jefferson Street Bridgeport, WV 26330

Jane Ann Reynolds 2 West Hill Drive Fairmont, WV 26554

Gregory G. Michael 1176 Sands Drive Fairmont, WV 26554

> RECEIVED Office of Oil and Gas

JUN 2 1 2019

Operator Well No. Cummins 5H

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Date of Noti	Requirement: Notice shall be provided a ce: 06/06/2019 Date Per	t least TEN (10) days prior to filing a rmit Application Filed: 06/17/2019	permit application.			
Delivery me	thod pursuant to West Virginia Code § 3	22-6A-16(b)				
☐ HAND	CERTIFIED MAIL					
	and the state of t					
DELIVI	ERY RETURN RECEIPT REC	QUESTED				
receipt reque drilling a hor of this subsection m	sted or hand delivery, give the surface own izontal well: <i>Provided</i> . That notice given tion as of the date the notice was provided	ner notice of its intent to enter upon the pursuant to subsection (a), section to do to the surface owner: <i>Provided</i> , howner. The notice, if required, shall include.	, an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative.			
	reby provided to the SURFACE OV					
	L Yost et al	Name: see attached				
Address: 74 S		Address:				
Fair	iew, WV 26570					
State: County: District: Quadrangle:	wner's land for the purpose of drilling a howest Virginia  Monongalia  Clay	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	570266.2 4390567.3 SR 15/7 (Harvey Run Rd)			
	Blacksville, WV	Generally used farm name:	Cummins			
Watershed:	Dunkard Creek	Generally used familiname:	Cummins			
Watershed: This Notice Pursuant to facsimile nur related to ho.	Shall Include: West Virginia Code § 22-6A-16(b), this other and electronic mail address of the dizzontal drilling may be obtained from the	notice shall include the name, additional operator and the operator's authorized Secretary, at the WV Department of	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.			
Watershed; This Notice Pursuant to facsimile nur related to ho located at 60	Shall Include: West Virginia Code § 22-6A-16(b), this other and electronic mail address of the dizzontal drilling may be obtained from the	notice shall include the name, additional operator and the operator's authorized Secretary, at the WV Department of	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters.			
Watershed: This Notice Pursuant to facsimile nui related to ho located at 60 Notice is he	Dunkard Creek  Shall Include: West Virginia Code § 22-6A-16(b), this other and electronic mail address of the rizontal drilling may be obtained from the 157th Street, SE, Charleston, WV 25304 (creby given by:	notice shall include the name, additional operator and the operator's authorized Secretary, at the WV Department of 304-926-0450) or by visiting www.de	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.			
Watershed: This Notice Pursuant to facsimile nui related to ho located at 60 Notice is he	Dunkard Creek  Shall Include: West Virginia Code § 22-6A-16(b), this obser and electronic mail address of the rizontal drilling may be obtained from the 157 <sup>th</sup> Street, SE, Charleston, WV 25304 (creby given by: Northeast Natural Energy LLC	notice shall include the name, additional operator and the operator's authorized Secretary, at the WV Department of	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  Hollie Medley, Regulatory Manager			
Watershed; This Notice Pursuant to facsimile nur related to ho located at 60 Notice is he Well Operato	Dunkard Creek  Shall Include: West Virginia Code § 22-6A-16(b), this other and electronic mail address of the rizontal drilling may be obtained from the 157th Street, SE, Charleston, WV 25304 (creby given by:	notice shall include the name, additionation and the operator's authorized Secretary, at the WV Department of 304-926-0450) or by visiting www.de	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  Hollie Medley, Regulatory Manager 48 Donley Street, Suite 601			
Watershed; This Notice Pursuant to facsimile nur related to ho located at 60 Notice is he Well Operato	Dunkard Creek  Shall Include: West Virginia Code § 22-6A-16(b), this other and electronic mail address of the rizontal drilling may be obtained from the 157th Street, SE, Charleston, WV 25304 (creby given by:  Northeast Natural Energy LLC 707 Virginia Street E., Suite 1200	notice shall include the name, address;  notice shall include the name, address;  authorized Representative:  Address;	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  Hollie Medley, Regulatory Manager  48 Donley Street, Suite 601  Morgantown, WV 26501			
Watershed: This Notice Pursuant to facsimile nur related to ho located at 60  Notice is he Well Operato Address:	Dunkard Creek  Shall Include: West Virginia Code § 22-6A-16(b), this obser and electronic mail address of the rizontal drilling may be obtained from the first of the street, SE, Charleston, WV 25304 (  reby given by:  Northeast Natural Energy LLC  707 Virginia Street E., Suite 1200  Charleston, WV 25301  304-414-7060	notice shall include the name, address:  authorized Representative:  Address:  Telephone:	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  Hollie Medley, Regulatory Manager  48 Donley Street, Suite 601  Morgantown, WV 26501  304-414-7060			
Watershed: This Notice Pursuant to facsimile nur related to ho located at 60 Notice is he Well Operate Address: Telephone:	Dunkard Creek  Shall Include: West Virginia Code § 22-6A-16(b), this other and electronic mail address of the rizontal drilling may be obtained from the 157th Street, SE, Charleston, WV 25304 (  reby given by:  Northeast Natural Energy LLC  707 Virginia Street E., Suite 1200  Charleston, WV 25301	notice shall include the name, address;  notice shall include the name, address;  authorized Representative:  Address;	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  Hollie Medley, Regulatory Manager  48 Donley Street, Suite 601  Morgantown, WV 26501			

Oil and Gas Privacy Notice:

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JUN 2 1 2019

#### **CUMMINS 5H - WW-6A4 Attachment**

#### Surface Owner(s) - Road and/or Other Disturbance:

Samuel W. & Stacey L. Matteo 404 Country Road Fairview, WV 26570

Patty Ann Kassay 1991 Daybrook Road Fairview, WV 26570

Bernice Tennant 299 Ellis Tennant Hollow Fairview, WV 26570

Precision Oil & Gas Inc. PO Box 884 Bridgeport, WV 26330

Office of Oil and Gas

JUN 21 2019

WV Department of Environmental Protection

### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time Date of Notic		mit Application Filed: 06/	
Delivery met	hod pursuant to West Virginia C	ode § 22-6A-16(c)	
■ CERTI	FIED MAIL	☐ HAND	
	RN RECEIPT REQUESTED	DELIVERY	
return receipt the planned of required to be drilling of a lidamages to the (d) The notice of notice.	requested or hand delivery, give the operation. The notice required by a provided by subsection (b), section prizontal well; and (3) A propose a surface affected by oil and gas of	the surface owner whose land this subsection shall inclu- inten of this article to a surface use and compens- perations to the extent the da- given to the surface owner a	he permit application, an operator shall, by certified mail divil be used for the drilling of a horizontal well notice of de: (1) A copy of this code section; (2) The information acc owner whose land will be used in conjunction with the sation agreement containing an offer of compensation for amages are compensable under article six-b of this chapter, at the address listed in the records of the sheriff at the time
	s listed in the records of the sheriff		
A COLOR	L Yost et al	Manage	
Name: Jerry	E root of the	name:	see attached
Address: 74 St	atler Run Road	Addres	
Address: 74 St Fairv Notice is her Pursuant to W	atler Run Road lew, WV 26570 eby given: /est Virginia Code § 22-6A-16(c), 1	Addres	s:ne undersigned well operator has developed a planned
Address: 74 St Fairv Notice is her Pursuant to W operation on State: County: District: Quadrangle:	atler Run Road lew, WV 26570 eby given: /est Virginia Code § 22-6A-16(c), 1	Address  notice is hereby given that the second of drilling a horizonta of the beautiful that the second of the beautiful that the second of the beautiful that the beautiful thad the beautiful that the beautiful that the beautiful that the b	ne undersigned well operator has developed a planned al well on the tract of land as follows:  Easting: 570266.2 Northing: 4390567.3
Address: 74 St Fairv Notice is her Pursuant to W operation on State: County: District:	atler Run Road lew, WV 26570  eby given: /est Virginia Code § 22-6A-16(c), i the surface owner's land for the pu West Virginia Monongalia Clay	Address  notice is hereby given that the second of drilling a horizonta of the beautiful that the second of the beautiful that the second of the beautiful that the beautiful thad the beautiful that the beautiful that the beautiful that the b	ne undersigned well operator has developed a planned all well on the tract of land as follows:  Easting: 570266.2 Northing: 4390567.3 Access: CR 25/3 (Yank Hollow Road)
Notice is here Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice Sepursuant to Wood be provided the	eby given:  /est Virginia Code § 22-6A-16(c), if the surface owner's land for the put west Virginia  Monongalia  Clay  Blacksville  Dunkard Creek  Shall Include:  /est Virginia Code § 22-6A-16(c), if the surface owner's land for the put west Virginia  Monongalia  Clay  Blacksville  Dunkard Creek  Shall Include:  /est Virginia Code § 22-6A-16(c), if the surface use ed by oil and gas operations to the lated to horizontal drilling may be located at 601 57th Street, SE,	Address  notice is hereby given that the repose of drilling a horizonta  UTM NAD 8  Public Road  Generally use  this notice shall include: (1)  to a surface owner whose  and compensation agreeme  e extent the damages are come obtained from the Secret	ne undersigned well operator has developed a planned al well on the tract of land as follows:  Easting: 570266.2 Northing: 4390567.3 Access: CR 25/3 (Yank Hollow Road) Cummins  OA copy of this code section; (2) The information required a land will be used in conjunction with the drilling of ant containing an offer of compensation for damages to the compensable under article six-b of this chapter. Additional tary, at the WV Department of Environmental Protection
Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed:  This Notice Sepursuant to Woo be provided the	eby given: /est Virginia Code § 22-6A-16(c), if the surface owner's land for the put West Virginia Monongalia Clay Blacksville Dunkard Creek Shall Include: /est Virginia Code § 22-6A-16(c), if the surface owner's land for the put West Virginia Code § 22-6A-16(c), if the surface use with the surface use with the lated to horizontal drilling may be located at 601 57th Street, SE, walt.aspx.	Address  notice is hereby given that flex repose of drilling a horizonta UTM NAD 8  Public Road Generally use this notice shall include: (1) to a surface owner whose and compensation agreeme e extent the damages are compensation agreement of the	ne undersigned well operator has developed a planned all well on the tract of land as follows:  Easting: 570266.2 Northing: 4390567.3 Access: GR 25/3 (Yank Hollow Road) Cummins  OA copy of this code section; (2) The information required a land will be used in conjunction with the drilling of a nt containing an offer of compensation for damages to the compensable under article six-b of this chapter. Additional stary, at the WV Department of Environmental Protection (304-926-0450) or by visiting www.dep.wv.gov/oil-and-
Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed:  This Notice Sepursuant to Woo be provided the	eby given: //est Virginia Code § 22-6A-16(c), if the surface owner's land for the put west Virginia Monongalia Clay Blacksville Dunkard Creek Shall Include: //est Virginia Code § 22-6A-16(c), id by W. Va. Code § 22-6A-10(b) ll; and (3) A proposed surface use ed by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE, ault.aspx.  T: Northeast Natural Energy LLC	Address  notice is hereby given that the repose of drilling a horizonta  UTM NAD 8  Public Road  Generally use  this notice shall include: (1)  to a surface owner whose  and compensation agreeme  e extent the damages are come obtained from the Secret	ne undersigned well operator has developed a planned al well on the tract of land as follows:  Easting: 570266.2 Northing: 4390567.3 Access: CR 25/3 (Yank Hollow Road) Cummins  OA copy of this code section; (2) The information required a land will be used in conjunction with the drilling of a nt containing an offer of compensation for damages to the empensable under article six-b of this chapter. Additional tary, at the WV Department of Environmental Protection (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-707Virginia St. E, Suite 1200">www.dep.wv.gov/oil-and-707Virginia St. E, Suite 1200</a>
Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed:  This Notice Sepursuant to Woo be provided the	eby given: /est Virginia Code § 22-6A-16(c), if the surface owner's land for the put West Virginia Monongalia Clay Blacksville Dunkard Creek Shall Include: /est Virginia Code § 22-6A-16(c), if the surface owner's land for the put West Virginia Code § 22-6A-16(c), if the surface use with the surface use with the lated to horizontal drilling may be located at 601 57th Street, SE, walt.aspx.	Address  notice is hereby given that flex repose of drilling a horizonta UTM NAD 8  Public Road Generally use this notice shall include: (1) to a surface owner whose and compensation agreeme e extent the damages are compensation agreement of the	ne undersigned well operator has developed a planned al well on the tract of land as follows:  Easting: 570266.2 Northing: 4390567.3 Access: CR 25/3 (Yank Hollow Road) Cummins  OA copy of this code section; (2) The information required a land will be used in conjunction with the drilling of ant containing an offer of compensation for damages to the empensable under article six-b of this chapter. Additional tary, at the WV Department of Environmental Protection (304-926-0450) or by visiting www.dep.wv.gov/oil-and-  707 Virginia St. E, Suite 1200 Charleston, WV 25301

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

RECEIVED Office of Oil and Gas

JUN 2 1 2019

#### **CUMMINS 5H - WW-6A5 Attachment**

### Surface Owner(s) - Road and/or Other Disturbance:

Samuel W. & Stacey L. Matteo 404 Country Road Fairview, WV 26570

Patty Ann Kassay 1991 Daybrook Road Fairview, WV 26570

Bernice Tennant 299 Ellis Tennant Hollow Fairview, WV 26570

Precision Oil & Gas Inc.
PO Box 884
Bridgeport, WV 26330

RECEIVED Office of Oil and Gas

JUN 21 2019

WW-6AW (1-12)

47 06 01856 API NO. 47-OPERATOR WELL NO. 5H Well Pad Name: Cummins

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS OLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

Blacksville

Dunkard Creek

Quadrangle:

Watershed:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: Provided, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time. VOLUNTARY STATEMENT OF NO OBJECTION

, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form including the erosion and sediment control plan, if WW-6A and attachments consisting of pages one (1) through required, and the well plat, all for proposed well work on the tract of land as follows: 570266.2 Easting: West Virginia State: UTM NAD 83 Northing: 4390567.3 Monongalia County: CR 25/3 (Yank Hollow Road) Public Road Access: District: Clay Cummins

Generally used farm name:

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON
Signature:
Print Name: Paul Smith  Date: 6/13/19
FOR EXECUTION BY A CORPORATION, ETC.
Company: RECEIVED By: Office of Oil and
Its:
Date: WV Department of Environmental Protection

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



## WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

## **Division of Highways**

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

February 15, 2019

Thomas J. Smith, P. E. Secretary of Transportation/ Commissioner of Highways

Jill M. Newman Deputy Commissioner

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57<sup>th</sup> Street, SE Charleston, WV 25304

Subject: DOH Permit for the Cummins Pad, Monongalia County

Cummins 5H

Dear Mr. Martin,

This well site will be accessed from a permit #04-2014-0914 issued to Northeast Natural Energy Corporation for access to the State Road for a well site located off of Monongalia Route 25/3 SLS.

The operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY revised October 1, 2018.

Very Truly Yours,

Gary K. Clayton, P.E.

Day K. Claytors

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Kristen Brooks

Northeast Natural Energy Corporation

CH, OM, D-4

File

RECEIVED Office of Oil and Gas

JUN 2 1 2019

### **Planned Additives to be used in Fracturing Stimulations**

Trade Name	Purpose	Ingredients	Cemical Abstract Service Numner (CAS#)
Water	Carrier	Water	7732-18-5
HCI, 10.1-15%	Acidizing	Hydrochloric Acid Water	7647-01-0 7732-18-5
Alpha 1427	Biocide	Alkyl Dimethyl Benzyl Ammonium Chloride (C12-16) Ethanol Glutaraldehyde Quaternary Ammonium Chloride Water	68424-85-1 64-17-5 111-30-8 7173-51-5 7732-18-5
Enzyme G-NE	Breaker	Hemicellulase Enzyme Concentrate Water	9025-56-3 7732-18-5
Cl-14	Corrosion Inhibitor	Fatty Acids Methanol Olefin Polyozyalkylenes Propargyl Alcohol	NA 67-56-1 NA NA 107-19-7
GW-3LDF	Gelling Agent	Guar Gum Petroleum Distillate Blend	9000-30-0 CBI
FRW-18	Friction Reducer	Hydrotreated Light Distillate	64742-47-8
Ferrotrol 300L	Iron Crontrol	Citric Acid	77-92-9
Sand, White, 40/70	Proppant	Cystalline Silica (Quartz)	14808-60-7
Sand, White, 100 mesh	Proppant	Cystalline Silica (Quartz)	14808-60-7
Scaletrol 720	Scale Inhibitor	Diethylene Glycol	111-46-6

## **CUMMINS WELL PAD** CLAY DISTRICT, MONONGALIA COUNTY, WV OCTOBER 2018



TWO WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE WV ONE CALL SYSTEM, INC., 1-800-245-4848 (WV ONE CALL TICKET#1731378158)

OWNER



APPROVED WVDEP OOG 2 1/24/2019

NORTHEAST NATURAL ENERGY, LLC 707 VIRGINIA STREET SUITE 1200 CHARLESTON, WV 253 01

SHEET INDEX 1. TITLE SHEET

2-3. EVACUATION ROUTE/PREVAILING WIND 4. F&S CONTROL LAYOUT OVERVIEW 5-11. E&S CONTROL LAYOUT 12. E&S CONTROL AND SITE PLAN OVERVIEW 13-19, E&S CONTROL AND SITE PLAN 20. WELL PAD CROSS-SECTIONS AND UNDER DRAIN **PROFILES** 

21. KASSAY ACCESS ROAD PROFILE 22. CUMMINS ACCESS ROAD PROFILE 23-24. KASSAY ACCESS ROAD CROSS-SECTIONS 25-31. CUMMINS ACCESS ROAD CROSS-SECTIONS 32-34. DETAILS

35. RECLAMATION PLAN OVERVIEW 36-42, RECLAMATION PLAN

TOTAL PROJECT BOUNDARY: 54.47 AC. TOTAL LIMITS OF DISTURBANCE: 40.42 AC. ACCESS ROAD DISTURBANCE AREA: 28.43 AC. WELL PAD DISTURBANCE AREA: 11,99 AC.

PROPERTY PROJECT BOUNDARY ACREAGE

GEORGE F. McCOY & PATRICIA EDDY (TAX MAP AND PARCEL 04-17-55): 0.06 AC. SAMUEL W & STACEY LIMATTEO (TAX MAP AND PARCEL 04-17-59): 6.71 AC. PATTY ANN KASSAY (TAX MAP AND PARCEL 04-17-48): 8.24 AC. PRECISION OIL AND GAS INC. (TAX MAP AND PARCEL 04-17-62): 5.63 AC. BERNICE TENNANT (TAX MAP AND PARCEL 04-17-64): 15.50 AC. BERNICE TENNANT (TAX MAP AND PARCEL 04-17-63): 0.04 AC. JERRY LAND AUBRA ERROL YOST (TAX MAP AND PARCEL 04-17-72): 5.07 AC. IERRY LYOST ET AL (TAX MAP AND PARCEL 04-17-71): 12.22 AC.

#### PLANS PREPARED BY:

#### BOORD BENCHEK & ASSOCIATES, INC.

ENGINEERING, SURVEYING, CONSTRUCTION AND MINING SERVICES SOUTHPOINTE, PA 15317 PHONE: 724-746-1055



10-22-18

ANDREW BENCHEK



IN ACCORDANCE WITH WV 35 CSR 8 THE FOLLOWING PROSION & SEDIMENT CONTROL PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES ESTABLISHED BY THE CHIEF AND PROVIDED IN THE OFFICE'S EROSION AND SEDIMENT CONTROL FIELD MANUAL, A GENERAL CONSTRUCTION SEQUENCE, DESCRIPTION OF STABILIZATION METHODS, AND DETAILS & SPECIFICATIONS FOR EROSION & SEDIMENT BEST MANAGEMENT PRACTICES HAVE BEEN INCLUDED IN THE PROVIDED DETAIL SHEETS

TITLE SHEET

**CUMMINS WELL PAD** CLAY DISTRICT, MONONGALIA COUNTY, WV COORDINATES

CENTER OF WELLS (NAD 83) LAT: 39" 39' 43.15" LONG: 80" 10' 51.01" (NAD 27) LAT: 39° 39' 42.86" LONG: 80° 10' 51.74"

SITE ENTRANCE (NAD 83) LAT: 39° 39' 06.92" LONG: 80° 11' 57.82" (NAD 27) LAT: 39° 39' 06.63" LONG: 80° 11' 58.55"

SHEET

OF 42



Office of Oil and Gas JUN 2 1 2019

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WV Department of Environmental Protection

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