

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, May 10, 2019 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re:

Permit approval for CUMMINS 4H

47-061-01836-00-00

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: CUMMINS 4H

Farm Name: JERRY L. YOST ET AL

U.S. WELL NUMBER: 47-061-01836-00-00

Horizontal 6A New Drill

Date Issued: 5/10/2019

Promoting a healthy environment.

API Number: 4706101836

05/17/2019

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
- 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: 4706101936 05/17/2019

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, cessation of drilling, sending an email to DEPOOGNotify@wv.gov.

WW-6B (04/15)

API NO. 47	05/17/2019
OPERATOR WELL NO.	4H
Well Pad Name: Cumm	nins

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

1) Well Operator: No	rtheast Natural Energy	494498281	Monongalia	Clay Blacksville, WV
		Operator ID	County	District Quadrangle
2) Operator's Well Nu	mber: 4H	Well P	ad Name: Cumm	ins
3) Farm Name/Surface	Owner: Jerry L Yost et	al Public Ro	oad Access: CR 2	25/3 (Yank Hollow Rd.)
4) Elevation, current gr	round: 1360' E	Elevation, propose	d post-construction	n: 1358'
5) Well Type (a) Gas Other	s X Oil _	Un	derground Storage	
(b)If G	Gas Shallow X	Deep		
6) Existing Pad: Yes or	Horizontal X		BA	K 3/7/2019
	rmation(s), Depth(s), Anti	cipated Thickness	and Expected Pre	essure(s):
8) Proposed Total Vert	ical Depth: 8,070'			
9) Formation at Total V	Vertical Depth: Marcellu	IS		
10) Proposed Total Me	easured Depth: 19,449'			
11) Proposed Horizont	al Leg Length: 10,810'			
12) Approximate Fresh	Water Strata Depths:	50'; 1,250'		
13) Method to Determi	ine Fresh Water Depths:	Drillers Log from	offset wells	
14) Approximate Saltw	vater Depths: 1,648'; 2,4	08'		
15) Approximate Coal	Seam Depths: 1,248'			
16) Approximate Deptl	h to Possible Void (coal m	nine, karst, other):	NA	
	Il location contain coal sea ljacent to an active mine?	ams Yes	No	
(a) If Yes, provide M	ine Info: Name:			RECEIVED Office of Oil and Gas
, ,	Depth:			MAR 1 9 2019
	Seam:			WV Department of Environmental Protection
	Owner:			Environment i oteotion

WW-6B (04/15)

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API NO. 47-___ -____

OPERATOR WELL NO. 4H
Well Pad Name: Cummins

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	24"	New	NA	94.71	40'	40'	GTS
Fresh Water	13-3/8"	New	J-55	54.5	1,330'	1,300'	CTS
Coal							
Intermediate	9-5/8"	New	J-55	40	2,488'	2,458'	CTS
Production	5-1/2"	New	P-110	20	19,449'	19,419'	4536 Cu Ft
Tubing	2-7/8"	New	N-80	6.5			NA
Liners							

MAK 3/7/2019

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:	
Depths Set:	RECEIVED Office of Oil and Gas
- F	MAR 1 9 2019

` WW-6B (10/14)

API NO. 47	03/	17/201
OPERATOR WELL	NO. 4H	
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 6,550' TVD/MD. The well will then be horizontally drilled on synthetic based mud from the KOP to approximately 8,070' TVD/19,449' MD along a 143° 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.

Office of Oil and Gas

25) Proposed borehole conditioning procedures:

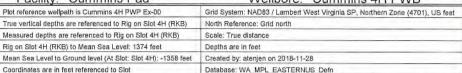
MAR 19 2019

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

^{*}Note: Attach additional sheets as needed.



NORTHEAST NATURAL ENERGY, LLC Location: Monongalia County, WV Field: Monongalia Well: Cummins 4H Facility: Cummins Pad Wellbore: Cummins 4H PWB



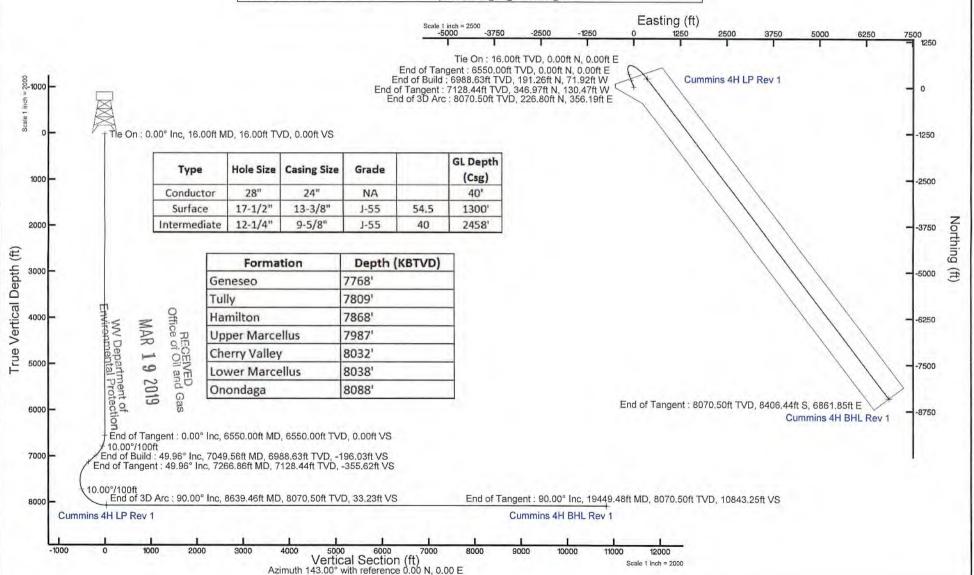


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API Number 47 -	API	Number	47 -
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Operator's Well No. Cummins 4H

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATI	ION PLAN
Operator Name Northeast Natural Energy LLC OP	Code 494498281
Watershed (HUC 10) Dunkard Creek Quadrangle Black	ksville
Do you anticipate using more than 5,000 bbls of water to complete the proposed well w Will a pit be used? Yes No	vork? Yes V No No
If so, please describe anticipated pit waste: N/A	
	hat ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number)
Reuse (at API Number unknown at this time, TBD	
Off Site Disposal (Supply form WW-9 for disposal location Other (Explain	n)
Will closed loop system be used? If so, describe: Yes, Please See Attachment "A"	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil	based, etc. Vertical - Air/ Curve & Horizontal - Oil Based
-If oil based, what type? Synthetic, petroleum, etc. Synthetic 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 offsite, etc. Removed O	Offsite - Please See Attachment "A"
-If left in pit and plan to solidify what medium will be used? (cement, lime, sa	awdust)
-Landfill or offsite name/permit number? Please See Attachment "A"	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill c West Virginia solid waste facility. The notice shall be provided within 24 hours of reject where it was properly disposed.	cuttings or associated waste rejected at any ction and the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENE on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Enprovisions of the permit are enforceable by law. Violations of any term or condition law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am fam application form and all attachments thereto and that, based on my inquiry of the obtaining the information, I believe that the information is true, accurate, and compensalties for submitting false information, including the possibility of fine or imprisonn	nvironmental Protection. I understand that the of the general permit and/or other applicable niliar with the information submitted on this cose individuals immediately responsible for splete. I am aware that there are significant
Company Official Signature Holl: Weol	MAR 1 9 2019
Company Official (Typed Name) Hollie Medley	***************************************
Company Official Title Regulatory Manager	WV Department of STATE OF STA
Subscribed and sworn before me this 12th day of March, 2019 Kustun Brooks My commission expires Aug 10, 2023	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

Operator's Well No. Cummins 4H

Fertilizer type 10-20-20 Fertilizer amount 300 Ibs/acre Mulch 2 Tons/acre Seed Mixtures Temporary Permanent Seed Type Ibs/acre Seed Type Ibs/acre Orchard Grass 46 Orchard Grass 46 Red Clover 8 Red Clover 8 Perennial Rye 16 Perennial Rye 16 Timothy 15 Annual Rye 15 Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	Proposed Revegetation Treatment: Acres Disturbe		on pH
Fertilizer amount 300 Ibs/acre Tons/acre Seed Mixtures	Lime 2 Tons/acre or to o	correct to pH 7	
Seed Mixtures Temporary Seed Type lbs/acre Seed Type lbs/acre Orchard Grass 46 Red Clover 8 Red Clover 8 Perennial Rye 16 Perennial Rye 16 Timothy 15 Annual Rye 15 Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	Fertilizer type 10-20-20		
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MAR I	Attach: Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applie acreage, of the land application area. Photocopied section of involved 7.5' topographic section Approved by: Comments:	or land application (unless engineered plans ed, include dimensions (L x W x D) of the pi	including this info have been t, and dimensions (L x W), and of the second seco

Attachment A to WW-9

Northeast Natural Energy LLC ("NNE") plans to utilize a closed loop process for its drilling of the Cummins 4H 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)

RECEIVED
Office of Oil and Gas

MAR 1 9 2019



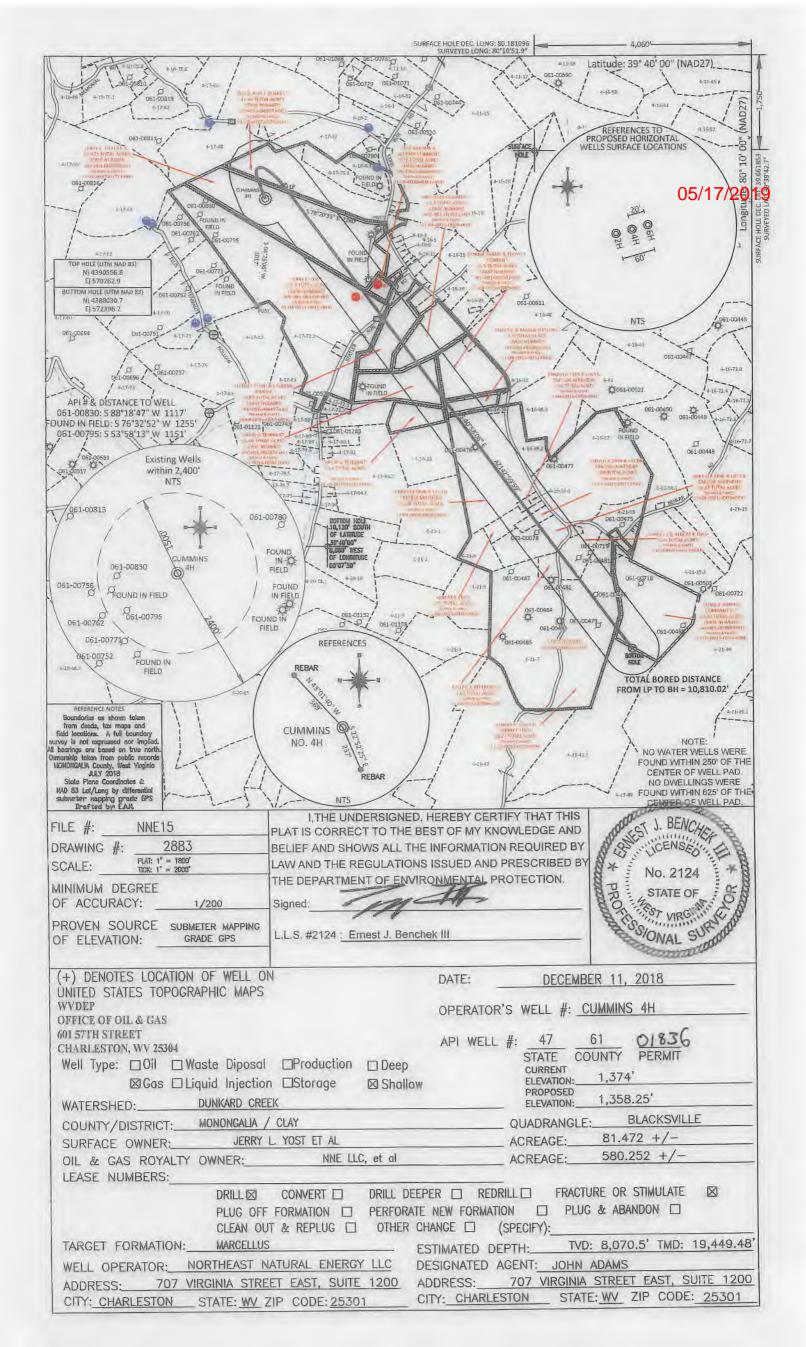
Cummins 4H SITE SAFETY PLAN

February 2019

1 217/2019

RECEIVED
Office of Oil and Gas

MAR 19 2019



WW-6A1 (5/13)

Operator's Well No.	Cummins 4H	
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INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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

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

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

See Attached

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

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

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

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:

By: Hollie Medley + OO Moles

Its: Regulatory Manager

WW-6A1

Operators Well No. Cummins 4H

WV-061-003499-001					
WW-001-003499-001	LORING, GARY G.	Northeast Natural Energy LLC	DEED	1545	764
WV-061-003676-001	SWIGER, JOSEPH	Northeast Natural Energy LLC	DEED	1561	10:
WV-061-004591-001	REYNOLDS, JANE	Northeast Natural Energy, LLC	0.125 or Greater	1595	384
WV-061-004591-002	MICHAEL, A.KEIT	Northeast Natural Energy LLC	0.125 or Greater	1594	66
WV-061-003674-001	WALKER, MARTHA	Northeast Natural Energy LLC	0.125 or Greater	1550	489
WV-061-003674-002	RAMSEY, KATHY J	Northeast Natural Energy LLC	0.125 or Greater	1554	482
WV-061-003674-003	WALKER, CHARLEN	Northeast Natural Energy LLC	0.125 or Greater	1550	573
WV-061-003674-004	MCCULLOUGH, MAR	Northeast Natural Energy LLC	0.125 or Greater	1541	834
WV-061-003674-005	TENNANT, BRENDA	Northeast Natural Energy LLC	0.125 or Greater	1541	842
WV-061-003674-006	ARNETT, ROBERT	Northeast Natural Energy LLC	0.125 or Greater	1550	487
WV-061-003674-007	BURKE, ARLEEN	Northeast Natural Energy LLC	0.125 or Greater	1550	491
WV-061-003674-008	MYERS, NICHOLAS	Northeast Natural Energy LLC	0.125 or Greater	1550	584
WV-061-003674-010	HIGGINS, WILMA	Northeast Natural Energy LLC	0.125 or Greater	1542	91
WV-061-003674-011	WILSON, BARBARA	Northeast Natural Energy LLC	0.125 or Greater	1542	96
WV-061-003674-012	LEMLEY, MARY LO	Northeast Natural Energy LLC	0.125 or Greater	1550	473
WV-061-003674-013	PIFER, DONNA IR	Northeast Natural Energy LLC	0.125 or Greater	1554	480
WV-061-003674-014	STEELE, REBECCA	Northeast Natural Energy LLC	0.125 or Greater	1550	475
WV-061-003674-015	TENNANT, CECIL	Northeast Natural Energy LLC	0.125 or Greater	1550	477
WV-061-003674-017	ARNETT, KENNETH	Northeast Natural Energy LLC	0.125 or Greater	1562	199
WV-061-003674-018	MOORE, ETHAN D	Northeast Natural Energy LLC	0.125 or Greater	1566	295
WV-061-003674-019	TENNANT, RICHAR	Northeast Natural Energy LLC	0.125 or Greater	1562	201
WV-061-003674-020	ARNETT, W. KEIT	Northeast Natural Energy LLC	0.125 or Greater	1564	673
WV-061-003674-021	TENNANT, SYLVIA	Northeast Natural Energy LLc	0.125 or Greater	1564	715
WV-061-003674-022	STILES, GERALD	Northeast Natural Energy LLC	0.125 or Greater	1564	376
WV-061-003674-023	STILES, HAROLD	Northeast Natural Energy LLC	0.125 or Greater	1563	121
WV-061-003674-024	KENNEDY, HELEN	Northeast Natural Energy LLC	0.125 or Greater	1557	365
WV-061-003674-025	YOST, VERL LOYE	Northeast Natural Energy LLC	0.125 or Greater	1557	451
WV-061-003674-027	STILES, JANICE	Northeast Natural Energy LLC	0.125 or Greater	1566	27
WV-061-003674-029	THOMAS FAMILY	Northeast Natural Energy LLC	0.125 or Greater	1565	594
WV-061-003674-031	EBERHART, TERRY	Northeast Natural Energy LLC	DEED	1563	206
WV-061-003674-032	TENNANT, HELEN	Northeast Natural Energy LLC	0.125 or Greater	1568	319
WV-061-003674-033	NETZEL, DEBORAH	Northeast Natural Energy LLC	0.125 or Greater	1568	146
WV-061-003674-034	TENNANT, ROBERT	Northeast Natural Energy LLC	0.125 or Greater	1573	456
WV-061-003674-035	WRIGHT, MARY A	Northeast Natural Energy LLC	0.125 or Greater	1574	526
WV-061-003674-036	YOST, JASON G	Northeast Natural Energy LLC	0.125 or Greater	1574	524
WV-061-003674-037	TENNANT, GLENDA	Northeast Natural Energy LLC	0.125 or Greater	1577	4
WV-061-003750-001	VARNER, DAVID	Northeast Natural Energy LLC	0.125 or Greater	1566	513
WV-061-003750-002	KENNEDY, CASSAN	Northeast Natural Energy LLC	0.125 or Greater	1564	325
WV-061-003750-003	CONJESKI, SALLY	Northeast Natural Energy LLC	0.125 or Greater	1562	437
WV-061-003750-004	GREENHALGH, MAR	Northeast Natural Energy LLC	0.125 or Greater	1565	560
WV-061-003750-005	NIDA, ABIGAIL	Northeast Natural Energy LLC	0.125 or Greater	1566	297
WV-061-003750-006	HOFFMAN, SYLVIA	Northeast Natural Energy LLC	0.125 or Greater	1551	164
WV-061-003750-007	GOODWIN, ELIZA	Northeast Natural Energy LLC	0.125 or Greater	1565	558
WV-061-003750-008	GOODWIN, MARY K	Northeast Natural Energy LLC	0.125 or Greater	1564	663
WV-061-003750-009	BIERER, SUE A	Northeast Natural Energy LLC	DEED	1561	642
WV-061-003750-010	LAWSON, VICTORI	Northeast Natural Energy LLC	DEED	1563	236
WV-061-003750-011	THROCKMORTON, D	Northeast Natural Energy LLC	0.125 or Greater	1557	437
WV-061-003750-012	GILL, SHEILA V.	Northeast Natural Energy LLC	0.125 or Greater	1560	459
WV-061-003750-013	STAVISCHECK, SI	Northeast Natural Energy LLC	0.125 or Greater	1557	748
	INTERDOMENTAL CALLA	Morthonet Metural Francis 116	DEED	1561	579
WV-061-003750-014 WV-061-003750-015	MCDONALD, SALLY WHITTINGTON, TA	Northeast Natural Energy LLC Northeast Natural Energy LLC	DEED		ECEIVED

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WV-061-003750-017	CLOSSER,III, ER	Northeast Natural Energy LLC	0.125 or Greater	1559	+
WV-061-003750-018	HENDERSON, DAVI	Northeast Natural Energy LLC	0.125 or Greater	1557	
WV-061-003750-019	STRGANAC, SALLY	Northeast Natural Energy LLc	0.125 or Greater	1557	
WV-061-003750-020	RICKARD, IVAN D	Northeast Natural Energy LLC	0.125 or Greater	1557	
WV-061-003750-021	HENDERSON, JOHN	Northeast Natural Energy LLC	0.125 or Greater	1557	+
WV-061-003750-022	STATLER, PATRIC	Northeast Natural Energy LLC	0.125 or Greater	1557	
WV-061-003750-023	TAYLOR, MARY EL	Northeast Natural Energy LLC	0.125 or Greater	1557	
WV-061-003750-024	HARTZELL, MARY	Northeast Natural Energy LLc	0.125 or Greater	1557	
WV-061-003750-025	HARRIS, KATHLEE	Northeast Natural Energy LLC	0.125 or Greater	1554	478
WV-061-003750-026	FULLER, EVELYN	Northeast Natural Energy LLC	0.125 or Greater	1559	470
WV-061-003750-027	HENDRIX, CARRIE	Northeast Natural Energy LLC	DEED	1563	659
WV-061-003750-028	VARNER, THOMAS	Northeast Natural Energy LLC	DEED	1561	372
WV-061-003750-029	TEAGARDEN, KATH	Northeast Natural Energy LLC	0.125 or Greater	1564	667
WV-061-003750-030	KACZMARCZYK, ED	Northeast Natural Energy LLC	DEED	1561	362
WV-061-003750-031	KACZMARCZYK, ER	Northeast Natural Energy LLC	DEED	1561	182
WV-061-003750-032	DORSEY, SHARA L	Northeast Natural Energy LLC	DEED	1561	179
WV-061-003750-033	VARNER, MARY P.	Northeast Natural Energy LLC	DEED	1563	209
WV-061-003750-034	ROHR, REBECCA S	Northeast Natural Energy LLC	DEED	1563	245
WV-061-003750-035	RICKARD, LAUREN	Northeast Natural Energy LLC	0.125 or Greater	1568	148
WV-061-003750-036	BREWER, JANE ST	Northeast Natural Energy LLC	0.125 or Greater	1568	275
WV-061-003750-037	WELSH, EARLE AG	Northeast Natural Energy LLC	0.125 or Greater	1568	269
WV-061-003750-038	THARP, JERRY L.	Northeast Natural Energy LLC	DEED	1563	239
WV-061-003750-039	THARP, MARTIN B	Northeast Natural Energy LLC	DEED	1563	242
WV-061-003750-040	CHANEY, ROY P.	Northeast Natural Energy LLc	0.125 or Greater	1559	468
WV-061-003750-041	MONTGOMERY, DEN	Northeast Natural Energy LLC	0.125 or Greater	1568	_
WV-061-003750-042	CHANEY, JR, GEOR	Northeast Natural Energy LLC	0.125 or Greater	1568	
WV-061-003750-043	TABARINI, CAROL	Northeast Natural Energy LLC	0.125 or Greater	1568	
WV-061-003750-044	CLOSSER, JAY E	Northeast Natural Energy LLC	0.125 or Greater	1573	458
WV-061-003750-045	KING, BRIAN J.	Northeast Natural Energy LLC	0.125 or Greater	1573	 -
WV-061-003750-046	KING, KARL P.	Northeast Natural Energy LLc	0.125 or Greater	1573	466
WV-061-003750-047	KING, STEPHAN A	Northeast Natural Energy LLC	0.125 or Greater	1573	468
WV-061-003750-048	PATTERSON, LOR	Northeast Natural Energy LLC	0.125 or Greater	1574	269
WV-061-003750-049	STEPHENSON, JAM	Northeast Natural Energy LLC	0.125 or Greater	1574	-
WV-061-003750-050	ROSE, DONNA ET	Northeast Natural Energy LLC	0.125 or Greater	1574	
WV-061-003750-051	ROHANNA, NICOLE	Northeast Natural Energy LLC	0.125 or Greater	1574	
WV-061-003750-052	STEPHENSON,PAU	Northeast Natural Energy LLC	0.125 or Greater	1574	
WV-061-003750-053	STEPHENSON, JAM	Northeast Natural Energy LLC	0.125 or Greater	1574	+
WV-061-003750-054	STEPHENSON, SCO	Northeast Natural Energy LLC	0.125 or Greater	1574	
WV-061-003750-055	STEPHENSON, JAM	Northeast Natural Energy LLC	0.125 or Greater	1574	
WV-061-003750-056	STEPHENSON, ROB	Northeast Natural Energy LLC	0.125 or Greater	1574	
WV-061-003750-057	MAXWELL, SARAH	Northeast Natural Energy LLC	0.125 or Greater	1575	
WV-061-003750-058	BIRD, CONSTANCE	Northeast Natural Energy LLC	0.125 or Greater	1575	
WV-061-003750-059	ROHRER, LEE ANN	Northeast Natural Energy LLC	0.125 or Greater	1575	
WV-061-003750-060	GUMP, JOHN E	Northeast Natural Energy LLC	0.125 or Greater	1575	
WV-061-003750-061	PALMA, DONNA RA	Northeast Natural Energy LLC	0.125 or Greater	1575	
WV-061-003750-062	HEADLEE, MELANI	Northeast Natural Energy LLC	0.125 or Greater	1575	
WV-061-003750-063	TRAVAGLINI, LET	Northeast Natural Energy LLC	0.125 or Greater	1577	· -
WV-061-003750-064	HUTTER, TIFFANY	Northeast Natural Energy LLC	0.125 or Greater	1577	16
WV-061-003750-065	TRAVAGLINI, WHI	Northeast Natural Energy LLC	0.125 or Greater	1577	_
WV-061-003750-066	EISIMINGER, CHR	Northeast Natural Energy LLC	0.125 or Greater	1577	20
WV-061-003750-067	EISIMINGER, KIM	Northeast Natural Energy LLC	0.125 or Greater	1577	22
WV-061-003750-068	YOUNG, BRIAN	Northeast Natural Energy LLC	0.125 or Greater	1578	\vdash
WV-061-003750-069	NEILL, SHEENA	Northeast Natural Energy LLC	0.125 or Greater	1578	
WV-061-003750-070	STEPHENSON, VIC	Northeast Natural Energy LLC	0.125 or Greater		RECEIVET
WV-061-003750-071	STEPHENSON, COR	Northeast Natural Energy LLC	0.125 or Greater		e of Oi493
	12. 2	1.10. Great Hatalai Eliciby LLC	Total of Orcal of	1. 1.570	

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WV-061-003750-072	STEPHENSON, CAS	Northeast Natural Energy LLC	0.125 or Greater	1580	20
WV-061-003750-073	HUGHES, GLENDA	Northeast Natural Energy LLC	DEED	1582	48
WV-061-003750-074	CASTEEL, COLLEE	Northeast Natural Energy LLC	DEED	1582	55
WV-061-003750-075	LEMLEY, DONALD	Northeast Natural Energy LLC	DEED	1586	10
WV-061-003750-076	LEMLEY, RALPH L	Northeast Natural Energy LLC	DEED	1586	13
WV-061-003750-077	PLANK, STEPHEN	Northeast Natural Energy LLC	0.125 or Greater	1589	553
WV-061-003750-078	PALMA, DONNA R.	Northeast Natural Energy LLC	0.125 or Greater	1589	555
WV-061-003750-079	PLANK, STEPHEN	Northeast Natural Energy LLC	0.125 or Greater	1589	557
WV-061-003750-080	JOHNSTON, WENDY	Northeast Natural Energy LLC	0.125 or Greater	1589	559
WV-061-003750-081	DUSENBERRY, LIN	Northeast Natural Energy LLC	DEED	1591	223
WV-061-003750-083	LEMLEY, RICHARD	Northeast Natural Energy LLC	DEED	1594	594
WV-061-003750-084	ECHARD, CHRISTY	Northeast Natural Energy LLC	0.125 or Greater	1593	444
WV-061-003750-085	MCAUILIFFE, GAB	Northeast Natural Energy LLC	0.125 or Greater	1593	446
WV-061-003750-086	GATES, MELISSA	Northeast Natural Energy LLC	DEED	1595	804
WV-061-003750-087	VARNER, THOMAS	Northeast Natural Energy LLC	0.125 or Greater	1595	417
WV-061-003750-088	KOTERAS, SHELLY	Northeast Natural Energy LLC	0.125 or Greater	1596	490
WV-061-003750-089	BERNARDUCI, STA	Northeast Natural Energy LLC	0.125 or Greater	1596	494
WV-061-003750-090	BROWN, TAWNA L.	Northeast Natural Energy LLC	DEED	1600	152
WV-061-003750-091	ASEBROOK, CANDA	Northeast Natural Energy LLC	DEED	1600	155
WV-061-003750-092	BORDNER, LISA	Northeast Natural Energy, LLC	0.125 or Greater	1604	168
WV-061-003750-093	PATTERSON, BONI	Northeast Natural Energy LLC	0.125 or Greater	1604	170
WV-061-003750-094	HUGHES, JOHN H	Northeast Natural Energy LLC	0.125 or Greater	1604	100
WV-061-003750-095	PARDON & PARDON	Northeast Natural Energy, LLC	0.125 or Greater	1604	822
WV-061-003750-096	ADDLEMAN, BETTY	Northeast Natural Energy LLC	0.125 or Greater	1605	473
WV-061-003750-098	STEPHENSON, KEL	Northeast Natural Energy LLC	0.125 or Greater	1605	485
WV-061-003750-099	VARNER, W. TERR	Northeast Natural Energy LLC	DEED	1612	666
WV-061-003750-100	CLOSSER, DOUGLA	Northeast Natural Energy LLC	0.125 or Greater	1625	814
WV-061-003750-101	CLOSSER, ARLEIG	Northeast Natural Energy LLC	0.125 or Greater	1625	816
WV-061-003750-102	VARNER, ROBERT	Northeast Natural Energy LLC	0.125 or Greater	1612	811
WV-061-003750-103	BARNES, BILLIE	Northeast Natural Energy LLC	DEED	1616	359
WV-061-003750-104	HARKINS, RAMONA	Northeast Natural Energy LLC	0.125 or Greater	1613	779
WV-061-003750-106	VARNER, DONALD	Northeast Natural Energy LLC	0.125 or Greater	1633	348
WV-061-003750-107	VARNER, ALLAN S	Northeast Natural Energy LLC	0.125 or Greater	1633	350
WV-061-003750-108	TOOTHMAN, M DIA	Northeast Natural Energy LLC	0.125 or Greater	1633	352
WV-061-003750-109	LOWRY, RITA	Northeast Natural Energy LLC	DEED	1646	41
WV-061-003750-082	PENNSYLVANIA DU	Northeast Natural Energy LLC	0.125 or Greater	1591	171
WV-061-003750-097	VARNER, DONNA H	Northeast Natural Energy LLC	0.125 or Greater	1605	483
WV-061-003750-057	TAYLOR, FRED	Northeast Natural Energy LLC	0.125 or Greater	1615	761
WV-061-003730-103	REED ENERGY SER	Northeast Natural Energy LLC	DEED DEED	1586	470
WV-061-004447-001	MINOR, JUNE LEM	Northeast Natural Energy LLC	0.125 or Greater	1647	425
WV-061-004447-002	LEMLEY, LAURA E	Northeast Natural Energy LLC	0.125 or Greater	1576	484
WV-061-004717-001	FRAZIER, SHERRY	Northeast Natural Energy LLC	0.125 or Greater	16124	60
WV-061-004717-001 WV-061-004717-002	MOORE, JEFFREY	Northeast Natural Energy LLC	0.125 or Greater	1612	462
WV-061-003541-001	LORING, GARY G.	Northeast Natural Energy LLC	DEED DEED	1548	750
WV-061-005276-001	GAINER, NICHOLA	Northeast Natural Energy LLC	0.125 or Greater	1630	730
WV-061-003834-001	DWG OIL & GAS	Northeast Natural Energy LLC	DEED DEED	1559	394
NV-061-003834-002	BAPTIST INTERNA	Northeast Natural Energy, LLC	0.125 or Greater	1604	172
VV-061-003834-003	MCDANIELS, DEBR	Northeast Natural Energy, LLC	DEED DEED	1613	475
VV-061-003834-004	BUCK, MARY R	Northeast Natural Energy LLC	DEED	1610	257
VV-061-003834-006	BERDINE, JESSE	Northeast Natural Energy LLC	DEED	1613	481
WV-061-003834-007	BERDINE, MARGAR	Northeast Natural Energy LLC	DEED	1634	432
VV-061-003975-001	EFAW, RUTH ANN	Northeast Natural Energy LLC	0.125 or Greater	1564	579
VV-061-004168-001	DWG OIL & GAS	Northeast Natural Energy LLC	DEED DEED	1561	600
VV-061-004169-001	DWG OIL & GAS	Northeast Natural Energy LLC	DEED	1570	133
VV-061-004311-001	GOLD, ARTHUR	Northeast Natural Energy LLC	DEED	1579 REC	

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WV-061-004311-002	GOFF, NELSON	Northeast Natural Energy LLc	DEED	1582	283
WV-061-004311-003	LAMBERT, HELEN	Northeast Natural Energy LLC	DEED	1582	303
WV-061-004311-004	JOHNSON, EVA	Norhteast Natural Energy LLC	DEED	1582	327
WV-061-004311-005	TANNER, JOE	Northeast Natural Energy LLC	DEED	1586	60
WV-061-004311-006	HABERLE, BRENDA	Northeast Natural Energy LLc	DEED	1586	63
WV-061-004311-007	HERRINGTON, DAV	Northeast Natural Energy LLC	DEED	1588	709
WV-061-004311-008	HIBBARD, BONITA	Northeast Natural Energy LLC	DEED	1588	694
WV-061-004311-009	SNODGRASS, RICK	Northeast Natural Energy LLC	0.125 or Greater	1605	487
WV-061-004311-010	PATCH, SHARON	Northeast Natural Energy LLC	0.125 or Greater	1607	70
WV-061-004311-011	HOOVER, JEROME	Northeast Natural Energy, LLC	0.125 or Greater	1607	72
WV-061-004311-012	SNODGRESS, BRYA	Northeast Natural Energy LLC	0.125 or Greater	1607	584
WV-061-004311-013	SNODGRASS, RICH	Northeast Natural Energy, LLC	0.125 or Greater	1607	756
WV-061-004311-014	GATZKE, LORI	Northeast Natural Energy LLC	0.125 or Greater	1607	842
WV-061-004311-015	GOFF, MARY E.	Northeast Natural Energy LLC	DEED	1612	675
WV-061-004311-016	GOFF, FOREST H.	Northeast Natural Energy, LLC	0.125 or Greater	1610	358
WV-061-004311-017	GIBSON, CARLOTT	Northeast Natural Energy, LLC	0.125 or Greater	1612	29
WV-061-004311-018	SNODGRASS, JAME	Northeast Natural Energy LLC	0.125 or Greater	1612	31
WV-061-004311-019	COOK, TIMOTHY M	Northeast Natural Energy LLC	0.125 or Greater	1611	19
WV-061-004311-020	SNODGRASS, MICH	Northeast Natural Energy LLC	0.125 or Greater	1611	21
WV-061-004311-021	MASHBURN, LINDA	Northeast Natural Energy LLC	DEED	1612	678
WV-061-004311-022	FRIDLEY, SANDRA	Northeast Natural Energy LLC	0.125 or Greater	1611	23
WV-061-004311-023	WILSON, EDGAR J	Northeast Natural Energy LLC	DEED	1612	681
WV-061-004311-024	BERDINE, RAY P	Northeast Natural Energy LLC	0.125 or Greater	1612	268
WV-061-004311-025	MORRISON ESTATE	Northeast Natural Energy LLC	0.125 or Greater	1612	847
WV-061-004311-026	BERDINE, BARBAR	Northeast Natural Energy LLC	0.125 or Greater	1612	849
WV-061-004311-027	REED, BRYAN D.	Northeast Natural Energy, LLC	0.125 or Greater	1613	783
WV-061-004311-028	REED, LARRY D.	Northeast Natural Energy LLC	0.125 or Greater	1613	785
WV-061-004311-029	HOOVER, MARK	Northeast Natural Energy LLC	0.125 or Greater	1619	810
WV-061-004313-001	PATTERSON, TERR	Northeast Natural Energy LLC	DEED	1579	847
WV-061-004313-002	DURNELL, GERA	Northeast Natural Energy LLC	DEED	1576	341
WV-061-004313-003	COFFMAN, MICHAE	Northeast Natural Energy LLC	0.125 or Greater	1575	722
WV-061-004313-004	MORRIS, DAVID O	Northeast Natural Energy LLC	0.125 or Greater	1580	88
WV-061-004313-005	MORROW, JEFFREY	Northeast Natural Energy LLc	0.125 or Greater	1580	92
WV-061-004313-006	SMITH, PAMELA	Northeast Natural Energy LLC	0.125 or Greater	1580	584
WV-061-004313-007	MORROW, KENT R.	Northeast Natural Energy LLC	0.125 or Greater	1581	329
WV-061-004313-008	MORROW, DOUGLAS	Northeast Natural Energy LLC	0.125 or Greater	1581	331
WV-061-004313-009	GASKINS, SHIRLE	Northeast Natural Energy LLC	0.125 or Greater	1581	333
WV-061-004313-010	EATON, LINDA	Northeast Natural Energy LLC	0.125 or Greater	1586	546
WV-061-004313-011	HOOVER, CAROLYN	Northeast Natural Energy LLC	0.125 or Greater	1586	548
WV-061-004313-012	MOYERS, ELLIS E	Northeast Natural Energy LLC	0.125 or Greater	1586	496
WV-061-004313-013	HOOVER, GAYFORD	Northeast Natural Energy LLc	0.125 or Greater	1587	253
WV-061-004313-014	DAVIS, PAULETTA	Northeast Natural Energy LLC	0.125 or Greater	1589	239
WV-061-004313-015	ULDERICH, DOYLE	Northeast Natural Energy LLC	0.125 or Greater	1590	335
WV-061-004313-016	SWEET, BRENDA S	Northeast Natural Energy LLC	0.125 or Greater	1590	339
WV-061-004313-017	SNODGRESS, LOIS	Northeast Natural Energy LLC	0.125 or Greater	1591	163
WV-061-004313-018	MORRIS, DAVID O	Northeast Natural Energy LLC	DEED	1613	496
WV-061-005127-001	KILLIMAYER, JOS	Northeast Natural Energy LLC	DEED	1629	788
WV-061-004303-001	TENNANT, DAVID	Northeast Natural Energy LLC	0.125 or Greater	1572	784
WV-061-004311-030	WILSON, LEWIS	Northeast Natural Energy LLC	0.125 or Greater	1643	94
WV-061-004311-031	GOFF, KEVIN ETU	Northeast Natural Energy LLC	0.125 or Greater	1643	96
WV-061-003541-001	LORING, GARY G.	Northeast Natural Energy LLC	DEED	1548	750
WV-061-003852-001	POLING, JAMES	Northeast Natural Energy LLC	0.125 or Greater	1562	213
WV-061-003531-001	BOWSER, WADE D	Northeast Natural Energy LLC	DEED	1529	709
WV-061-003531-002	BOWSER, ANNABEL	Northeast Natural Energy LLC	DEED	1530	75
WV-061-003531-003	MORRIS, DEBORAH	Northeast Natural Energy LLC	DEED	1534RE	CEIVE45

WV-061-003531-004	MATHENY, MELISS	Northeast Natural Energy LLC	DEED	1533	689
WV-061-003531-005	MATHENY, LACEN	Northeast Natural Energy LLC	DEED	1536	255
WV-061-003531-006	WRIGHT, PAULINE	Northeast Natural Energy LLC	DEED	1534	675
WV-061-003531-007	MATHENY, BRANSO	Northeast Natural Energy LLC	DEED	1534	649
WV-061-003531-008	MATHENY, MIKAYL	Northeast Natural Energy LLC	DEED	1533	697
WV-061-003531-009	STEWART, BETH E	Northeast Natural Energy LLC	DEED	1534	142
WV-061-003531-010	EDDY, MERLE EST	Northeast Natural Energy LLC	DEED	1533	822
WV-061-003531-011	EDDY, SARA E.	Northeast Natural Energy LLC	DEED	1535	54
WV-061-003531-012	EDDY, NORMA LOU	Northeast Natural Energy LLC	DEED	1558	646
WV-061-003531-013	SCHATTNER, EILE	Northeast Natural Energy LLC	DEED	1559	686
WV-061-003531-014	SPICER, LOIS JE	Northeast Natural Energy LLC	DEED	1537	281
WV-061-003531-015	CUMMINS, JAMES	Northeast Natural Energy LLc	DEED	1537	285
WV-061-003531-016	EDDY, ALBERT K.	Northeast Natural Energy LLC	DEED	1541	457
WV-061-003531-017	EDDY CHAPEL CEM	Northeast Natural Energy LLc	DEED	1558	546
WV-061-003531-018	PARKER, CAROL R	Northeast Natural Energy LLc	DEED	1548	246
WV-061-003531-019	EDDY, MARY J	Northeast Natural Energy LLc	DEED	1558	551
WV-061-003531-021	BRANTLEY, SYLVI	Northeast Natural Energy LLC	DEED	1569	390
WV-061-003531-022	POWELL, RONALD	Northeast Natural Energy LLC	DEED	1569	93
WV-061-004000-001	MONTLLOR, RUTH	Northeast Natural Energy LLC	DEED	1597	256
WV-061-004000-002	EDDY, ROY ET	Northeast Natural Energy LLC	DEED	1610	277
WV-061-004020-000	EDDY, MARK & B	Northeast Natural Energy LLC	DEED	1505	572
WV-061-004000-000	EDDY, D.J.	DEWITT, IRA	0.125 or Greater	123	363
WV-061-003648-001	MADISON INVESTM	Northeast Natural Energy LLC	DEED	1541	448
WV-061-003648-002	PING, RHODA, S.	Northeast Natural Energy LLC	DEED	1540	628
WV-061-003648-003	MADISON INVESTM	Northeast Natural Energy LLC	DEED	1569	55
WV-061-004012-000	EDDY, E.W.	Dewitt, Ira	0.125 or Greater	123	363

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D.J. Eddy & Elizabeth Eddy, h/w
                    Lease
                 DB 26/328
                  Ira DeWitt
Ira DeWitt & Lucy DeWitt, h/w, and William S.
                 Stevenson
Deed for Oil Interests Assignment of Oil and Gas
                   Leases
                 DB 27/485
    Thomas M. Jackson and Israel C. White
                 Ira DeWitt
                 Assignment
                 DB 28/522
            William S. Stevenson
                 Ira DeWitt
                 Assignment
                  DB 29/53
          South Penn Oil Company
   Israel C. White and Thomas M. Jackson
                 Assignment
                  DB 31/79
          South Penn Oil Company
```

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MAR 1 9 2019

Northern Central Trust Company and Grace Alice DeWitt, Executors of the Last Will and Testament of Lucy Smith DeWitt

Assignment DB 162/192

Frances DeWitt Marshall, Elsie DeWitt Johns, and Grace Alice DeWitt

Elsie DeWitt Johns & George H. Johns, wife and husband, Grace Alice DeWitt, single, Frances DeWitt Marshall & James F. Marshall, wife and husband

Assignment
DB 265/145
South Penn Oil Company

South Penn Oil Company
Assignment
DB 304/457

South Penn Natural Gas Company

South Penn Natural Gas Company
Assignment
DB 580/311
South Penn Oil Company

Pennzoil Company and United Gas Corporation(South Penn Oil Company changed it's name to Pennzoil Company effective 7/31/1963 per WV Sec. of State) Assignment DB 672/665 RECEIVED Office of Oil and Gas

MAR 19 2019

Pennzoil United, Inc. **Pennzoil Company Pennzoil Company** Deed, Assignment, and Conveyance AB 23/280 Pennzoil Products Company Pennzoil Products Company Bill of Sale AB 25/41 **Consolidation Coal Company Consolidation Coal Company** Pennzoil Products Company Assignment and Bill of Sale AB 34/563 **Eddy Brothers**

Deborah L. Morris, Beth Ellen Stewart, and Melissa
Kay Matheny, heirs of Harry Eddy
Memorandum of Buy-Out and Assignment of Interest
AB 123/356
Mark V. Eddy

Mark V. Eddy & Betty Eddy, h/w and Eddy Brothers
Assignment and Bill of Sale
AB 123/363

Northeast Natural Energy, LLC and Pachira Energy, LLC

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Office of Oil and Gas

MAR 1 9 2019



November 12, 2018

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

Re: Cummins 2H and 4H

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 Statler Run Rd (State Route 27) and Jakes Run Rd (State Route 29) on the enclosed survey plats.

Sincerely,

Christa A. Dotson

Manager – Land Operations Development

Office of Oil and Gas

MAR 19 2019

WV Department of Environmental Protection

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

			API No. 4		
				s Well No. 4H	
			Well Pad	Name: Cummin	S
Notice has l	been given:				Alexandra de la compansa de la comp
	ne provisions in West Virginia Code	§ 22-6A, the Operator has	s provided the re	quired parties w	ith the Notice Forms liste
	tract of land as follows:			Contrade No.	
State;	West Virginia	UTM NAD	83 Easting:	570262.9	
County:	Monongalia		Northing:	4390556.8	
District:	Clay	Public Road		CR 25/3 (Yank H	ollow Road)
Quadrangle:	Blacksville, WV	Generally u	sed farm name:	Cummins	
Watershed:	Dunkard Creek				
t has providenformation roof giving the requirements Virginia Code	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 as \$22-6A-11(b), the applicant shall have been completed by the applications.	ibed in subdivisions (1), section sixteen of this artic urvey pursuant to subsect of this article were waive tender proof of and certify	(2) and (4), sub ele; (ii) that the re- tion (a), section ed in writing by	section (b), sec equirement was ten of this arti- the surface ow	tion ten of this article, I deemed satisfied as a resible six-a; or (iii) the notioner; and Pursuant to Wi
D. marine at the	West Virginia Code § 22-6A, the C	wantau hay attacked was a	Canadala Matica Z	Soutification	
	rator has properly served the requir			ernification	
mar the ope	rator has property served me requir	ed parties with the followi	uig.		The state of the s
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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 Gas the return receipt card or other postal receipt for certified mailing.

MAR 1 9 2019

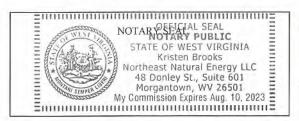
Certification of Notice is hereby given:

 Well Operator:
 Northeast Natural Energy LLC
 Address:
 707 Virginia St. E., Suite 1200

 By:
 Hollie Medley
 Charleston, WV 25301

 Its:
 Regulatory Manager
 Facsimile:
 304-241-5972

 Telephone:
 304-212-0422
 Email:
 hmedley@nne-llc.com



Subscribed and sworn before me this 18th day of March 2019

Knatur Brooks

Notary Public

My Commission Expires Aug 10, 2023

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 deprivacyofficer@wv.gov.

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MAR 1 9 2019

WW-6A (9-13) 47 06 018 36
API NO. 47- - 05/17/2019
OPERATOR WELL NO. 4H
Well Pad Name: Cummins

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

Noti	ce Time Requirem	ent: notice shall be prov	ided no later tha	in the filing date of permit application.	
	e of Notice: 3/1/2019 ce of:	_ Date Permit Applica	ation Filed: 3/15	/2019	
$ \sqrt{} $	PERMIT FOR AN	Y CERTIF	ICATE OF APF	PROVAL FOR THE	
_	WELL WORK	· · · · · · · · · · · · · · · · · · ·		AN IMPOUNDMENT OR PIT	
Deli	very method pursu	ant to West Virginia C	ode § 22-6A-10	(b)	
П	PERSONAL	✓ REGISTERED	□ метн	OD OF DELIVERY THAT REQUIRES A	
_	SERVICE	MAIL		PT OR SIGNATURE CONFIRMATION	
sedin the soil and description oper more well important have proven substruction of the control	ment control plan requirace of the tract on and gas leasehold being ribed in the erosion at ator or lessee, in the erosion at a coal seams; (4) The work, if the surface to undment or pit as detained as a water well, spring ide water for consum osed well work active ection (b) of this sector of the sheriff requision of this article to the R. § 35-8-5.7. a required.	uired by section seven of which the well is or is proged developed by the proposed sediment control planewent the tract of land on womers of record of the stract is to be used for the proposed in section nine of or water supply source longition by humans or dome ity is to take place. (c)(1) ion hold interests in the laired to be maintained pure the contrary, notice to a luires, in part, that the ope	this article, and toposed to be locally sed well work, it submitted pursual which the well proposed to the polacement, constraints article; (5) A cated within one estic animals; and If more than threands, the applicant suant to section of lien holder is not rator shall also p	or signature confirmation, copies of the application, the well plat to each of the following persons: (1) The ated; (2) The owners of record of the surface tract or if the surface tract is to be used for roads or other land ant to subsection (c), section seven of this article; (3) roposed to be drilled is located [sic] is known to be used overlying the oil and gas leasehold being development, enlargement, alteration, repair, removal or about any surface owner or water purveyor who is known to thousand five hundred feet of the center of the well plate. (6) The operator of any natural gas storage field with the tenants in common or other co-owners of interests are may serve the documents required upon the persone eight, article one, chapter eleven-a of this code. (2) Notice to a landowner, unless the lien holder is the large to the Well Site Safety Plan ("WSSP") to the surface of this rule.	e owners of record of tracts overlying the disturbance as The coal owner, underlain by one or bed by the proposed bandonment of any to the applicant to be
☑ A	pplication Notice	☑ WSSP Notice ☑ E&	&S Plan Notice	☑ Well Plat Notice is hereby provided to:	
☑ SU	JRFACE OWNER(s)		☑ COAL OWNER OR LESSEE	
	e:Jerry L Yost et al		_	Name: see attached	_
Add	ress: 74 Statler Run Roa		<u>.</u>	Address:	_
	Fairview, WV 2657	0	_		_
Nam			_	☐ COAL OPERATOR	
Add	ress:		_	Name: see attached	
	DE CE OUD ED	\ \(\text{D} \)	_ ,	Address:	_
		s) (Road and/or Other Di	•	TOURS OF OUR ED OF WATER WELL	_
	e: see attached	·	_	SURFACE OWNER OF WATER WELL	
Add	ress:		_	AND/OR WATER PURVEYOR(s)	
				Name: see attached	_
Nam	ie:		_	Address:	_
Add	ress:			OPERATOR OF ANY NATURAL GAS STO	 BAGE EIEI D
T CT	IREACE OWNIER	s) (Impoundments or Pits	<u>.,</u>		
		(Impoundments of Pits		Name:Address:	- RECEIVED
Add	ress:		_		Office of Oil and Gas
				*Please attach additional forms if necessary	MAR 19 2019

Cummins 4H

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

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

MAR 1 9 2019

WW-6A	
(8-13)	

API NO. 47-OPERATOR WELL NO. 4H Well Pad Name: Cummins

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.

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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil**/www.de

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from afficiently 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

API NO. 47-OPERATOR WELL NO. 4H

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 wowen RECEIVED

The leasting or construction of the applicant's proposed well work within thirty days after the comments with the secretary as to the location or construction or the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments application is filed with the secretary at: WV Department of Environmental Protection

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

test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to

WW-6A (8-13) API NO. 47-___

OPERATOR WELL NO. 4H

Well Pad Name: Cummins

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 seam 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 http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx 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.



WW-6A (8-13)

Notice is hereby given by:
Well Operator: Northeast Natural Energy LLC

Telephone: 304-212-0422
Email: hmedley@nne-llc.com

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.

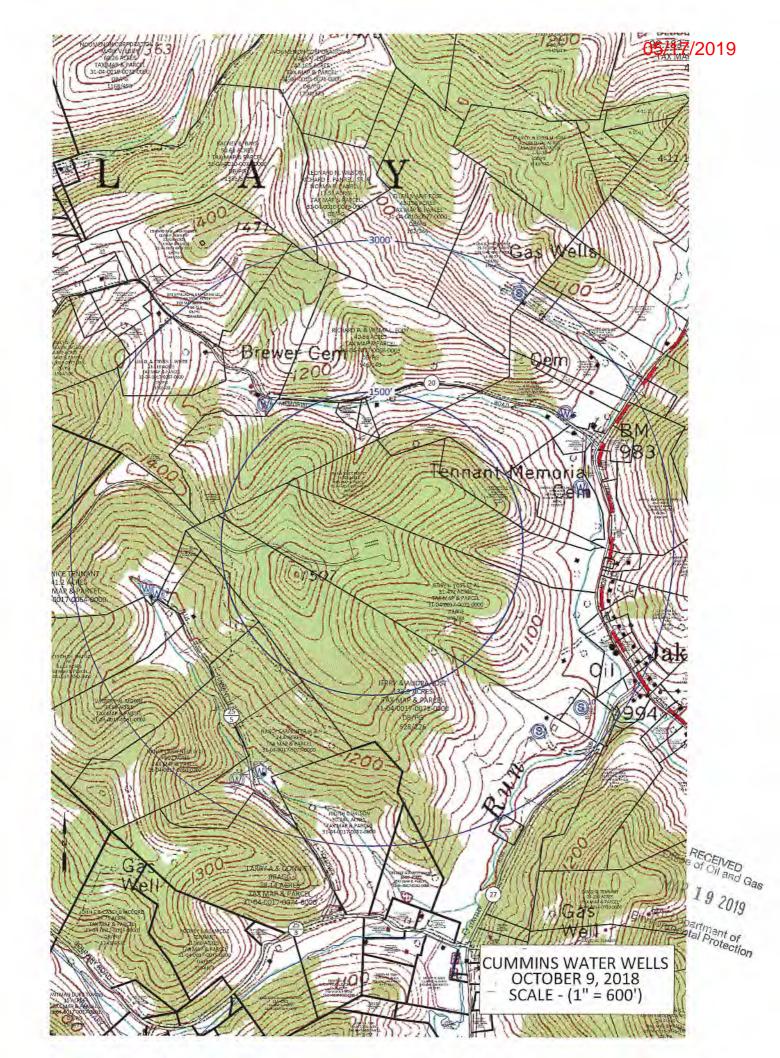
OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Kristen Brooks
Northeast Natural Energy LLC
48 Donley St., Suite 601
Morgantown, WV 26501
My Commission Expires Aug. 10. 2023

Subscribed and sworn before me this 12th day of March, 2019.

Husten Brodes

My Commission Expires Aug. 10, 2023

Office of Oil and Gas
MAR I 9 2019
Environmental Protection



Operator Well No. Cummins Pad

WW-6A3 (1/12)

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

	ie Requirement:	Tibilet bilan es Prei	ided at least SEVER (1) da	lys but no more tha	in FORTY-FIVE (45) days prior to
entry Date of No	tice: 10/25/2017	Date of Plan	ned Entry: 11/1/2017		
Delivery m	ethod pursuant	to West Virginia Co	de § 22-6A-10a		
☐ PERS	ONAL	REGISTERED	■ METHOD OF DEI	LIVERY THAT RI	EQUIRES A
SERV		MAIL	RECEIPT OR SIGN		
on to the su but no more beneath suc owner of m and Sedime Secretary, v enable the s	rface tract to conce than forty-five decident that has fill inerals underlying ant Control Manua which statement starface owner to confide the confideration of the confideration	duct any plat surveys lays prior to such entraled a declaration purse g such tract in the could and the statutes and hall include contact in obtain copies from the	required pursuant to this a ry to: (1) The surface owne suant to section thirty-six, a unty tax records. The notic d rules related to oil and ga nformation, including the a	rticle. Such notice or of such tract; (2) orticle six, chapter to se shall include a st s exploration and p	r shall provide notice of planned entry shall be provided at least seven days to any owner or lessee of coal seams wenty-two of this code; and (3) any atement that copies of the state Erosion production may be obtained from the tage on the Secretary's web site, to
	ereby provided to	D:			1148
	ACE OWNER(s)			L OWNER OR LE	
1 tuille.	ernice Tennant			CONSOL Mining Company	
	99 Ellis Tennant Hollow	1	Address: \	1000 Consol Energy Drive	
	airview, WV 26570	1		Canonsburg, PA 15317	
	rry L. & Audra Errol Yost			to the think states	
THE RESERVE OF THE PARTY OF THE	Statler Run Road		■ MINI	ERAL OWNER(s)	
	drview, WV 26570		Name: see	attached	
T. Itelanton	ecision Oil & Gas, Inc.		Address:		
Address: P.					
Bri	idgeport, WV 26330		*please attac	h additional forms if ne	cessary
Notice is 1	anales advenus				
Pursuant to a plat survey State: County:	y on the tract of la West Virginia Monongalia		Approx. Latit	ude & Longitude:	570274.51,4390561.22 CR 25/3 (Yank Hollow Road) Dunkard Creek
Pursuant to	West Virginia Co y on the tract of la West Virginia Monongalia Clay		Approx. Latit Public Road A Watershed:	ude & Longitude: Access:	570274.51,4390561.22
Pursuant to a plat surve; State: County: District: Quadrangle Copies of th may be obta Charleston,	West Virginia Coy on the tract of la West Virginia Monongalia Clay Blacksville Be state Erosion around from the Sec WV 25304 (304-	and as follows: and Sediment Control cretary, at the WV Do	Approx. Latit Public Road A Watershed: Generally use Manual and the statutes an epartment of Environmenta	ude & Longitude: Access: d farm name: d rules related to of l Protection headquional information r	570274.51,4390561.22 CR 25/3 (Yank Hollow Road) Dunkard Creek
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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.

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

Office of Oil and Gas

MAR 19 2019

Environmental Protection

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.

ate of Noti	ce: 03/01/2019	Date I			
elivery me	thod pursuant	to West Virginia Code	§ 22-6A-16(b)		
] HAND		CERTIFIED MAIL			
DELIVI		RETURN RECEIPT R	EQUESTED		
ceipt reque- filling a hor this subsection m	sted or hand de izontal well: F ction as of the d ay be waived in	livery, give the surface of Provided, That notice give late the notice was providure writing by the surface of	days prior to filing a permit application owner notice of its intent to enter upon the pursuant to subsection (a), section to ded to the surface owner: <i>Provided</i> , however. The notice, if required, shall incolorable address of the operator and the operator	he surface owner's land for en of this article satisfies wever, That the notice required lude the name, address, te	or the purpose of the requirements uirements of this elephone number,
		ed to the SURFACE C			
ame: Jerry		_	Name:		-0
ddress: 74 S	tatler Run Road iew, WV 26570		Address:		
otice is he ursuant to V e surface ov ate:	reby given: Vest Virginia C		ce is hereby given that the undersigned horizontal well on the tract of land as formula and the state of land as formula well on the tract of land as formula well and the state of land as formula well as fo		ent to enter upon
Totice is he ursuant to Vote surface over tate: ounty: district: uadrangle:	reby given: Vest Virginia C wner's land for West Virginia		horizontal well on the tract of land as for the LITM NAD 83 Easting:	ollows: 570262.9	ent to enter upon
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory ection 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.

WW-6A5 (1/12)

Operator Well No. 005/17/2019

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

Notice Time Date of Notic	Requirement: notice shall be: 03/01/2019 Da	be provided no la ate Permit Appl	nter than the filing lication Filed: 03/	date of permit	application.
Delivery met	hod pursuant to West Virg	ginia Code § 22-	6A-16(c)		
■ CERTI	FIED MAIL	Пн	AND		•
	RN RECEIPT REQUESTED		DELIVERY		
return receipt the planned of required to be drilling of a damages to th (d) The notice of notice.	requested or hand delivery, operation. The notice requi provided by subsection (b), norizontal well; and (3) A p he surface affected by oil and	give the surface ired by this subs , section ten of the proposed surface I gas operations to hall be given to the	owner whose land section shall inclusing article to a surface and compens to the extent the dather than the surface owner are	d will be used for de: (1) A copy ace owner whose sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	s listed in the records of the				
	I Vest et al		Name:		
Name: Jerry	L Yost et al				
			Addres	s:	
Name: Jerry Address: 74 Si Fairv Notice is her	atler Run Road iew, WV 26570 eby given:	16(c), notice is h	Addres	-0.00	well operator has developed a planned
Name: Jerry Address: 74 Si Fairv Notice is her Pursuant to Woperation on State:	atler Run Road iew, WV 26570 eby given:		Addres dereby given that the	ne undersigned	well operator has developed a planned act of land as follows: 570262.9 4390556.8
Name: Jerry Address: 74 Si Fairv Notice is her Pursuant to Wooperation on	atler Run Road iew, WV 26570 eby given: Vest Virginia Code § 22-6A- the surface owner's land for West Virginia		Addres Hereby given that the distribution of	ne undersigned of well on the traces Easting: Northing:	act of land as follows: 570262.9
Name: Jerry Address: 74 St Fairv Notice is her Pursuant to Woperation on State: County: District: Quadrangle:	atler Run Road iew, WV 26570 eby given: Vest Virginia Code § 22-6A- the surface owner's land for West Virginia Monongalia		Addres dereby given that the dirilling a horizonta of the UTM NAD 8 Public Road	ne undersigned of well on the traces Easting: Northing:	570262.9 4390556.8
Name: Jerry Address: 74 St Fairv Notice is her Pursuant to W operation on State: County: District:	atler Run Road iew, WV 26570 eby given: Vest Virginia Code § 22-6A- the surface owner's land for West Virginia Monongalia Clay		Addres dereby given that the dirilling a horizonta of the UTM NAD 8 Public Road	the undersigned of the trace of	act of land as follows: 570262.9 4390556.8 County Route 25/3 (Yank Hollow Road)
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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 of the property of the property



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

November 13, 2018

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 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Cummins Pad, Monongalia County

Cummins 4H

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.

Dang K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Kristen Brooks

Northeast Natural Energy Corporation

CH, OM, D-4

File

Office of Oil and Gas

MAR 19 2019

Environmental Protection

Planned Additives to be used in Fracturing Stimulations

Water	Purpose	Ingredients	Cemical Abstract Service Numner (CAS#)
	Carrier	Water	7732-18-5
HCI, 10.1-15%	Acidizing	Hydrochloric Acid Water	7647-01-0 7732-18-5
		Alkyl Dimethyl Benzyl Ammonium Chloride (C12-16) Ethanol	68424-85-1 64-17-5
Alpha 1427	Biocide	Glutaraldehyde	111-30-8
٠		Quaternary Ammonium Chloride	7173-51-5
		Water	7732-18-5
Fravme G-NE	70,000	Hemicellulase Enzyme Concentrate	9025-56-3
		Water	7732-18-5
		Fatty Acids	NA
		Methanol	67-56-1
Cl-14	Corrosion Inhibitor	Olefin	. AN
		Polyozyalkylenes	NA
		Propargyl Alcohol	. 107-19-7
G/W-21 DE	+ most V # milloo	Guar Gum	9000-30-0
	July Again	Petroleum Distillate Blend	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 3/1 1/24/3019

PROJECT LOCATION

TUCKER GRAN

REVISIONS

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

HANCOCK

BROOKS.

MITCHIE

CARRIL

COOWELL

CAL GILMER

BRAXTON

SHEET INDEX 1. TITLE SHEET

2-3. EVACUATION ROUTE/PREVAILING WIND 4. E&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 L MATTEO (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 04-17-53): 0.04 AC. JERRY LAND AUBRA ERROL YOST [TAX MAP AND PARCEL 04-17-72]: 6.07 AC. JERRY L YOST ET AL (TAX MAP AND PARCEL 04-17-71): 12.22 AC.

PLANS PREPARED BY:

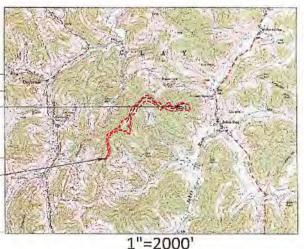
BOORD BENCHEK & ASSOCIATES, INC.

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



10-22-18

ANDREW BENCHEK



COORDINATES

CENTER OF WELLS 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"

IN ACCORDANCE WITH WV 35 CSR 8
THE FOLLOWING EROSION & 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

1 OF 42

SHEET

MERCER

