

## 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

Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Friday, August 25, 2017 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re:

Permit approval for COASTAL 4H

47-061-01782-00-00

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: COASTAL 4H

Farm Name: COASTAL FOREST RESOURCES COMPANY

U.S. WELL NUMBER: 47-061-01782-00-00

Horizontal 6A / New Drill

Date Issued: 8/25/2017

Promoting a healthy environment.

API Number:	

## 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.

API NO. 47 Pending
OPERATOR WELL NO. Coastal 4H
Well Pad Name: Coastal

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

1) Well Operato	r: Northeast	Natural Energy	LLC	494498281	Monongalia	Clay	Blacksville		
				Operator ID	County	District	Quadrangle		
2) Operator's W	2) Operator's Well Number: Coastal 4H Well Pad Name: Coastal								
3) Farm Name/S	Surface Own	er: Coastal Forest R	desources C	Public Roa	d Access: Stat	e Route 21	8 (Daybrook Road)		
4) Elevation, cu	rrent ground:	1,420'	Ele	evation, proposed	post-construction	on: <u>1,420'</u>			
	(a) Gas <u>x</u> Other		Oil	Und	erground Storag	ge			
	_	Shallow X		Deep					
	` '	— Horizontal <u>×</u>		<u> </u>					
6) Existing Pad:	Yes or No	Yes			_				
7) Proposed Tar Marcellus; 8,2	_		, Antici	pated Thickness a	and Expected Pr	essure(s):			
8) Proposed Tot	al Vertical D	epth: 8,204'							
9) Formation at	Total Vertica	al Depth: Ma	rcellus						
10) Proposed To	tal Measured	d Depth: 18,	031.85	j'					
11) Proposed Ho	orizontal Leg	Length: 9,4	25'	· · · · · · · · · · · · · · · · · · ·					
12) Approximat	e Fresh Wate	er Strata Depth	s:	300' ; 1,243'					
13) Method to D	etermine Fre	esh Water Dep	ths: C	riller's log from o	offset wells				
14) Approximat	e Saltwater D	Depths: 1,500	)' ; 2,51	0'					
15) Approximat	e Coal Seam	Depths: 600	; 900'	; 1,200'					
16) Approximat	e Depth to Po	ossible Void (d	oal mi	ne, karst, other):	NA				
17) Does Propos directly overlyin				ns Yes <u>X</u>	No				
(a) If Yes, prov	vide Mine In	fo: Name:	Adjac	ent Mine - Feder	al No. 2				
_		Depth:	900' -	1,200'					
		Seam:	Pittsb	urgh					
		Owner:	ERP	Federal Mining C	Complex, LLC				

WW-6B	
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API	NO. 47	Pending	
(	OPERATOR WELL	NO.	Coastal 4H
	Well Pad Name:	Coasta	al .

## 18)

## CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For	INTERVALS: Left in Well	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	24"	New	NA	52.78	40'	40'	GTS
Fresh Water	13 3/8"	New	J-55	54.5	1,370'	1,340'	CTS
Coal							
Intermediate	9 5/8"	New	J-55	40	2,790'	2,760'	CTS
Production	5 1/2"	New	P-110	20	18,031.85'	18,001.85'	4228
Tubing	2 3/8"	New	P-110	4.7	NA	8,300'	NA
Liners							

MgK 8/15/2017

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	24"	30"	.375"	415		4,500 psi Grout	NA
Fresh Water	13 3/8"	17 1/2"	.38"	2,760	2,000	Class A	1.23
Coal							
Intermediate	9 5/8"	12 1/4"	.395"	3,950	3,000	Class A	1.3
Production	5 1/2"	8 3/4"	.361"	12,530	9,700	50:50 Poz	1.21
Tubing	2 7/8"	NA	.217"	10,570	3,600	NA	NA
Liners							

## **PACKERS**

Office of Oil and

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(10/14)	

API NO. 47 Pending	
OPERATOR WELL NO. Coastal 4H	
Well Pad Name: Coastal	

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

Drilling and completion of a horizontal Marcellus well. The well will be drilled on air to an approximate depth of 5,506.96' TVD/MD. Well will be horizontally drilled on fluid from KOP to approximately 8,204' TVD / 18,031.85' MD along a combination of 143, 153 and 137 degree azimuths.

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. After fracture treatment,

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): N/A
- 22) Area to be disturbed for well pad only, less access road (acres): N/A
- 23) Describe centralizer placement for each casing string:

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

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

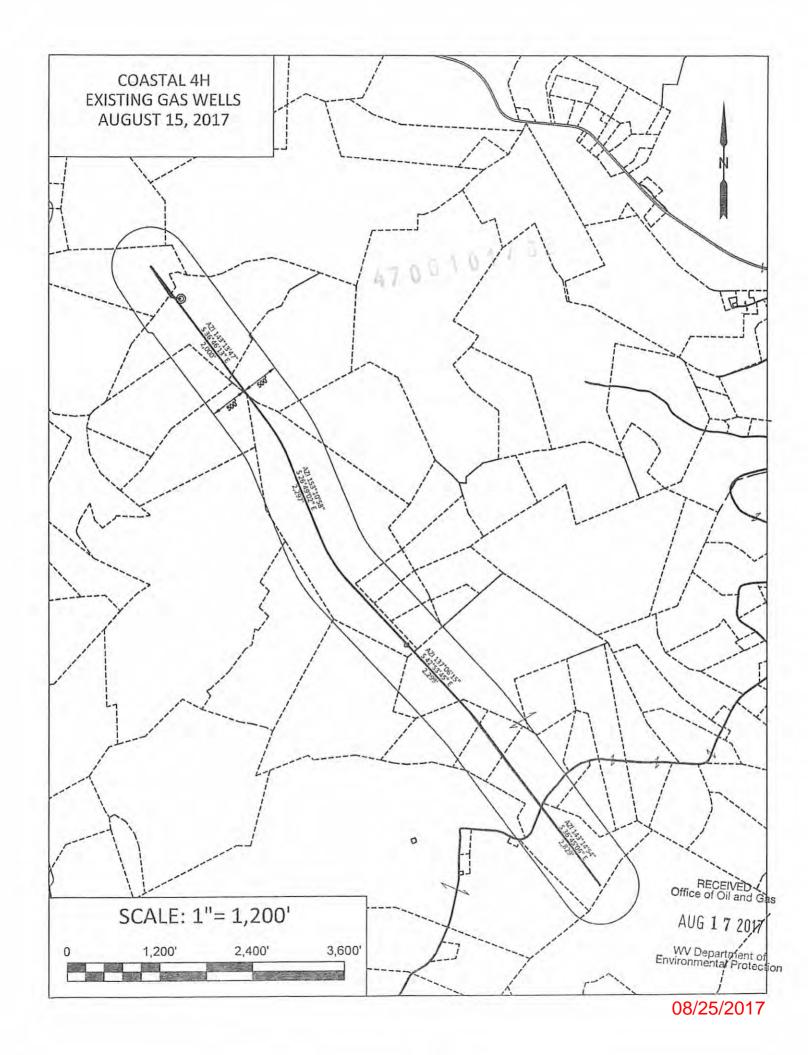
Surface string cement will be a Class A + 3% bwoc Calcium Chloride Fresh Water blend. Intermediate string cement will be a Class A Cement + 0.3% bwoc Calcium Chloride + Fresh Water. Production string cement will be (50:50) Poz (Fly Ash):Type I Cement with a gas migration additive.

25) Proposed borehole conditioning procedures:

Surface string will use a 35.0 bbls Gel Pill + LCM + 25 lbs Cello Flake + 20 lbs/bbl Bentonite + 80 lbs Fed Seal @ 8.4 ppg & 10 bbls fresh water spacer prior to cement. Intermediate string will use a 35.0 bbls Gel Pill + LCM + 25 lbs Cello Flake + 20 lbs/bbl Bentonite + 80 lbs Fed Seal @ 8.4 ppg & 10 bbls fresh water spacer prior to cement. Production string will use a 50.0 bbls SealBond 25 + 1 gal/bbl<sub>RECEIVED</sub> US-40 + 275 lbs/bbl Barite, Bulk + 1 gal/bbl SS-2 @ 13.5 ppg spacer prior to cement.

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\*Note: Attach additional sheets as needed.



## Coastal 4H Area of Review

API Number	Well Name	Well Number	Operator	Latitude (NAD 27)	Longitude (NAD 27)	TVD	Producing Formation
47-061-01688	Coastal	13H	Northeast Natural Energy LLC	39.70572	-80.204667	8201	MARCELLUS
47-061-01674	Coastal	1H	Northeast Natural Energy LLC	39.705431	-80.204689	8207	MARCELLUS
47-061-01684	Coastal	3H	Northeast Natural Energy LLC	39.705534	-80.20464	8203	MARCELLUS
47-061-01686	Coastal	5H	Northeast Natural Energy LLC	39.705637	-80.204591	8203	MARCELLUS
47-061-01675	Coastal	7H	Northeast Natural Energy LLC	39.70538	-80.204713	8217	MARCELLUS
47-061-01680	Coastal	8H	Northeast Natural Energy LLC	39.705408	-80.204813	8242	MARCELLUS
47-061-01676	Coastal	9Н	Northeast Natural Energy LLC	39.705741	-80.204542	8198	MARCELLUS

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W Depart

APIN	Number	47 -
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Operator's Well No. Coastal 4H

## 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 con Will a pit be used? Yes No V  If so, please describe anticipated pit waste: N/A	mplete the proposed well work? Yes V No No
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	DECEN/ED
Land Application Underground Injection (UIC Per	mit Number JUN 2 7 2017
Reuse (at API Number unknown at a Off Site Disposal (Supply form W Other (Explain	this time, TBD WV Department of
Will closed loop system be used? If so, describe: Yes, Pleas	se See Attachment "A"
Drilling medium anticipated for this well (vertical and horizon	ontal)? 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 Viscos	sifiers, Lime, Unsaturated Fatty Acids, CaCl, Barite, Emulsifiers, Mica LCM, Water Loss Agents
Drill cuttings disposal method? Leave in pit, landfill, remove	
-If left in pit and plan to solidify what medium will l	
-Landfill or offsite name/permit number? Please Sec	
	d Gas of any load of drill cuttings or associated waste rejected at any led 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 provisions of the permit are enforceable by law. Violations law or regulation can lead to enforcement action.  I certify under penalty of law that I have persona application form and all attachments thereto and that, bat	virginia Department of Environmental Protection. I understand that the sof any term or condition of the general permit and/or other applicable ally examined and am familiar with the information submitted on this used on my inquiry of those individuals immediately responsible for strue, accurate, and complete. I am aware that there are significant sibility of fine or imprisonment.
	# 2015   2150   1150
	Sune, 2017 20 OFFICIAL SEAL STATE OF WEST VIRGINI
Michael Eisenhauer (Mul hahm	Notary Public

Proposed Revegetation Treatment: Acres Disturbed 47			5	Prevegetati	on pH TBD	
Lime 2	Tons/acre or to	o correct	to pH 7			
Fertilizer type 19	9-19-19		_			
Fertilizer amount_	300		lbs/acre			
Mulch 2		ТТ	ons/acre			
			Seed Mixtures	4701	11017 11	
Т	Гетрогагу				ermanent	
Seed Type Orchard Grass	lbs/acre 46		Orchard	Seed Type Grass	lbs/acre 46	
Red Clover	8		Red Clo	ver	8	
Tetraploid Perennial Rye 16						
Tetraploid Perer	nnial Rye 16		Tetraplo	id Pereni	nial Rye 16	
Timothy 15  Attach: Maps(s) of road, location, provided). If water from the	Annual Rye  pit and proposed area e pit will be land appl		Timothy	15	Annual Rye 1	
Timothy 15  Attach: Maps(s) of road, location, provided). If water from the acreage, of the land applica	Annual Rye  pit and proposed area e pit will be land appl tion area.	for land a	Timothy	15	Annual Rye 1 including this info have to t, and dimensions (L x W	been V), and
Timothy 15  Attach: Maps(s) of road, location, provided). If water from the acreage, of the land applica	Annual Rye  pit and proposed area e pit will be land appl tion area.	for land a	Timothy	15	Annual Rye 1 including this info have to the total tot	been V), and Gas
Timothy 15  Attach: Maps(s) of road, location, provided). If water from the acreage, of the land application of involved section of involved by:	Annual Rye  pit and proposed area e pit will be land appl tion area.	for land a	Timothy	15	Annual Rye 1 including this info have to t, and dimensions (L x W	been V), and Gas
Timothy 15  Attach: Maps(s) of road, location, provided). If water from the acreage, of the land application of involved section of involved by:	Annual Rye  pit and proposed area e pit will be land appl tion area.	for land a	Timothy	15	Annual Rye 1 including this info have to the total tot	been V), and Gas
Timothy 15  Attach: Maps(s) of road, location, provided). If water from the acreage, of the land application of involved section of involved by:	Annual Rye  pit and proposed area e pit will be land appl tion area.	for land a	Timothy	15	Annual Rye 1 including this info have to the total tot	been V), and Gas
Timothy 15  Attach: Maps(s) of road, location, provided). If water from the acreage, of the land application of involved section of involved by:	Annual Rye  pit and proposed area e pit will be land appl tion area.	for land a	Timothy	15	Annual Rye 1 including this info have to the total tot	been V), and Gas
Timothy 15  Attach: Maps(s) of road, location, provided). If water from the acreage, of the land application of involved section of involved by:	Annual Rye  pit and proposed area e pit will be land appl tion area.	for land a	Timothy	15	Annual Rye 1 including this info have to the total tot	been V), and Gas

) No

Yes

Field Reviewed?

## Attachment A to WW-9

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

Coastal 4H 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:

- 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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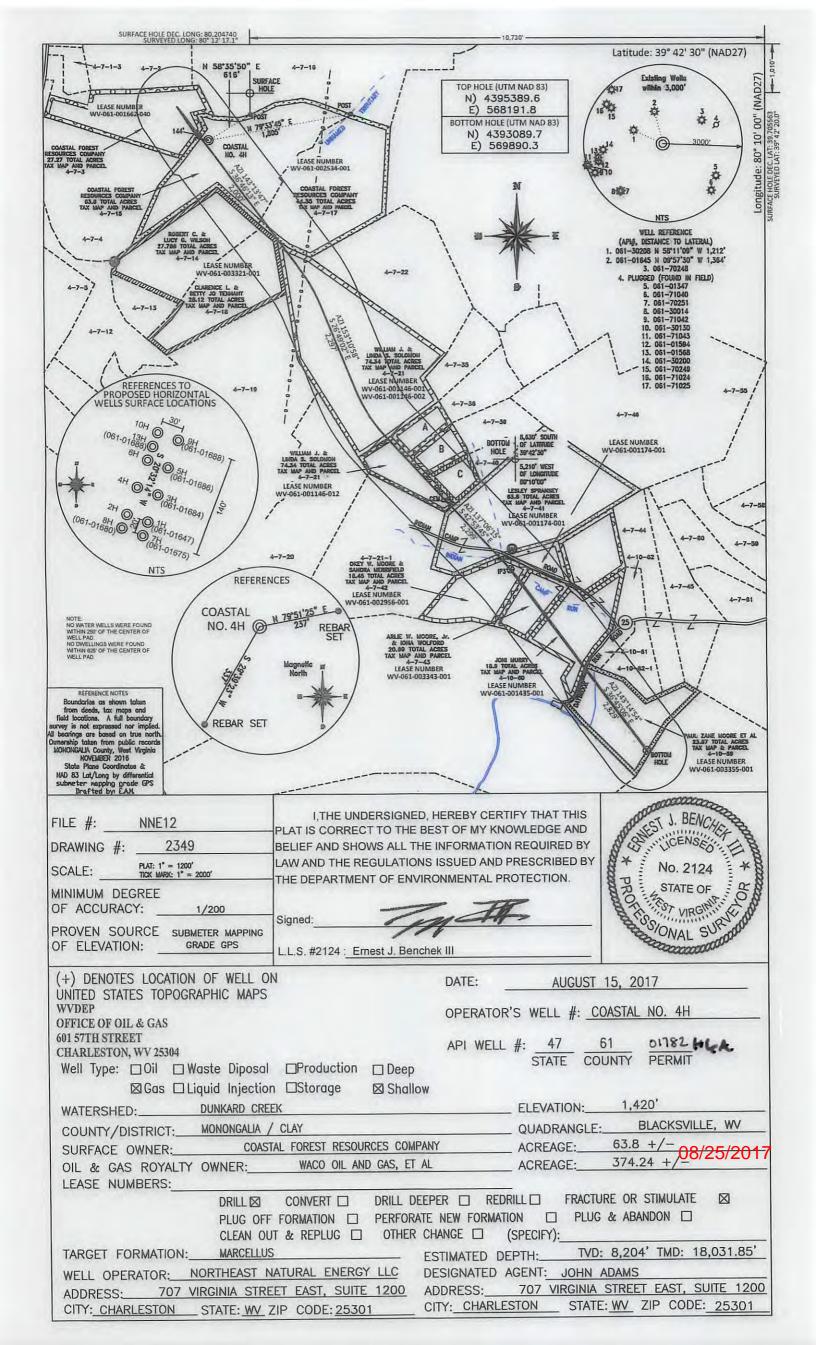


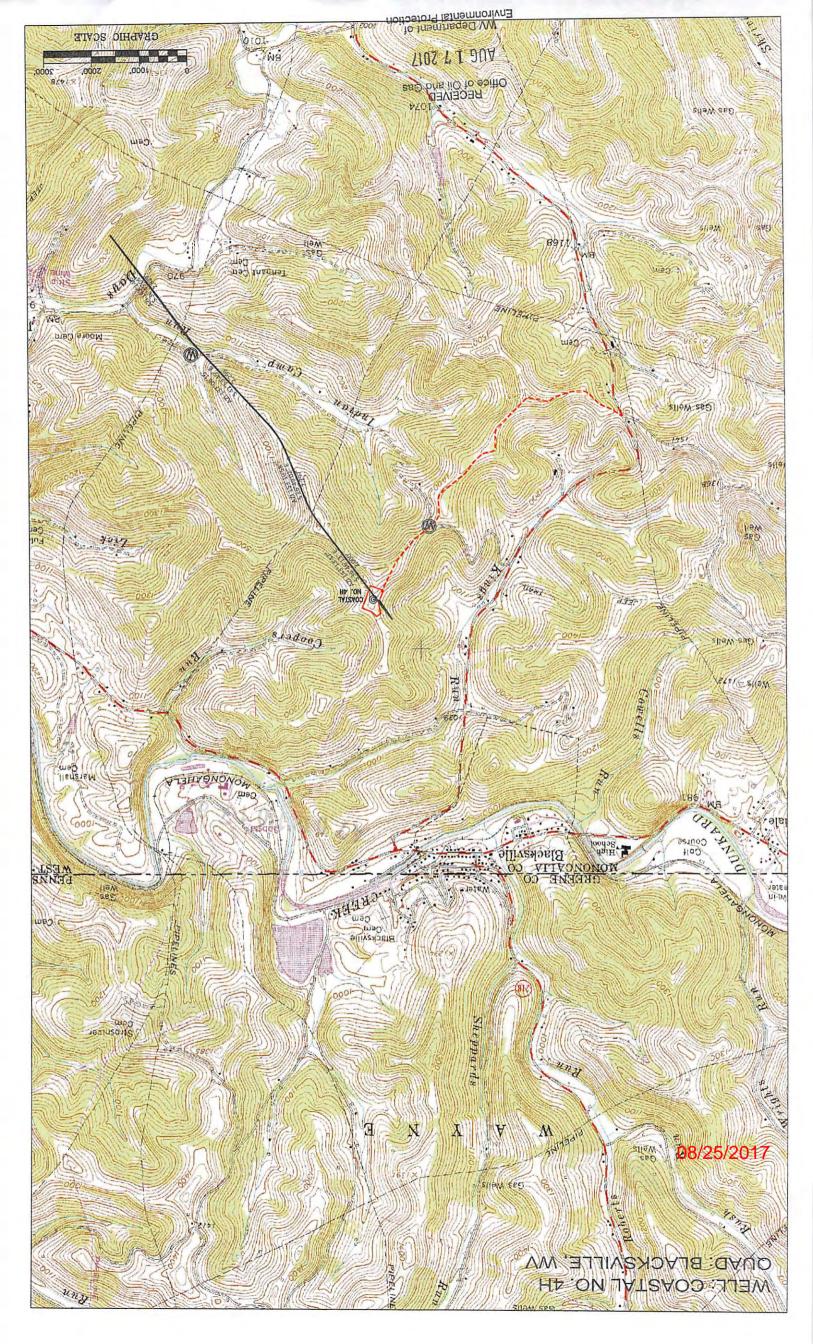
# Coastal 4H SITE SAFETY PLAN Down of Kuld

August 15, 2017

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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

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Book/Page

See Attachment

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

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

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

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

Well Operator: Northeast Natural Energy LLC

By: Hollie Medley

Its: Regulatory Manager

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WV Department of Environmental Protection Page 1 of 7

WW-6A1	Operator's Well No.	Coastal 4H		
NNE LEASE NUMBER	LESSOR NAME	LESSEE NAME	ROYALTY	BOOK/PG
	MARIE EDDY MCCLURE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
	RICHARD STEPHEN MICHAEL SALLY ANN MICHAEL REILY	NORTHEAST NATURAL ENERGY LLC NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 0.125 OR GREATER	
WV-061-001662-042		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-001662-043	· · · · · · · · · · · · · · · · · · ·	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del></del>
WV-061-001662-044	SHARON WOODALL AND WAYNE WOODALL	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1505/169
WV-061-001662-045	BRAD MIKOLAJCZYK AND SUZANNE MIKOLAJCZYK	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1537/670
WV-061-001662-046		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del></del>
WV-061-001662-047		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
	CECIL EDWARD OSBORNE AND MARION OSBORNE  LOVELA BEEL	NORTHEAST NATURAL ENERGY LLC NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 0.125 OR GREATER	<del></del>
WV-061-001662-050		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del></del>
	SANDRA J START	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
	CAROLE S GERKE AND DENNIS J GERKE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-001662-053	DIANE K TALKINGTON	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1512/576
WV-061-001662-054	JAMES E TALKINGTON	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1512/560
WV-061-001662-055		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<u> </u>
	JUDITH K BOWKER AND MARK BOWKER	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
	JAMES EDWARD TENNANT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del></del>
WV-061-001662-058 WV-061-001662-059		NORTHEAST NATURAL ENERGY LLC NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 0.125 OR GREATER	
WV-061-001082-039		*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	<del></del>
WV-061-002933-002		*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	<del></del>
WV-061-003010-001	ARTHUR ALLEN DUNCIL	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1439/192
WV-061-003010-002	SALLY SUE DUNCIL	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1455/513
	CHESAPEAKE APPALACHIA LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
	STATOIL USA ONSHORE PORPERTIES INC	*STATOIL USA ONSHORE PROPERTIES	0.125 OR GREATER	
	ADRIAN L HAUGHT AND LORETTA B HAUGHT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-003289-002 WV-061-003289-003	BETTY KELLEY	NORTHEAST NATURAL ENERGY LLC NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 0.125 OR GREATER	<del></del>
	SHARON DINUNNO AND DAVIDE DINUNNO	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
	LYNN ANN COCHRAN AND WILLIAM R COCHRAN	NORTHEAST NATURAL ENERGY LLC	DEED	1505/198
WV-061-003289-006	NICHOLAS WEBER AND STEFANI WEBER	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1498/201
WV-061-003289-008	JOSEPH A MARKLEY AND DORIS H MARKLEY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1500/444
	RALPH GLENN LIBERTY AND LINDA LIBERTY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
	THOMAS S LIBERTY AND SHIRLEY LIBERTY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-003289-011 WV-061-003289-012	DANIEL R LIBERTY AND CAROLYN D LIBERTY	NORTHEAST NATURAL ENERGY LLC NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 0.125 OR GREATER	<del></del>
	DONNA JEAN SHELTON AND THOMAS C SHELTON II	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
	DIANE SUE RUDASH AND WILLIAM G RUDASH	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del></del>
WV-061-003289-015		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del></del>
WV-061-003289-016	JANET DEAN DUNN AND LAWRENCE M DUNN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1512/746
WV-061-003289-017	ROBIN W KELLEY AND DEBRA KELLEY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1513/269
WV-061-003289-018		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-003289-019		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del></del>
WV-061-003289-020		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-003289-021 WV-061-003289-022	PATRICIA A SWIGER AND RONALD SWIGER	NORTHEAST NATURAL ENERGY LLC NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 0.125 OR GREATER	<del></del> 1
	GARY W TALKINGTON	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del></del>
	THE EARL TALKINGTON REVOCABLE LIVING TRUST	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del></del>
	RICKEY A GREEN AND LEILA F GREEN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-003289-026	FREDA B SCOTT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
	DONALD J CORRICK	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del></del>
	RICHARD L CORRICK	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del></del>
	BERNARD M CANTONI JR AND LANA K CANTONI TAMMY L STARNES	NORTHEAST NATURAL ENERGY LLC NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 0.125 OR GREATER	<del></del>
	JANE M REYNOLDS AND GREGORY MICHAEL	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del></del>
	THE WILLIAM D MCKINNEY TESTAMENTARY TRUST	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
	JAMES PAUL MCCOY AND ROBERTA R MCCOY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1517/59
WV-061-003289-034	RODNEY GREEN AND SUSAN GREEN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1517/61 Office of Oil Co.
WV-061-003289-035	PATRICIA M BENNETT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	and Ga
	PAUL HALLIER AND SUSAN HALLIER	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1517/51 ALIC 4
<b></b>	ELMA JEAN MORRIS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	- 4 / ////
WV-061-003289-038	JAMES C COLLINS SR AND PAMELA R COLLINS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	14540 (000 Mh / ~
<del></del>	RYAN L CORRICK AND CRYSTAL KESSINGER CECILE M CORRICK	NORTHEAST NATURAL ENERGY LLC NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1519/802 vivy Department of 1519/822 ronmental Protection
	MARGARET BOWEN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1517/389
	CHERYL MONAK	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
	·	· · · · · · · · · · · · · · · · · · ·		

NV-061-003289-043	THE WILL E MORRIS TRUST	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1517/273
-061-003289-044	BETTY C HILLIARD	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del></del>
061-003289-045	JANET LEA HAYES	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1537/670
	ROBERT ARLIE VANCE	NORTHEAST NATURAL ENERGY LLC	DEED	1533/685
	LINDA A TENNANT	NORTHEAST NATURAL ENERGY LLC	DEED	1529/774
	CHERI A COX AND GREGORY M COX	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
	FRANK RENICK	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del></del>
	CLEAR FORK ROYALTY II LP	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del>                                     </del>
/-061-003289-051		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
	WILLIAM DALE WALKER JR	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 0.125 OR GREATER	<del> </del>
	KATHRYN P SPROUSE EDITH P YEAGER	NORTHEAST NATURAL ENERGY LLC NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del></del>
	DONNA JOYCE MICAHEL MORRIS AND ROBERT MORRIS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del></del>
	JOHN LUTHER MICHAEL	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
	JACKIE WILSON MICHAEL	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del> </del>
	LOUELLA PEARL CARR MICHAEL	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del></del>
	BONNIE JEAN MICHAEL HOOD	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del>                                       </del>
	BILLY OSBORNE AND VIRGINIA OSBORNE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1498/205
-061-003294-010	ROBERT LAVERE WHITE AND PENNY D WHITE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1498/617
061-003294-011	SANDRA SUE SAGO AND DAVID SAGO	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1500/270
061-003294-012	JACQUELINE G LANKFORD	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1500/434
-061-003294-013		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1503/213
	JOHN P FOSTER III	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
	MARGARET COLLINS WILSON	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del></del>
	MICHEL L KELLEY AND KATRINA KELLEY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<u> </u>
	DWG OIL AND GAS ACQUISITIONS LLC	*NNE PROPERTIES LLC	DEED	1498/195
	DEMA LOUISE VARNER PARROTTA	NORTHEAST NATURAL ENERGY LLC	DEED	1536/251
	DANIEL WEBSTER VARNER	NORTHEAST NATURAL ENERGY LLC	DEED	1537/670
	DELMAS EARL VARNER AND DEBRA L CARNER	NORTHEAST NATURAL ENERGY LLC	DEED	1533/662
	DAVID MOSS VERNER	NORTHEAST NATURAL ENERGY LLC	DEED	1533/658 1533/735
	DONNA D VARNER ADRIAN L HAUGHT AND LORETTA B HAUGHT	NORTHEAST NATURAL ENERGY LLC NORTHEAST NATURAL ENERGY LLC	DEED	1537/277
	ONONDAGA HOLDING COMPANY LLC	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
	JANET L POULIMAS AND MICHAEL J POULIMAS	NORTHEAST NATURAL ENERGY LLC	DEED	1537/670
	KATHERINE A SMITH	NORTHEAST NATURAL ENERGY LLC	DEED	1552/334
061-002534-001		*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
	WACO OIL & GAS, INC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1441/0001
061-002534-001	SHUMAN, INC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1429/366
-061-002589-001	WACO OIL & GAS, INC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1441/0001
061-001567-001	JUDY A HESTON	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1383/610
-061-001567-002	DONNIE HIBBS	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
061-001567-003	DENZIL HIBBS	*CHESAPEAKE APPALACHIÁ LLC	0.125 OR GREATER	
	MARY SPRAGG DAWSON	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
	JANIE LOUISE GRAM	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
	WACO OIL & GAS, INC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
	REVOCABLE TRUST OF ROBERT M SPRAGG	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
	CLARENCE WILLARD	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	· ·
	ALIAKBAR AFSHARI	NORTHEAST NATURAL ENERGY LLC NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 0.125 OR GREATER	
	MARY LOU VERBOSKY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
-061-003638-001 -061-001567-001		*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
-061-001567-001		*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	+
	DENZIL HIBBS	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
	MARY SPRAGG DAWSON	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	<del> </del>
	JANIE LOUISE GRAM	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
	WACO OIL & GAS, INC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	<b>.</b>
	REVOCABLE TRUST OF ROBERT M SPRAGG	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
-061-003321-001	CLARENCE WILLARD	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
061-003321-002	AMIR H MOHAMMADI	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
-061-003321-003	ALIAKBAR AFSHARI	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del> </del>
	MARY LOU VERBOSKY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
061-001143-001	WAYNE TENNANT JR	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	+
	HERBERT N MOORE AND LISA T MOORE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
	VIRGINIA RUTH HAWKINS	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1363/755
	ELOISE WILLIAMS	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1424/148
	DONNA M MARTIN	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1370/478
	MARY L LINDERMAN	CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	13/0/2/
	WILLIAM J SOLOMON AND LINDA'S SOLOMON	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	142//206
	HERBERT N MOORE AND LISA T MOORE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER 0.125 OR GREATER 0.125 OR GREATER 0.125 OR GREATER	1465/74
".NE1_NN114C ^4 4	SONYA LYNN QUAINTANCE	*CHESAPEAKE APPALACHIA LLC	U.123 ON GREATER	1-1-11/11/04
-061-001146-014 -061-001146-015	ERED H. MOORE	*CHESAPEAKE APPALACHIA LLC	ID 125 OR GREATER	11785/744

	CUELLA D. MOGUES		
WV-061-001146-018	SHELIA P KOCHIS	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER   1486/
	NANCY TENNANT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 1509/
WV-061-001146-019	PATRICIA T NANNI	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 1509/
	JANET T DUNN AND LAWRENCE M DUNN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 1510/
WV-061-001146-020	DONNA JEAN SHELTON AND THOMAS C SHELTON II	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 1516/
WV-061-001146-025	DIANE SUE RUDASH AND WILLIAM G RUDASH	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 1523/
WV-061-001146-026	CHARLES A RAIKES	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 1526/
WV-061-001146-028	DAVID M MOORE AND CYNTHIA WELCH	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 1529/
WV-061-001146-029	LINDA KAY TENNANT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER   1534/
WV-061-001146-030	MARGARET I MADDEN	NORTHEAST NATURAL ENERGY LLC	DEED 1560/
WV-061-001146-031	DOROTHY JEAN JOHNS	NORTHEAST NATURAL ENERGY LLC	DEED 1557/
WV-061-001174-017	JACK HAWKINS	NORTHEAST NATURAL ENERGY LLC	DEED 1514/
WV-061-001174-018		NORTHEAST NATURAL ENERGY LLC	DEED 1514/
WV-061-002939-001		*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER 1425/
	JANICE A GREINERT	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER 1435/
	ELOISE MAE WILLIAMS AND MINER R WILLIAMS	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER   1437/
NV-061-002944-004	<u> </u>	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER   1437/
WV-061-002944-005		*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER 1438/
	DAVID S BRACKEN AND JANE A BRACKEN	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER 1439/
	VIRGINIA ELLEN STILES	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER 1443/
	MARY MARGARET HEADLEE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER   1445/
MV-061-002944-009		*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER   1445/
	ROBERT B WEST AND JO CLAIRE WEST	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER 1446/
	MARY M LIGHTNER	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER   1447/
	GWENDOLYN L CAMPBELL AND BYRON L CAMPBELL	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER   1449/
	DELORES J MOORE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER 1431/
WV-061-002544-013		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 1529/
	JUNE LEMLEY MINOR AND FRANCES M MINOR	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER   1530/
	ROSE ELLEN SATTERFIELD AND SANDERS SATTERFIELD	NORTHEAST NATURAL ENERGY LLC	DEED 1530/
MV-061-003559-003		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 1530/
	DAVID H WIGAL AND RITA A WIGAL	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 1533/
	LINDA KAY ARBOGAST	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 1533/
	HOLLY ARBOGAST WATSON AND DARRELL R WATSON	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 1534/
	MERRILL RODGER ARBOGAST AND VICKI IVY ARBOGAST	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 1533/
	MICHAEL D WIGAL	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 1537/
WV-061-003559-009		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 1538/
WV-061-003559-010		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER   1536/
		NORTHEAST NATURAL ENERGY LLC	DEED 1563/
ANY 061-003559-011		*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER 1427/
	WILLIAM J SOLOMON AND LINDA'S SOLOMON	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER   1367/
	MARY L LINDERMAN	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER   1367/
WV-061-001174-002	MARGARET I MADDEN	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER   1367/
		*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER   1367/
	ROBERT C HENKINS	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER   1369/
AV-061-001174-005		*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER   1369/
NV-061-001174-007		*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER   1369/
WV-061-001174-008	·	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER   1370/
WV-061-001174-009		*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER   1376/
ANY 061-001174-015		*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER   1377/
	WAYNE TENNANT JR	NORTHEAST NATURAL ENERGY LLC	DEED 1514/
WV-061-001174-017			DEED 1514/
NV-061-001174-018		NORTHEAST NATURAL ENERGY LC	0.125 OR GREATER 1506/
MV-061-001174-019	· · · · · · · · · · · · · · · · · · ·	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER   1306/
WV-061-001174-020		*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER   1485/
WV-061-001174-021		*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER   1485/
WV-061-001174-022		*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER   1485/
WV-061-001174-023		*CHESAPEAKE APPALACHIA LLC	
NV-061-001174-024		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER   1509/
NV-061-001174-025		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER   1510/
NV-061-001174-026		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER   1516/ 0.125 OR GREATER   1520/
VV-061-001174-027		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER   1520/
VV-061-001174-028		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER   1519/
NV-061-001174-029	· · · · · · · · · · · · · · · · · · ·	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER   1523/
WV-061-001174-030		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 1523/
WV-061-001174-031		NORTHEAST NATURAL ENERGY LLC	
		NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 1526/ 0.125 OR GREATER 1523/ DEED 1553/
		NORTHEAST NATURAL ENERGY LLC	0.125 UK GKEATEK   1523/
WV-061-001174-033	LESLIE SPRANSEY	NORTHEAST NATURAL ENERGY LLC	DEED 1553,
WV-061-001174-033 WV-061-001174-034			0.43E OR CREATER 4-01
WV-061-001174-033 WV-061-001174-034 WV-061-001174-035	LINDA KAY TENNANT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 1534
WV-061-001174-032 WV-061-001174-033 WV-061-001174-034 WV-061-001174-035 WV-061-001174-036	LINDA KAY TENNANT MARGARET I MADDEN	NORTHEAST NATURAL ENERGY LLC NORTHEAST NATURAL ENERGY LLC	DEED 1553, 0.125 OR GREATER 1534, DEED 1561,
AV-061-001174-033 AV-061-001174-034 AV-061-001174-035	LINDA KAY TENNANT  MARGARET I MADDEN  CHAD T SUTHERLAND AND LESLIE D SUTHERLAND	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER 1534, DEED 1561, 0.125 OR GREATER 1519, 0.125 OR GREATER 1425,

WV-061-002944-001	IANICE A GREINERT	*CHECADEANE ADDALACTION	0 435 OD 655455	4.00 (0.00
WV-061-002944-001	ELOISE MAE WILLIAMS AND MINER R WILLIAMS	*CHESAPEAKE APPALACHIA LLC  *CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
WV-061-002944-004	FRED E WEST	*CHESAPEAKE APPALACHIA LLC  *CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER 0.125 OR GREATER	<u> </u>
	JAMES H WEST AND WILMA M WEST	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
WV-061-002944-006	DAVID S BRACKEN AND JANE A BRACKEN	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
WV-061-002944-007	VIRGINIA ELLEN STILES	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
WV-061-002944-008	MARY MARGARET HEADLEE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
WV-061-002944-009	HELEN G BROOKS	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	_
	ROBERT B WEST AND JO CLAIRE WEST	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
WV-061-002944-011	MARY M LIGHTNER	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
WV-061-002944-012	GWENDOLYN L CAMPBELL AND BYRON L CAMPBELL	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1449/121
	DELORES J MOORE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1431/411
WV-061-003508-001	TED K MOORE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	<del>-</del>
	CHARLES A RAIKES	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
	DAVID M MOORE AND CYNTHIA WELCH	NORTHEAST NATURAL ENERGY LLC		1530/176
	DOROTHY JEAN JOHNS	NORTHEAST NATURAL ENERGY LLC	DEED	1557/717
	JUNE LEMLEY MINOR AND FRANCES M MINOR			1530/242
WV-061-003559-002	ROSE ELLEN SATTERFIELD AND SANDERS SATTERFIELD  LAURA E LEMLEY	NORTHEAST NATURAL ENERGY LLC NORTHEAST NATURAL ENERGY LLC	DEED 0.125 OR GREATER	1530/112
	DAVID H WIGAL AND RITA A WIGAL	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
	LINDA KAY ARBOGAST	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	•
	HOLLY ARBOGAST WATSON AND DARRELL R WATSON	to the second se	0.125 OR GREATER	
	MERRILL RODGER ARBOGAST AND VICKI IVY ARBOGAST	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
	MICHAEL D WIGAL	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-003559-009	GINNY R TATE AND JOSH TATE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1538/170
WV-061-003559-010	MARK C ARBOGAST	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1536/312
WV-061-003559-011	MARTHA T PRICE	NORTHEAST NATURAL ENERGY LLC	DEED	1563/298
	MARY L LINDERMAN		0.125 OR GREATER	
	MARGARET I MADDEN		0.125 OR GREATER	
	E SCOTT HENKINS		0.125 OR GREATER	· · ·
	ROBERT C HENKINS		0.125 OR GREATER	
	JACK HAWKINS		0.125 OR GREATER	
	ROSE SATTERFIELD	*	0.125 OR GREATER	· ·
	ONEDA WISE	w	0.125 OR GREATER 0.125 OR GREATER	
	SUSAN H KING DONNA MARTIN		0.125 OR GREATER	
	MARTHA T PRICE		0.125 OR GREATER	
	WAYNE TENNANT JR			1377/214
	JACK HAWKINS	NORTHEAST NATURAL ENERGY LLC	DEED	1514/118
	ONEDA WISE	NORTHEAST NATURAL ENERGY LLC	DEED	1514/114
	PATRICIA T NANNI		0.125 OR GREATER	1506/77
WV-061-001174-020	HERBERT N MOORE AND LISA T MOORE		0.125 OR GREATER	
	SONYA LYNN QUAINTANCE		0.125 OR GREATER	
	FRED MOORE IV		0.125 OR GREATER	
	SHELIA P KOCHIS		0.125 OR GREATER	
WV-061-001174-024		The state of the s	0.125 OR GREATER	
			0.125 OR GREATER	
WV-061-001174-026	DONNA JEAN SHELTON AND THOMAS C SHELTON II		0.125 OR GREATER 0.125 OR GREATER	
	NELLIE ELDER	NORTHEAST NATURAL ENERGY LLC NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-001174-028 WV-061-001174-029	TREVOR S SUTHERLAND AND SABRINA D SUTHERLAND LINDA K MORGAN AND J MICHAEL MORGAN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
-	LESLIE A LAYTON AND ROBERT LAYTON	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
	NANCY R ELKINS AND EMORY L ELKINS		0.125 OR GREATER	
	DIANE SUE RUDASH AND WILLIAM G RUDASH	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
	PINEY HOLDINGS INC		0.125 OR GREATER	
WV-061-001174-034	PINEY HOLDINGS INC	NORTHEAST NATURAL ENERGY LLC		1553/785
WV-061-001174-035	LINDA KAY TENNANT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-001174-036	MARGARET I MADDEN	NORTHEAST NATURAL ENERGY LLC	DEED	1561/550
WV-061-001185-010	CHAD T SUTHERLAND AND LESLIE D SUTHERLAND	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-002940-002	LESLIE SPRANSEY	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
WV-061-003508-001	TED K MOORE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
WV-061-002956-001	RODNEY S MOORE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
WV-061-002956-002	CHERYL RENEE WHITE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
WV-061-002956-003	MELANIE J RICHARDS	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER 0.125 OR GREATER	
WV-061-002956-004 WV-061-002956-005	RUTH A PRATT SANDRA J MERRIFIELD AND EDWIN L MERRIFIELD	*CHESAPEAKE APPALACHIA LLC *CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
WV-061-002956-006	CLARENCE W MOORE II AND DELORES J MOORE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	
WV-061-002956-007	GREGG STEPHEN MOORE AND BARBARA MARIE MOORE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1439/220
WV-061-002956-008	GARY S MOORE AND TANIA MOORE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-002956-009	KAREN A KATCHUR	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-002956-010	SUSAN JAN GREEN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1519/828
	· · · · · · · · · · · · · · · · · · ·			

Office of Oil and Gas

AUG 1 7 2017

V Department of innmental Protection

WV-061-002956-011	ROGER L MOORE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1520/96
WV-061-003343-001	DONALD LOREN MOORE SR AND ROBERTA KAY MOORE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1501/425
WV-061-003526-001	BEATRICE JOANN MOORE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1523/441
WV-061-003526-002	JOHN CLAYTON MOORE AND PAMELA R MOORE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1527/842
WV-061-003526-003	BETTY JEAN CLAPP	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1526/98
WV-061-003526-004	BEVERLY JOAN CATE AND MARC SHELDON	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1526/84
WV-061-003526-005	STEVEN CARL MOORE AND CORINA S MOORE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1530/302
WV-061-003526-006	PAUL ZANE MOORE AND LINDA MOORE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1529/576
WV-061-003526-007	PATRICIA ELAINE MOORE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1536/531
WV-061-001435-001	WAYNE L WILSON AND SANDRA WILSON	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1377/797
WV-061-001435-002	MARY MARTHA WILSON COTTRELL AND HAMPTON COTTRELL	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1377/794
WV-061-001435-003	DOTTIE MOORE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1378/448
WV-061-001435-004	EVERETT DEAN WILSON	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1378/454
WV-061-001435-005	LEONARD D WILSON	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1378/451
WV-061-003355-001	DONALD LOREN MOORE SR AND ROBERTA KAY MOORE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1501/425
WV-061-003526-001	BEATRICE JOANN MOORE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1523/441
WV-061-003526-002	JOHN CLAYTON MOORE AND PAMELA R MOORE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1527/842
WV-061-003526-003	BETTY JEAN CLAPP	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1526/98
WV-061-003526-004	BEVERLY JOAN CATE AND MARC SHELDON	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1526/84
WV-061-003526-005	STEVEN CARL MOORE AND CORINA S MOORE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1530/302
WV-061-003526-006	PAUL ZANE MOORE AND LINDA MOORE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1529/576
WV-061-003526-007	PATRICIA ELAINE MOORE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1536/531
		•		

<sup>\*</sup> SEE ATTACHMENT





Chesapeake Appalachia, LLC.
And
Statoil USA Onshore Properties Inc.

Northeast Natural Energy
Assignment
BK 120/769

4700101702





May 22, 2017

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

RE: Coastal 2H & 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 Indian Camp Road and Daybrook Run Road (State Route 25) on the enclosed survey plat.

Sincerely,

Office of Oil and Gas

JUN 2 7 2017

WV Department of Environmental Protection

470510170

Jeannie Morgan Johnson, CPL Vice President – Land Operations Date of Notice Certification: 06/14/2017

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

**API No. 47-**

	· · · · · · · · · · · · · · · · · · ·				
		•	Operator's	Well No. Coas	tal 4H
			Well Pad N	lame: Coastal	
Notice has l	been given:				
	ne provisions in West Virginia Code	δ 22-6A, the Operator has prov	ided the rec	uired narties v	with the Notice Forms listed
	tract of land as follows:	3,		lanca kanasa	
State:	West Virginia		Easting:	568191.8	
County:	Monongalia		Northing:	4395389.6	
District:	Clay	Public Road Acce		State Route 218	(Daybrook Road)
Quadrangle:	Blacksville	Generally used far		Coastal	
Watershed:	Dunkard				
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and set the owners of the surface described and set the owners of the surface described and (c), surface owner notice of entry to so of subsection (b), section sixteen of \$22-6A-11(b), the applicant shall have been completed by the applica	shall contain the following information in subdivisions (1), (2) and ection sixteen of this article; (ii) curvey pursuant to subsection (as of this article were waived in the standard proof of and certify to the	rmation: (14 nd (4), substitute the real that the real tha	4) A certification (b), security of this article of this article over the surface over the	on from the operator that (i ction ten of this article, the deemed satisfied as a resul- cle six-a; or (iii) the notice wner; and Pursuant to Wes
	. , , , , ,				
					1.10
	West Virginia Code § 22-6A, the O		is Notice C	ertification	
	West Virginia Code § 22-6A, the Orator has properly served the require		is Notice C	ertification	OOG OPPICE ISE
that the Ope	rator has properly served the require		is Notice C	ertification	OOG OFFICE USE
that the Ope			is Notice C	ertification	OOG OFFICE USE ONLY
that the Ope	rator has properly served the require	ed parties with the following:  NOTICE NOT REQUIR	ED BECAU	JSE NO	ONLY  RECEIVED/
that the Ope	rator has properly served the require	ed parties with the following:	ED BECAU	JSE NO	ONLY
*PLEASE CHE	rator has properly served the require	NOTICE NOT REQUIR SEISMIC ACTIVITY WAS	ED BECAU	JSE NO TED	ONLY  RECEIVED/
that the Ope  *PLEASE CHE  1. NOT  2. NOT	Tator has properly served the require  CK ALL THAT APPLY  TICE OF SEISMIC ACTIVITY or  TICE OF ENTRY FOR PLAT SURV	ed parties with the following:  ■ NOTICE NOT REQUIR SEISMIC ACTIVITY WAS  VEY or □ NO PLAT SURVE	ED BECAU CONDUC' CY WAS CO	JSE NO TED ONDUCTED	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED
that the Ope  *PLEASE CHE  1. NOT  2. NOT	Tator has properly served the require ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIR SEISMIC ACTIVITY WAS	ED BECAU CONDUC' EY WAS CO	JSE NO TED ONDUCTED JSE	ONLY  RECEIVED/ NOT REQUIRED
that the Ope  *PLEASE CHE  1. NOT  2. NOT	Tator has properly served the require  CK ALL THAT APPLY  TICE OF SEISMIC ACTIVITY or  TICE OF ENTRY FOR PLAT SURV	ed parties with the following:  ■ NOTICE NOT REQUIR SEISMIC ACTIVITY WAS  VEY or □ NO PLAT SURVE □ NOTICE NOT REQUIR NOTICE OF ENTRY FOR P	ED BECAU CONDUC EY WAS CO ED BECAU LAT SURV	JSE NO TED ONDUCTED JSE /EY	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED  RECEIVED/
that the Ope  *PLEASE CHE  1. NOT  2. NOT  3. NOT	Tator has properly served the require  CK ALL THAT APPLY  TICE OF SEISMIC ACTIVITY or  TICE OF ENTRY FOR PLAT SURV	MOTICE NOT REQUIR SEISMIC ACTIVITY WAS VEY or □ NO PLAT SURVE □ NOTICE NOT REQUIR NOTICE OF ENTRY FOR PWAS CONDUCTED or □ WRITTEN WAIVER B	ED BECAU CONDUC EY WAS CO ED BECAU LAT SURV	JSE NO TED ONDUCTED JSE /EY	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED  RECEIVED/ NOT REQUIRED
that the Ope  *PLEASE CHE  1. NOT  2. NOT  3. NOT  4. NOT	TATOR HAS PROPERTY SERVED THE REQUIRE  FICE OF SEISMIC ACTIVITY OR  FICE OF ENTRY FOR PLAT SURV  FICE OF INTENT TO DRILL OR	MOTICE NOT REQUIR SEISMIC ACTIVITY WAS VEY or □ NO PLAT SURVE □ NOTICE NOT REQUIR NOTICE OF ENTRY FOR PWAS CONDUCTED or □ WRITTEN WAIVER B	ED BECAU CONDUC EY WAS CO ED BECAU LAT SURV	JSE NO TED ONDUCTED JSE /EY	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED/ NOT REQUIRED  C

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.

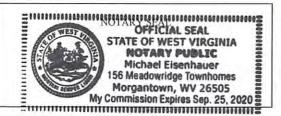
RECEIVED
Office of Oil and Gas

JUN 27 2017

## Certification of Notice is hereby given:

THEREFORE, I , 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 STREET EAST, SUITE 1200 By: HOLLIE MEDLEY CHARLESTON, WV 25301 Its: REGULATORY COORDINATOR Facsimile: 304-241-5972 Telephone: Email: 304-212-0422 hmedley@nne-llc.com



Subscribed and sworn before me this 26 day of June, 201,

Notary Public

My Commission Expires

9-25-2020

## 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.

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RECEIVED Office of Oil and Gas

JUN 27 2017

WW-6A (9-13)

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

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

Not	ice Time Requirement: notice shall be pro	vided no later than the filing date of permit application.	
	e of Notice: 6/14/2017 Date Permit Applicate of:	ation Filed: 6/24/2017	
Ø		FICATE OF APPROVAL FOR THE TRUCTION OF AN IMPOUNDMENT OR PIT	
Deli	very method pursuant to West Virginia	Code § 22-6A-10(b)	
	PERSONAL ☑ REGISTERED SERVICE MAIL	☐ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION	
the soil and descond more well important provers proposed provers and the control of the control	surface of the tract on which the well is or is pred gas leasehold being developed by the propribed in the erosion and sediment control plan ator or lessee, in the event the tract of land or ecoal seams; (4) The owners of record of the work, if the surface tract is to be used for the work, if the surface tract is to be used for the bundment or pit as described in section nine of a water well, spring or water supply source lide water for consumption by humans or domosed well work activity is to take place. (c)(1) ection (b) of this section hold interests in the rads of the sheriff required to be maintained put ision of this article to the contrary, notice to a e.R. § 35-8-5.7.a requires, in part, that the open state of the sheriff requires, in part, that the	This article, and the well plat to each of the following persons: (1) The ox- roposed to be located; (2) The owners of record of the surface tract or tra- osed well work, if the surface tract is to be used for roads or other land di- submitted pursuant to subsection (c), section seven of this article; (3) The which the well proposed to be drilled is located [sic] is known to be unde- surface tract or tracts overlying the oil and gas leasehold being developed placement, construction, enlargement, alteration, repair, removal or aband of this article; (5) Any surface owner or water purveyor who is known to the ocated within one thousand five hundred feet of the center of the well pad estic animals; and (6) The operator of any natural gas storage field within. If more than three tenants in common or other co-owners of interests des- ands, the applicant may serve the documents required upon the person de- resuant to section eight, article one, chapter eleven-a of this code. (2) Noty lien holder is not notice to a landowner, unless the lien holder is the land erator shall also provide the Well Site Safety Plan ("WSSP") to the surface and water testing as provided in section 15 of this rule.	cts overlying the sturbance as e coal owner, erlain by one or by the proposed donment of any he applicant to which is used to which the scribed in scribed in the withstanding any owner. W. Va.
☑ SU Nam	JRFACE OWNER(s) ne: Please See Attached	&S Plan Notice ☑ Well Plat Notice is hereby provided to:  ☑ COAL OWNER OR LESSEE  Name: Please See Attached	RECEIVED Office of Oil and Gas JUN 27 2017
Nam	ress:e:	Address:  COAL OPERATOR  Name: Address:	WV Department of Environmental Protection
Nam Add	JRFACE OWNER(s) (Road and/or Other I ne: Please See Attached ress:	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name: Please See Attached	
Add SU Nam	JRFACE OWNER(s) (Impoundments or Pine:	OPERATOR OF ANY NATURAL GAS STORA  Name: Address:	GE FIELD
		*Please attach additional forms if necessary	

WW-6A	
(8-13)	

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

### 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="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 other RESERVEDITE alteration to address the items

08/25/2017

WW-6A	
(8-13)	

API NO. 47	
OPERATOR WELL NO. Coastal 4H	
Wall Dad Names Coastal	

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 27 2017

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)

API NO. 47	
OPERATOR WELL 1	NO. Coastal 4H
Well Pad Name: Coas	tal

## 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 <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.

Office of Oil and Gas

WW-6A	
(8-13)	

API NO. 47-	•
OPERATOR WE	LL NO. Coastal 4H
Well Pad Name:	Coastal

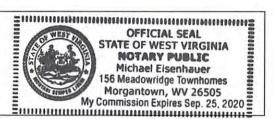
Natina	ic	hereby	givon	har
route	12	nereby	given	Dy.

Well Operator: Northeast Natural Energy LLC Address: 707 Virginia Street E., Suite 1200 Charleston, WV 25301 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.

My Commission Expires



Subscribed and sworn before me this ZC day of June, 2017. Notary Public 9-25-2020

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JUN 27 2017

## **Surface Owner(S)**

Coastal Forest Resources Company P.O. Box 709 Buckhannon, WV 26201

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

Donnie E. Simpson and Sharon K. Simpson
993 Daybrook Road
Fairview, WV 26570

Aaron K. Aaron Fisher & the Janet Elaine Fisher and Aaron Konrad Fisher Living Trust 2524 Paxton Street
Woodbridge, VA 22192

Richard Price 1047 Daybrook Road Fairview, WV 26570

Coastal Forest Resources Company P.O. Box 709 Buckhannon, WV 26201

David Allen Simpson <del>657-</del>Daybrook Road Fairview, WV 26570

Edna F. Simpson (life estate), Mr. & Mrs. Donnie E. Simpson 993 Daybrook Road Fairview, WV 26570

Gary E. Simpson 67 McCoy Road Fairview, WV 26570 RECEIVED
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JUN 27 2017

Kenneth W. Dean and Clara M. Dean PO Box 27 Blacksville, WV 26521

John Basile P.O. Box 194 Blacksville, WV 26521

Kenneth W. & Clara M. Dean P.O. Box 27 Blacksville, WV 26521

Alex Wilson 2344 Daybrook Road Fairview, WV 26570

Clarence Willard 1912 London Carriage Grove Colorado Spring, CO 80920

Robert and Lucy Wilson P.O. Box 678
Buckeye, OH 43008

## **Coal Owner or Lessee**

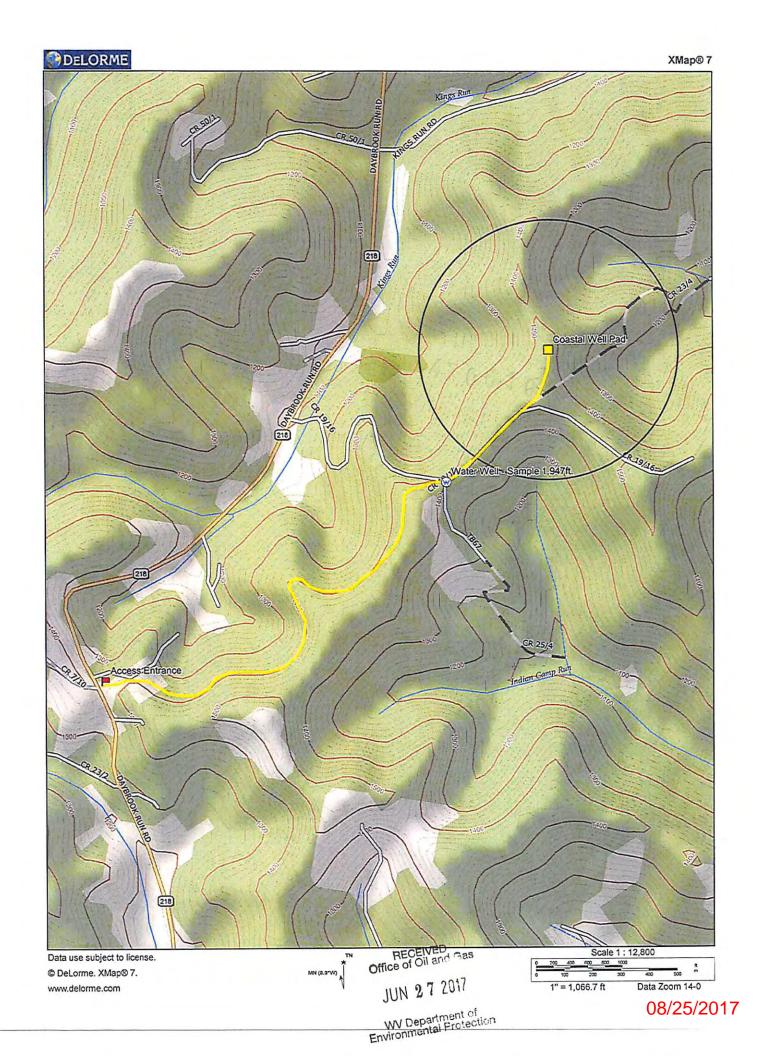
Consolidated Coal Company CNX Center 1000 Consol Energy Drive Canonsburg, PA 15317

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

Robert and Lucy Wilson P.O. Box 678 Buckeye, OH 43008

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Office of Oil and Gas

JUN 27 2017



WW-6A3 (1/12)

Operator	Well No.	Coastal	

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

entry			nned Entry: 10/28/2013			(15) days prior to
Delivery met	hod pursuant	to West Virginia C	ode § 22-6A-10a			
PERSO:		REGISTERED MAIL	☐ METHOD OF DEI RECEIPT OR SIGN			
on to the surf but no more t beneath such owner of min and Sediment Secretary, wh	ace tract to cond han forty-five d tract that has fil erals underlying Control Manua ich statement sl	duct any plat survey ays prior to such en led a declaration put g such tract in the co al and the statutes ar	Prior to filing a permit appli s required pursuant to this a try to: (1) The surface ownersuant to section thirty-six, a bunty tax records. The notion and rules related to oil and gatinformation, including the and se secretary.	rticle. Such notice s or of such tract; (2) that tricle six, chapter to be shall include a state of exploration and page	shall be provi to any owner wenty-two of atement that or orduction ma	ded at least seven days or lessee of coal seams this code; and (3) any opies of the state Erosion whe obtained from the
	eby provided to	0:				
SURFAC	CE OWNER(s)		■ COA	L OWNER OR LE	SSEE	
Name: See Atta	chment		Name: Se	e Attachment		
			Address:	e Attachment		
Name:			1 /2/			
Address:			■ MIN	ERAL OWNER(s)		
			Name: See	Attachment		
Name:			Address:	a Attachment		
Address:	-					
			*please attac	h additional forms if neo	cessary	
Notice is he	reby given:					
		de § 22-6A-10(a), r	otice is hereby given that th	e undersigned well	operator is p	lanning entry to conduct
a plat survey	on the tract of la	and as follows:		47 /	Cala	imming onery to conduct
State:	West Virginia		Approx. Latit	ude & Longitude:	0568193.0, 4395	333.0 (UTM 83)
County:	Monongalia		Public Road	Access:	State Route 23/4	
District:	Clay		Watershed:		Dunkard Creek	
Quadrangle:	Blacksville 7.5'		Generally use	d farm name:	Coastal	
may be obtain Charleston, Wobtained from	ed from the Sec V 25304 (304- the Secretary b	cretary, at the WV E 926-0450). Copies by visiting <u>www.dep</u>	Manual and the statutes and Department of Environmenta of such documents or addit a.wv.gov/oil-and-gas/pages/o	1.75		d at 601 57 <sup>th</sup> Street, SE, contal drilling may be RECEIVED Office of Oil and Gas
Well Operator	eby given by		4.9.1			JUN 27 2017
wen Operator Celephone:	T. 7 / T. 7 / T. 7	I Energy LLC	Address:	707 Virginia Street East,	Suite 1200	WW Department of Environmental Profes
rerephone;	304.414.7060		0-2-1	Charleston, WV 25301		VIN Departmenter
Email:	hmedley@nne-llc		Facsimile:	304.414.7061		in marchitect

## 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:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

## **Surface Owner(S)**

Coastal Forest Resources Company P.O. Box 709 Buckhannon, WV 26201

## **Coal Owner or Lessee**

Consolidated Coal Company CNX Center 1000 Consol Energy Drive Canonsburg, PA 15317

## **Mineral Owner(s)**

Shuman, Inc. P.O. Box 842 Morgantown, WV 26507

XTO Energy, Inc. 810 Houston Street Fort Worth, Texas 76102

Office of Oil and Gas

JUN 27 2017

WV Department of 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.

Date of Notic	Requirement: Notice shall be provided to the ce: 06/14/2017 Date Pe	at least TEN (10) days prior to filing a ermit Application Filed: 06/24/2017	permit application.
Delivery met	thod pursuant to West Virginia Code §	22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVE		QUESTED	
receipt request drilling a hor of this subsect subsection mand if availab	sted or hand delivery, give the surface ow izontal well: <i>Provided</i> , That notice gives tion as of the date the notice was provide ay be waived in writing by the surface ow le, facsimile number and electronic mail	oner notice of its intent to enter upon the pursuant to subsection (a), section tend to the surface owner: <i>Provided, howerer</i> . The notice, if required, shall included address of the operator and the operator	
	reby provided to the SURFACE OV Forest Resources Company	WNER(s): Name:	RECEIVED Office of Oil and Gas
Address: P.O.		Address:	
	hannon, WV 26201	T tudi essi	JUN 2 7 2017
Pursuant to V	vest Virginia Code § 22-6A-16(b), notice	e is nereby given that the undersigned	well operator has an intent to enter upon
State: County: District: Quadrangle:	West Virginia  Monongalia  Clay  Blacksville	orizontal well on the tract of land as fo  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	well operator has an intent to enter upon llows: 568191.8 4395389.6 State Route 218 (Daybrook Road) Coastal
State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor	West Virginia  Monongalia  Clay  Blacksville  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	UTM NAD 83  Easting: Northing: Public Road Access: Generally used farm name:  s notice shall include the name, addr operator and the operator's authorize the Secretary, at the WV Department of	568191.8 4395389.6 State Route 218 (Daybrook Road)
State: County: District: Quadrangle: Watershed: This Notice Pursuant to v facsimile nur related to hor located at 601 Notice is he	West Virginia  Monongalia  Clay  Blacksville  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	UTM NAD 83  Easting: Northing: Public Road Access: Generally used farm name:  s notice shall include the name, addr operator and the operator's authorize the Secretary, at the WV Department of	568191.8 4395389.6 State Route 218 (Daybrook Road) Coastal  ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
State: County: District: Quadrangle: Watershed: This Notice Pursuant to v facsimile nur related to hor located at 601 Notice is he	West Virginia  Monongalia  Clay  Blacksville  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 structure of the structure o	UTM NAD 83  Easting: Northing: Public Road Access: Generally used farm name:  s notice shall include the name, addr operator and the operator's authorized the Secretary, at the WV Department of (304-926-0450) or by visiting www.de	568191.8 4395389.6 State Route 218 (Daybrook Road) Coastal  ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he Well Operato	West Virginia  Monongalia  Clay  Blacksville  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 57 <sup>th</sup> Street, SE, Charleston, WV 25304  reby given by: r: Northeast Natural Energy LLC	UTM NAD 83  Easting: Northing: Public Road Access: Generally used farm name:  s notice shall include the name, addr operator and the operator's authorize Secretary, at the WV Department of (304-926-0450) or by visiting www.de	568191.8 4395389.6 State Route 218 (Daybrook Road) Coastal  ess, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  Hollie Medley, Regulatory Coordinator
State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he Well Operato	West Virginia  Monongalia  Clay  Blacksville  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:  T: Northeast Natural Energy LLC  707 Virginia Street East, Suite 1200	UTM NAD 83  Easting: Northing: Public Road Access: Generally used farm name:  s notice shall include the name, addr operator and the operator's authorize Secretary, at the WV Department of (304-926-0450) or by visiting www.de	state Route 218 (Daybrook Road)  Coastal  ess, telephone number, and if available, and representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  Hollie Medley, Regulatory Coordinator  48 Donley Street, Suite 601
State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he Well Operato Address:	West Virginia  Monongalia  Clay  Blacksville  Dunkard Creek  Shall Include:  West Virginia Code § 22-6A-16(b), this rizontal drilling may be obtained from the rizontal drilling may be obtained from the standard street, SE, Charleston, WV 25304  reby given by:  T: Northeast Natural Energy LLC  707 Virginia Street East, Suite 1200  Charleston, WV 25301	UTM NAD 83  Easting: Northing: Public Road Access: Generally used farm name:  s notice shall include the name, addr operator and the operator's authorized Secretary, at the WV Department of (304-926-0450) or by visiting <a href="https://www.de">www.de</a> Authorized Representative: Address:	state Route 218 (Daybrook Road)  Coastal  ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  Hollie Medley, Regulatory Coordinator  48 Donley Street, Suite 601  Morgantown, WV 26508

### Oil and Gas Privacy Notice:

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

		rovided no later than the filing date of permit application.  Permit Application Filed: 05/24/2017	
Delivery n	nethod pursuant to West Virg	a Code § 22-6A-16(c)	
■ CER	TIFIED MAIL	☐ HAND	
	URN RECEIPT REQUESTED	DELIVERY	
Pursuant to return receithe planned required to drilling of damages to (d) The not of notice.  Notice is h (at the addr Name: See Address:	o W. Va. Code § 22-6A-16(c), ipt requested or hand delivery, d operation. The notice requibe provided by subsection (b), a horizontal well; and (3) A particles affected by oil and ices required by this section shape results in the records of the attachment.  The work of the surface affected by oil and ices required by this section shape results in the records of the attachment.  The work of the surface affected by oil and ices required by this section shape results in the records of the attachment.	later than the date for filing the permit application, an ope the surface owner whose land will be used for the drilling by this subsection shall include: (1) A copy of this code stion ten of this article to a surface owner whose land will be osed surface use and compensation agreement containing soperations to the extent the damages are compensable und be given to the surface owner at the address listed in the red E OWNER(s) riff at the time of notice):  Name:  Address:  C), notice is hereby given that the undersigned well operator purpose of drilling a horizontal well on the tract of land as  Easting: 538191.8	g of a horizontal well notice of section; (2) The information e used in conjunction with the an offer of compensation for er article six-b of this chapter, cords of the sheriff at the time
County:	Monongalia	Northing: 4395389.6	
District:	Clay		B (Daybrook Road)
Quadrangle		Generally used farm name: Coastal	
Watershed:	Dunkard Creek		
Pursuant to to be provi horizontal surface affo information headquarte	ided by W. Va. Code § 22-6, well; and (3) A proposed surfaceted by oil and gas operation related to horizontal drilling	c), this notice shall include: (1)A copy of this code section; 0(b) to a surface owner whose land will be used in conjuste and compensation agreement containing an offer of contained the extent the damages are compensable under article six by be obtained from the Secretary, at the WV Department C, Charleston, WV 25304 (304-926-0450) or by visiting	anction with the drilling of a npensation for damages to the t-b of this chapter. Additional of Environmental Protection
Well Opera	itor: Northeast Natural Energy LLC	Address: 707 Virginia Street East, Suite 1200	
Telephone:	A TOTAL STREET, INC. AND A STREET, AND ASSOCIATION OF THE PARTY.	Charleston, WV 25301	
Email:	The second secon	Facsimile: 304-241-5972	and and and a
	hmedley@nne-llc.com as Privacy Notice:	1 desimile. 304-241-3972	

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.

Office of Oil and Gaa

JUN 27 2017

WV Der Care Control of the Control of Con

## **Surface Owner(S)**

Coastal Forest Resources Company P.O. Box 709 Buckhannon, WV 26201

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

Donnie E. Simpson and Sharon K. Simpson 993 Daybrook Road Fairview, WV 26570

Aaron K. Aaron Fisher & the Janet Elaine Fisher and Aaron Konrad Fisher Living Trust / 2524 Paxton Street
Woodbridge, VA 22192

Richard Price 1047 Daybrook Road Fairview, WV 26570

Coastal Forest Resources Company P.O. Box 709 Buckhannon, WV 26201

David Affen Simpson 973 657 Daybrook Road Fairview, WV 26570

Edna F. Simpson (life estate), Mr. & Mrs. Donnie E. Simpson 993 Daybrook Road Fairview, WV 26570

Gary E. Simpson 67 McCoy Road Fairview, WV 26570 Office of Sil and Gas

JUN 27 2017

WV Department of Environmental Protection

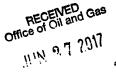
Kenneth W. Dean and Clara M. Dean PO Box 27 Blacksville, WV 26521

John Basile P.O. Box 194 Blacksville, WV 26521 Kenneth W. & Clara M. Dean P.O. Box 27 Blacksville, WV 26521

Alex Wilson 2344 Daybrook Road Fairview, WV 26570

Clarence Willard 1912 London Carriage Grove Colorado Spring, CO 80920

Robert and Lucy Wilson P.O. Box 678 Buckeye, OH 43008



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

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

## **VOLUNTARY 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

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

WW-6A and required, and State:	, hereby state that I have reacted above, and that I have received copies of a attachments consisting of pages one (1) through the well plat, all for proposed well work on the West Virginia	Notice of Applic ough 5	ation, an App	plication for a Well Work Permit on Form	
County: District:	Monongalia	Northing:	4395389.6		
Quadrangle:	Clay  Blacksville	Public Road Ac		State Route 218 (Daybrook Road)	
Watershed:	Dunkard Creek	Generally used farm name:		Coastal	
	eck the box that applies FACE OWNER		FOR EXECUTION BY A NATURAL PERSON Signature: Any Columns		
■ SURFACE OWNER (Road and/or Other Disturbance)			Signature: Any Columns Print Name: Gary Ef Simpson Date:		
□ SURFAC	CE OWNER (Impoundments/Pits)	2.23			
□ COAL O	WNER OR LESSEE	Con	npany:	ION BY A CORPORATION, ETC.	
☐ COAL OPERATOR			By: Its:		
☐ WATER PURVEYOR					
☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD			Date:		

Oil and Gas Privacy Notice:

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## WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

## **Division of Highways**

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

Paul A. Mattox, Jr., P. E. Secretary of Transportation/ Commissioner of Highways

June 18, 2014

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 Coastal Pad, Monongalia County Coastal 4H

47-061-01982

Dear Dr. Martin,

Northeast Natural Energy LLC has applied for permits #04-2014-0505 & 04-2014-0507 to access the State Road for a well site located off of West Virginia Route 218.

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 dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Hollie Medley

Northeast Natural Energy Corporation

CH, OM, D-4

File

RECEIVED
Office of Oil and Gas

JUN 27 2017

## 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	7647-01-0
HCI, 10.1-13%		Water	7732-18-5
	Biocide	Alkyl Dimethyl Benzyl Ammonium Chloride (C12-16)	68424-85-1
		Ethanol	64-17-5
Alpha 1427		Glutaraldehyde	111-30-8
		Quaternary Ammonium Chloride	7173-51-5
		Water	7732-18-5
Enzyme G-NE	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3
Liizyiile G-NL		Water	7732-18-5
		Fatty Acids	NA
		Methanol	67-56-1
CI-14	Corrosion Inhibitor	Olefin	NA
		Polyozyalkylenes	NA
		Propargyl Alcohol	107-19-7
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)	14808-50-7
Sand, White, 100 mesh	Proppant	Cystalline Silica (Quartz)	14808-50-7
Scaletrol 720	Scale Inhibitor	Siethylene Glycol	111-46-6

Office of Oil and Gas

JUN 2 7 2017

WV Department of Environmental Protection

TWO WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE WV ONE CALL SYSTEM, INC., 1-800-245-4848 SERIAL # 1400402841

**OWNER** 



707 VIRGINIA STREET SUITE 1200 CHARLESTON, WV 25301

WVDEP OOG CCEPTED AS-BUILT 8/14/2015

## COASTAL

AS-BUILT AND WELL PAD EXPANSION CLAY DISTRICT, MONONGALIA COUNTY, WV

**JULY 2015** 

SHEET INDEX 1. TITLE SHEET 2-3. EVACUATION ROUTE/ PREVAILING WINDS 4. AS-BUILT OVERVIEW 5-17, AS-BUILT

18-20. DETAILS 21. RECLAMATION PLAN OVERVIEW

TOTAL DISTURBED AREA: 47.5 ACRES ROAD DISTURBED AREA: 36.4 ACRES

ACCESS ROAD LENGTH: 7,502' ACCESS ROAD AVG. WIDTH: 21' WELL PAD ELEVATION: 1420'

> API# 6101674 API# 6101675 API# 6101676

> API# 6101680 API# 6101684

> API# 6101685 API# 6101686

> API# 6101687 API# 6101688

22-34. RECLAMATION PLAN WELL PAD DISTURBED AREA: 11.1 ACRES

> API# 6101679 COORDINATES CENTER OF WELLS

> > (NAD 83) LAT: 39° 42' 20.3' LONG: 80° 12' 16.0" (NAD 27) LAT: 39° 42' 20.0" LONG: 80° 12' 16.7'

SITE ENTRANCE (NAD 83) LAT: 39° 41' 42.2" LONG: 80° 13' 22.4" (NAD 27) LAT: 39° 41' 41.9"

LONG: 80° 13' 23.1"

SHEET

OF

34

BOORD, BENCHEK & ASSOCIATES, INC.

ENGINEERING, SURVEYING, CONSTRUCTION AND MINING SERVICE'S SOUTHPOINTE, PA 15317 PHONE: 724-746-1055

PLANS PREPARED BY:



ANDREW BENCHEK

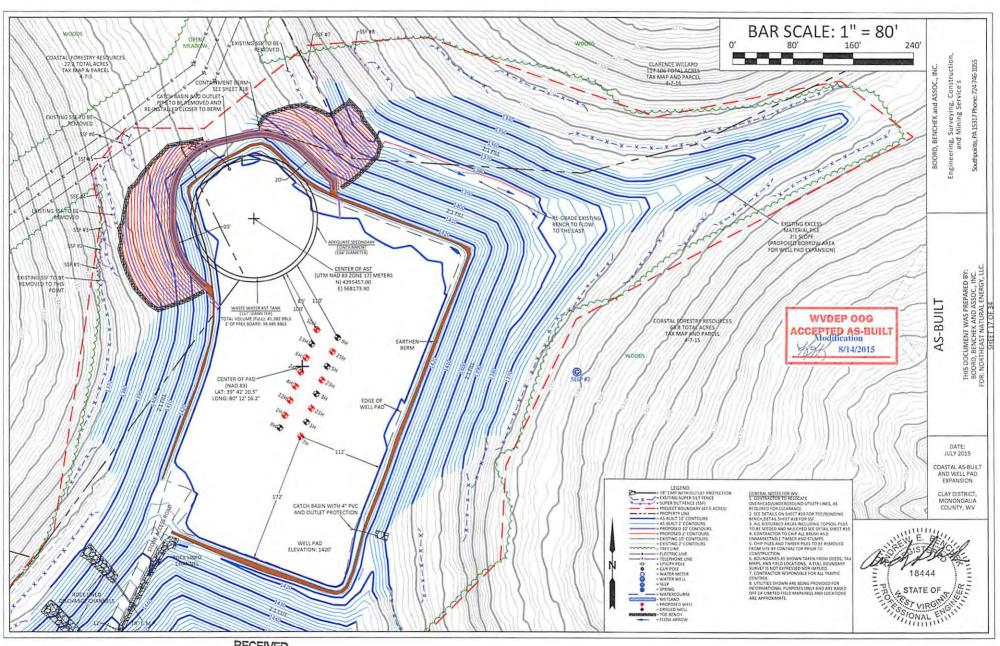
DATE



1"=2000" 6000'

SITE LOCATION MARION TUCKER GILMER RANDOLPH POCAHONTAS TITLE SHEET COASTAL AS-BUILT AND WELL PAD EXPANSION CLAY DISTRICT, MONONGALIA COUNTY, WV MERCER RECEIVED Office of Oil and Gas

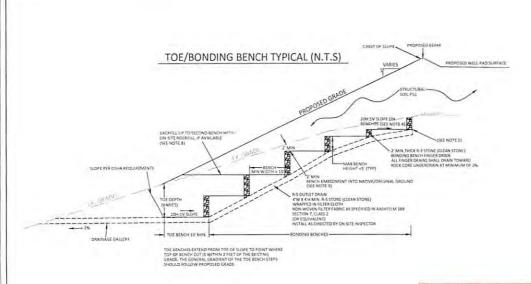
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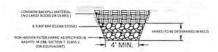
JUN 27 2017

WV Department of Ferrimonmental Protection

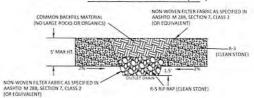


WVDEP OOG
ACCEPTED AS-BUILT
Modification
8/14/2015

#### STONE DRAINAGE GALLERY (NTS)



#### R-5 OUTLET DRAIN DETAIL (NTS)



#### TOE/BONDING BENCH NOTES

TITLE SERVICES PARKER EXPONENTIAL TO FORCE OR COMPETENT MATERIAL REPORT FOR TOTAL MATERIAL REPORT FOR PROPERTY FOR ADDITIONAL DEPTH OF A DESTRUCTION OF THE PROPERTY FOR ADDITIONAL DEPTH OF ADDITIONAL DEPTH OF A DESTRUCTION OF THE PROPERTY FOR ADDITIONAL DEPTH OF ADD

2)AFTER FILLING TO TOP OF BENCH, EXCAVATE TRENCH AND INSTALL R-S DUTLET DRAINS AND DRAINAGE GALLERYS AS DIRECTED BY ON-SITE INSPECTOR.

SIBONOMIS BINCHES SHALLBE EMBEDDED A MINIMUM OF 2 FEET BELOW THE NATIVE/DISIGNAL GROUND SUBFACE EXTERT WHITE FORDS ADJUST THE HEIGHT OF THE BONDING BEAUTY TO SCHOOLOGOTE THE Z FOOT MINIMUM BENCHES OFFI THE PECKAPTION OF COURS AND/OR CARBONACTORS SHALL IN THE TOO OR BONDING BINCHES MAY DISCOUNTED PERCHASION WATER TRILES. PLAYS TO CONTROL, DRAIN, AND TREAT IF RECESSIANT ARE RECOMMENDED.

4)PROVIDE A 20H1V SLOPE ON ALL BENCH BOTTOMS IN THE DIRECTION SHOWN TO DIRECT SLEPAGE INTO BENCH DRAINS PLACED AT THE REAR OF THE BENCH

STERMINATE BONDING BENCHES WHEN THE NATIVE SLOPES ARE FLATTER THAN SH:1V OR A MINIMUM OF 10 FEET BEHIND THE CREST OF SLOPE.

GITHE CONTRACTOR IS RESPONSIBLE FOR SAVETY OF DISCAVATIONS, INCLUDING SEQUENCING OF EINCHING DPERATION, AND SUPES FIRE DUTA SOCRE \$255.550 REQUIREMENTS, TO ALLOW THE APPROPRIATE DISMATERISM SQUALATIONS. THIS WAS REQUIRE STATING EXCHAPTION AT THE MODERATION OF THE BONGING BEYCHES TO REMOVE THE SLOPE OVERBURDEN THAT COULD SUDGE WITO THE SUBSEQUENT TOE BEYCH SECHATION.

PRIVACE STRUCTURAL SOL FILL IN 8 INCH LOSS (IRTS. COMPACT TO A MINIMUM OF 95% OF THE MADMUM part orbits and within 8 Heichtrage points of the optimum most use content as determined in the strandom denoting each to each, in the Luffer 3 Fest of Pall, Compact for a mannium of sothe Marmum det occurry and within 2 exclusively rounds of the optimum most use content as determined by the Strandom point of latter of the content of the primary most user.

BJUNDERDRAIN SHALL BE EXTENDED UP THE CENTER OF THE HOLLOW FROM BELOW THE TOE OF THE FILL TO THE TOP OF THE ORGINAL GROUND SLOPE OR WHERE THE FILL SLOPE INTERSECTS THE CUT LINE.

DATE: JULY 2015

Surveying, Construction, Mining Service's

Engineering, 5

BOORD, BENCHEK and ASSOC., INC.

Southpointe, PA 15317 Phone 724-746-1055

THIS DOCUMENT WAS PREPARED BY: BOORD, BENCHEK AND ASSOC., INC. R: NORTHEAST NATURAL ENERGY, LL

DETAILS

AND WELL PAD EXPANSION

> CLAY DISTRICT, MONONGALIA COUNTY, WV



BENCH DRAIN DETAIL (NTS)

PROPOSED GRADE

PROPOSED GRADE

DRAW STOWE
BLASTONE (TEP)
(ICLAN STOWE)
STED 3 EXCEVANT EMPORATE FRANCE STOWN AND STABLES SOIL
SOIL BENCH

Office of Oil and Gas

JUN 27 2017

