

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

Monday, July 17, 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 JENKINS 18H

47-061-01769-00-00

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.

Operator's Well Number: JENKINS 18H

Farm Name: LOIS A. JENKINS IRREVOCABLE TRUST

James A. Martin

Chief

U.S. WELL NUMBER: 47-061-01769-00-00

Horizontal 6A / New Drill

Date Issued: 7/17/2017

Promoting a healthy environment.

API Number: 61-01769

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: 61-01769

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- 61 O 769
OPERATOR WELL NO. JENKINS 18H
Well Pad Name: JENKINS

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

1) Well Operator: NORTHEAST NA	ATURAL ENERGY LLO	494498281	MONONGALIA C	CLAY BLACKSVILLE
n & n n now, or k eep the or the property of		Operator ID	County	District Quadrangle
2) Operator's Well Number: JE	NKINS 18H	Well P	ad Name: JENKIN	NS .
3) Farm Name/Surface Owner:	LOIS A. JENKINS IRREVOCA	Public Ro	oad Access: MASC	ON DIXON HWY (SR7)
4) Elevation, current ground:	1,128' E	levation, proposed	d post-construction	1,113.77'
5) Well Type (a) Gas X Other	Oil	Un	derground Storage	
(b)If Gas Sha	llow X	Deep		
Hor 6) Existing Pad: Yes or No No	izontal X	_	MIK ST	11/2017
7) Proposed Target Formation(s) Marcellus; 7,921'; 103'; 3,600 p	THE RESERVE THE PARTY OF THE PA	cipated Thickness	and Expected Pres	ssure(s):
8) Proposed Total Vertical Depth	n: 7,921'			
9) Formation at Total Vertical D	epth: Marcellu	s		
(0) Proposed Total Measured De	epth: 20,102.8	4'		
11) Proposed Horizontal Leg Le	ngth: 10,905'			
12) Approximate Fresh Water St	trata Depths:	50'; 1,034'		
13) Method to Determine Fresh	Water Depths:	Driller's Log fron	Offset Wells	
14) Approximate Saltwater Dept	hs: 1,340'; 2,18	32'		
15) Approximate Coal Seam Dep	pths: 830'; 1,03	32'		
16) Approximate Depth to Possi	ble Void (coal m	ine, karst, other):	NA	
17) Does Proposed well location directly overlying or adjacent to			No 2	X
(a) If Yes, provide Mine Info:	Name:			
And the second s	Depth:			
	Seam:			
Office of Oil and Gas	Owner:			

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API NO. 47-61 - 01769

OPERATOR WELL NO. JENKINS 18H

Well Pad Name: JENKINS

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	24"	New	NA	94.71	40'	40'	GTS
Fresh Water	13-3/8"	New	J-55	54.5	1,120'	1,090'	CTS
Coal							
Intermediate	9-5/8"	New	J-55	40	2,280'	2,250'	CTS
Production	5-1/2"	New	P-110	20	20,102.84'	20,072.84'	4,812 Cu. Ft.
Tubing	2-7/8"	New	N-80	6.5	NA	8,500'	NA
Liners							

Malk stulon

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	24"	30"	.375	415		4,500 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	NZ	NA
Liners							

PACKERS

Kind:	
Sizes:	HEDEIVED
Depths Set:	Office of Oil and Gas
	MAY 1 2 2017

WV Department of Environmental Protection

WW-6B (10/14)

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MAY 1 2 2017

API NO. 47- 61 - 61769

OPERATOR WELL NO. JENKINS 18H

Well Pad Name: JENKINS

WV Department of Environmental Protection

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 5,684' TVD/MD. The well will then be horizontally drilled on synthetic based mud from the KOP to approximately 7,921' TVD / 20,102.84' MD along a 149 degree azimuth.

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 18.2
- 22) Area to be disturbed for well pad only, less access road (acres): 9.7

23) Describe centralizer placement for each casing string:

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

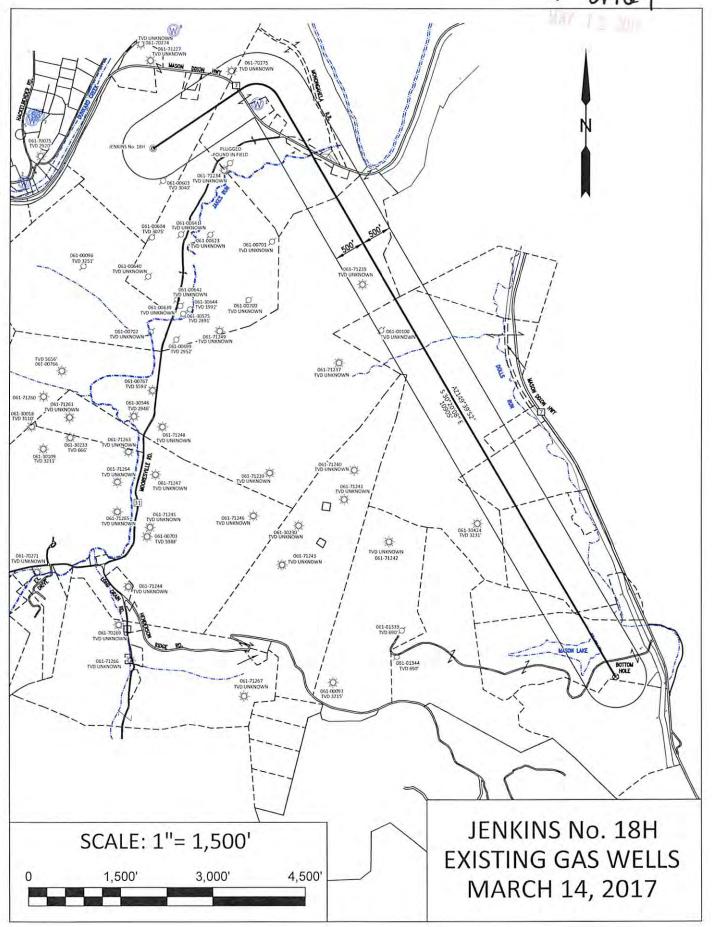
24) Describe all cement additives associated with each cement type:

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

25) Proposed borehole conditioning procedures:

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

*Note: Attach additional sheets as needed.

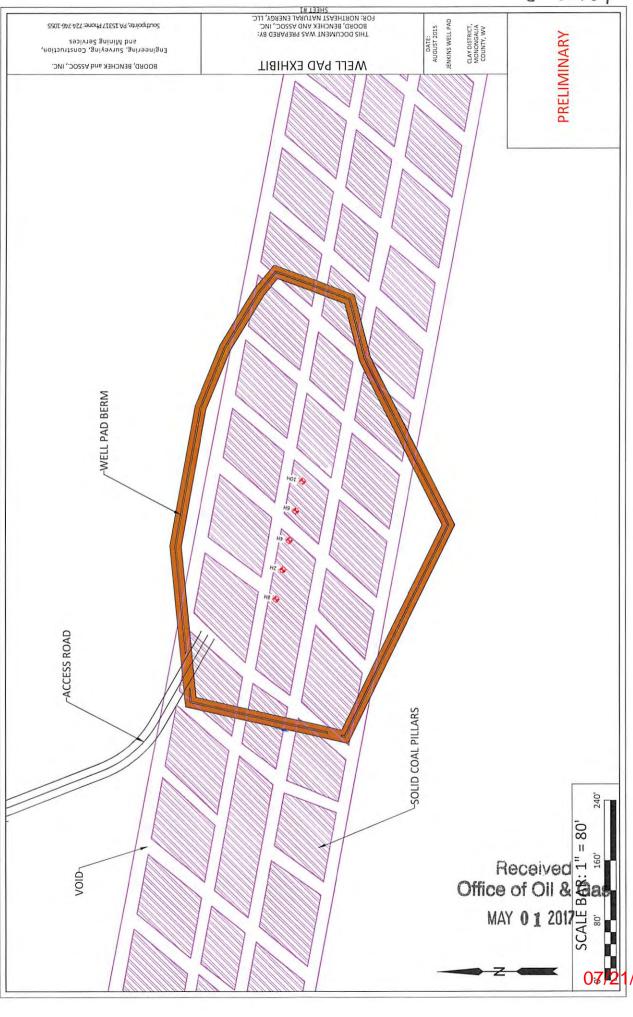


Jenkins 18H Area of Review

API Number	Well Name	Well Number	Operator	Latitude (NAD 27)	Longitude (NAD 27)	TMP	TVD	Producing Formation
				,				- rousenig romanon
47-061-00100	J C Sine	1	Pittsburgh & WV Gas	39.701156	-80.126104	4-05-05	Unknown	Unknow n
47-061-71235	A B Price	NA	Hope Natural Gas Company	39.703187	-80.127231	4-05-03	Unknown	Pre 1929 Well
			Oper in Min.owner fld,no				-	
			code assgn(Orphan well					
47-061-70275	J O & E Price	1	proj)	39.712668	-80.134929	4-03-30	Unknown	Pre 1929 Well

WV Department of Environmental Protection

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Northeast Natural Energy LLC Mine Contingency Plan



On all wells drilled, Northeast Natural Energy LLC ("NNE") has contingency strategies in place should an unanticipated void or mine be encountered while drilling the surface section of the well. If encountered, any accumulated gases will be diverted a safe distance away from the drilling operations through the blooey line and/or flare.

All casings programs submitted to the state incorporate the use of a 24" conductor over the previously used 20" that has long been the industry standard for a typical Marcellus design. The use of 24" conductor casing allows the use of a 22" bit to ream the surface hole, and drill 50' below the void to run a string of 18-5/8" 87.50#/ft J-55 through the section when needed.

The 18-5/8" would be set 30-50' below the void with cement baskets placed directly above and below. The section of pipe below the void would be cemented using the balance method with 100% excess. The section above the void would be cemented separately by using remedial top fill techniques and 30% excess.

With the use of these string sizes and techniques, the surface and intermediate strings do not need to be altered. After a proper WOC time, the surface section of the well would continue to be drilled with a 17-1/2" bit and the 13-3/8" 54.50#/ft freshwater casing would be set at the originally permitted depth.

*The diagram below visually shows the alternative casing plan should an unanticipated void be encountered.

Casing Schematic w/ Mine String

- 24" Conductor Set 10' Below Non-Compacted Soils
- 22" Hole Drilled to 50' Below Void
- 18-5/8" 87.5#/ft. J-55 BTC Set 30'-50' Below
- 17-½" Hote Drilled, 13-3/8" 54.5#/ ft. J-55 BTC/STC Set at Originally Permitted Depth
- Cement-to-Surface
- 12 "M" Hole Drilled, 9-5/8" 40#/ft. J-55 8RD LTC Set at Originally Permitted Depth
- Cement-to-Surface
- 8 %" Drilled, 5-%" 20#/ft. P-110 BTC Set at Originally Permitted Depth
- Cemented Top Minimum 200' Inside of Intermediate Casing

Casing Schematic w/o Mine String

- 24* Conductor Set 10' Below Non-Compacted Soils
 - 17-½" Hole Drilled, 13-3/8" 54.5#/ ft. J-55 BTC/STC Set at Originally Permitted Depth
 - Cement-to-Surface
 - 12 1/2" Hole Drilled, 9-5/8" 40#/ft. J-55 8RD LTC Set at Originally Permitted Depth
 - Cement-to-Surface
 - 8 %" Drilled, 5-%" 20#/ft. P-110 BTC Set at Originally Permitted Depth
 - Cemented Top Minimum 200' Inside of Intermed 1999 IVO

Office of Oil & Gas

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API Number 47 - 41 - 01769

Operator's Well No. JENKINS 18H

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, WV
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No ✓
If so, please describe anticipated pit waste: NA
Will a synthetic liner be used in the pit? Yes No If so, what ml.? NA
Proposed Disposal Method For Treated Pit Wastes:
Land Application
Underground Injection (UIC Permit Number)
Reuse (at API Number_UNKNOWN AT THIS TIME, TBD
Off Site Disposal (Supply form WW-9 for disposal location)
Other (Explain
Will closed loop system be used? If so, describe: YES, PLEASE SEE ATTACHMENT "A"
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. AIR-VERTICAL OIL-BASED- CURVE & HORIZONTAL
-If oil based, what type? Synthetic, petroleum, etc. SYNTHETIC OIL BASED MUD
Additives to be used in drilling medium? ORGANOPHILIC CLAY VISCOSIFIERS, LIME, UNSATURATED FATTY ACIDS, CRICI, BARITE, EMULSIFIERS, MICA LCM, WATER LOSS AGENTS
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. REMOVED OFFSITE - PLEASE SEE ATTACHMENT "A"
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number? PLEASE SEE ATTACHMENT "A"
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 or imprisonment. Company Official Signature
Company Official (Typed Name) HOLLIE MEDLEY
Company Official Title REGULATORY COORDINATOR
Subscribed and sworn before me this ZO day of April , ZO17 , 26 STATE OF WEST VIRGINIA
Notare Public Michael Eisenhauer
156 Meadowridge Townhomes
My commission expires 9 75 7070 My Commission Expires Sep. 25, 2020

NORTHEAST NATURAL ENERGY		61-01769				
Proposed Revegetation Treatment: Acres Disturbed	18.2	Preveget	ation pH 5-7			
Lime 2 Tons/acre or to cor	rect to pH 7					
Fertilizer type 19-19-19	B					
Fertilizer amount 300	lbs/acre					
Mulch 2	Tons/acre					
	Seed Mixture	<u>s</u>				
Temporary			Permanent			
Seed Type Ibs/acre ORCHARD GRASS - 46	OR	Seed Type Ibs/acre ORCHARD GRASS - 46				
RED CLOVER - 8	REI	CLOVER -	- 8			
TETRAPLOID PERENNIAL RYE -	16 TET	TETRAPLOID PERENNIAL RYE - 1				
TIMOTHY - 15 ANNUAL RYE - 15	5 TIM	OTHY - 15	ANNUAL RYE - 15			
Photocopied section of involved 7.5' topographic sheet	et.					
Comments:						
n,						
			22.154			
Title: INSPECTOR	Date:	4/20/2017	Received Office of Oil & Ga			
Field Reviewed? (×) Yes		,	MAY 0 v 2017			

Attachment A to WW-9

Northeast Natural Energy LLC ("NNE") plans to utilize a closed loop process for its drilling of the Jenkins 14H 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.

Jenkins 14H Drill Cuttings will be taken to disposal at one or more of the following disposal/approved waste facilities, unless listed facilities are no longer approved to accept waste at time of disposal:

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

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

- Fairmont Brine Processing (WV NPDES #0116408)
- Green Hunter M. E. Elder 1 Disposal Well (Permit # 47-085-05151)
- Green Hunter Mason 1 Disposal Well (Permit #47-085-09721)
- Green Hunter Warren Disposal Well (Permit #34-121-2-3995)
- Green Hunter Travis Unit Disposal Well (Permit #34-121-2-4086)
- Viking Energy Corporation 20320 Disposal Well (Permit#47-039-02210)
- Ohio Oil Gathering Killbuck Disposal Well (Permit #34-075-24527)
- Ohio Oil Gathering Moran Disposal Well (Permit #34-089-24792)
- Ohio Oil Gathering Bells Run Disposal Well (Permit #34-167-29395)
- Ohio Oil Gathering Long Run Disposal Well (Permit #34-167-29658)
- Ohio Oil Gathering Newell Run Disposal Well (Permit #34-167-296)
- Appalachian Oil Purchaser Greens Run Disposal Well (Permit #2D0732540)
 WAY 0 1 2017.
- Appalachian Oil Purchaser BW#4 Disposal Well (Permit # 2D0732523)



JENKINS 18H SITE SAFETY PLAN

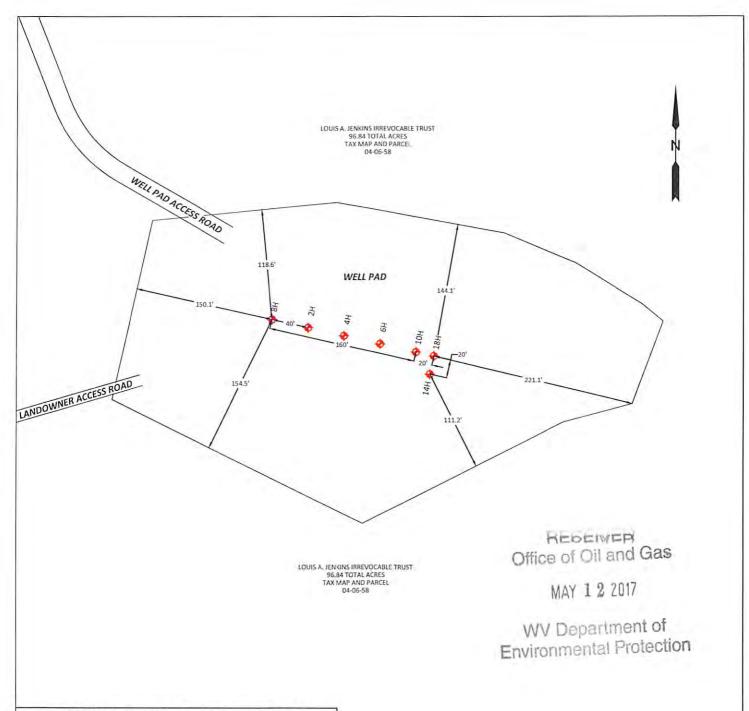
May 2, 2017

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Office of Oil and Gas

5/11/2017

MAY 1 2 2017

WV Department of Environmental Protection





PREPARED FOR

NORTHEAST NATURAL ENERGY LLC

JENKINS WELL PAD

CLAY DISTRICT, MONONGALIA COUNTY, WV PREPARED BY

BOORD BENCHEK & ASSOC., INC.

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

DATE: 4.24.17

LEGEND

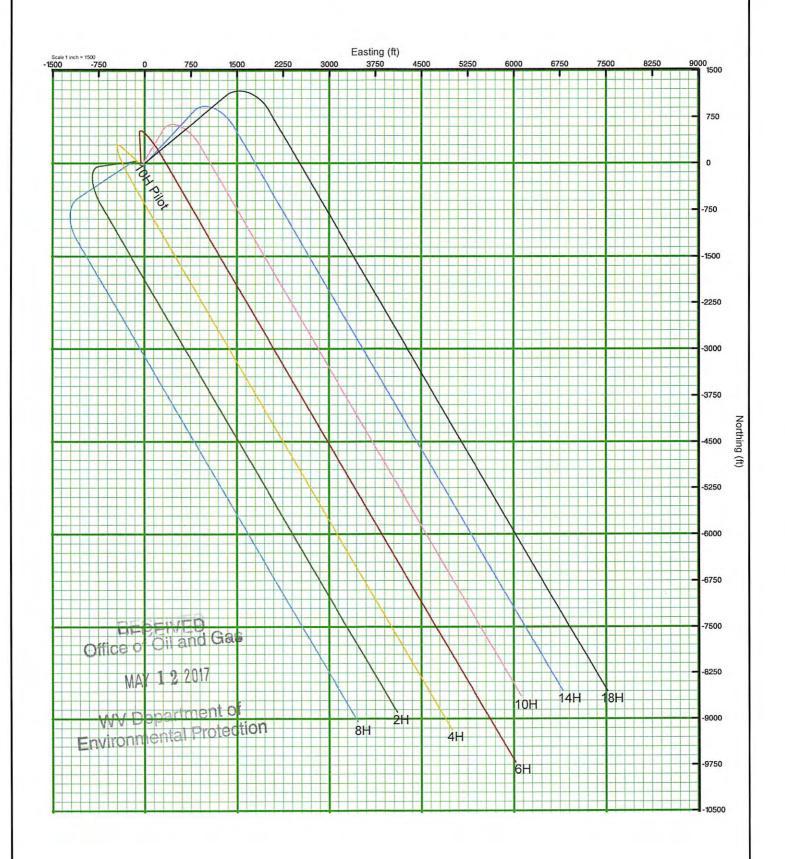
=PROPOSED WELL

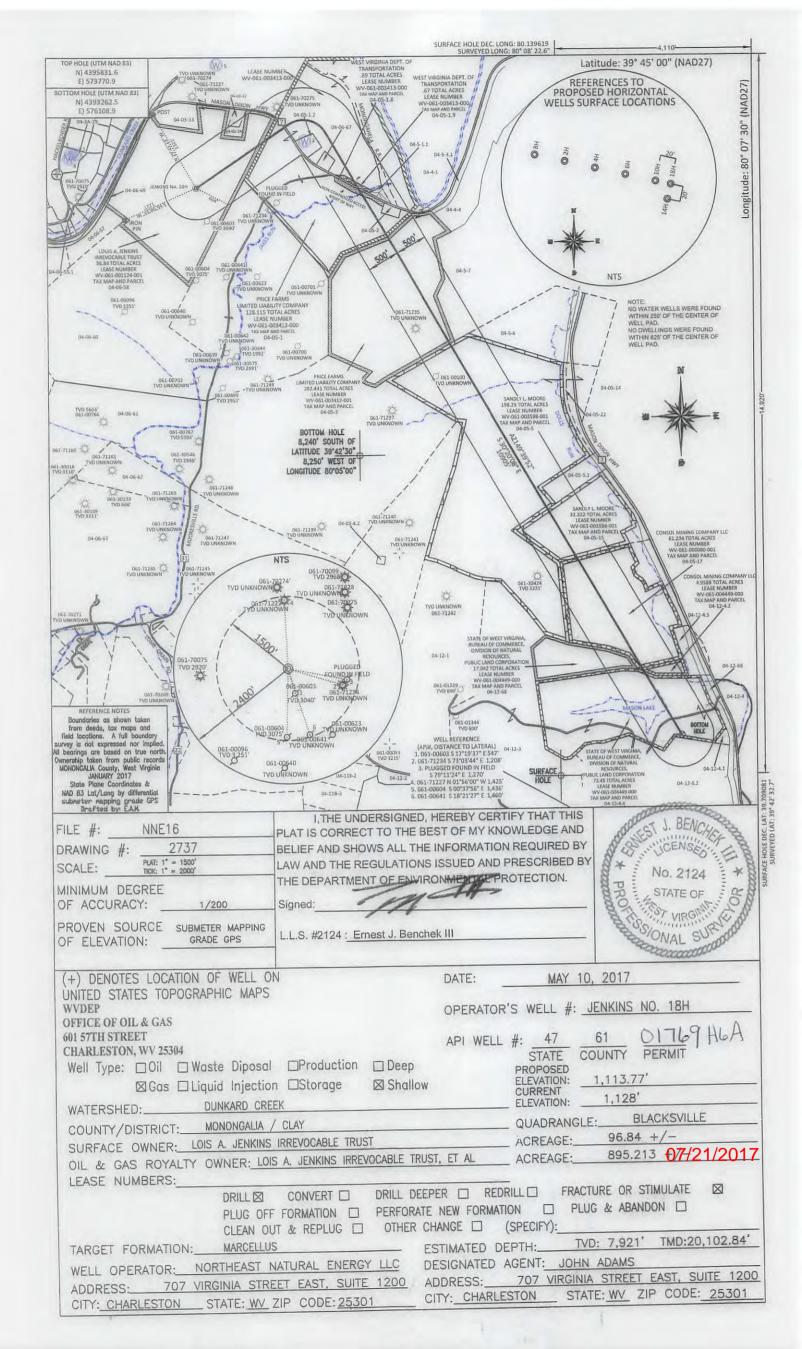
=EXISTING WELL

WELL NUMBER	API NUMBER	STATUS
2H	47-061-01741	PERMITTED
4H	47-061-01742	PERMITTED
6H	47-061-01743	PERMITTED
8H	47-061-01720	PERMITTED
10H	47-061-01725	PERMITTED
14H		PROPOSED
18H		PO77/28472017
		01/21/2017

NORTHEAST NATURAL ENERGY, LLC

Location: Monongalia County, WV Facility: Jenkins Pad





WW-6A1 (5/13)

Operator's Well No.	JENKINS 18H

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

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

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

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

SEE ATTACHMENT

REGEIVED
Office of Oil and Gas

MAY 1 2 2017

WV Department of Environmental Protection

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 COORDINATOR

Page 1 of 3

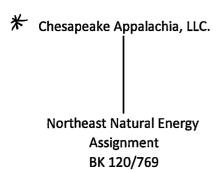
WW-6A1	OPERATOR'S WELL NO.	JENKINS 18H	
Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
JUNIOR JENKINS AND LOIS JENKINS	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1359/668
PRICE FARMS LLC	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1214/037
PRICE FARMS LLC	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1513/301
MOORE, SANDY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1524/30
MOORE, SANDY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1524/30
CNX	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1579/789
WEST VIRGINIA DIVISION OF NATURAL RESOURCES	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1586/640
WEST VIRGINIA DIVISION OF NATURAL RESOURCES	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1586/640
	Grantor, Lessor, etc. JUNIOR JENKINS AND LOIS JENKINS PRICE FARMS LLC PRICE FARMS LLC MOORE, SANDY MOORE, SANDY CNX WEST VIRGINIA DIVISION OF NATURAL RESOURCES	Grantor, Lessor, etc. JUNIOR JENKINS AND LOIS JENKINS *CHESAPEAKE APPALACHIA LLC PRICE FARMS LLC PRICE FARMS LLC MOORE, SANDY MOORE, SANDY NORTHEAST NATURAL ENERGY LLC NORTHEAST NATURAL ENERGY LLC NORTHEAST NATURAL ENERGY LLC WEST VIRGINIA DIVISION OF NATURAL RESOURCES	Grantor, Lessor, etc. JUNIOR JENKINS AND LOIS JENKINS *CHESAPEAKE APPALACHIA LLC PRICE FARMS LLC PRICE FARMS LLC NORTHEAST NATURAL ENERGY LLC MOORE, SANDY NORTHEAST NATURAL ENERGY LLC MOORE, SANDY NORTHEAST NATURAL ENERGY LLC NORTHEAST NATURAL ENERGY LLC NORTHEAST NATURAL ENERGY LLC O.125 OR GREATER NORTHEAST NATURAL ENERGY LLC O.125 OR GREATER

^{*}See Attachment

REGEIVED
Office of Oil and Gas

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WV Department of Environmental Protection



REGEIVED
Office of Oil and Gas

MAY 1 2 2017

WV Department of Environmental Protection



April 28, 2017

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

RE: Jenkins 14H & 18H

Dear Permit Reviewer:

Please be advised that Northeast Natural Energy LLC has the right to drill, extract and produce the minerals beneath the road identified as Mason Dixon Highway (SR 7) on the enclosed survey plat.

Sincerely,

Jeannie Morgan Johnson, CPL

Jonargan gelmm

Vice President - Land Operations

Enclosure

Heceived Office of Oil & Gas MAY 0 i 2017

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

1 -71-01

Date of Notic	ce Certification: 04/28/2017	AF	API No. 47- 061 - 61769				
		Ор	Operator's Well No. 18H				
		W	ell Pad N	ame: JENKIN	S		
	Deen given: te provisions in West Virginia Code { tract of land as follows:	§ 22-6A, the Operator has provide	ed the requ	uired parties v	vith the Notice Forms listed		
State:	WEST VIRGINIA	Fa	sting:	573770.9			
County:	MONONGALIA	IIIM/NAIX	orthing:	4395831.6			
District:	CLAY	Public Road Access:	_		HIGHWAY (SR 7)		
	BLACKSVILLE	Generally used farm		JENKINS			
Watershed:	DUNKARD CREEK						
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and set the owners of the surface described equired by subsections (b) and (c), set surface owner notice of entry to sut of subsection (b), section sixteen of et § 22-6A-11(b), the applicant shall thave been completed by the applicant	ped in subdivisions (1), (2) and action sixteen of this article; (ii) the rvey pursuant to subsection (a), if this article were waived in write ander proof of and certify to the section.	(4), subset at the requestion to iting by t	ection (b), secuirement was en of this arti- he surface ov	ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wner; and Pursuant to West		
	West Virginia Code § 22-6A, the Oprator has properly served the require		Notice Ce	ertification	000 00000000000000000000000000000000000		
*PLEASE CHE	ECK ALL THAT APPLY				OOG OFFICE USE ONLY		
□ 1. NO1	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED SEISMIC ACTIVITY WAS CO			☐ RECEIVED/ NOT REQUIRED		
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or ☐ NO PLAT SURVEY	WAS CO	NDUCTED	☐ RECEIVED		
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLAWAS CONDUCTED or			☐ RECEIVED/ NOT REQUIRED		
		☐ WRITTEN WAIVER BY (PLEASE ATTACH)	SURFAC	E OWNER			
■ 4. NO	ΓICE OF PLANNED OPERATION				☐ RECEIVED		
■ 5. PUE	BLIC NOTICE				☐ RECEIVED		
■ 6. NO	FICE OF APPLICATION				☐ RECEIVED		

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 constitution of the associated Affidavit of Publication. The Advertisement with publication date verification or the associated Affidavit of Publication. The Advertisement with publication date verification or the associated Affidavit of Publication. The Advertisement with publication date verification or the associated Affidavit of Publication. The Advertisement with publication date verification of Notice shall serve as proof that the required parties have been noticed as required to the person may be made by attraction of Notice to the person may be made by attraction of the person may be mad ezopal service, the return receipt card or other postal receipt for certified mailing.

Certification of Notice is hereby given:

have read and understand the notice requirements within West Virginia Code § 22-THEREFORE, I 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:	304-212-0422	Email:	hmedley@nne-llc.
	CHRISTOPHER ALLEN PATTERSON	Subscribed and swo	orn before me this 28th day of April, 2017. Who part Notary Public spires June 18, 2018

Oil and Gas Privacy Notical O

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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WW-6A (9-13) API NO. 47-061-01769
OPERATOR WELL NO. Jenkins 18H
Well Pad Name: Jenkins

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 4/13/2017 Date Permit Application Filed: 4/28/2017 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ PERSONAL ✓ REGISTERED ☐ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION **SERVICE** MAIL Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: M COAL OWNER OR LESSEE FI SURFACE OWNER(s) Name: Please See Attachment Name: Please See Attachment Address: Address: COAL OPERATOR Name: Name: Address: Address: SURFACE OWNER(s) (Road and/or Other Disturbance) Name: Please See Attachment SURFACE OWNER OF WATER WELL Address: AND/OR WATER PURVEYOR(s) Name: Please See Attachment Address: Name: Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Received Address: Name: *Please attach additional forms if necessary Address: MAY 0 1 2017

API NO. 47- 6 - 0 1769
OPERATOR WELL NO. Jenkins 18H
Well Pad Name: Jenkins

Notice is hereby given:

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

This Notice Shall Include:

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

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

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

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

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

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 Programmed reas 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, 108 t to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13) API NO. 47- 61-01769
OPERATOR WELL NO. Jenkins 18H
Well Pad Name: Jenkins

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 57th St. SE
Charleston, WV 25304
(304) 926-0450

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

MAY 0 i 2017

Received

WW-6A (8-13) API NO. 47- 6 | -01769
OPERATOR WELL NO. Jenkins 18H
Well Pad Name: Jenkins

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

Peceived
Office of Oil & Gas
MAY 0 1 2017

WW-6A (8-13)

API NO. 47-61-0109
OPERATOR WELL NO. Jenkins 14H
Well Pad Name: Jenkins

Notice is hereby given by:

Well Operator: Northeast Natural Energy LLC

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

Address: 707 Virginia Street E., Suite 1200

Charleston, WV 25301

Facsimile: 304-241-5972

Oil and Gas Privacy Notice:

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

CHRISTOPHER ALLEN PATTERSON

CARRIED STATES OF THE STATES

Subscribed and sworn before me this 28th day of April, 2017

Notary Public

My Commission Expires June 18, 2018

Received
Office of Oil & Gas
MAY 0 1 2017

61-01769



Jenkins 18H

Surface Owner(s):

Janet G. Coen
Individually and as Trustee of the Lois A. Jenkins Irrevocable Trust
3831 Mason Dixon Highway
Core, WV 26541

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

Janet G. Coen
Individually and as Trustee of the Lois A. Jenkins Irrevocable Trust
3831 Mason Dixon Highway
Core, WV 26541

Amanda K. Jenkins 3887 Mason Dixon Highway Core, WV 26541

Coal Owner or Lessee:

Consol Mining Co. LLC
CNX RCPC, LLC
Engineering & Operations Support – Coal
Attn: Analyst
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317

Murray Energy Corporation
Attn: Alex P. O'Neill
Coal, Oil & Gas Relations Manager
46226 National Road
St. Clairesville, OH 43950

MEPCO, Inc. Attn: Will Oliver Land Manager 308 Dents Run Road Morgantown, WV 26508

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Office of Oil & Gas
MAY 0 1 2017

Jenkins 18H

Elemental Resources LLC 1018 Kanawha Boulevard East, Suite 309 Charleston, WV 25301-2827

Janet G. Coen, Trustee of the Lois A. Jenkins Irrevocable Trust 3831 Mason Dixon Highway Core, WV 26541

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

Delores O. Price 3736 Mason Dixon Highway Core, WV 26541

Michael D. & Sandra K. Eddy 33 Autumn Drive Core, WV 26541

Donald R. Forquer PO Box 34 Pentress, WV 26544

Received
Office of Oil & Gas
MAY 0 1 2017

Water Well Spreadsheet - Jenkins

	Water Source	LAT	LON	ТМ-Р	Owner	Address	City	State	Zip	Distance From Center of Wells
1	Spring	39.710610	80.146051	4-3A-29	Michael D. & Sanda K. Eddy	33 AUTUMN DR	Core	wv	26541	1852
2	Well	39.711187	80.133392	4-5-1.2	Delores O. Price	3736 MASON DIXON HWY	Core	wv	26541	
3	Spring	39.710624	80.146337	4-3A-29	Michael D. & Sanda K. Eddy	33 AUTUMN DR	Core	wv	26541	♣ 50 = 7
4	Well	39.710407	80.146425	4-3A-29	Michael D. & Sanda K. Eddy	33 AUTUMN DR	Core	wv	26541	G835 0
5	Well	39.714419	80.138297	4-3-35	Donald R. Forquer /	PO BOX 34	Pentress	wv	26544	848
										Ž ≥
										*

Jenkins 18H

Surface Owner(s):

Janet G. Coen Individually and as Trustee of the Lois A. Jenkins Irrevocable Trust 3831 Mason Dixon Highway Core, WV 26541

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

Janet G. Coen Individually and as Trustee of the Lois A. Jenkins Irrevocable Trust 3831 Mason Dixon Highway Core, WV 26541

Amanda K. Jenkins 3887 Mason Dixon Highway Core, WV 26541

Coal Owner or Lessee:

Consol Mining Co. LLC
CNX RCPC, LLC
Engineering & Operations Support – Coal
Attn: Analyst
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317

Murray Energy Corporation Attn: Alex P. O'Neill Coal, Oil & Gas Relations Manager 46226 National Road St. Clairesville, OH 43950

MEPCO, Inc. Attn: Will Oliver Land Manager 308 Dents Run Road Morgantown, WV 26508

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Office of Oil & Gas
MAY 0 1 2017

Jenkins 18H

Elemental Resources LLC 1018 Kanawha Boulevard East, Suite 309 Charleston, WV 25301-2827

Janet G. Coen, Trustee of the Lois A. Jenkins Irrevocable Trust 3831 Mason Dixon Highway Core, WV 26541

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

Delores O. Price 3736 Mason Dixon Highway Core, WV 26541

Michael D. & Sandra K. Eddy 33 Autumn Drive Core, WV 26541

Donald R. Forquer PO Box 34 Pentress, WV 26544

Received
Office of Oil & Gas
MAY 0 1 2017

WW-6A3 (1/12)

Operator Well No. Jenkins

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

	Requirement:	Notice shall be prov	vided at least SEVEN (7) da	ys but no more tha	in FORTY-FIVE (45) days prior to
entry Date of Noti	ce: 2/25/2015	Date of Plan	nned Entry: 3/4/2015		
Delivery me	thod pursuant	to West Virginia C	ode § 22-6A-10a		
☐ PERSO	NAL 🔳	REGISTERED	☐ METHOD OF DEI	IVERV THAT BE	FOLURES A
SERVIC		MAIL	RECEIPT OR SIGN		() (T) (T) () ((T) (T) (T) (T) (T) (T) (T) (T) (T) (T) (T) (T) (T) (T) (T)
DERVIC	- L	WATE	RECEIL LOK SIGI	WATCHE CONTIN	dvia 1101v
on to the surf but no more to beneath such owner of min and Sedimen Secretary, when able the su	face tract to conc than forty-five d tract that has fil terals underlying t Control Manua nich statement sl rface owner to o	duct any plat surveys ays prior to such en- ed a declaration pur- g such tract in the co- al and the statutes an nall include contact btain copies from the	s required pursuant to this a try to: (1) The surface owne rsuant to section thirty-six, a punty tax records. The notice and rules related to oil and gatinformation, including the a	rticle. Such notice of such tract; (2) rticle six, chapter the shall include a state of such tracks and provided in the state of the st	r shall provide notice of planned entry shall be provided at least seven days to any owner or lessee of coal seams wenty-two of this code; and (3) any attement that copies of the state Erosion production may be obtained from the tage on the Secretary's web site, to
Notice is her	eby provided to	o:			
■ SURFA	CE OWNER(s)		■ COA	L OWNER OR LE	SSEE
Name: SEE AT				E ATTACHMENT	
Name:				tar America	
Address:			_ II MINI	ERAL OWNER(s)	
Mana			Name: SE	E ATTACHMENT	
Address			Address:		
71441035.			*please attac	h additional forms if ne	ecessary
Pursuant to V	on the tract of la West Virginia	nde § 22-6A-10(a), n and as follows:	Approx. Latit Public Road A Watershed:	ude & Longitude:	l operator is planning entry to conduct 39.709186; -80.139730 (NAD 83) State Route 7 (Mason Dixon Highway) Dunkard Jenkins
may be obtain Charleston, V	ned from the Sec VV 25304 (304-	cretary, at the WV D -926-0450). Copies	I Manual and the statutes an Department of Environmenta	d rules related to o al Protection headq ional information r	il and gas exploration and production uarters, located at 601 57 th Street, SE, related to horizontal drilling may be
Notice is he	reby given by	1			
Well Operato			Address:	707 Virginia Street East	t, Suite 1200
Telephone:	304.212.0422			Charleston, WV 25301	r de la companya de
Email:	hmedley@nne-llo	c.com	Facsimile:	304,414.7061	Danning
	s Privacy Noti		ol information such as nom		Received Office of Oil & Gas

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 Maria course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A3 Attachment

TMP	Surface Owner - Drill Site	Address
6-58	Lois A. Jenkins Irrevocable Trust	3884 Mason Dixon Highway, Core, WV 26541

TMP	Surface Owner - Access Road	Address
6-58	Lois A. Jenkins Irrevocable Trust	3884 Mason Dixon Highway, Core, WV 26541
3-32		

TMP	Mineral Owner	Address
6-58	Lois A. Jenkins Irrevocable Trust	3884 Mason Dixon Highway, Core, WV 26541

TMP	Coal Owner	Address
	Consol Mining Co LLC	1000 Consol Energy Drive, Canonsburg, PA 15317
	CNX RCPC, LLC	
	Engineering & Operations Support - Coal;	
	Attn: Analyst	
	Murray Energy Corporation, Attn: Alex P.	46226 National Road, St. Clairsville, OH 43950
	O'Neill, Coal, Oil & Gas Relations Manager	

Received Office of Oil & Gas MAY 0 1 2017

Operator Well No. Jenkins 18H

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.

Notice Time Date of Noti	Requirement: Notice shall be provided at ce: 04/13/2017 Date Peri	least TEN (10) days prior to filing a mit Application Filed: 04/28/2017	permit application.
Delivery me	thod pursuant to West Virginia Code § 2	2-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVI		UESTED	
receipt reque drilling a hor of this subsec- subsection m and if availab	V. Va. Code § 22-6A-16(b), at least ten day sted or hand delivery, give the surface own izontal well: <i>Provided</i> , That notice given petion as of the date the notice was provided ay be waived in writing by the surface own sole, facsimile number and electronic mail ad treby provided to the SURFACE OW	er notice of its intent to enter upon the pursuant to subsection (a), section to to the surface owner: <i>Provided, hower</i> . The notice, if required, shall includers of the operator and the operat	the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this ude the name, address, telephone number, or's authorized representative.
	G. COEN, Individually		THE LOIS A. JENKINS IRREVOCABLE TROST
The second second second	MASON DIXON HIGHWAY	Address: 3831 MASON DIXO	ON HIGHWAY
COF	RE, WV 26541	CORE, WV 26541	
oursuant to V	reby given: Vest Virginia Code § 22-6A-16(b), notice i		
Pursuant to V he surface ov State:	Vest Virginia Code § 22-6A-16(b), notice i wner's land for the purpose of drilling a hor WEST VIRGINIA	rizontal well on the tract of land as fo — UTM NAD 83 Easting:	bllows: 573770.9
Pursuant to V he surface ov State: County:	Vest Virginia Code § 22-6A-16(b), notice it wher's land for the purpose of drilling a horwest virginia Monongalia	rizontal well on the tract of land as fo — UTM NAD 83 Easting: Northing:	bllows: 573770.9 4395831.6
Pursuant to V he surface ov State: County: District:	Vest Virginia Code § 22-6A-16(b), notice i wner's land for the purpose of drilling a hor WEST VIRGINIA MONONGALIA CLAY	rizontal well on the tract of land as fo UTM NAD 83 Easting: Northing: Public Road Access:	MASON DIXON HIGHWAY (SR 7)
Pursuant to V he surface ov	Vest Virginia Code § 22-6A-16(b), notice it wher's land for the purpose of drilling a horwest virginia Monongalia	rizontal well on the tract of land as fo — UTM NAD 83 Easting: Northing:	bllows: 573770.9 4395831.6
Pursuant to Voles of State: County: District: Quadrangle: Watershed: Pursuant to Vaccimile nursuant to horice	Vest Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a hor WEST VIRGINIA MONONGALIA CLAY BLACKSVILLE	rizontal well on the tract of land as fo UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: notice shall include the name, address perator and the operator's authorized Secretary, at the WV Department of	ollows: 573770.9 4395831.6 MASON DIXON HIGHWAY (SR 7) JENKINS ress, telephone number, and if available, and representative. Additional information f Environmental Protection headquarters,
Pursuant to Vene surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to Vene acsimile number of the content of t	West Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a hortwest virginia MONONGALIA CLAY BLACKSVILLE DUNKARD CREEK Shall Include: West Virginia Code § 22-6A-16(b), this is in the purpose of drilling may be obtained from the light Street, SE, Charleston, WV 25304 (3) reby given by:	Tizontal well on the tract of land as for Easting: Output NAD 83 Easting: Northing: Public Road Access: Generally used farm name: Inotice shall include the name, addrester and the operator's authorize Secretary, at the WV Department of 04-926-0450) or by visiting www.de	ollows: 573770.9 4395831.6 MASON DIXON HIGHWAY (SR 7) JENKINS ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to Vehe surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to Venezimile nurelated to horocated at 6000 Notice is here Well Operator	Vest Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a hortwest virginia MONONGALIA CLAY BLACKSVILLE DUNKARD CREEK Shall Include: West Virginia Code § 22-6A-16(b), this is inher and electronic mail address of the orizontal drilling may be obtained from the 1 57th Street, SE, Charleston, WV 25304 (3 reby given by: IT: NORTHEAST NATURAL ENERGY LLC	rizontal well on the tract of land as for Easting: Northing: Public Road Access: Generally used farm name: notice shall include the name, addrester and the operator's authorized Secretary, at the WV Department of 04-926-0450) or by visiting www.de	ollows: 573770.9 4395831.6 MASON DIXON HIGHWAY (SR 7) JENKINS ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. HOLLIE MEDLEY
Pursuant to Vehe surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to Venezimile nurelated to horocated at 6000 Notice is here Well Operator	Vest Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a hor WEST VIRGINIA MONONGALIA CLAY BLACKSVILLE DUNKARD CREEK Shall Include: West Virginia Code § 22-6A-16(b), this is unber and electronic mail address of the orizontal drilling may be obtained from the 1 57th Street, SE, Charleston, WV 25304 (3) reby given by: IT: NORTHEAST NATURAL ENERGY LLC 707 VIRGINIA STREET EAST, SUITE 1200	Tizontal well on the tract of land as for Easting: Output NAD 83 Easting: Northing: Public Road Access: Generally used farm name: Inotice shall include the name, addrester and the operator's authorize Secretary, at the WV Department of 04-926-0450) or by visiting www.de	ollows: 573770.9 4395831.6 MASON DIXON HIGHWAY (SR 7) JENKINS ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. HOLLIE MEDLEY 48 DONLEY STREET, SUITE 601
Pursuant to Vehe surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to Venezimile numelated to horocated at 60 vehicles. Notice is he Well Operator Address:	Vest Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a hortwest virginia MONONGALIA CLAY BLACKSVILLE DUNKARD CREEK Shall Include: West Virginia Code § 22-6A-16(b), this is more and electronic mail address of the orizontal drilling may be obtained from the 157th Street, SE, Charleston, WV 25304 (3) reby given by: T: NORTHEAST NATURAL ENERGY LLC 707 VIRGINIA STREET EAST, SUITE 1200 CHARLESTON, WV 25301	rizontal well on the tract of land as for Easting: Northing: Public Road Access: Generally used farm name: notice shall include the name, addrestor and the operator's authorized Secretary, at the WV Department of 04-926-0450) or by visiting www.de Authorized Representative: Address:	ollows: 573770.9 4395831.6 MASON DIXON HIGHWAY (SR 7) JENKINS ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. HOLLIE MEDLEY 48 DONLEY STREET, SUITE 601 MORGANTOWN, WV 26501
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Pursuant to Vehe surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to Venezimile numelated to horocated at 60 vehicles. Notice is he Well Operator Address:	Vest Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a hortwest virginia MONONGALIA CLAY BLACKSVILLE DUNKARD CREEK Shall Include: West Virginia Code § 22-6A-16(b), this is more and electronic mail address of the orizontal drilling may be obtained from the 157th Street, SE, Charleston, WV 25304 (3) reby given by: T: NORTHEAST NATURAL ENERGY LLC 707 VIRGINIA STREET EAST, SUITE 1200 CHARLESTON, WV 25301	rizontal well on the tract of land as for Easting: Northing: Public Road Access: Generally used farm name: notice shall include the name, addrestor and the operator's authorized Secretary, at the WV Department of 04-926-0450) or by visiting www.de Authorized Representative: Address:	ollows: 573770.9 4395831.6 MASON DIXON HIGHWAY (SR 7) JENKINS ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. HOLLIE MEDLEY 48 DONLEY STREET, SUITE 601 MORGANTOWN, WV 26501

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 neutral 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 of the process of the pr

WW-6A5 (1/12)

Operator Well No. Jenkins 18H

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

Delivery meth	od pursuant to West Virginia (Code 8	22-6A-16(c)			
	ou pursuant to mest mighna c	cour 8	22-0A-10(c)			
CERTIFI	IED MAIL		HAND			
RETUR	N RECEIPT REQUESTED		DELIVERY			
return receipt rethe planned op required to be purely drilling of a hodamages to the (d) The notices of notice.	Va. Code § 22-6A-16(c), no la equested or hand delivery, give to peration. The notice required by provided by subsection (b), section orizontal well; and (3) A propose surface affected by oil and gas of required by this section shall be by provided to the SURFACE (he surfa this son ten of ed surfa peration given to	ace owner whose land ubsection shall inclused this article to a surface use and compens to the extent the date to the surface owner a	d will be used for de: (1) A copy ace owner whose sation agreement amages are com	or the drilling of a of this code sec se land will be us not containing an apensable under a	a horizontal well notice of ction; (2) The information sed in conjunction with the offer of compensation for rticle six-b of this chapter.
(at the address	listed in the records of the sheriff	f at the	time of notice):			
, tatilities	OEN, Individually and as Trustee of the Lois A. Jenkins Irrevocable Trustee	-/		AMANDA K. JENKINS S: 3887 MASON DIX		
	ASON DIXON HIGHWAY	_ <	Addres	S: 3887 MASON DIX	ON HIGHWAT	
Notice is herek Pursuant to We operation on th	by given: est Virginia Code § 22-6A-16(c), ne surface owner's land for the pu			l well on the tra		
Notice is hereled Pursuant to We operation on the State:	by given: est Virginia Code § 22-6A-16(c), ne surface owner's land for the pu WEST VIRGINIA MONONGALIA		of drilling a horizonta UTM NAD 8	ne undersigned al well on the tra Easting: Northing:	act of land as follo 573770.9 4395831.6	ows:
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Notice is herele Pursuant to We operation on the State: County: District: Quadrangle: Watershed: This Notice She Pursuant to We obe provided norizontal well surface affected information rel	by given: est Virginia Code § 22-6A-16(c), ne surface owner's land for the property of the pro	this no) to a : : and cone exter	Of drilling a horizonta UTM NAD 8 Public Road Generally use otice shall include: (1) surface owner whose ompensation agreement the damages are comined from the Secre	he undersigned al well on the transitions: Basting: Northing: Access: End farm name: Acopy of this is a land will be int containing an ompensable unctary, at the WV	act of land as follo 573770.9 4395831.6 MASON DIXON HIGH JENKINS code section; (2) used in conjunction offer of compering the conference of the compensation of th	The information required ion with the drilling of a nsation for damages to the of this chapter. Additional
Notice is herekensuant to Webperation on the State: County: District: Quadrangle: Watershed: Fhis Notice Sheursuant to Webperation on the State: County: Count	by given: est Virginia Code § 22-6A-16(c), ne surface owner's land for the put west virginia MONONGALIA CLAY BLACKSVILLE DUNKARD CREEK all Include: est Virginia Code § 22-6A-16(c), by W. Va. Code § 22-6A-10(b; ; and (3) A proposed surface used d by oil and gas operations to the lated to horizontal drilling may ocated at 601 57th Street, SE, alt.aspx.	this no) to a : : and cone exter	Of drilling a horizonta UTM NAD 8 Public Road Generally use otice shall include: (1 surface owner whose compensation agreement the damages are covered in the damages are covered in the Secret leston, WV 25304	he undersigned all well on the transitions: Basting: Northing: Access: Ed farm name: Acopy of this er land will be not containing an ompensable underly, at the WV (304-926-0450)	act of land as follo 573770.9 4395831.6 MASON DIXON HIGH JENKINS code section; (2) used in conjunct offer of comper der article six-b of Department of or by visiting to the section of	The information required ion with the drilling of a nsation for damages to the of this chapter. Additional Environmental Protection www.dep.wv.gov/oil-and-
Notice is hereled Pursuant to We operation on the State: County: District: Quadrangle: Watershed: This Notice She Pursuant to We obe provided norizontal well surface affected normation releadquarters, I	by given: est Virginia Code § 22-6A-16(c), ne surface owner's land for the put west virginia MONONGALIA CLAY BLACKSVILLE DUNKARD CREEK all Include: est Virginia Code § 22-6A-16(c), by W. Va. Code § 22-6A-10(b; ; and (3) A proposed surface used d by oil and gas operations to the lated to horizontal drilling may ocated at 601 57th Street, SE, alt.aspx.	this no) to a : : and cone exter	Of drilling a horizonta UTM NAD 8 Public Road Generally use otice shall include: (1) surface owner whose ompensation agreement the damages are comined from the Secre	he undersigned all well on the transitions: Basting: Northing: Access: Ed farm name: Acopy of this er land will be not containing an ompensable underly, at the WV (304-926-0450)	act of land as follo 573770.9 4395831.6 MASON DIXON HIGH JENKINS code section; (2) used in conjunction offer of comperder article six-b of Department of or by visiting the section of	The information required ion with the drilling of a nsation for damages to the of this chapter. Additional Environmental Protection www.dep.wv.gov/oil-and-

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 departive coefficer@wy.gov DEP's Chief Privacy Officer at depprivacyofficer@wv.gov. Office of Oil & Gas

MAY 0 1 2017

API NO. 47- L	1.	0	171	09
OPERATOR WI				_
Well Pad Name:	JENKI	NS		

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.

W W-OA and	attachments consisting of pages one (1) throug the well plat, all for proposed well work on the tra	he Instruction lotice of App	s to Persons N lication, an Ap , including follows:	lamed on Page WW-6A and the associated plication for a Well Work Permit on Form the erosion and sediment control plan, if	
District:	CLAY	Public Road A		MASON DIXON HIGHWAY (SR 7)	
Quadrangle: Watershed:	BLACKSVILLE	Generally use	d farm name:		
issued on thos	that I have no objection to the planned work describe materials.				
	CE OWNER	100		TION BY A NATURAL PERSON	
□ SURFAC	CE OWNER (Road and/or Other Disturbance)	P	Print Name:		
□ SURFAC	CE OWNER (Impoundments/Pits)			TION BY A CORPORATION, ETC.	
■ COAL O	WNER OR LESSEE	C	ompany: MEPCC	ouc	
□ COAL O	PERATOR		y: WILL OLIVER s: LAND MANAGE	R 1/4	
□ WATER	PURVEYOR	s	ignature:	Juli De	
□ OPERAT	TOR OF ANY NATURAL GAS STORAGE	200	ate:	4/20/17	

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 DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

MAY 0 1 2017



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

June 28, 2017

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

Subject: DOH Permit for the Jenkins Pad, Monongalia County Jenkins 18H

Dear Mr. Martin,

Northeast Natural Energy LLC has been issued a permit #04-2015-0508 to access the State Road for a well site located off of West Virginia Route 7 F.

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

Planned Additives to be used in Fracturing Stimulations

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

JENKINS WELL PAD CLAY DISTRICT, MONONGALIA COUNTY, WV **APRIL 2015**



TWO WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE WV ONE CALL SYSTEM, INC., 1-800-245-4848 (WV ONE CALL TICKET#1509217817)

OWNER



APPROVED WVDEP OOG

NAJ 7/22/2015

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

SHEET INDEX

1. TITLE SHEET

2-3. EVACUATION ROUTE/PREVAILING WIND 4. E&S CONTROL LAYOUT OVERVIEW 5-6, E&S CONTROL LAYOUT 7. E&S CONTROL AND SITE PLAN OVERVIEW 8-9. E&S CONTROL AND SITE PLAN 10. WELL PAD CROSS-SECTIONS AND ACCESS ROAD PROFILE

11. PROFILES C-C' AND D-D' 12-13. ACCESS ROAD CROSS-SECTIONS 14-16. DETAIL SHEET 17. RECLAMATION PLAN OVERVIEW 18-19. RECLAMATION PLAN

TOTAL DISTURBED AREA: 18.2 AC. ACCESS ROAD DISTURBED AREA: 8.5 AC. WELL PAD DISTURBED AREA: 9.7 AC.

PROPERTY OWNER DISTURBANCE LOUIS A. JENKINS (4-6-58): 17.9 AC. AMANDA K. JENKINS (4-3-33): 0.3 AC.

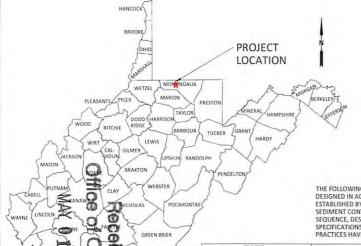
PLANS PREPARED BY:

BOORD BENCHEK & ASSOCIATES, INC.

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



ANDREW BENCHEK P.E.



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

TITLE SHEET

JENKINS WELL PAD CLAY DISTRICT, MONONGALIA COUNTY, WV

SHEET

COORDINATES

SITE ENTRANCE

(NAD 83) LAT: 39° 42' 45.4"

LONG: 80° 08' 17.1" (NAD 27)

LAT: 39° 42' 45.1"

LONG: 80° 08' 17.8" CENTER OF WELLS

(NAD 83)

LAT: 39° 42' 33.0"

LONG: 80° 08' 23.0"

(NAD 27)

LAT: 39° 42' 32.7"

LONG: 80° 08' 23.7'

OF 19

1"=1000"

