

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Monday, July 9, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re: Permit approval for YOST 1H 47-061-01799-00-00

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: YOST 1H

Farm Name: YOST HERITAGE INC.

U.S. WELL NUMBER: 47-061-01799-00-00

Horizontal 6A New Drill Date Issued: 7/9/2018

API Number:	

PERMIT CONDITIONS 4706101799

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

- 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.
- 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:	
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PERMIT CONDITIONS 4706101799

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.



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street Charleston, WV 25304 (304) 926-0450 fax (304) 926-0452 Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

ORDER ISSUED UNDER WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A

TO: Northeast Natural Energy, LLC 707 Virginia Street East Suite 1200 Charleston, WV 25301 DATE: May 16, 2014 ORDER NO.: 2014-W-3

INTRODUCTION

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 et seq. to Northeast Natural Energy, LLC (hereinafter "Northeast Natural Energy" or "Operator"), collectively the "Parties."

FINDINGS OF FACT

In support of this Order, the Chief hereby finds the following:

- OOG, an office within the West Virginia Department of Environmental Protection, is the agency
 with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 et seq., and
 the rules and regulations promulgated thereunder.
- Northeast Natural Energy is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 707 Virginia Street East, Suite 1200, Charleston, WV 25301.
- On March 20, 2014, Northeast Natural Energy submitted permit applications for gas wells identified as API numbers 47-061-01670, 47-061-01671 and 47-061-01673, located on the Yost Pad in Clay District, Monongalia County, West Virginia.
- 4. On March 20, 2014 Northeast Natural Energy requested a waiver for Wetlands #1 and #2, outlined in Exhibit 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for gas well permit applications identified as API numbers: 47-061-01670, 47-061-01671 and 47-061-01673, located on the Yost Pad in Clay District, Monongalia County, West Virginia.

CONCLUSIONS OF LAW

- 1. West Virginia Code §22-1-6(d) requires, in part, that "[i]n addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing."
- 2. West Virginia Code §22-6A-2(a)(6) requires, in part, that "Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter."
- 3. West Virginia Code §22-6A-12(b) requires, in part, that "[n]o 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 Office of Oil and Gas 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 Office of Oil and Gas 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."

ORDER

Therefore, the Office of Oil and Gas grants Northeast Natural Energy, LLC a waiver for Wetlands #1 and #2 from well location restriction requirements in W. Va. Code §22-6A-12(b) for gas well permit applications identified as API numbers 47-061-01670, 47-061-01671 and 47-061-01673 located on the Yost Pad in Monongalia County, West Virginia. The Office of Oil and Gas hereby **ORDERS** that Northeast Natural Energy, LLC shall meet the following site construction and operational requirements for the Yost well pad:

- A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least two feet (2') in height;
- Orange fencing shall be installed on the project boundary to ensure no accidental encroachment happens.
- Filter/silt socks and erosion control blankets shall be installed on all slopes and down gradient locations
 of the pad and topsoil pile areas as erosion and sediment controlling BMPs;
- d. Wetland #1 and #2 shall have a triple compost filter sock stack installed adjacent to the wetland;
- e. As stated by Northeast Natural Energy, a geotechnical inspector will be on site to insure the recommended construction techniques are followed as laid out in the completed geotechnical report.
- f. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- g. Drilling muds shall be disposed of in a permitted landfill;
- Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- j. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½") rain within any twenty-four (24) hour period;
- Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 16th day of May, 2014.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By:

AMES A. MARTIN, CHIEF

API NO. 47-4 7 0	6 1	0 .	1 7	0	0
API NO. 47-470 OPERATOR WELL	NO.	Yost 1H	1 /	3	-
Well Pad Name:	Yost				

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

1) Well Operator: Nor	theast Natural	Energy LLC	494498281	Monongalia	Clay	Blacksville
			Operator ID	County	District	Quadrangle
2) Operator's Well Nur	mber: Yost 11	1	Well P	ad Name: Yost		
3) Farm Name/Surface	Owner: Yost	Heritage I	Public Re	oad Access: Day	ybrook Rd	. 218
4) Elevation, current gr	round: 1,49	2' E	levation, propose	d post-construct	ion: 1,492	1
5) Well Type (a) Gas Other	x X	Oil	Un	derground Stora	ge	
(b)If G	as Shallow	X	Deep			-
6) Existing Pad: Yes or	Horizont No Yes	al X		MAR	5 22 20	018
7) Proposed Target For Marcellus; 8,300'; 12		oth(s), Antic	cipated Thickness	and Expected P	ressure(s):	
8) Proposed Total Vert	ical Depth: 8	,300'				
9) Formation at Total V			S			
10) Proposed Total Me	asured Depth:	16,349.4	5'			
11) Proposed Horizonta	al Leg Length:	7,366'				
12) Approximate Fresh	Water Strata	Depths:	50', 1,378'			
13) Method to Determi	ne Fresh Wate	r Depths:	Driller's Log fron	n Offset Wells		
14) Approximate Saltw	rater Depths:	2,410'				
15) Approximate Coal	Seam Depths:	320', 712'				Offic RECEIVED
16) Approximate Deptl	n to Possible V	oid (coal m	ine, karst, other):	N/A		Office of Oil and Gas MAY 2 3 2018
17) Does Proposed wel directly overlying or ad			Yes	No	, X E	W Department of nvironmental Protection
(a) If Yes, provide M	ine Info: Nar	ne:				
	Dep	oth:				
	Sea	m:				
	Ow	ner:				

API	NO. 474 7 0-6	. 4	f 4	**	0	0
	NO. 474 7 0-4	NO.	Yost 1H	1	J	0
	Well Pad Name:	Yost				

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	N/A	94.71	40'	40'	GTS
Fresh Water	13-3/8"	New	J-55	54.5	1,480'	1,450'	CTS
Coal					N/A	N/A	
Intermediate	9-5/8"	New	J-55	40	2,630'	2,600'	CTS
Production	5-1/2"	New	P-110	20	16,349.45'	16,319.45'	3,773 Cu. Ft.
Tubing	2-7/8"	New	N-8	6.5	N/A	8,500'	N/A
Liners							

MJK 5/22/2018

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	N/A
Fresh Water	13-3/8"	17-1/2"	.38"	2,760	2,000	Type 1	1.18
Coal							
Intermediate	9-5/8"	12-1/4"	.395"	3,950	3,000	Type 1	1.18
Production	5-1/2"	8-3/4"	.361	12,530	9,700	50:50 Proz	1.21
Tubing	2-7/8"	N/A	.217"	10,570	3,600	N/A	N/A
Liners							

PACKERS

Kind:	Office of Oil and Ga
Sizes:	MAY 2 3 2618
Depths Set:	Environmental Protection

WW-6B
(10/14)

API NO. 477 A	6-1 N	1	7	Q	g	_
API NO.4477_0 OPERATOR W	ELL NO.	Yost	1H			_
Mall Dad Nar	na. Yost					

19	Describe 1	proposed	well work	, including	g the d	lrilling and	lplugging	back of a	ıny pilot	hole:

Drilling and completion of a horizontal Marcellus well. The well will be drilled on air to an approximate depth of 6,869.57' TVD/MD. The well will then be horizontally drilled on fluid from KOP to approximately 8,300' TVD / 16,349.45' MD along a 325° 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 100 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): 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 the shoe joint to surface. Production casing will have rigid body centralizers placed at a minimum of every other joint (~160') from TD to surface.

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

Surface string cement will be Type 1 + Max 3% bwoc Calcium Chloride Fresh Water blend. Intermediate string cement will be Type 1 Cement + Max 3% bwoc Calcium Chloride + Fresh Water. Production string cement will be (50:50) Poz (Fly Ash):Type I Cement with a gas migration addition

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.

Universal Pressure Pumping, Inc. Cement Data

Type I, 2% CaCl₂

Typical Use: Conductor, Surface Casing
Typical Area of Application: All Locations

Slurry Properties:

Density: 15.6 #/gal Yield: 1.19 ft³/sk Water Requirement: 5.2 gal/sk

Component	Percentage	Amount per Sack
Type I	100%	94 lb
CaCl ₂	2%	1.88 lb

Temp	50 psi	500 psi	8 hr	12 hr	1 Day	3 Day	7 Day
(F)	(hr:min)	(hr:min)	(psi)	(psi)	(psi)	(psi)	(psi)
60	5:50	13:22	155	406	1276	, , , , , , , , , , , , , , , , , , , ,	
70	2:54	7:55	508	887	1914	3395	
75	1:30	5:33	799	1264	2288		

Temp	8 hr	10 hr	12 hr	1 Day	3 Day
(F)	(psi)	(psi)	(psi)	(psi)	(psi)
60	275	425	625	2300	4175
70	600	900	1175	3150	4775
80	1325	1725	2325	4300	6425

Test	Result	Conditions
Fluid Loss		100F, 1000 psi
Free Water	0.0%	80F, Vertical

Thickening Time to 70 Bc @ 60F & 1000 psi: 3 hr 14 min Thickening Time to 70 Bc @ 70F & 1000 psi: 2 hr 26 min Thickening Time to 70 Bc @ 70F & 1500 psi: 2 hr 10 min Thickening Time to 70 Bc @ 80F & 1000 psi: 1 hr 33 min Thickening Time to 70 Bc @ 80F & 1500 psi: 1 hr 45 min

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The cement data presented above represents the most up-to-date average cement properties for the given blend as of October 2017, under lab conditions. This data should be used as a reference and should not be considered to be absolute. The actual properties of the cement blend used on a job may differ somewhat based on variations in cement, fly ash and water sources.

Note: <u>For internal use only.</u> Technical information contained in this document is property of Universal Pressure Pumping, Inc., and is not to be distributed or copied. Customer information requests must be handled through the Chemical Technology Group.

Universal Pressure Pumping, Inc. Cement Data

Type I, 1% CaCl₂

Typical Use: Conductor, Surface Casing Typical Area of Application: All Locations

Slurry Properties:

Density: 15.6 #/gal Yield: 1.18 ft³/sk Water Requirement: 5.2 gal/sk

Component	Percentage	Amount per Sack
Type I	100%	94 lb
CaCl ₂	1%	0.94 lb

Temp	50 psi	500 psi	8 hr	12 hr	1 Day	3 Day	7 Day
(F)	(hr:min)	(hr:min)	(psi)	(psi)	(psi)	(psi)	(psi)
60	6:48	13:43	112	367	1574		3
65	4:38	10:05	300	732	2646		
70	4:15	9:00	384	953	2808		
80	3:15	6:33	803	1887	3509	5805	

Temp	4 hr	6 hr	8 hr	10 hr	12 hr	1 Day	3 Day
(F)	(psi)						
60	Wet	< 50	200	425	650	2600	5175
70	< 50	75	525	1000	1300	3825	5700
80	< 50	300	1275	1775	2450	4925	7125

Test	Result	Conditions
Fluid Loss		
Free Water	0.3%	70F, Vertical

Thickening Time to 70 Bc @ 70F & 1500 psi: 2 hr 36 min Thickening Time to 70 Bc @ 80F & 1000 psi: 1 hr 53 min Thickening Time to 70 Bc @ 80F & 1500 psi: 1 hr 55 min

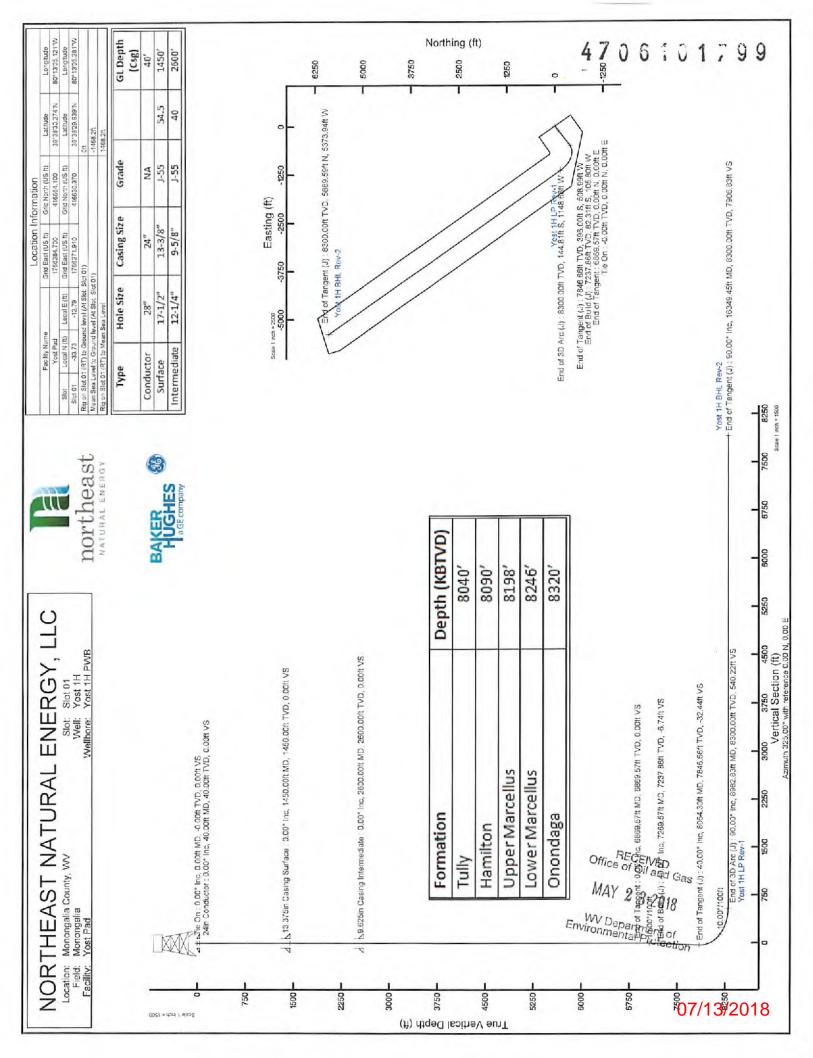
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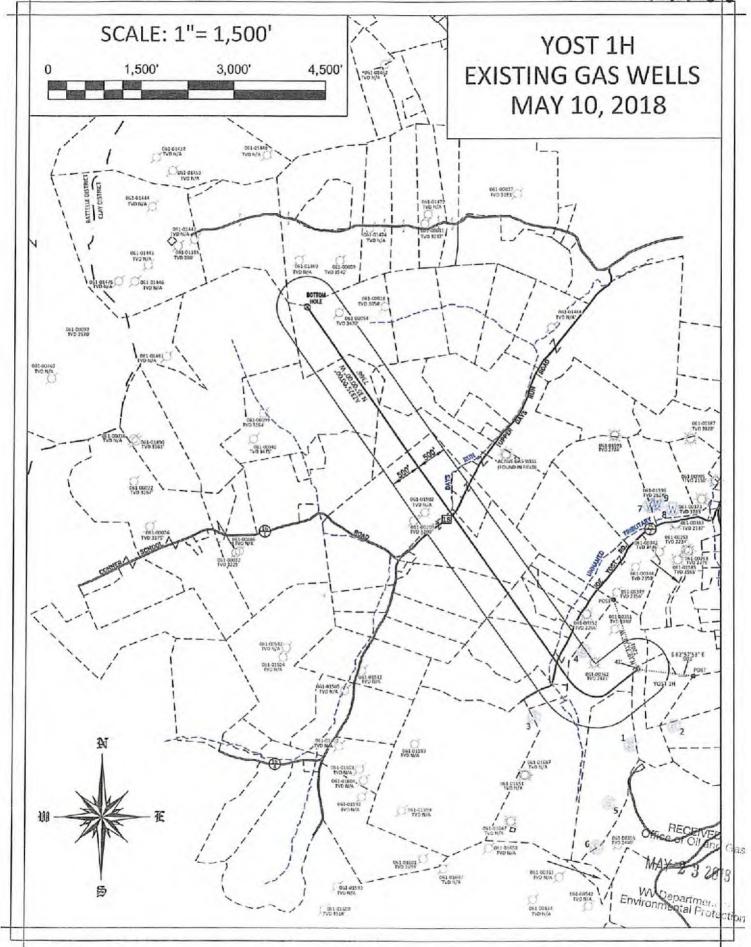
MAY 2 3 2018

WV Department of Environmental Protection

The cement data presented above represents the most up-to-date average cement properties for the given blend as of October 2017, under lab conditions. This data should be used as a reference and should not be considered to be absolute. The actual properties of the cement blend used on a job may differ somewhat based on variations in cement, fly ash and water sources.

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Yost 1H Area of Review

API Number	Well Name	Well Number	Operator	Latitude (NAD 83)	Latitude (NAD 83) Longitude (NAD 83)	dMT	ΟVT	Producing Formation
47-061-01502	Tracy Chisler Hrs	F2-525	Eastern Associated / Peabody Coal Company	39.648621	-80.230452	4-18-41	3,350' Bayard Sand	Plugged on 4-6-2006
			Eastern Associated / Peabody Coal				3,200'	
47-061-00054	Eastern Assoc Coal Corp	1	Company	39.657466	-80.235519	4-18-17	Bayard Sand	Plugged on 2-26-2004
			Eastern Associated / Peabody Coal				3,450'	Plugging Permit Cancelled
47-061-00362	Daybrook Dev	F2-533	Company	39.641081	-80.220134	4-19-43.1	4-19-43.1 Bayard Sand	on 3-18-2016

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WV Department of Environmental Protection

07/13/2018

Northeast Natural Energy LLC Mine Contingency Plan



Casing Schematic w/o Mine String

Set at Originally Permitted Depth

Intermediate Casing

Cemented Top Minimum 200' Inside of

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

8 3/4" Drilled, 5-1/2" 20#/ft. P-110 BTC

Cemented Top Minimum 200' Inside of

Set at Originally Permitted Depth

Intermediate Casing

24" Conductor Set 10' Below 24" Conductor Set 10' Below Non-Compacted Soils Non-Compacted Soils 22" Hole Drilled to 50' Below 18-5/8" 87.5#/ft. J-55 BTC Set 30'-50' Below 17-1/2" Hole Drilled, 13-3/8" 54.5#/ ft. J-55 BTC/STC Set at Originally Permitted Depth 17-1/2" Hole Drilled, 13-3/8" 54.5#/ Cement-to-Surface ft. J-55 BTC/STC Set at Originally Permitted Depth Cement-to-Surface 12 1/4" Hole Drilled, 9-5/8" 40#/ft. J-55 12 1/4" Hole Drilled, 9-5/8" 40#/ftREGEIVED 8RD LTC Set at Originally ###@@to#!Oil and Gas 8RD LTC Set at Originally Permitted Depth Cement-to-Surface Depth FEB 1 5 2018 Cement-to-Surface WV Department of Environmental Protection 8 3/4" Drilled, 5-1/2" 20#/ft, P-110 BTC

WW-9 (4/16)

API Number 47 -

Operator's Well No. Yost 1H

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

Watershed (HUC 10) Dunkard Creek	
	Quadrangle Blacksville, WV
Do you anticipate using more than 5,000 bbls of water to Will a pit be used? Yes No V	complete the proposed well work? Yes 🗸 No
If so, please describe anticipated pit waste: N	
Will a synthetic liner be used in the pit? Yes _	No ✓ If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Was	ites:
Land Application	
Underground Injection (UIC	4 Jan 2 Million 1 May 20 July
Reuse (at API Number unknow	m WW-9 for disposal location)
Off Site Disposal (Supply for Other (Explain	m ww-9 for disposal focation)
Will closed loop system be used? If so, describe: Yes-	See Attachment "A"
	orizontal)? Air, freshwater, oil based, etc. Air-Vertical/Oil Based Curve & Horizontal
-If oil based, what type? Synthetic, petroleum, o	
	Viscosifiers, Lime, Unsaturated Fatty Acids, CaCl, Barite, Emulsifiers, Mica LCM, Water Loss Agents
Drill cuttings disposal method? Leave in pit, landfill, rer	noved offsite, etc. Removed Offsite - See Attachment "A"
-If left in pit and plan to solidify what medium v	will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number? See A	Attachment "A"
Permittee shall provide written notice to the Office of Oil West Virginia solid waste facility. The notice shall be prowhere it was properly disposed.	l and Gas of any load of drill cuttings or associated waste rejected at any ovided within 24 hours of rejection and the permittee shall also disclose
West Virginia solid waste facility. The notice shall be prowhere it was properly disposed. I certify that I understand and agree to the terms on August 1, 2005, by the Office of Oil and Gas of the W provisions of the permit are enforceable by law. Violat law or regulation can lead to enforcement action. I certify under penalty of law that I have persapplication form and all attachments thereto and that obtaining the information, I believe that the information penalties for submitting false information, including the process of the Wester of	s and conditions of the GENERAL WATER POLLUTION PERMIT issues Virginia Department of Environmental Protection. I understand that ions of any term or condition of the general permit and/or other applications of any term or condition of the general permit and/or other applications of any inquiry of those individuals immediately responsible on is true, accurate, and complete. I am aware that there are significant possibility of fine or individuals immediately responsible possibility of fine or individuals. OFFICIAL SEAL MOTARY PUBLIC STATE OF WEST VIRGINIA Justine Bohon Northeast Natural Energy LLC MOTARY PUBLIC STATE OF WEST VIRGINIA Justine Bohon Northeast Natural Energy LLC MOTARY PUBLIC STATE OF WEST VIRGINIA Justine Bohon Northeast Natural Energy LLC MOTARY PUBLIC STATE OF WEST VIRGINIA Justine Bohon Northeast Natural Energy LLC MOTARY PUBLIC STATE OF WEST VIRGINIA Justine Bohon Northeast Natural Energy LLC MOTARY PUBLIC STATE OF WEST VIRGINIA Justine Bohon Northeast Natural Energy LLC MOTARY PUBLIC STATE OF WEST VIRGINIA Justine Bohon Northeast Natural Energy LLC MOTARY PUBLIC STATE OF WEST VIRGINIA Justine Bohon Northeast Natural Energy LLC MOTARY PUBLIC STATE OF WEST VIRGINIA Justine Bohon Northeast Natural Energy LLC MOTARY PUBLIC STATE OF WEST VIRGINIA Justine Bohon Northeast Natural Energy LLC MOTARY PUBLIC STATE OF WEST VIRGINIA Justine Bohon Northeast Natural Energy LLC MOTARY PUBLIC STATE OF WEST VIRGINIA Justine Bohon Northeast Natural Energy LLC MOTARY PUBLIC STATE OF WEST VIRGINIA Justine Bohon Northeast Natural Energy LLC MOTARY PUBLIC STATE OF WEST VIRGINIA Justine Bohon Northeast Natural Energy LLC MOTARY PUBLIC STATE OF WEST VIRGINIA Justine Bohon Northeast Natural Energy LLC MOTARY PUBLIC STATE OF WEST VIRGINIA Justine Bohon Northeast Natural Energy LLC MOTARY PUBLIC STATE OF WEST VIRGINIA Justine Bohon Northeast Natural Energy LLC MOTARY PUBLIC STATE OF WEST VIRGINIA JUSTINE AND MOTARY PUBLIC STATE OF WEST VIRGINIA JUSTINE AND MOTARY PUBLIC STATE OF WEST VIRGINIA JUSTINE AND MOTARY PUBLIC S
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Operator's Well No. Yost 1H

Proposed Revegetation Treatment:	: Acres Disturbed 14.5	Prevegetation pl	unknown
Lime 3	Tons/acre or to correct to	pH 7	
Fertilizer type 10-20-20)	_	
Fertilizer amount 500		lbs/acre	
Mulch 3	Tc	ons/acre	
		Seed Mixtures	
Tempor	rary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	46	Orchard Grass	46
Red Clover	8	Red Clover	8
Tetraploid Perrennia	l Rye 16	Tetraploid Perrennia	l Rye 16
Timothy - 15 and Annu	al Rye- 15	Timothy - 15 and An	nual Rye - 15
Attach: Maps(s) of road, location, pit and porovided). If water from the pit wincreage, of the land application are	proposed area for land ap Il be land applied, include ea.	oplication (unless engineered plans inclue e dimensions (L x W x D) of the pit, and	ding this info have been
Attach: Maps(s) of road, location, pit and porovided). If water from the pit wincreage, of the land application are Photocopied section of involved 7.	proposed area for land ap Il be land applied, include ea.	oplication (unless engineered plans inclu-	ding this info have been
Attach: Maps(s) of road, location, pit and porovided). If water from the pit with acreage, of the land application are Photocopied section of involved 7.	proposed area for land ap Il be land applied, include ea.	oplication (unless engineered plans inclu-	ding this info have been
Attach: Maps(s) of road, location, pit and porovided). If water from the pit wincreage, of the land application are Photocopied section of involved 7.	proposed area for land ap Il be land applied, include ea.	oplication (unless engineered plans inclu-	ding this info have been
Attach: Maps(s) of road, location, pit and porovided). If water from the pit wincreage, of the land application are Photocopied section of involved 7.	proposed area for land ap Il be land applied, include ea.	oplication (unless engineered plans inclu-	ding this info have been
Attach: Maps(s) of road, location, pit and porovided). If water from the pit wincreage, of the land application are Photocopied section of involved 7.	proposed area for land ap Il be land applied, include ea.	oplication (unless engineered plans inclu-	ding this info have been
Attach: Maps(s) of road, location, pit and porovided). If water from the pit wincreage, of the land application are Photocopied section of involved 7.	proposed area for land ap Il be land applied, include ea.	oplication (unless engineered plans inclu-	ding this info have been I dimensions (L x W), and
Attach: Maps(s) of road, location, pit and porovided). If water from the pit wincreage, of the land application are Photocopied section of involved 7.	proposed area for land ap Il be land applied, include ea.	oplication (unless engineered plans inclu-	ding this info have been I dimensions (L x W), and
Attach: Maps(s) of road, location, pit and porovided). If water from the pit wincreage, of the land application are Photocopied section of involved 7.	proposed area for land ap Il be land applied, include ea.	oplication (unless engineered plans inclu-	ding this info have been I dimensions (L x W), and the control of

Attachment A to WW-9

Northeast Natural Energy LLC ("NNE") plans to utilize a closed loop process for its drilling of the Yost 1H 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.

Yost 1H Drill Cuttings will be taken to disposal at one or more of the following disposal/approved waste facilities, unless listed facilities are no longer approved to accept waste at time of disposal:

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

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

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

RECEIVED Office of Oil and Gas

FEB 1 5 2018

WV Department of Environmental Protection



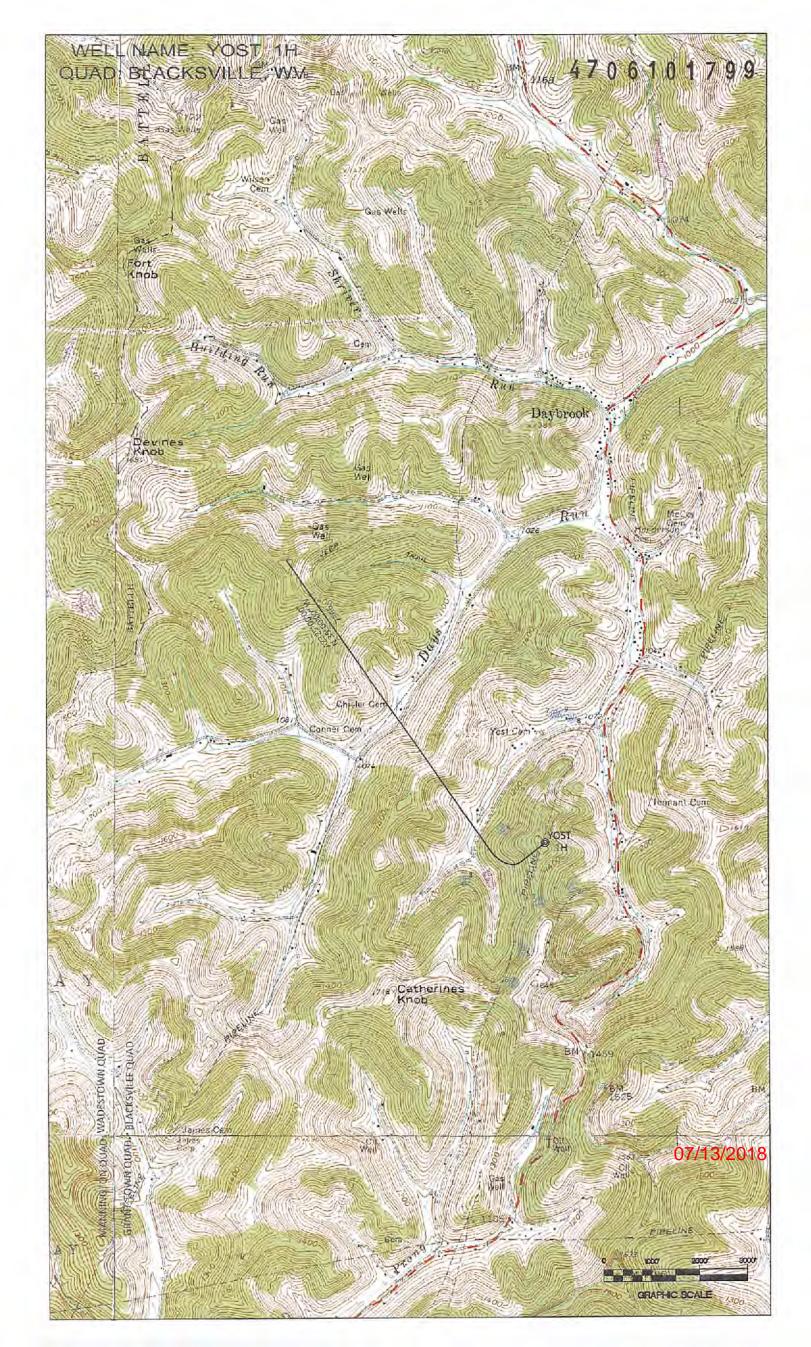
Yost 1H SITE SAFETY PLAN Flagraf 22/2018

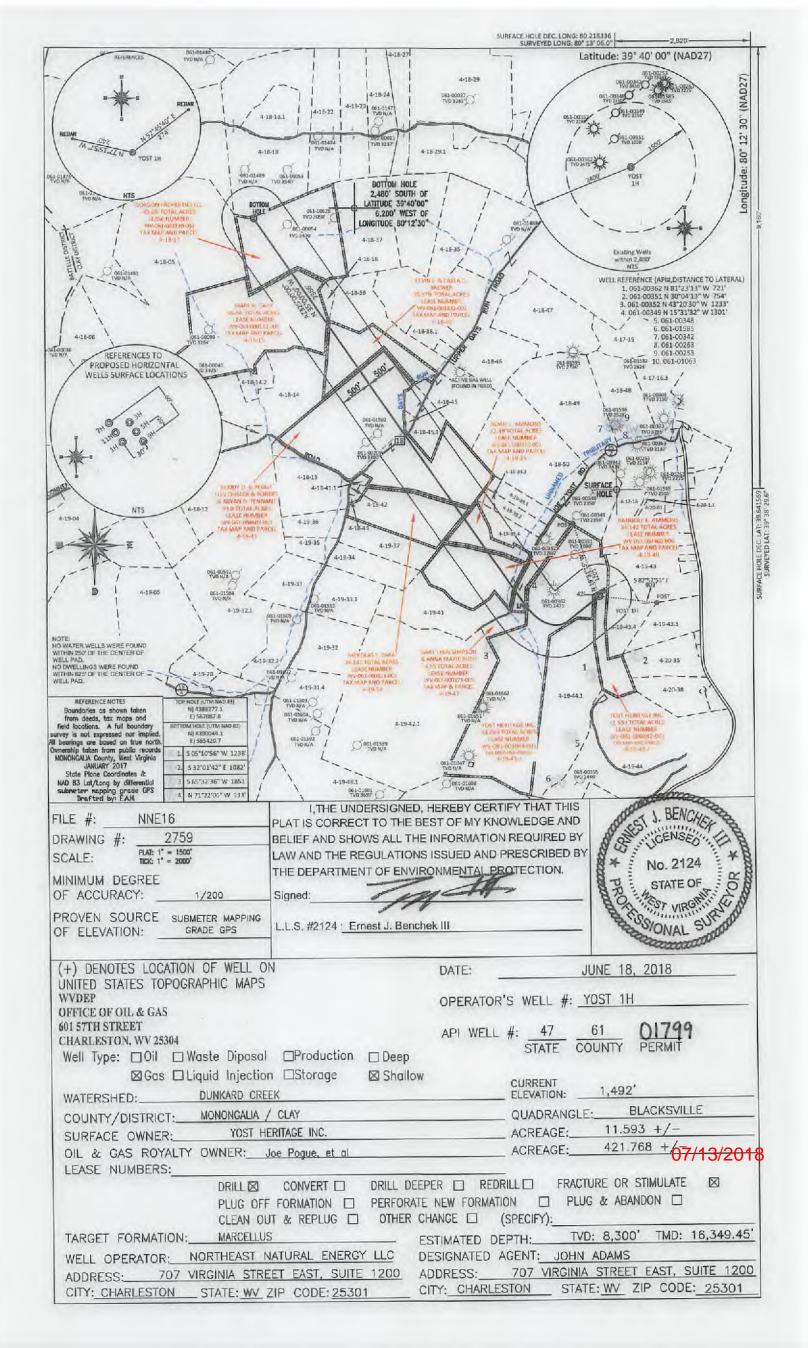
May 11, 2018

RECEIVED Office of Oil and Gas

MAY 2 3 2018

WV Department of Environmental Protection





WW-6A1 (5/13)

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 Nam	e or
Number	

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

Please See Attachments

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 file of Gas permits/approvals should be acquired from the appropriate authority before the affected activity is initiated. 2 3 2018

Well Operator: Northeast Natural Energy LLC

By: Hollie M. Medley

Its: Regulatory Manager

)

mmental Protection

OPERATOR'S WELL NUMBER

YOST NORTH 1H

NNE LEASE NUMBER	LESSOR NAME	LESSEE NAME	ROYALTY	BK/PG
WV-061-000682-001	Joe Pogue	Northeast Natural Energy LLC	0.125 or Greater	1447/839
WV-061-000682-002	Nancy K. Pogue Saurborn	Northeast Natural Energy LLC	0.125 or Greater	1447/835
WV-061-000682-003	Bryan D. Tennant	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-000682-004	Donald L. Tennant	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-000682-005	Clarence L. Tennant	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-000682-006	Donald Spencer Tennant	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-000682-007	Julia Katheryn McKita	Northeast Natural Energy LLC		1449/300
WV-061-000682-009	Thomas A. Tennant	Northeast Natural Energy LLC		1450/455
	Jean Unverdorben, attorney-in-fact for	8, 110	0.220 0. 0.000.	1 100/ 100
WV-061-000682-010	Esther L. Morris	Northeast Natural Energy LLC	0.125 or Greater	1450/457
WV-061-000682-011	Dorothy L. and Phillip Kollar	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-000682-012	Robert Leon Pyles	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-000682-013	John Robert and Victoria Ann Pyles	Northeast Natural Energy LLC	0.125 or Greater	
	7,00	Thorase Hatarar Energy EEC	0.125 Of Greater	1430/433
WV-061-000682-014	Charles H. Morris and Doris Murphy-Morris	Northeast Natural Energy LLC	0.125 or Greater	1452/221
	James Morgan and Avie E. Pyles	Northeast Natural Energy LLC	0.125 or Greater	
001 000002-013	Wilma Gem, Donald Lee, Deborah Ann,	Trockineast Natural Ellergy LLC	0.123 Of Greater	1433/220
W/V-061-000682-016	Roger Keith Williams	North past Notural Energy II C	0.125 or Greater	1 4 5 1 / 5 1 0
WV-061-000682-018	Brian K. Taub	Northeast Natural Energy LLC Northeast Natural Energy LLC	Deed	1451/519
	Robert A. Morris	Northeast Natural Energy LLC		
	David Wayne Cassell			1446/50
·	Pamela Ruth Spark Natho	Northeast Natural Energy LLC		1454/423
	James Lawrence Taub	Northeast Natural Energy LLC		1458/710
WV-061-000682-025		Northeast Natural Energy LLC	Deed	1458/689
		Northeast Natural Energy LLC		1460/125
	Julia Katheryn McKita	Northeast Natural Energy LLC	Deed	1508/003
	James E. Martin	Northeast Natural Energy LLC		1503/659
WV-061-000682-032		Northeast Natural Energy LLC		1503/124
NV-061-000682-033		Northeast Natural Energy LLC	Deed	1515/587
	Charles M. and Deborah Spark	Northeast Natural Energy LLC		1510/710
	Gordon J. Goldthwaite	Northeast Natural Energy LLC		1503/661
WV-061-000682-036		Northeast Natural Energy LLC		1503/540
	Mildred Williams	Northeast Natural Energy LLC		1503/792
WV-061-000682-038	Carol and Dwayne Broadhurst	Northeast Natural Energy LLC		1503/794
	Chad D. Tennant	Northeast Natural Energy LLC		1503/809
	Lawrence and Sharon Morris	Northeast Natural Energy LLC	0.125 or Greater	
	Thomas Andrew and Rosemary Morris	Northeast Natural Energy LLC	0.125 or Greater	<u></u>
	Daniel J. Taub, Sr.	Northeast Natural Energy LLC	0.125 or Greater	
	John F. Gensko	Northeast Natural Energy LLC		1511/548
	Sandra J. and Joseph Swartz	Northeast Natural Energy LLC	0.125 or Greater	1509/769
	Mary Morris, f/k/a Mary E. Pisano	Northeast Natural Energy LLC	0.125 or Greater	1504/758 1505/1950f
VV-061-000682-046	Tonya Billingsley	Northeast Natural Energy LLC	0.125 or Greater	1505/139 _{0f}
	Peter Eves	Northeast Natural Energy LLC	10.125 or Greater	TOUNTOT
	Gary Eves, Jr.	Northeast Natural Energy LLC	0.125 or Greater	1505/183 <i>2</i>
	Clarence Joseph Womer, Jr.	Northeast Natural Energy LLC	0.125 or Greater	1510/76
	Sandra Lou Mason	Northeast Natural Energy LLC	Deed E	1815/Appar
	Lloyd A. and Connie Taub	Northeast Natural Energy LLC	Deed	1517/135 ^{na}
	Paul H. and Barbra Gensko	Northeast Natural Energy LLC	0.125 or Greater	1512/515
	Roger E.and Marjie Goldthwaite	Northeast Natural Energy LLC	0.125 or Greater	1511/769
	Rosemary Pogue	Northeast Natural Energy LLC	Deed	1521/87
	Nancy K. Pogue Saurborn or James Ervin			
VV-061-000682-056	Saurborn	Northeast Natural Energy LLC	Deed	1516/0520
VV-061-000682-057	David Wayne Cassell	Northeast Natural Energy LLC		1521/79

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	The Clarence Llyod Tennant Estate, by Betty				
WV-061-000682-058	Jo Tennant	Northeast Natural Energy LLC	Deed	1521/83	
WV-061-000682-059	Twila Morris Novince	Northeast Natural Energy LLC	Deed	1532/380]
WV-061-003576-001	DWG Oil & Gas Acquisitions, LLC	NNE Properties LLC	Deed	1501/788	1
WV-061-000173-002	Walter Kevin and Maureen L. Huffman	Northeast Natural Energy LLC		1431/204] .
WV-061-000173-004	Judith Ann and Alan Munkittrick	Northeast Natural Energy LLC	0.125 or Greater	1431/206	_
	Lavere Josephine Mason a/k/a Lavere Jo				
WV-061-000173-007	Mason	Northeast Natural Energy LLC	0.125 or Greater	1431/184	
WV-061-000173-011	Peggy A. Mason	Northeast Natural Energy LLC	0.125 or Greater	1437/836	
WV-061-000173-019	Billie C. and Marjorie G. Tennant	Northeast Natural Energy LLC	0.125 or Greater	1437/826]
WV-061-000173-020	Byron J. and Phyllis Robsion	Northeast Natural Energy LLC	0.125 or Greater	1437/455]
WV-061-000173-022	Margaret Anne Stiles	Northeast Natural Energy LLC	Deed	1516/0840	
WV-061-000173-023	William M. Mason	Northeast Natural Energy LLC	Deed	1514/640]
WV-061-000173-024	Betty Lou Tennant Straight	Northeast Natural Energy LLC	Deed	1514/644]
WV-061-000173-025	Joyce Ann and Gene Hebb	Northeast Natural Energy LLC	Deed	1514/648]
WV-061-000173-026	Clark D. Stiles	Northeast Natural Energy LLC	Deed	1514/636	1
WV-061-000173-027	Josephine S. and Zane L. Rush	Northeast Natural Energy LLC	Deed	1514/601	1
WV-061-000173-028	Frank D. and Dorothy M. Vassalo	Northeast Natural Energy LLC	Deed	1523/371]
WV-061-000173-029	Pamela S. and Richard A. Poling	Northeast Natural Energy LLC	Deed	1517/0026	1
	John D. and Frances B. Stiles	Northeast Natural Energy LLC	Deed	1514/616	1
	Anita K. and Nicholas P. Furfari	Northeast Natural Energy LLC	Deed	1523/367	1
WV-061-000173-032	James Jay Vassalo	Northeast Natural Energy LLC	Deed	1523/363	
	Melanie Myers Key	Northeast Natural Energy LLC	Deed	1514/122	1
WV-061-000173-034	Carol J. and James E. Parsons	Northeast Natural Energy LLC	Deed	1516/0836	1
	Mary Louise and Raymond Stiles	Northeast Natural Energy LLC	Deed	1517/0001	1
	Dolores Jean Hockenberry	Northeast Natural Energy LLC	Deed	1510/657	İ
		3,			i
WV-061-000173-037	Diane Marie Myers, f/k/a Diane Marie Sypolt	Northeast Natural Energy LLC	Deed	1510/661	
WV-061-000173-038	Thomas David Stiles	Northeast Natural Energy LLC	Deed	1515/569	1
	Beth Ann and James A. Rouse	Northeast Natural Energy LLC	Deed	1515/0536	1
	Gina L. and Ralph O. Smith	Northeast Natural Energy LLC	Deed	1520/298	
	Zachary L. Mason	Northeast Natural Energy LLC	ļ	1566/283	ļ
	Gregory C. Mason	Northeast Natural Energy LLC		1566/202	İ
	Paulette Park	Northeast Natural Energy LLC	Deed	1574/538	
WV-061-000173-044		Northeast Natural Energy LLC	Deed	1574/545	
WV-061-000173-045		Northeast Natural Energy LLC	0.125 or Greater		
WV-061-000173-046		Northeast Natural Energy LLC	0.125 or Greater		
	Terrance W. and Joy L. Mason	Northeast Natural Energy LLC	0.125 or Greater		
	Gina Lou and Ralph O. Smith	Northeast Natural Energy LLC			
	Debra L. and Bradley S. Frazier	Northeast Natural Energy LLC	0.125 or Greater	1486/630	
	Beth Ann and James A. Rouse	Northeast Natural Energy LLC	0.125 or Greater	1496/570 1100	RECE!
	Beverly Howard	Northeast Natural Energy LLC	Deed	1570/119/1/1570/119/1/1594/5/4/5/000000000000000000000000000000	of Oil VED
		Northeast Natural Energy LLC	Dood	1570/11947	o and Gas
		Northeast Natural Energy LLC	Deed	1570/115	3 2010
		NNE Properties LLC	Deed	1570/119 ⁷⁷ / 1524/MA5 1501/7887000 1578/96	70/8
		Northeast Natural Energy LLC	Deed	1579/06	ment or
		Northeast Natural Energy LLC Northeast Natural Energy LLC	Deed	1579/06	rotection
		South Penn Oil Company	Deed	13/0/30	-97
		Northeast Natural Energy LLC		39/69 1/10/8/3	
		Northeast Natural Energy LLC Northeast Natural Energy LLC	0.125 or Greater 0.125 or Greater		
	Amanda L. Wilson	Northeast Natural Energy LLC			
		Northeast Natural Energy LLC	0.125 or Greater		
		Northeast Natural Energy LLC Northeast Natural Energy LLC		1420/492	
		Northeast Natural Energy LLC Northeast Natural Energy LLC		1530/31	
				1570/119	
		Northeast Natural Energy LLC	0.125 or Greater		
*** * *********************************	nuncipi K. and Tamara 3. Ammons	West Augusta Resources, LLC	0.125 or Greater	1393/550	

WV-061-000110-001	HG Energy II Appalachia LLC	 Northeast Natural Energy LLC	0.125 or Greater	136/420
WV-061-000111-001		Northeast Natural Energy LLC	Agreement	1617/378
WV-061-004607-001		EQT Production Company	0.125 or Greater	1511/683
	The Chisler Family Irrevocable Trust, Linda Jo			
WV-061-004607-002	and Scott L. Chisler, Trustees	EQT Production Company	0.125 or Greater	1514/135
WV-061-003278-001	Chesapeake Appalachia LLC	Chesapeake Appalachia LLC		1487/248
WV-061-003278-002	Statoil USA Onshore Porperties Inc.	*Statoil USA Onshore Properties		1488/748
WV-061-003278-003	Chesapeake Appalachia LLC	Chesapeake Appalachia LLC		1487/236
WV-061-003278-004	Statoil USA Onshore Porperties Inc.	*Statoil USA Onshore Properties	0.125 or Greater	1488/725
WV-061-003278-005	Chesapeake Appalachia LLC	Chesapeake Appalachia LLC	0.125 or Greater	1487/232
WV-061-003278-006	Statoil USA Onshore Porperties Inc.	*Statoil USA Onshore Properties	0.125 or Greater	1488/740
WV-061-003332-001	Robert L. Libert	Northeast Natural Energy LLC	0.125 or Greater	1505/139
WV-061-003332-002	Christina Stitchick	Northeast Natural Energy LLC	0.125 or Greater	1503/800
WV-061-003332-003	Jessica D. McAninch	Northeast Natural Energy LLC		1504/772
WV-061-003332-004	David D. Yost	Northeast Natural Energy LLC		1505/263
WV-061-003332-005	George Edward and Lanelle C. Stiles	Northeast Natural Energy LLC		1505/450
WV-061-003332-006	Jody Lynn and Robert D. Smith	Northeast Natural Energy LLC		1505/495
WV-061-003332-007	Diana L. and Gerald W. Fulps	Northeast Natural Energy LLC		1505/291
WV-061-003332-008	Dennis L. Yost	Northeast Natural Energy LLC		1505/274
WV-061-003332-009	Phillip D. and Melissa Yost	Northeast Natural Energy LLC		1510/714
WV-061-003332-010	Richard Kyle Yost Jr.	Northeast Natural Energy LLC	 	1505/393
WV-061-003332-011	Molly E. Tennant	Northeast Natural Energy LLC		1509/767
WV-061-003332-012	Randy D. Yost	Northeast Natural Energy LLC		1505/499
WV-061-003332-013	Larry Lynn and Regina C. Yost	Northeast Natural Energy LLC		1505/385
WV-061-003332-014	Ida M. Osecky f/k/a Ida M. Yost	Northeast Natural Energy LLC		1505/489
WV-061-003332-015	Barry D. and Elizabeth M. Yost	Northeast Natural Energy LLC		1503/546
~	Danny J. Yost	Northeast Natural Energy LLC	 	1505/389
	Peggy L. Phillips	Northeast Natural Energy LLC		1505/177
·····	Jill Renee and Alan K. Heldreth	Northeast Natural Energy LLC		1503/538
	Jim Fae and Robin R. Yost	Northeast Natural Energy LLC		1532/388
	Norma Jean and Gerald Wayne Stiles	Northeast Natural Energy LLC		1509/544
WV-061-003332-021	Jack Lee and Margaret Jo Yost	Northeast Natural Energy LLC		1509/546
WV-061-003332-022	Nancy A. and Ronnie E. Maggard	Northeast Natural Energy LLC		1509/552
WV-061-003332-023	Scott Mcaninch	Northeast Natural Energy LLC		1506/055
	Connie Sharon and Daniel M. Copeland	Northeast Natural Energy LLC	0.125 or Greater	
		Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003332-028	Ellen R. Yost	Northeast Natural Energy LLC	0.125 or Greater	1509/761
WV-061-003332-029	Carrie M. Tennant	Northeast Natural Energy LLC		
WV-061-003332-030	Betty Gail Sutphin	Northeast Natural Energy LLC	0.125 or Greater 0.125 or Greater	1506/057 Ö
WV-061-003332-032	Charlotte Ann Cayavec	Northeast Natural Energy LLC	0.125 or Greater	1511/614H ह
WV-061-003332-033	Michael Stitchick	Northeast Natural Energy LLC		1523/47(1)
	Shirley L. Moore	Northeast Natural Energy LLC		1529/1120 5
WV-061-003332-035	Rhonda Tennant	Northeast Natural Energy LLC		
	MC Mineral Company LLC, an Oklahoma			1532/590 မြိ
WV-061-003311-001	Limited Liability Company	Chesapeake Appalachia LLC	0.125 or Greater	1487/213
	Margaret Ann Berdine	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003332-025	William Robert Tennant	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003332-031	Robert M. Smith	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-000111-001	EQT Production Company	Northeast Natural Energy LLC		1617/378
WV-061-003310-001	Robert C. Filbey	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003310-002	Wilma Gem Williams	Northeast Natural Energy LLC		1498/606
WV-061-003310-003	Ronald L. Filbey	Northeast Natural Energy LLC		1498/604
	Barry Wayne and Shirley Marlene			
WV-061-003310-004	Hollandsworth	Northeast Natural Energy LLC	0.125 or Greater	1498/598
WV-061-003310-005		Northeast Natural Energy LLC		1492/354
				,

WV-061-003310-006	ludy and John Rose	Northeast Natural Energy LLC	0.125 or Greater	1500/466
	Jane and John Rose	Northeast Natural Energy LLC		1500/466
WV-061-003310-008	Cliff Wilson	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003310-009	Bennie Wilson	Northeast Natural Energy LLC	0.125 or Greater	· · · · · · · · · · · · · · · · · · ·
WV-061-003310-010	Julie A. and Larry Warshaw	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003310-011	Beulah and Edward H. Farley	Northeast Natural Energy LLC	0.125 or Greater	<u> </u>
· · · · · · · · · · · · · · · · · · ·	Mary Virginia and Joseph L. Cole	Northeast Natural Energy LLC	0.125 or Greater	
	Joseph Anthony Haught	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003310-016	W. Richard and Peggy Williams	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003310-018	Larry L. and Lana D. Rush	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003310-019	Tana D. and Robert S. Butler	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003310-020	Sue Ann Strickland	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003310-021	Charles Bradley and Denise Elizabeth Davis	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003310-022	Joyce Ann and Ronald Berga	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003310-023	Rebecca L. and Rodney R. Strahler	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003310-024	James Everett and Lisa W. Williams II	Northeast Natural Energy LLC	0.125 or Greater	1502/670
WV-061-003310-025	Robert Ora and Paula K. Wheeler	Northeast Natural Energy LLC	0.125 or Greater	1502/709
WV-061-003310-027	Karen Jean and Kenneth Taylor	Northeast Natural Energy LLC	0.125 or Greater	1505/397
WV-061-003310-028	Robin K. Walls, Scott T. and Tod A. Tuttle	Northeast Natural Energy LLC	0.125 or Greater	1503/84
WV-061-003310-029	Mary Jane Pemberton	Northeast Natural Energy LLC	0.125 or Greater	1502/750
	Celeste M. Williams a/k/a Celeste M.			
WV-061-003310-030	Frickleton	Northeast Natural Energy LLC	0.125 or Greater	1510/712
WV-061-003310-031	Ellen J. Smith Woodruff	Northeast Natural Energy LLC	0.125 or Greater	1503/655
WV-061-003310-032	Jack L. and Joyce Gail Yost	Northeast Natural Energy LLC	0.125 or Greater	1506/201
WV-061-003310-033	Charles R. and Donna Marie Miller	Northeast Natural Energy LLC	0.125 or Greater	1511/767
WV-061-003310-034	Cheryl Lisabeth and Nelson Dale Gallagher	Northeast Natural Energy LLC	0.125 or Greater	1505/509
WV-061-003310-035	Donald L. and Nancy L. Miller	Northeast Natural Energy LLC	0.125 or Greater	1506/419
WV-061-003310-036	Dennis Keith and Sherry L. Williams	Northeast Natural Energy LLC	0.125 or Greater	1504/746
WV-061-003310-038	Russell D. and Loretta Jo Yost	Northeast Natural Energy LLC	0.125 or Greater	1503/860
WV-061-003310-039	Sue W. and John Meade	Northeast Natural Energy LLC	0.125 or Greater	1505/113
WV-061-003310-041	Susan Lynette and Chester L. Michael	Northeast Natural Energy LLC	0.125 or Greater	1503/868
WV-061-003310-042	Mabel L. McAfee	Northeast Natural Energy LLC	0.125 or Greater	1512/507
WV-061-003310-043	Bruce M. and Shirley N. Tenannt	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003310-045	Wayne Tennant Jr.	Northeast Natural Energy LLC	0.125 or Greater	1510/80
	Mark B. Tennant a/k/a Basil Mark and			
WV-061-003310-046	Cynthia M. Tennant	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003310-048	Daniel Gordon and Kristine A. Dinius		0.125 or Greater	
WV-061-003310-049	Donald Rex and Valerie R. Williams	Northeast Natural Energy LLC	0.125 or Greater	1509/548
	Martha T. Price a/k/a Martha Lee and Jack			
WV-061-003310-050	Edward Price	Northeast Natural Energy LLC	0.125 or Greater	
	Betty C. Lyons	Northeast Natural Energy LLC	0.125 or Greater	
	Kimberly Sue and Daniel Scott Brummage	Northeast Natural Energy LLC	0.125 or Greater	
	James E. and Nancy Kallas	Northeast Natural Energy LLC	0.125 or Greater	
	Roxana D. and Michael B. Chail	Northeast Natural Energy LLC	0.125 or Greater	1506/693 💆 d
	Nola M. Williams	Northeast Natural Energy LLC	0.125 or Greater	1510/25 HO
	Susan Lynn and Todd H. James	Northeast Natural Energy LLC	0.125 or Greater	
	Charles Allan Filbey	Northeast Natural Energy LLC	0.125 or Greater	
	Loretta Gayle Moore	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003310-065		Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003310-066		Northeast Natural Energy LLC	0.125 or Greater	
	Jean Williams	Northeast Natural Energy LLC	0.125 or Greater	
	Bonnie Jo and Benjamin M. Statler	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003310-069		Northeast Natural Energy LLC	0.125 or Greater	
	John W. Stiegemeier	Northeast Natural Energy LLC	0.125 or Greater	1607/52
	Shirley Marlene and Barry Wayne	Name to a second	0435	4 400 /505
WV-061-003312-001	Hollandsworth	Northeast Natural Energy LLC	0.125 or Greater	1498/602

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WV-061-003312-002	Correll W. Cummins	Northeast Natural Energy LLC		1505/511
WV-061-003324-001	Brian E. and Julie B. Davis	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003325-001	Leila Kimberly Wells Fournet	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003325-003	Donald Dean and Kathy Wheeler, Jr.	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003325-004	Dorothy A. Moore	Northeast Natural Energy LLC	0.125 or Greater	1503/104
WV-061-003325-005	David Lee and Laura Wells	Northeast Natural Energy LLC	0.125 or Greater	1502/756
WV-061-003325-006	Marilyn Jane Moore	Northeast Natural Energy LLC	0.125 or Greater	1504/768
WV-061-003325-007	Olivia Keth Wells Sullivan	Northeast Natural Energy LLC	0.125 or Greater	1502/758
WV-061-003325-008	Joyce Walls	Northeast Natural Energy LLC	0.125 or Greater	1502/746
WV-061-003325-009	Susan R. Edwards	Northeast Natural Energy LLC	0.125 or Greater	1503/94
WV-061-003325-010	Linda L. Barker	Northeast Natural Energy LLC	0.125 or Greater	1503/096
WV-061-003325-011	Adrian Kyle and Beverly T. Wells	Northeast Natural Energy LLC	0.125 or Greater	1502/752
	Rhonda E. and Richard K. Taylor	Northeast Natural Energy LLC	0.125 or Greater	1503/645
WV-061-003325-013	Charles J. and Karen Altamore	Northeast Natural Energy LLC	0.125 or Greater	1503/866
WV-061-003325-014	Carole C. and Guy S. Graziano, Jr.	Northeast Natural Energy LLC	0.125 or Greater	
	Robert D. Gump, Jr. and Kelley S. Gump	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003325-016	Fred J. and Barbara Altamore	Northeast Natural Energy LLC	0.125 or Greater	
	Joyce Walls	Northeast Natural Energy LLC	0.125 or Greater	
	Jo and Benjamin M. Statler	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003342-001	Patricia and Richard E. Van Tassell	Northeast Natural Energy LLC		1506/043
WV-061-003357-001	Wilda V. Wells	Northeast Natural Energy LLC	Deed	1516/0576
	Alda Kate Wells	Northeast Natural Energy LLC	Deed	1516/0572
	Reita Hall, c/o Hubert W. Wells	Northeast Natural Energy LLC	Deed	1520/294
W V-001-003337-003	Bob Williams, a/k/a Robert Williams and	Northeast Natural Ellergy LCC	Deed	1320/234
NANA 001 002401 001	Phyllis E. Williams	Northwest National Energy LLC	Deed	1521/31
	Jane Eldred, a/k/a M. Jane and Loren Eldred	Northeast Natural Energy LLC Northeast Natural Energy LLC	Deed	1524/750
	Julie Anne and Larry A. Warshaw	Northeast Natural Energy LLC	Deed	1532/730
WV-061-003561-001			Deed	1532/734
WV-061-003562-001	Gregory David and Kyle L. Williams Vance Williams	Northeast Natural Energy LLC Northeast Natural Energy LLC	Deed	1541/387
WV-061-003709-001				1597/166
WV-061-004620-001	Diana S. Walsh	Northeast Natural Energy LLC		1597/168
	Jeffrey L. Nicholson	Northeast Natural Energy LLC		
WV-061-004620-003	Conrad K. Tenannt, Jr.	Northeast Natural Energy LLC		1597/170
WV-061-004620-004	David Nicholson	Northeast Natural Energy LLC		1597/172
WV-061-004620-005	Deborah A. and Ronald A. Haught	Northeast Natural Energy LLC		1597/174
	Linda Lee Brown	Northeast Natural Energy LLC		1597/176
WV-061-004620-007	Charlotta M. and John A. Simpson	Northeast Natural Energy LLC	0.125 or Greater	1597/178
	Joseph Nicholson	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-004620-009	James Nicholson	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-004693-001	Bernard L. Tennant, Sr.	Northeast Natural Energy LLC		1613/535
WV-061-004693-002	Beulah G. and Edward H. Farley	Northeast Natural Energy LLC	Deed	1613/570
WV-061-004702-001	Robert C. Filbey	Northeast Natural Energy LLC	Deed	1605/317
	Freddie W. and Norma J. Williams	Northeast Natural Energy LLC		1503/872
	Jimmy Randall Tennant	Northeast Natural Energy LLC	0.125 or Greater	1505/123
WV-061-003310-044	Billy Ray and Brenda K. Tennant	Northeast Natural Energy LLC	0.125 or Greater	1505/517
WV-061-003310-047	Rodney Wayne and Pamela K. Tennant	Northeast Natural Energy LLC	0.125 or Greater	1505/115
WV-061-003310-051	Betty C. Lyons	Northeast Natural Energy LLC	0.125 or Greater	1507/493
WV-061-003310-054	Roxana D. and Michael B. Chail	Northeast Natural Energy LLC	0.125 or Greater	1506/693
WV-061-003310-057	Trisha Jones	Northeast Natural Energy LLC	0.125 or Greater	1512/556
WV-061-003310-058	Stephen A. and Sharon C. Jones	Northeast Natural Energy LLC	0.125 or Greater	1511/622
WV-061-003310-059	John C. and Sara Pauline Jones	Northeast Natural Energy LLC		1513/619
WV-061-003310-060	Thomas D. Jones	Northeast Natural Energy LLC	0.125 or Greater	1512/539
WV-061-003310-061	Janet D. Crabtree	Northeast Natural Energy LLC	0.125 or Greater	1513/289
WV-061-003310-062	Loruma B. and David L. Brokaw	Northeast Natural Energy LLC	0.125 or Greater	1513/2910
WV-061-003325-002	Patricia S. Phillips	Northeast Natural Energy LLC		1502070 and
				7000

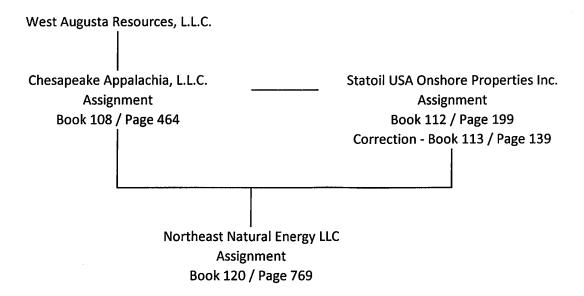
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Edwin Associates, Inc. South Penn Oil Company Assignment Assignment DR 754/594 DR 32/240 South Penn Oil Company Union Trust National Bank, as successor by conversion of Union South Penn Natural Gas Company Trust & Deposit Company Assingment DR 304/547 Edwin Associates, Inc. Edwin Associates, Inc. South Penn Natural Gas Company South Penn Oil Company J. T. Carson Assignment Assignment DR 754/600 DR 580/311 J. T. Carson South Penn Oil Company merged with Pennzoil Company and United Gas Thompson/Texas Associates Partnership Pennzoil United Inc. Assignment DR 754/606 Assignment Thompson/Texas Associates Partnership, Thompson Pipe and Supply Company, Jack O. DR 672/665 Thompson, Harold J. Arnsteen, Equidyne Investment Associates, Inc., individually and as partners and/or joint venturers in that entity known as Thompson/Texas Associates Pennzoil United Inc. Partnership Mark Eddy W. H. Allen Assignment Assignment AR 21/22 DR 695/557 Beth Eddy, Debbie Eddy and Melissa Eddy W. H. Allen Assignment Union Trust & Deposit Company AR 21/582 Beth Stewart, Debbie Morris and Melissa Matheny Assignment DR 695/556 W.H. Allen and James A. Allen Mark V. Eddy Assignment AR 102/275 Mark V. Eddy & Betty Eddy (h&w) & Eddy Brothers

> MAY 2 3 2018 WV Dapartment of Environmental Protection

Northeast Natural Energy LLC Assignment AB 123/363

07/13/2018



EQT Production Company

Northeast Natural Energy Assignment BK 1617/378

> RECEIVED Office of Oil and Gas

MAY 2 3 2018

WV Department of Environmental Protection 07/13/2018

Chesapeake Appalachia, LLC.

4706101799

Northeast Natural Energy Assignment

BK 120/769

RECEIVED Office of Oil and Gas

MAY 2 3 2018

WV Department of Environmental Protection 07/13/2018

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

Northeast Natural Energy
Assignment
BK 120/769



June 18, 2018

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

RE: Yost 1H, 7H, and 11H

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 Conner School Road (County Route 16/1), Upper Days Run Road (County Route 18), County Route 18/3 and Joe Yost Road (County Route 25/2) on the enclosed survey plats.

Sincerely,

Anthony Romeo

Manager - Land Operations

1/2

Enclosure

WW-6AC (1/12)

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

	ce Certification: 02/13/2018	API No. 4	17	
		Operator'	Operator's Well No. Yost 1H	
		Well Pad	Well Pad Name: Yost	
Notice has	been given:			
		§ 22-6A, the Operator has provided the re-	equired parties v	vith the Notice Forms listed
	tract of land as follows:			
State:	West Virginia	UTM NAD 83 Easting:	567087.8	
County:	Monongalia	Northing:		
District:	Clay	Public Road Access:	Daybrook Rd. 21	8
Quadrangle:	Blacksville	Generally used farm name:	Yost	
Watershed:	Dunkard			
information r of giving the requirements Virginia Cod	equired by subsections (b) and (c), s surface owner notice of entry to s of subsection (b), section sixteen	ibed in subdivisions (1), (2) and (4), sub- ection sixteen of this article; (ii) that the r urvey pursuant to subsection (a), section of this article were waived in writing by tender proof of and certify to the secretar- nt.	equirement was ten of this artion the surface ov	deemed satisfied as a result cle six-a; or (iii) the notice vner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the O rator has properly served the require CK ALL THAT APPLY	perator has attached proof to this Notice of ed parties with the following:	Certification	OOG OFFICE USE
TELASE CIT	CRIED HILLIAM			ONLY
		■ NOTICE NOT REQUIRED BECA SEISMIC ACTIVITY WAS CONDUC		ONLY RECEIVED/ NOT REQUIRED
□ 1. NO	TICE OF SEISMIC ACTIVITY OF		CTED	☐ RECEIVED/
□ 1. NO′ ■ 2. NO	TICE OF SEISMIC ACTIVITY OF	SEISMIC ACTIVITY WAS CONDUCTED TO THE SURVEY WAS CONDUCTED	CONDUCTED AUSE	RECEIVED/ NOT REQUIRED
□ 1. NO′ ■ 2. NO	TICE OF SEISMIC ACTIVITY OF	SEISMIC ACTIVITY WAS CONDUCTED OF NO PLAT SURVEY WAS CONDUCTED OF PLAT SUR WAS CONDUCTED OF WRITTEN WAIVER BY SURFA (PLEASE ATTACH)	CONDUCTED AUSE RVEY ACE OWNER	RECEIVED/ NOT REQUIRED RECEIVED RECEIVED/
□ 1. NO′ ■ 2. NO ■ 3. NO	TICE OF SEISMIC ACTIVITY OF	SEISMIC ACTIVITY WAS CONDUCTED OF NO PLAT SURVEY WAS CONDUCTED OF ENTRY FOR PLAT SUR WAS CONDUCTED OF WRITTEN WAIVER BY SURFA (PLEASE ATTACH)	CONDUCTED AUSE RVEY ACE OWNER ECEIVED Gas	RECEIVED/ NOT REQUIRED RECEIVED RECEIVED/
□ 1. NO′ □ 2. NO′ □ 3. NO′ □ 4. NO	FICE OF SEISMIC ACTIVITY OF	SEISMIC ACTIVITY WAS CONDUCTED OF DOTICE NOT REQUIRED BECANOTICE OF ENTRY FOR PLAT SURWAS CONDUCTED OF WRITTEN WAIVER BY SURFA (PLEASE ATTACH)	CONDUCTED AUSE RVEY ACE OWNER COENED Gas of Oil and Gas	RECEIVED/ NOT REQUIRED RECEIVED/ RECEIVED/ NOT REQUIRED

Required Attachments:

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

Certification of Notice is hereby given:

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

Well Operator: Northeast Natural Energy LLC Address: 707 Virginia Street East, Suite 1200 By: Hollie M. Medley Charleston, WV 25301 Facsimile: 304-241-5972 Its: Regulatory Manager Email: Telephone: 304-212-0422 hmedley@nne-llc.com NOTARY SEAL NOTARY PUBLIC
STATE OF WEST VIRGINIA
Justine Bohon
Northeast Natural Energy LLC
48 Donley Street, Suite 601
Morgantown, WV 26501
My Commission Expires Dec. 1, 2022 day of Feloneury Subscribed and sworn before me this Notary Public My Commission Expires

Oil and Gas Privacy Notice:

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

Office of Oil and Gas
FEB 1 5 2018
WW Department of Environmental Protection

WW-6A (9-13)

API NO. 47	
OPERATOR WELL	NO. Yost 1H
Well Pad Name: Yos	t

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: 1/29/2018 Date Permit Application Filed: 2/13/2018 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) ☑ REGISTERED PERSONAL ■ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION 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. RECEIVED ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: Office of Oil and Gas ☑ COAL OWNER OR LESSEE ☐ SURFACE OWNER(s) FEB 1 5 2018 Name: See Attachment Name: See Attachment Address: Address: WV Department of Environmental Protection COAL OPERATOR Name: Name: _____ Address: SURFACE OWNER(s) (Road and/or Other Disturbance) ☑ SURFACE OWNER OF WATER WELL Name: See Attachment AND/OR WATER PURVEYOR(s) Address: Name: See Attachment Address: Name: __ Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Address: Name: Address: *Please attach additional forms if necessary

API NO. 47	
OPERATOR WELL NO.	Yost 1H
Well Pad Name: Yost	

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

Noti	ce Time Requirement:	notice shall be provided no	later than th	e filing date of permit ap	plication.	
	e of Notice: 1/29/2018 Dice of:	Pate Permit Application F	iled: <u>2/9/2018</u>	_		
7	PERMIT FOR ANY WELL WORK	☐ CERTIFICATE CONSTRUCTI		VAL FOR THE MPOUNDMENT OR PIT		
Deli	very method pursuant 1	to West Virginia Code § 2	22-6A-10(b)			
	PERSONAL SERVICE	REGISTERED MAIL		OF DELIVERY THAT RE	=	
sedin the soil and description of the soil and description of the soil and description of the soil and description of the soil and description of the soil and description of the soil and description of the soil and description of the soil and description of the soil and description of the soil and description of the soil and description	ment control plan required urface of the tract on which digas leasehold being devibed in the erosion and seator or lessee, in the event e coal seams; (4) The ownework, if the surface tract is bundment or pit as describe a water well, spring or water well, spring or water well work activity is ection (b) of this section had of the sheriff required is is on of this article to the cer. § 35-8-5.7.a requires, r purveyor or surface owners.	and of delivery that requires and by section seven of this article the well is or is proposed weloped by the proposed weloped by the proposed weloped by the proposed weloped in the tract of land on which the tract of land on which the series of record of the surface the is to be used for the placemes and in section nine of this article article to take place. (c)(1) If more not to take place. (c)(1) If more not interests in the lands, the to be maintained pursuant to contrary, notice to a lien hole, in part, that the operator share subject to notice and water	cle, and the watto be located; Il work, if the ed pursuant to me well proporact or tracts of the edition on thou mals; and (6) than three than three tree applicant may be estion eight der is not notiall also provider testing as provided to the edition of the ed	rell plat to each of the follow (2) The owners of record of surface tract is to be used for subsection (c), section severaged to be drilled is located [soverlying the oil and gas leaden, enlargement, alteration, a surface owner or water purversand five hundred feet of the The operator of any natural lants in common or other coay serve the documents required, article one, chapter elevented the Well Site Safety Plan rovided in section 15 of this	ving persons: (1) The the surface tract or or roads or other lander of this article; (3) sic] is known to be usehold being development, removal or abeyor who is known to e center of the well pass storage field wittowners of interests ired upon the persona of this code. (2) Ne e lien holder is the la ("WSSP") to the surrule.	e owners of record of tracts overlying the disturbance as The coal owner, underlain by one or ped by the proposed candonment of any o the applicant to pad which is used to hin which the described in described in the Jotwithstanding any andowner. W. Va.
	pplication Notice W WRFACE OWNER(s)	VSSP Notice ☐ E&S Plan		Well Plat Notice is here COAL OWNER OR LESS	by provided to: EE	RECEIVED Office of Oil and Gas
Nam	e: See Attachment		Na	me: See Attachment dress:		FEB 1 5 2018
- Auu						_
Nam				COAL OPERATOR	E	WV Department of Invironmental Protection
Add	ress:		Na A d	me:dress:		_
ารเ	JRFACE OWNER(s) (Ro	oad and/or Other Disturban	ice)			_
_	e: See Attachment			SURFACE OWNER OF W	ATER WELL	
Add	ress:			ID/OR WATER PURVEY		
			Na	me: See Attachment		.
Nam	e:		Ad	dress:		_
Addı	ress:			OPERATOR OF ANY NA	TIDAL CASSTO	
12.5	JRFACE OWNER(s) (In	nnoundments or Pits)				
_	e:	-	Ad	me:dress:		_
Addı	ess:	 	Au			_
	**		*p	lease attach additional forn	ns if necessary	_

PINO. 4747 Q 6 1 0 1 7 9 9

OPERATOR WELL NO. You 1H

Well Pad Name: Yost

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 of the 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 anging the partment of 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 the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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API NO. 47-____OPERATOR WELL NO. Yost 1H
Well Pad Name: Yost

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 commence 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

FEB 1 5 2018

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.

API NO. 45-7 0 6 7 0 1 7 9 9
OPERATOR WELL NO. Yost 1H
Well Pad Name: Yost

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.

RECEIVED
Office of Oil and Gas

FEB 1 5 2018

API NO. 47 OPERATOR WELL NO. Yost 1H Well Pad Name: Yost

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 depprivacyofficer@wv.gov.e

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Justine Bohon
Northeast Natural Energy LLC
48 Donley Street, Suite 601
Morgantown, WV 26501
My Commission Expires Dec. 1, 2022

Subscribed and sworn before me this 14 day of 2, 2018.

Notary Public

My Commission Expires

Office of Oil and Gas

FEB 1 5 2018

Yost 1H

Surface Owner(s):

Yost Heritage Inc. 2656 Daybrook Rd. Fairview, WV 26570

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

Yost Heritage Inc. 2656 Daybrook Rd. Fairview, WV 26570

Rocky and Cathy J. Barr 167 Wilson Run Rd. Fairview, WV 26570

Gary D. Yost 2520 Daybrook Rd. Fairview, WV 26570

Freddie C. McCoy, Lois Jean, Amanda Wilson & Maudie Ruth Estate 2677 Mason Dixon HWY Core, WV 26541

4 Brothers LLC 153 Blue Goose Rd. Fairview, WV 26570

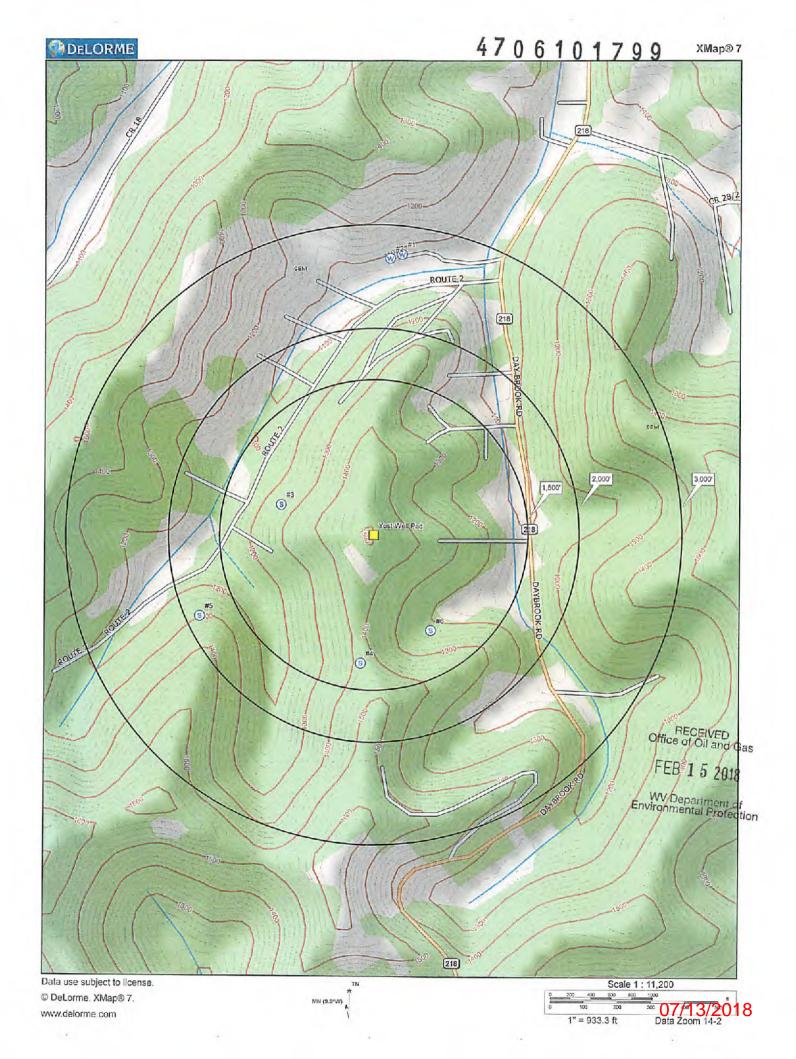
Coal Owner or Lessee:

ERP Federal Mining Complex, LLC 1044 Miracle Run Road Fairview, WV 26570

Surface Owner of Water Well and/or Water Purveyor:

Yost Heritage Inc. 2656 Daybrook Rd. Fairview, WV 26570 Office of Oil and Gas
FEB 1 5 2018

WV Department of Environmental Protection



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		Pre-Dri	III Water Samp	Pre-Drill Water Sample - Yost Well Pad	0
Source	Туре	Landowner	Easting (UTM NAD 83)	Easting (UTM NAD 83) Northing (UTM NAD 83) Latitude (NAD 83)	Latitude (N.
#1	Water Well	Yost Heritage Inc.	567169.27	4389101.22	39.64906
#2	Water Well	Yost Heritage Inc.	567134.7	4389089.01	39.6489608
#3	Spring	Yost Heritage Inc.	566817.03	4388363.41	39.6424484
#4	Spring	Yost Heritage Inc.	567059.5	4387900.69	39.6382605
#5	Spring	Yost Heritage Inc.	566578.37	4388035.06	39.63950
#6	Spring	Yost Heritage Inc.	567267.34	438800.55	39.6391439

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

entry		and the second of the second s	an FORTY-FIVE (45) days prior to
Date of Noti	ce: 7/22/2013 Date of Pla	nned Entry: 7/30/2013	
Delivery me	thod pursuant to West Virginia C	ode § 22-6A-10a	
☐ PERSO	NAL REGISTERED	☐ METHOD OF DELIVERY THAT R	EOLIBES A
SERVIO		RECEIPT OR SIGNATURE CONFIL	
on to the surfiction to the more to be be eath such owner of min and Sedimen Secretary, whenable the su	ace tract to conduct any plat survey han forty-five days prior to such en tract that has filed a declaration pur- erals underlying such tract in the co- t Control Manual and the statutes ar- nich statement shall include contact reface owner to obtain copies from the	Prior to filing a permit application, the operators required pursuant to this article. Such notice try to: (1) The surface owner of such tract; (2) estuant to section thirty-six, article six, chapter bunty tax records. The notice shall include a standard rules related to oil and gas exploration and prinformation, including the address for a web pare secretary.	shall be provided at least seven days to any owner or lessee of coal seams twenty-two of this code; and (3) any tatement that copies of the state Erosion production may be obtained from the
	eby provided to:	COAL OWNER OR LI	Seepp
	CE OWNER(s)		ESSEE
Name: See Att		Name: See Attachment	
Address:			
Vame:			
Address:		_ WIINERAL OWNER(S)	
		Name: See Attachment	
Name:		_ Address:	
Address:		* I I I I I I I I I I I I I I I I I I I	
		*please attach additional forms if n	ecessary
Notice is he	reby given:		
Pursuant to V plat survey State: County:	on the tract of land as follows: West Virginia Monongalia	Approx. Latitude & Longitude: Public Road Access:	State Route 218 (Daybrook Road)
Pursuant to V a plat survey State: County: District:	on the tract of land as follows: West Virginia Monongalia Clay	Approx. Latitude & Longitude: Public Road Access: Watershed;	567095 7; 4388263.9 (UTM NAD 83) State Route 218 (Daybrook Road) Dunkard Creek
Pursuant to V i plat survey State: County:	on the tract of land as follows: West Virginia Monongalia	Approx. Latitude & Longitude: Public Road Access:	567095.7; 4388263.9 (UTM NAD 83) State Route 218 (Daybrook Road)
Pursuant to W i plat survey State: County: District: Quadrangle: Copies of the may be obtain Charleston, W obtained from	west Virginia Monongalia Clay Blacksville state Erosion and Sediment Controlled from the Secretary, at the WV II VV 25304 (304-926-0450). Copies the Secretary by visiting www.deg	Approx. Latitude & Longitude: Public Road Access: Watershed: Generally used farm name: I Manual and the statutes and rules related to of Department of Environmental Protection header of such documents or additional information of the www.gov/oil-and-gas/pages/default.aspx.	State Route 218 (Daybrook Road) Dunkard Creek Yost Dil and gas exploration and production quarters, located at 601 57th Street, SE, related to horizontal drilling may be RECEIVED Office of Oil and Gas
Pursuant to Ware plat survey State: County: District: Quadrangle: Copies of the may be obtain Charleston, Washined from Notice is he Well Operato	west Virginia Monongalia Clay Blacksville state Erosion and Sediment Controlled from the Secretary, at the WV II VV 25304 (304-926-0450). Copies the Secretary by visiting www.deg	Approx. Latitude & Longitude: Public Road Access: Watershed: Generally used farm name: I Manual and the statutes and rules related to operatment of Environmental Protection header of such documents or additional information	State Route 218 (Daybrook Road) Dunkard Creek Yost State Route 218 (Daybrook Road) Dunkard Creek Yost State Route 218 (Daybrook Road) Dunkard Creek Yost State Route 218 (Daybrook Road) Post A State Route 218 (Daybrook Road) Office of Oil and Gas
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Oil and Gas Privacy Notice:

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

Surface Owner(s):

Yost Heritage Inc. 2656 Daybrook Rd. Fairview, WV 26570

Mineral Owner(s):

Yost Heritage Inc. 2656 Daybrook Rd. Fairview, WV 26570

Mabel Cummins 3737 Sawgrass Drive Titusville, FL 32780

Coal Owner(s):

Consolidated Coal Company 1000 CONSOL Energy Drive Canonsburg, PA 15317

RECEIVED
Office of Oil and Gas

FEB 1 5 2018

Date of Notice: 01/29/2018

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 Permit Application Filed: 02/13/2018

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.

Delivery me	thod pursuant to West Virginia	Code § 22-6A-16(b)			
☐ HAND	■ CERTIFIED MA	AII.			
DELIV		EIPT REQUESTED			
Pursuant to Veceipt reque Irilling a horof this subsection mind if available Notice is he Name: Yost He Address: 265	V. Va. Code § 22-6A-16(b), at leasted or hand delivery, give the surtizontal well: <i>Provided</i> , That notice tion as of the date the notice was ay be waived in writing by the surple, facsimile number and electron areby provided to the SURFA of that the surple inc. 8 Daybrook Rd.	ast ten days prior to filing a prace owner notice of its into ice given pursuant to subsect provided to the surface own race owner. The notice, if nic mail address of the opera	ent to enter upon ction (a), section to ener: <i>Provided, ho</i> required, shall inctor and the operate:	the surface owner's land for ten of this article satisfies the owever. That the notice require clude the name, address, telep	the purpose of e requirements rements of this phone number,
Pursuant to Value of the surface of	reby given: Vest Virginia Code § 22-6A-16(b) wner's land for the purpose of dril		e tract of land as f	follows:	t to enter upon
State:	West Virginia	UTM NAD	Easting:	587080.6	
County:	Monongalia	Public Road	Northing:	4388286.9 State Route 218 (Daybrook Road) Yost	
District: Quadrangle:	Clay Blacksville, WV		ised farm name:		
Watershed:	Dunkard	Generally to	iscu faith haine.	1031	
Pursuant to facsimile nur related to ho	Shall Include: West Virginia Code § 22-6A-16(mber and electronic mail address rizontal drilling may be obtained 1 57th Street, SE, Charleston, WV	s of the operator and the o	perator's authoria WV Department	zed representative. Additional of Environmental Protection	al information headquarters,
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Oil and Gas Privacy Notice:

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

WW-6A5 (1/12)

Operator Well No. Yost 1H

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

D. P.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1. 6 22 () 16()				
Delivery	method pursuant to West Virginia C	ode § 22-6A-16(c)				
■ CE	RTIFIED MAIL	☐ HAND				
RI	ETURN RECEIPT REQUESTED	DELIVERY				
return re the plant required drilling of damages (d) The to of notice		ne surface owner whose land wi this subsection shall include: in ten of this article to a surface and surface use and compensation perations to the extent the dama given to the surface owner at the	ill be used for (1) A copy owner whose on agreement iges are comp	or the drilling of a he of this code section to land will be used to containing an offer pensable under artic	orizontal n; (2) The in conju- er of con- tle six-b	well notice of the information notion with the inpensation for of this chapter.
	hereby provided to the SURFACE O ldress listed in the records of the sheriff					
Account to the second	ease See Attachment	Name:				
Name: Pl	ease See Attacriment	. /				
Address: Notice is Pursuant	hereby given: to West Virginia Code § 22-6A-16(c), 1	Address:	indersigned v	well operator has de	veloped	a planned
Notice is Pursuant operation State: County:	to West Virginia Code § 22-6A-16(c), representation on the surface owner's land for the pure Mest Virignia	Address:	ell on the tra Easting: Northing:	ot of land as follows 567087.8 4388277.1	s:	-
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Address: Notice is Pursuant	to West Virginia Code § 22-6A-16(c), in on the surface owner's land for the pure Monongalia Clay Blacksville, WV	Address:	ell on the tra Easting: Northing: eess:	ot of land as follows 567087.8 4388277.1	s:	-
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Surface Owner(s):

Yost Heritage Inc. 2656 Daybrook Rd. Fairview, WV 26570

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

Yost Heritage Inc. 2656 Daybrook Rd. Fairview, WV 26570

Rocky and Cathy J. Barr 167 Wilson Run Rd. Fairview, WV 26570

Gary D. Yost 2520 Daybrook Rd. Fairview, WV 26570

Freddie C. McCoy, Lois Jean, Amanda Wilson & Maudie Ruth Estate 2677 Mason Dixon HWY Core, WV 26541

4 Brothers LLC 153 Blue Goose Rd. Fairview, WV 26570

> RECEIVED Office of Oil and Gas

FEB 1 5 2018

WW-6AW (1-12)

API NO. 47-	
OPERATOR WELL NO.	Yost 1H
Well Pad Name: Yost	

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 real ted 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	a Notice of Applic ough	eation, an Ap _, including llows: Easting:	plication for a Well Work Permit on Form the erosion and sediment control plan, if	
County: District:	Monongalia Clav	Public Road Ac	Northing:	4388277.1	
Quadrangle:	1 done Ros		farm name:	State Route 218 (Daybrook Road) Yost	
Watershed:	Dunkard Generally us		used farm name.		
*nt1 1	A DE LOS ANDES DE LA CONTRACTOR DE LA CO				
	the box that applies			ION BY A NATURAL PERSON	
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☐ SURFAC	CE OWNER CE OWNER (Road and/or Other Disturban CE OWNER (Impoundments/Pits) OWNER OR LESSEE	ce) Sig Prin Dat FO Con	nature: AG nt Name: Ga te: 2-1- R EXECUT: npany:	ION BY A CORPORATION, ETC. RECEIVED Office of Oil and Gas	
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WW-6AW (1-12)

API NO. 47	
OPERATOR WELL NO.	Yost 1H
Well Pad Name: Yost	

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

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I,	WOLUNTARY STA			JECTION amed on Page WW-6A and the associated	
WW-6A and	sted above, and that I have received copies of attachments consisting of pages one (1) the the well plat, all for proposed well work on the	a Notice of Applic	ation, an Ap	plication for a Well Work Permit on Form the erosion and sediment control plan, if	
State:	West Virginia		Easting:	567087.8	
County:	Moriongalia	UTM NAD 83	Northing:	4386277.1	
District:	Clay	Public Road Ac	cess:	State Route 218 (Daybrook Road)	
Quadrangle: Watershed:	Blacksville, WV Dunkard	Generally used	farm name:	Yost Office of Oil and G	
		L RO	n rynará	I have no objection to a permit being 5 2018	
	the box that applies CE OWNER			ON BY A NATURAL PERSOnental Protection	
	CE OWNER (Road and/or Other Disturbation		nature: // nt Name: // te: Fel	ANIA FONTNEY	
□ SURFAC	CE OWNER (Impoundments/Pits)		1 (12	177000	
	OWNER OR LESSEE	Cor	mpany: ERP Fee	ION BY A CORPORATION, ETC. deral Mining Complex, LLC	
□ COAL C	PERATOR	By: Its:	115	CE President	
□ WATER	PURVEYOR	4.75	nature:	and fits	
□ OPERA	TOR OF ANY NATURAL GAS STORAG	GE FIELD Dat	e:	7-2014	

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Earl Ray Tomblin Governor

January 25, 2018

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 Yost Pad, Monongalia County Yost 1H

Dear Mr. Martin.

Northeast Natural Energy LLC will access this well site from an existing permit #04-2012-0876 issued to Yost Heritage Inc. for access to 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,

FEB 1 5 2018

WV Department of Environmental Protection

Gary K. Clayton, P.E.

Regional Maintenance Engineer

Dary K. Clayton

Central Office O&G Coordinator

Cc:

Hollie Medley

Northeast Natural Energy Corporation

CH, OM, D-4

File

Office of Oil and Gas FEB 1 5 2018 WV Department of informental Protection

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
Scaletrol 720	Scale Inhibitor	Diethylene Glycol	111-46-6

YOST ALTERNATE ACCESS ROAD, AST PAD AND AS-BUILT CLAY DISTRICT, MONONGALIA COUNTY, WV

OCTOBER 2014

PLANS PREPARED BY:

TWO WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE WV ONE CALL SYSTEM, INC., 1-800-245-4848 SERIAL # 1210029702

OWNER



707 VIRGINIA STREET SUITE 1200

CHARLESTON, WV 25301

PROONE

PLEASANTS JYLER

RITCHIE

CLAY

MERCER

LOGAN

CAL TOUMER

BEATTON

NICHOLAS

GREEN BRIER

MARION

UPSHUR KANDOLPE

POCAHONTAS

APPROVED WVDEP OOG 10/27/2014

PROJECT

TUCKER

LOCATION

SHEET INDEX 1. TITLE SHEET

2-3. EVACUATION ROUTE/PREVAILING WINDS 4. E&S CONTROL LAYOUT OVERVIEW 5-9. E&S CONTROL LAYOUT

10. E&S CONTROL AND SITE PLAN OVERVIEW 11-15. E&S CONTROL AND SITE PLAN 16. AST PAD CROSS-SECTIONS AND EXISTING ACCESS

ROAD PROFILE 17. PROPOSED ACCESS ROAD PROFILE 18-21, EXISTING ACCESS ROAD AND PROPOSED ACCESS ROAD CROSS-SECTIONS

22. STREAM CROSSINGS #1,#2 AND #3 CROSS-SECTIONS AND PROFILES 23-25. DETAIL SHEET

26. SITE RECLAMATION OVERVIEW 27-31, SITE RECLAMATION PLAN

BOORD BENCHEK & ASSOCIATES, INC.

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



ANDREW BENCHEK

DATE

ORIGINAL PROJECT BOUNDARY: 14.5 ACRES PROPOSED PROJECT BOUNDARY ADDED: 15.1 ACRES TOTAL: 29.5 ACRES PROJECT BOUNDARY DELETED: 1.1 ACRES

TOTAL: 28.5 ACRES

API NUMBERS Yost 3H - 47-06101673 Yost 5H - 47-06101670

Yost 9H - 47-06101671

(NAD 83) LAT: 39° 37' 46.5" LONG: 80° 12' 53.8" (NAD 27) LAT: 39" 37" 46.2" LONG: 80° 12' 54.6"

COORDINATES

CENTER OF WELLS

(NAD 83)

LAT: 39" 38' 29.9"

LONG: 80° 13' 05.0' (NAD 27)

LAT: 39" 38' 29.6"

LONG: 80° 13' 05.7"

SITE ENTRANCE

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.

CLAY DISTRICT, MONONGALIA COUNTY, WV

SHEET

OF 31 Catherines

TITLE SHEET

YOST ALTERNATE ACCESS ROAD, AST PAD AND AS-BUILT

