



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 7H
47-061-01800-00-00

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 7H
Farm Name: YOST HERITAGE INC.
U.S. WELL NUMBER: 47-061-01800-00-00
Horizontal 6A New Drill
Date Issued: 7/9/2018

PERMIT CONDITIONS 4706101800

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

CONDITIONS

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

PERMIT CONDITIONS **4706101800**

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.



4706101800

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:

1. 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.
2. 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.
3. 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:

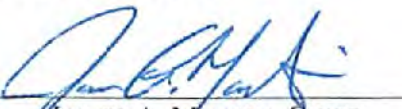
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least two feet (2') in height;
- b. Orange fencing shall be installed on the project boundary to ensure no accidental encroachment happens.
- c. Filter/silt socks 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;
- h. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- i. 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;
- k. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (1/2") rain within any twenty-four (24) hour period;
- l. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- m. 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:


JAMES A. MARTIN, CHIEF

WW-6B
(04/15)

API NO. 47- _____ -
OPERATOR WELL NO. Yost 7H
Well Pad Name: Yost

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

1) Well Operator: Northeast Natural Energy LLC 494498281 Monongalia Clay Blacksville
Operator ID County District Quadrangle

2) Operator's Well Number: Yost 7H Well Pad Name: Yost

3) Farm Name/Surface Owner: Yost Heritage Inc. Public Road Access: Daybrook Rd. 218

4) Elevation, current ground: 1,492' Elevation, proposed post-construction: 1,492'

5) Well Type (a) Gas Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow Deep _____

Horizontal _____

6) Existing Pad: Yes or No Yes *MOK 6/5/2018*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus; 8,300'; 122'; 5,000 PSI

8) Proposed Total Vertical Depth: 8,300'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 19,616.69'

11) Proposed Horizontal Leg Length: 10,229'

12) Approximate Fresh Water Strata Depths: 50', 1,378'

13) Method to Determine Fresh Water Depths: Driller's Log from Offset Wells

14) Approximate Saltwater Depths: 2,410'

15) Approximate Coal Seam Depths: 320', 712'

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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(04/15)

API NO. 47- _____
 OPERATOR WELL NO. Yost 7H
 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	19,616.69'	19,586.69'	4,598 Cu. Ft.
Tubing	2-7/8"	New	N-8	6.5	N/A	8,500'	N/A
Liners							

MDK 6/5/2018

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:					RECEIVED Office of Oil and Gas JUN 08 2018 WV Department of Environmental Protection
Sizes:					
Depths Set:					

WW-6B
(10/14)

API NO. 47- _____
OPERATOR WELL NO. Yost 7H
Well Pad Name: Yost

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

Drilling and completion of a horizontal Marcellus well. The well will be drilled on air to an approximate depth of 6,445.61' TVD/MD. The well will then be horizontally drilled on fluid from KOP to approximately 8,300' TVD / 19,616.69' MD along a 324° 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 ^{RECEIVED}
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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.

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*Note: Attach additional sheets as needed.

4706101800

NORTHEAST NATURAL ENERGY, LLC

Location: Monongalia County, WV
 Field: Monongalia
 Facility: Yost Pad

Wellbore: Yost 7H PWB

Slot: Slot 07

Well: Yost 7H



Formation	Depth (KBTVD)
Tully	8040'
Hamilton	8090'
Upper Marcellus	8198'
Lower Marcellus	8246'
Onondaga	8320'

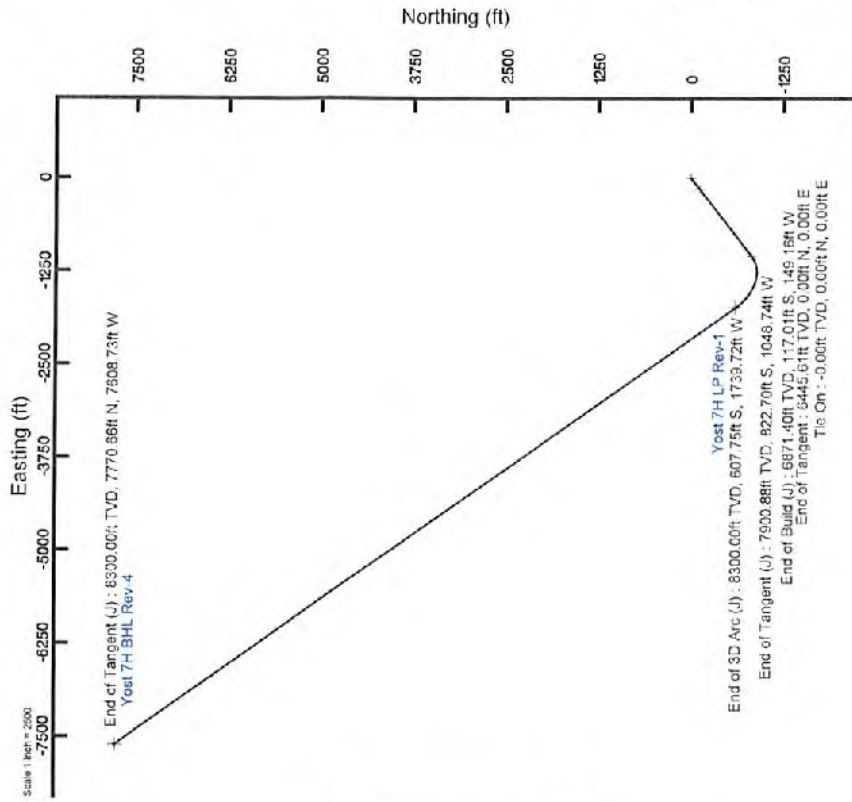
End of Tangent (J) : 0.00° Inc, 6445.61ft MD, 6445.61ft TVD, 0.00ft VS
 10.00°/100ft
 End of Build (J) : 48.00° Inc, 6871.40ft MD, 6871.40ft TVD, -10.26ft VS
 End of Tangent (J) : 48.00° Inc, 8300.00ft MD, 8300.00ft TVD, -72.38ft VS
 10.00°/100ft
 End of 3D Arc (J) : 90.00° Inc, 8300.00ft MD, 8300.00ft TVD, 500.03ft VS
 Yost 7H BHL Rev-1

8/13/2018

Location Information

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Yost Pad	1769284.700	416664.100	37°35'30.724"N	80°13'05.121"W
Local N (ft)	Local E (ft)	Grid North (US ft)	Latitude	Longitude
-1.18	-36.04	416664.920	37°35'30.724"N	80°13'05.121"W
Slot 07	1769248.650	416664.920	37°35'30.724"N	80°13'05.121"W
Rig on Slot 07 (RT) to Ground level (At Slot Slot 07)				
Mean Sea Level to Ground level (At Slot Slot 07)				
Rig on Slot 07 (RT) to Mean Sea Level				
			-1488.2ft	
			1488.2ft	

Type	Hole Size	Casing Size	Grade	GL Depth (Csg)
Conductor	28"	24"	NA	40'
Surface	17-1/2"	13-3/8"	J-55	1450'
Intermediate	12-1/4"	9-5/8"	J-55	2600'



End of Tangent (J) : 90.00° Inc, 19616.69ft MD, 8300.00ft TVD, 10729.53ft VS
 Yost 7H BHL Rev-1

Vertical Section (ft)
 Azimuth: 325.00° with reference 0.00° N, 0.00° E
 Scale 1 inch = 100'

Northeast Natural Energy LLC Mine Contingency Plan



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

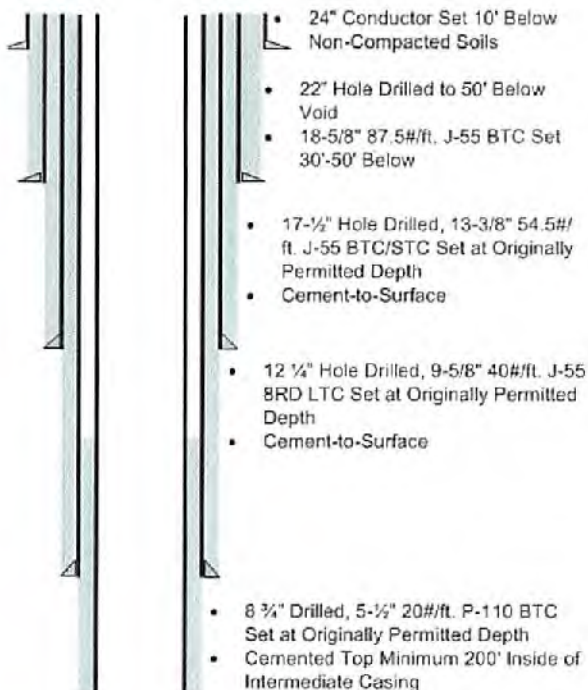
All casings programs submitted to the state incorporate the use of a 24" conductor over the previously used 20" that has long been the industry standard for a typical Marcellus design. The use of 24" conductor casing allows the use of a 22" bit to ream the surface hole, and drill 50' below the void to 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.

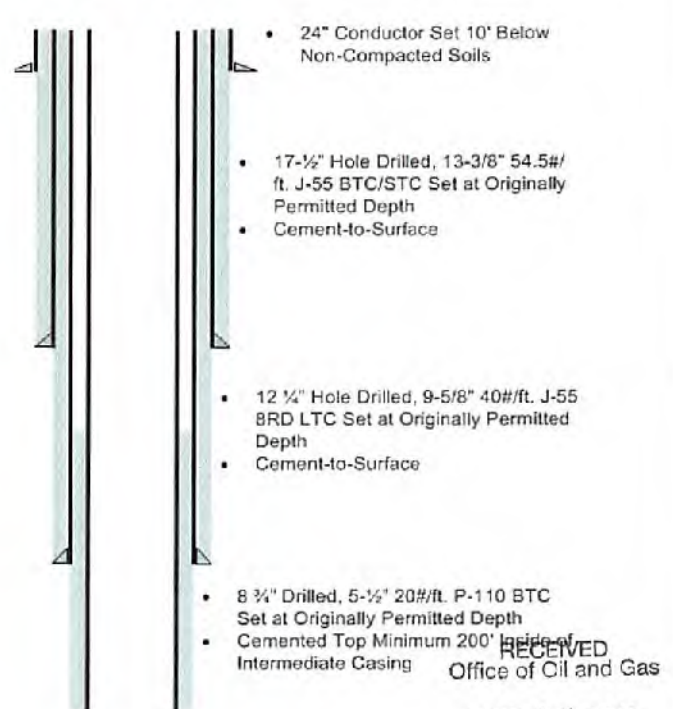
With the use of these string sizes and techniques, the surface and intermediate strings do not need to be altered. After a proper WOC time, the surface section of the well would continue to be drilled with a 17-1/2" bit and the 13-3/8" 54.50#/ft freshwater casing would be set at the originally permitted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

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

Casing Schematic w/ Mine String



Casing Schematic w/o Mine String



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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 (F)	50 psi (hr:min)	500 psi (hr:min)	8 hr (psi)	12 hr (psi)	1 Day (psi)	3 Day (psi)	7 Day (psi)
60	6:48	13:43	112	367	1574		
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 (F)	4 hr (psi)	6 hr (psi)	8 hr (psi)	10 hr (psi)	12 hr (psi)	1 Day (psi)	3 Day (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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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: For internal use only. 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.

07/13/2018

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 (F)	50 psi (hr:min)	500 psi (hr:min)	8 hr (psi)	12 hr (psi)	1 Day (psi)	3 Day (psi)	7 Day (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 (F)	8 hr (psi)	10 hr (psi)	12 hr (psi)	1 Day (psi)	3 Day (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.

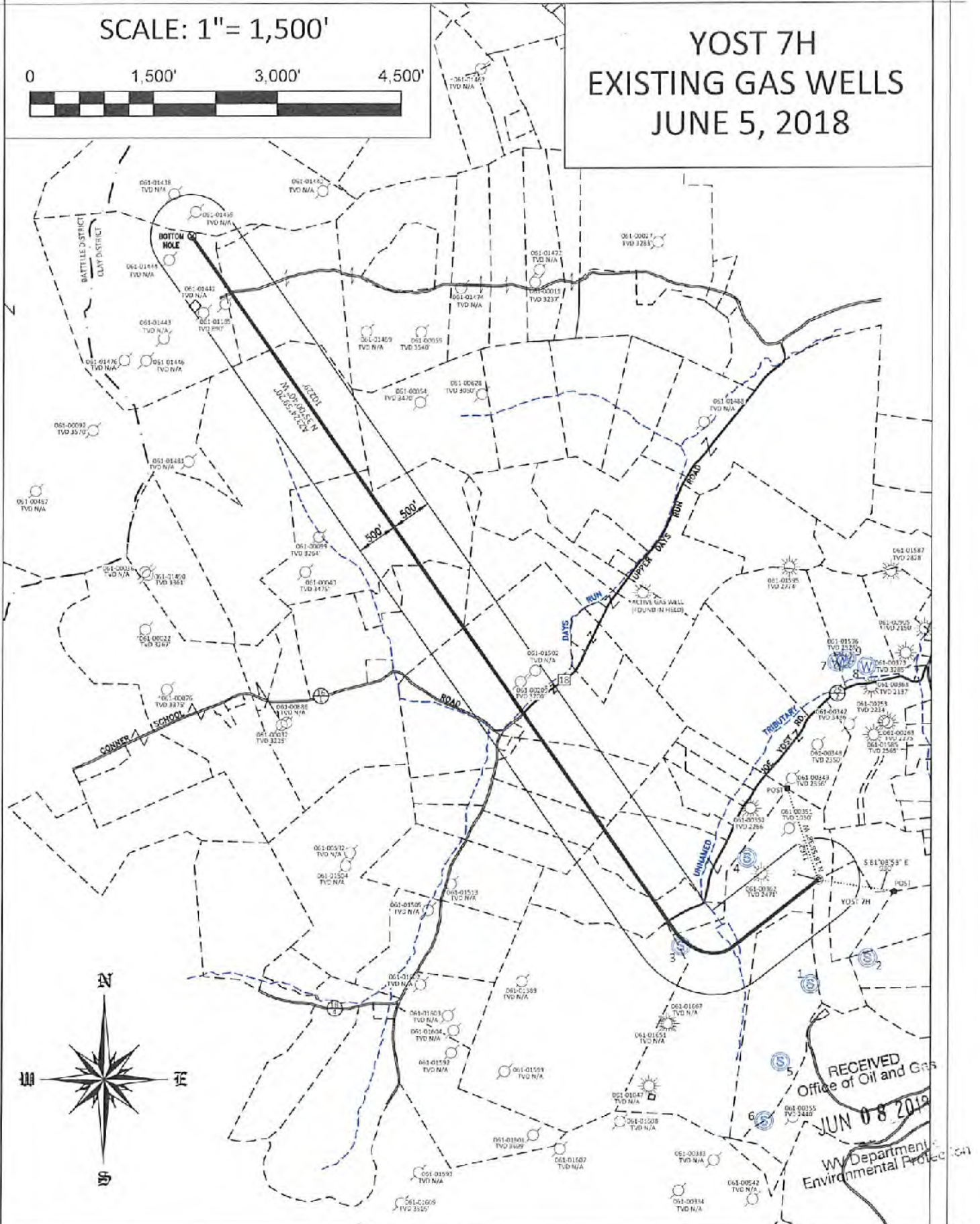
Note: For internal use only. Technical information contained in this document is property of Universal Pressure Pumping, Inc., and is not to be distributed or copied. Customer information requests must be handled through the Chemical Technology Group.

07/13/2018

SCALE: 1" = 1,500'



YOST 7H EXISTING GAS WELLS JUNE 5, 2018



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WV Department of Environmental Protection

Yost 7H Area of Review

API Number	Well Name	Well Number	Operator	Latitude (NAD 83)	Longitude (NAD 83)	TMP	TVD	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
47-061-00209	Tracy Chisler	1	Chisler, F. M.	39.648232	-80.231106	4-18-41	3200'	Drilled 01-04-1954
47-061-01185	Eastern Assoc Coal Co	4559	CNG Producing Co.	39.660366	-80.244901	4-18-04	890'	Methane - Existing Mine Vent
47-061-01442	Norman Brookover	F2-320	Eastern Associated / Peabody Coal Company	39.660651	-80.243977	4-18-04	3,190' Bayard Sand	Plugged on 4-30-2003
47-061-00362	Daybrook Dev	F2-533	Eastern Associated / Peabody Coal Company	39.641081	-80.220134	4-19-43.1	3,450' Bayard Sand	Plugging Permit Cancelled on 3-18-2016
47-061-01444	Norman Brookover	F2-322	Eastern Associated / Peabody Coal Company	39.662102	-80.246417	4-18-04	3,230' Bayard Sand	Plugged on 10-25-2002
47-061-01459	Blendine Eddy, et al (aka David Haught #6)	F2-319	Eastern Associated Coal Corp.	39.663699	-80.245296	4-18-01	3,200' Bayard Sand	Plugged on 10-14-2002
47-061-01438	Blendine Eddy, et al	F2-318	Eastern Associated Coal Corp.	39.66428	-80.246229	4-18-01	3,500' Bayard Sand	Plugged on 07-1-2002

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WW-9
(4/16)

API Number 47 - _____ - _____

Operator's Well No. Yost 7H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Northeast Natural Energy LLC OP Code 494498281

Watershed (HUC 10) Dunkard Creek Quadrangle Blacksville, WV

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: N/A

Will a synthetic liner be used in the pit? Yes No If so, what ml.? N/A

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number unknown at this time, TBD)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: Yes - See Attachment "A"

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air - Vertical/Oil Based-Curve & Horizontal

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Based Mud

Additives to be used in drilling medium? Organophilic Clay Viscosifiers, Lime, Unsaturated Fatty Acids, CaCl, Barite, Emulsifiers, Mica LCM, Water Loss Agents

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removed Offsite - See Attachment "A"

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

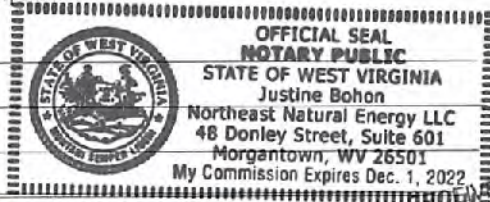
-Landfill or offsite name/permit number? See Attachment "A"

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Hollie Medley
Company Official (Typed Name) Hollie Medley
Company Official Title Regulatory Manager



Subscribed and sworn before me this 24 day of January, 20 18
Justine Bohon Notary Public

My commission expires 12/1/2022

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Northeast Natural Energy LLC

Proposed Revegetation Treatment: Acres Disturbed 14.5 Prevegetation pH unknown

Lime 3 Tons/acre or to correct to pH 7

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch 3 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	46	Orchard Grass	46
Red Clover	8	Red Clover	8
Tetraploid Perrennial Rye	16	Tetraploid Perrennial Rye	16
Timothy - 15 and Annual Rye- 15		Timothy - 15 and Annual Rye - 15	

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Haynes J. Krutka*

Comments: _____

Title: Inspection

Date: 2/13/2018

Field Reviewed? Yes No

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Attachment A to WW-9

Northeast Natural Energy LLC (“NNE”) plans to utilize a closed loop process for its drilling of the Yost 7H 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 7H Drill Cuttings will be taken to disposal at one or more of the following disposal/approved waste facilities, unless listed facilities are no longer approved to accept waste at time of disposal:

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

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

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

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northeast
NATURAL ENERGY

**Yost 7H
SITE SAFETY PLAN**

June 5, 2018

*Margaret K. K...
6/5/2018*

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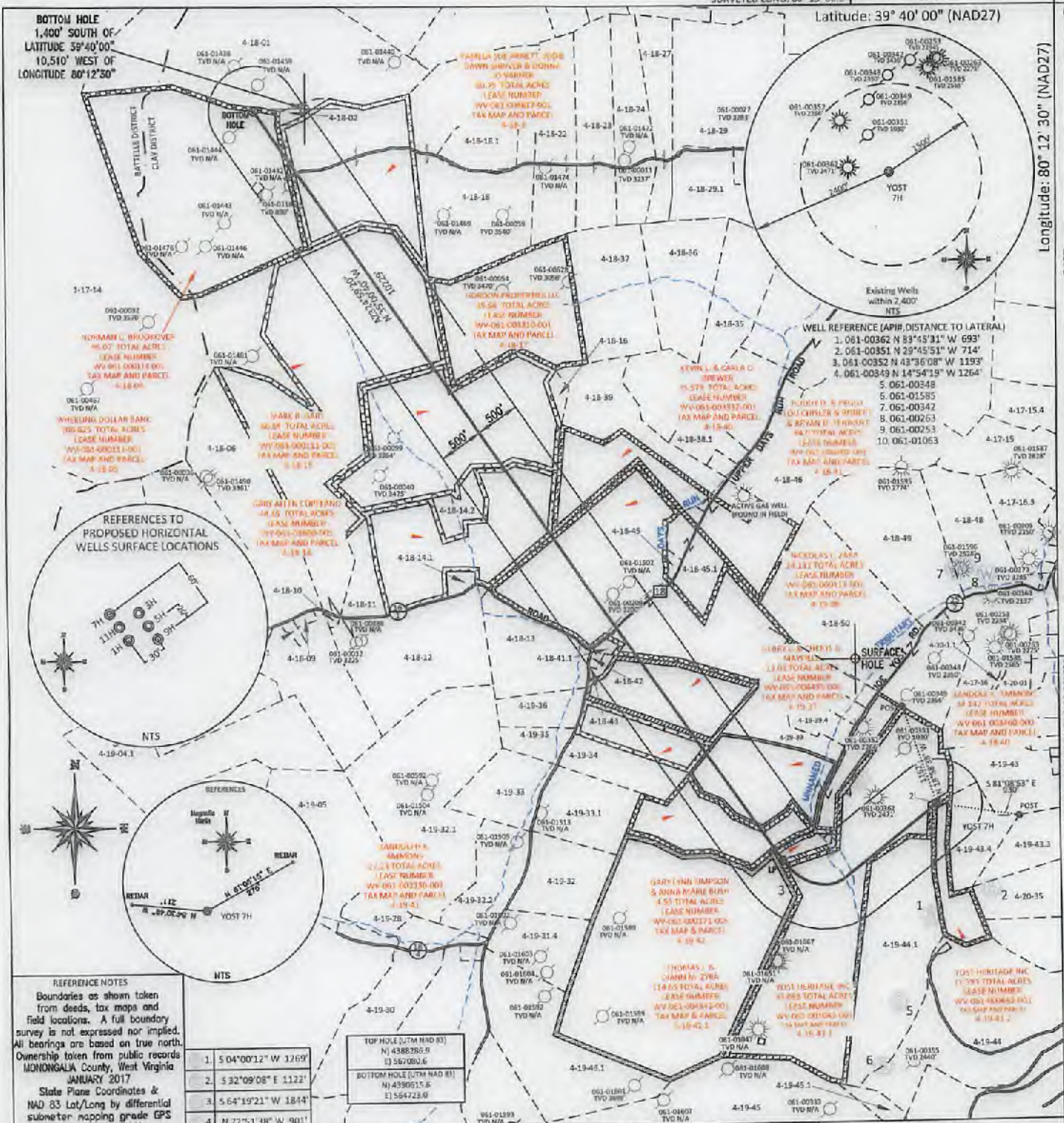
WELL NAME: YOST 7H
QUAD: BLACKSVILLE, WV

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REFERENCE NOTES

Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records MONONGALIA County, West Virginia JANUARY 2017

State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS. Drafted by: E.A.H.

1.	5°04'00"12" W 1269'
2.	5°32'09"08" E 1122'
3.	5°54'19"21" W 1844'
4.	N 72°51'38" W 901'

TOP HOLE [T.M. NAD 83]	N 43°00'30.9"	E 1567.00' ±
BOTTOM HOLE [T.M. NAD 83]	N 43°00'15.6"	E 1564.723.0'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *[Signature]*
 L.L.S. #2124 : Ernest J. Benchek III



FILE #: NNE16

DRAWING #: 2758

SCALE: PLAT: 1" = 1600'
TICK: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP

OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304

Well Type: Oil Waste Diposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: DUNKARD CREEK

COUNTY/DISTRICT: MONONGALIA / CLAY

SURFACE OWNER: YOST HERITAGE INC.

OIL & GAS ROYALTY OWNER: JOE POGUE, ET AL

LEASE NUMBERS: _____

DATE: JUNE 18, 2018

OPERATOR'S WELL #: YOST 7H

API WELL #: 47 61 01800
 STATE COUNTY PERMIT

CURRENT ELEVATION: 1,492'

QUADRANGLE: BLACKSVILLE

ACREAGE: 11.593 +/-

ACREAGE: 766.413 +/-

07/13/2018

TARGET FORMATION: MARCELLUS

WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC

ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200

CITY: CHARLESTON STATE: WV ZIP CODE: 25301

ESTIMATED DEPTH: TVD: 8,300' TMD: 19,616.69'

DESIGNATED AGENT: JOHN ADAMS

ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200

CITY: CHARLESTON STATE: WV ZIP CODE: 25301

WW-6A1
(5/13)

Operator's Well No. Yost 7H

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

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

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

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

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

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

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

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

Well Operator: Northeast Natural Energy LLC
 By: Hollie M. Medley
 Its: Regulatory Manager

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OPERATOR'S WELL NUMBER

YOST NORTH 7H

WV Department of
Environmental Protection

NNE LEASE NUMBER	LESSOR NAME	LESSEE NAME	ROYALTY	
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	1449/310
WV-061-000682-004	Donald L. Tennant	Northeast Natural Energy LLC	0.125 or Greater	1449/308
WV-061-000682-005	Clarence L. Tennant	Northeast Natural Energy LLC	0.125 or Greater	1449/306
WV-061-000682-006	Donald Spencer Tennant	Northeast Natural Energy LLC	0.125 or Greater	1449/304
WV-061-000682-007	Julia Katheryn McKita	Northeast Natural Energy LLC	0.125 or Greater	1449/300
WV-061-000682-009	Thomas A. Tennant	Northeast Natural Energy LLC	0.125 or Greater	1450/455
WV-061-000682-010	Jean Unverdorben, attorney-in-fact for 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	1450/465
WV-061-000682-012	Robert Leon Pyles	Northeast Natural Energy LLC	0.125 or Greater	1450/463
WV-061-000682-013	John Robert and Victoria Ann Pyles	Northeast Natural Energy LLC	0.125 or Greater	1450/459
WV-061-000682-014	Charles H. Morris and Doris Murphy-Morris	Northeast Natural Energy LLC	0.125 or Greater	1453/221
WV-061-000682-015	James Morgan and Avie E. Pyles	Northeast Natural Energy LLC	0.125 or Greater	1453/228
WV-061-000682-016	Wilma Gem, Donald Lee, Deborah Ann, Roger Keith Williams	Northeast Natural Energy LLC	0.125 or Greater	1451/519
WV-061-000682-018	Brian K. Taub	Northeast Natural Energy LLC	Deed	1458/684
WV-061-000682-019	Robert A. Morris	Northeast Natural Energy LLC	0.125 or Greater	1446/50
WV-061-000682-020	David Wayne Cassell	Northeast Natural Energy LLC	0.125 or Greater	1454/423
WV-061-000682-021	Pamela Ruth Spark Natho	Northeast Natural Energy LLC	0.125 or Greater	1458/710
WV-061-000682-022	James Lawrence Taub	Northeast Natural Energy LLC	Deed	1458/689
WV-061-000682-025	Karen Markle	Northeast Natural Energy LLC	0.125 or Greater	1460/125
WV-061-000682-030	Julia Katheryn McKita	Northeast Natural Energy LLC	Deed	1508/003
WV-061-000682-031	James E. Martin	Northeast Natural Energy LLC	0.125 or Greater	1503/659
WV-061-000682-032	Robert R. Martin	Northeast Natural Energy LLC	0.125 or Greater	1503/124
WV-061-000682-033	Donna Morris	Northeast Natural Energy LLC	Deed	1515/587
WV-061-000682-034	Charles M. and Deborah Spark	Northeast Natural Energy LLC	0.125 or Greater	1510/710
WV-061-000682-035	Gordon J. Goldthwaite	Northeast Natural Energy LLC	0.125 or Greater	1503/661
WV-061-000682-036	Janet Spark	Northeast Natural Energy LLC	0.125 or Greater	1503/540
WV-061-000682-037	Mildred Williams	Northeast Natural Energy LLC	0.125 or Greater	1503/792
WV-061-000682-038	Carol and Dwayne Broadhurst	Northeast Natural Energy LLC	0.125 or Greater	1503/794
WV-061-000682-039	Chad D. Tennant	Northeast Natural Energy LLC	0.125 or Greater	1503/809
WV-061-000682-040	Lawrence and Sharon Morris	Northeast Natural Energy LLC	0.125 or Greater	1505/525
WV-061-000682-041	Thomas Andrew and Rosemary Morris	Northeast Natural Energy LLC	0.125 or Greater	1506/431
WV-061-000682-042	Daniel J. Taub, Sr.	Northeast Natural Energy LLC	0.125 or Greater	1505/147
WV-061-000682-043	John F. Gensko	Northeast Natural Energy LLC	0.125 or Greater	1511/548
WV-061-000682-044	Sandra J. and Joseph Swartz	Northeast Natural Energy LLC	0.125 or Greater	1509/769
WV-061-000682-045	Mary Morris, f/k/a Mary E. Pisano	Northeast Natural Energy LLC	0.125 or Greater	1504/758
WV-061-000682-046	Tonya Billingsley	Northeast Natural Energy LLC	0.125 or Greater	1505/137
WV-061-000682-047	Peter Eves	Northeast Natural Energy LLC	0.125 or Greater	1505/151
WV-061-000682-048	Gary Eves, Jr.	Northeast Natural Energy LLC	0.125 or Greater	1505/183
WV-061-000682-049	Clarence Joseph Womer, Jr.	Northeast Natural Energy LLC	0.125 or Greater	1510/76
WV-061-000682-050	Sandra Lou Mason	Northeast Natural Energy LLC	Deed	1515/583
WV-061-000682-051	Lloyd A. and Connie Taub	Northeast Natural Energy LLC	Deed	1517/135
WV-061-000682-052	Paul H. and Barbra Gensko	Northeast Natural Energy LLC	0.125 or Greater	1512/515
WV-061-000682-053	Roger E. and Marjie Goldthwaite	Northeast Natural Energy LLC	0.125 or Greater	1511/769
WV-061-000682-055	Rosemary Pogue	Northeast Natural Energy LLC	Deed	1521/87
WV-061-000682-056	Nancy K. Pogue Saurborn or James Ervin Saurborn	Northeast Natural Energy LLC	Deed	1516/0520
WV-061-000682-057	David Wayne Cassell	Northeast Natural Energy LLC	Deed	1521/79
WV-061-000682-058	The Clarence Llyod Tennant Estate, by Betty Jo Tennant	Northeast Natural Energy LLC	Deed	1521/83
WV-061-000682-059	Twila Morris Novince	Northeast Natural Energy LLC	Deed	1532/380

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WV-061-003576-001	DWG Oil & Gas Acquisitions, LLC	NNE Properties LLC	Deed	1501/788
WV-061-000173-002	Walter Kevin and Maureen L. Huffman	Northeast Natural Energy LLC	0.125 or Greater	1431/206
WV-061-000173-004	Judith Ann and Alan Munkittrick	Northeast Natural Energy LLC	0.125 or Greater	1431/206
WV-061-000173-007	Lavere Josephine Mason a/k/a Lavere Jo 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
WV-061-000173-027	Josephine S. and Zane L. Rush	Northeast Natural Energy LLC	Deed	1514/601
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
WV-061-000173-030	John D. and Frances B. Stiles	Northeast Natural Energy LLC	Deed	1514/616
WV-061-000173-031	Anita K. and Nicholas P. Furfari	Northeast Natural Energy LLC	Deed	1523/367
WV-061-000173-032	James Jay Vassalo	Northeast Natural Energy LLC	Deed	1523/363
WV-061-000173-033	Melanie Myers Key	Northeast Natural Energy LLC	Deed	1514/122
WV-061-000173-034	Carol J. and James E. Parsons	Northeast Natural Energy LLC	Deed	1516/0836
WV-061-000173-035	Mary Louise and Raymond Stiles	Northeast Natural Energy LLC	Deed	1517/0001
WV-061-000173-036	Dolores Jean Hockenberry	Northeast Natural Energy LLC	Deed	1510/657
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
WV-061-000173-039	Beth Ann and James A. Rouse	Northeast Natural Energy LLC	Deed	1515/0536
WV-061-000173-040	Gina L. and Ralph O. Smith	Northeast Natural Energy LLC	Deed	1520/298
WV-061-000173-041	Zachary L. Mason	Northeast Natural Energy LLC	0.125 or Greater	1566/283
WV-061-000173-042	Gregory C. Mason	Northeast Natural Energy LLC	0.125 or Greater	1566/202
WV-061-000173-043	Paulette Park	Northeast Natural Energy LLC	Deed	1574/538
WV-061-000173-044	Gordon E. Park	Northeast Natural Energy LLC	Deed	1574/545
WV-061-000173-045	Donna C. Miller	Northeast Natural Energy LLC	0.125 or Greater	1586/514
WV-061-000173-046	Connie C. Sutton	Northeast Natural Energy LLC	0.125 or Greater	1589/245
WV-061-001059-001	Terrance W. and Joy L. Mason	Northeast Natural Energy LLC	0.125 or Greater	1486/626
WV-061-001059-002	Gina Lou and Ralph O. Smith	Northeast Natural Energy LLC	0.125 or Greater	1486/628
WV-061-001059-003	Debra L. and Bradley S. Frazier	Northeast Natural Energy LLC	0.125 or Greater	1486/630
WV-061-001059-004	Beth Ann and James A. Rouse	Northeast Natural Energy LLC	0.125 or Greater	1486/579
WV-061-001059-006	Beverly Howard	Northeast Natural Energy LLC	Deed	1570/119
WV-061-001059-007	Sandra Lee Woods	Northeast Natural Energy LLC	Deed	1570/119
WV-061-003517-001	Quentin Dale Knight	Northeast Natural Energy LLC	Deed	1524/746
WV-061-003576-001	DWG Oil & Gas Acquisitions, LLC	NNE Properties LLC	Deed	1501/788
WV-061-003926-001	Reed Energy Services, LLC	Northeast Natural Energy LLC	Deed	1578/96
WV-61-001043-001	Reed Energy Services, LLC	Northeast Natural Energy LLC	Deed	1578/96
WV-61-001043-002	L.S. and Benitha Youst	South Penn Oil Company	0.125 or Greater	39/69
WV-061-004342-001	Randolph K. and Tamara S. Ammons	Northeast Natural Energy LLC	0.125 or Greater	1575/542
WV-061-000171-005	Noah Charles and Ruby A. Ammons	Northeast Natural Energy LLC	0.125 or Greater	1419/843
WV-061-000171-006	Lois Jean McCoy	Northeast Natural Energy LLC	0.125 or Greater	1420/490
WV-061-000171-007	Amanda L. Wilson	Northeast Natural Energy LLC	0.125 or Greater	1420/488
WV-061-000171-008	Freddie and Barbara L. McCoy	Northeast Natural Energy LLC	0.125 or Greater	1420/492
WV-061-000171-010	Sandy L. Moore	Northeast Natural Energy LLC	0.125 or Greater	1530/31
WV-061-000171-011	Timothy C. and Peggy Cale	Northeast Natural Energy LLC	Deed	1570/119
WV-061-004328-001	Stone Hill Minerals Holdings, LLC	Northeast Natural Energy LLC	0.125 or Greater	1576/499
WV-061-003460-000	Randolph K. and Tamara S. Ammons	West Augusta Resources, LLC	0.125 or Greater	1393/550
WV-061-004495-000	Gerry L. and Cheryl G. Mayfield	Northeast Natural Energy LLC	0.125 or Greater	1586/636
WV-061-003330-001	Sandra L. Moore	Northeast Natural Energy LLC	0.125 or Greater	1531/15
WV-061-003330-002	Fred McCoy	Northeast Natural Energy LLC	0.125 or Greater	1503/811
WV-061-003330-004	Lois Jean McCoy	Northeast Natural Energy LLC	0.125 or Greater	1503/832
WV-061-003330-005	Sandra L. Moore	Northeast Natural Energy LLC	0.125 or Greater	1531/15

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WV-06-0119
Environmental Department of
1617/9376

WV-061-003330-006	Timothy C. and Peggy Cale	Northeast Natural Energy LLC	Deed	
WV-061-000111-001	EQT Production Company	Northeast Natural Energy LLC	Agreement	
WV-061-004607-001	Robert Chisler	EQT Production Company	0.125 or Greater	1511/683
WV-061-004607-002	The Chisler Family Irrevocable Trust, Linda Jo and Scott L. Chisler, Trustees	EQT Production Company	0.125 or Greater	1514/135
WV-061-003278-001	Chesapeake Appalachia LLC	Chesapeake Appalachia LLC	0.125 or Greater	1487/248
WV-061-003278-002	Statoil USA Onshore Porperties Inc.	*Statoil USA Onshore Properties	0.125 or Greater	1488/748
WV-061-003278-003	Chesapeake Appalachia LLC	Chesapeake Appalachia LLC	0.125 or Greater	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	Robin 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	0.125 or Greater	1504/772
WV-061-003332-004	David D. Yost	Northeast Natural Energy LLC	0.125 or Greater	1505/263
WV-061-003332-005	George Edward and Lanelle C. Stiles	Northeast Natural Energy LLC	0.125 or Greater	1505/450
WV-061-003332-006	Jody Lynn and Robert D. Smith	Northeast Natural Energy LLC	0.125 or Greater	1505/495
WV-061-003332-007	Diana L. and Gerald W. Fulps	Northeast Natural Energy LLC	0.125 or Greater	1505/291
WV-061-003332-008	Dennis L. Yost	Northeast Natural Energy LLC	0.125 or Greater	1505/274
WV-061-003332-009	Phillip D. and Melissa Yost	Northeast Natural Energy LLC	0.125 or Greater	1510/714
WV-061-003332-010	Richard Kyle Yost Jr.	Northeast Natural Energy LLC	0.125 or Greater	1505/393
WV-061-003332-011	Molly E. Tennant	Northeast Natural Energy LLC	0.125 or Greater	1509/767
WV-061-003332-012	Randy D. Yost	Northeast Natural Energy LLC	0.125 or Greater	1505/499
WV-061-003332-013	Larry Lynn and Regina C. Yost	Northeast Natural Energy LLC	0.125 or Greater	1505/385
WV-061-003332-014	Ida M. Osecky f/k/a Ida M. Yost	Northeast Natural Energy LLC	0.125 or Greater	1505/489
WV-061-003332-015	Barry D. and Elizabeth M. Yost	Northeast Natural Energy LLC	0.125 or Greater	1503/546
WV-061-003332-016	Danny J. Yost	Northeast Natural Energy LLC	0.125 or Greater	1505/389
WV-061-003332-017	Peggy L. Phillips	Northeast Natural Energy LLC	0.125 or Greater	1505/177
WV-061-003332-018	Jill Renee and Alan K. Heldreth	Northeast Natural Energy LLC	0.125 or Greater	1503/538
WV-061-003332-019	Jim Fae and Robin R. Yost	Northeast Natural Energy LLC	0.125 or Greater	1532/388
WV-061-003332-020	Norma Jean and Gerald Wayne Stiles	Northeast Natural Energy LLC	0.125 or Greater	1509/544
WV-061-003332-021	Jack Lee and Margaret Jo Yost	Northeast Natural Energy LLC	0.125 or Greater	1509/546
WV-061-003332-022	Nancy A. and Ronnie E. Maggard	Northeast Natural Energy LLC	0.125 or Greater	1509/552
WV-061-003332-023	Scott Mcaninch	Northeast Natural Energy LLC	0.125 or Greater	1506/055
WV-061-003332-026	Connie Sharon and Daniel M. Copeland	Northeast Natural Energy LLC	0.125 or Greater	1532/375
WV-061-003332-027	Waynetta Jean Parker	Northeast Natural Energy LLC	0.125 or Greater	1509/763
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	0.125 or Greater	1509/542
WV-061-003332-030	Betty Gail Sutphin	Northeast Natural Energy LLC	0.125 or Greater	1506/057
WV-061-003332-032	Charlotte Ann Cayavec	Northeast Natural Energy LLC	0.125 or Greater	1511/614
WV-061-003332-033	Michael Stitchick	Northeast Natural Energy LLC	0.125 or Greater	1523/476
WV-061-003332-034	Shirley L. Moore	Northeast Natural Energy LLC	0.125 or Greater	1529/112
WV-061-003332-035	Rhonda Tennant	Northeast Natural Energy LLC	0.125 or Greater	1532/590
WV-061-003311-001	MC Mineral Company LLC, an Oklahoma Limited Liability Company	Chesapeake Appalachia LLC	0.125 or Greater	1487/213
WV-061-003332-024	Margaret Ann Berdine	Northeast Natural Energy LLC	0.125 or Greater	1506/051
WV-061-003332-025	William Robert Tennant	Northeast Natural Energy LLC	0.125 or Greater	1057/249
WV-061-003332-031	Robert M. Smith	Northeast Natural Energy LLC	0.125 or Greater	1506/073
WV-061-003310-001	Robert C. Filbey	Northeast Natural Energy LLC	0.125 or Greater	1498/623
WV-061-003310-002	Wilma Gem Williams	Northeast Natural Energy LLC	0.125 or Greater	1498/606
WV-061-003310-003	Ronald L. Filbey	Northeast Natural Energy LLC	0.125 or Greater	1498/604
WV-061-003310-004	Barry Wayne and Shirley Marlene Hollandsworth	Northeast Natural Energy LLC	0.125 or Greater	1498/598
WV-061-003310-005	Gary R. Filbey	Northeast Natural Energy LLC	0.125 or Greater	1492/354
WV-061-003310-006	Judy and John Rose	Northeast Natural Energy LLC	0.125 or Greater	1500/466
WV-061-003310-007	Jane and Jon Evans	Northeast Natural Energy LLC	0.125 or Greater	1500/470
WV-061-003310-008	Cliff Wilson	Northeast Natural Energy LLC	0.125 or Greater	1500/533
WV-061-003310-009	Bennie Wilson	Northeast Natural Energy LLC	0.125 or Greater	1500/462
WV-061-003310-010	Julie A. and Larry Warshaw	Northeast Natural Energy LLC	0.125 or Greater	1501/502

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				WV Department of Environmental Protection
WV-061-003310-011	Beulah and Edward H. Farley	Northeast Natural Energy LLC	0.125 or Greater	1501/500
WV-061-003310-013	Mary Virginia and Joseph L. Cole	Northeast Natural Energy LLC	0.125 or Greater	1502/603
WV-061-003310-014	Joseph Anthony Haught	Northeast Natural Energy LLC	0.125 or Greater	1502/612
WV-061-003310-016	W. Richard and Peggy Williams	Northeast Natural Energy LLC	0.125 or Greater	1503/878
WV-061-003310-018	Larry L. and Lana D. Rush	Northeast Natural Energy LLC	0.125 or Greater	1502/672
WV-061-003310-019	Tana D. and Robert S. Butler	Northeast Natural Energy LLC	0.125 or Greater	1503/848
WV-061-003310-020	Sue Ann Strickland	Northeast Natural Energy LLC	0.125 or Greater	1503/651
WV-061-003310-021	Charles Bradley and Denise Elizabeth Davis	Northeast Natural Energy LLC	0.125 or Greater	1503/842
WV-061-003310-022	Joyce Ann and Ronald Berga	Northeast Natural Energy LLC	0.125 or Greater	1502/711
WV-061-003310-023	Rebecca L. and Rodney R. Strahler	Northeast Natural Energy LLC	0.125 or Greater	1502/670
WV-061-003310-024	James Everett and Lisa W. Williams II	Northeast Natural Energy LLC	0.125 or Greater	1502/709
WV-061-003310-025	Robert Ora and Paula K. Wheeler	Northeast Natural Energy LLC	0.125 or Greater	1505/397
WV-061-003310-027	Karen Jean and Kenneth Taylor	Northeast Natural Energy LLC	0.125 or Greater	1503/84
WV-061-003310-028	Robin K. Walls, Scott T. and Tod A. Tuttle	Northeast Natural Energy LLC	0.125 or Greater	1502/750
WV-061-003310-029	Mary Jane Pemberton	Northeast Natural Energy LLC	0.125 or Greater	
WV-061-003310-030	Celeste M. Williams a/k/a Celeste M. 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	1505/527
WV-061-003310-045	Wayne Tennant Jr.	Northeast Natural Energy LLC	0.125 or Greater	1510/80
WV-061-003310-046	Mark B. Tennant a/k/a Basil Mark and Cynthia M. Tennant	Northeast Natural Energy LLC	0.125 or Greater	1505/503
WV-061-003310-048	Daniel Gordon and Kristine A. Dinius	Northeast Natural Energy LLC	0.125 or Greater	1509/550
WV-061-003310-049	Donald Rex and Valerie R. Williams	Northeast Natural Energy LLC	0.125 or Greater	1509/548
WV-061-003310-050	Martha T. Price a/k/a Martha Lee and Jack Edward Price	Northeast Natural Energy LLC	0.125 or Greater	1506/075
WV-061-003310-051	Betty C. Lyons	Northeast Natural Energy LLC	0.125 or Greater	1507/493
WV-061-003310-052	Kimberly Sue and Daniel Scott Brummage	Northeast Natural Energy LLC	0.125 or Greater	1506/039
WV-061-003310-053	James E. and Nancy Kallas	Northeast Natural Energy LLC	0.125 or Greater	1509/765
WV-061-003310-054	Roxana D. and Michael B. Chail	Northeast Natural Energy LLC	0.125 or Greater	1506/693
WV-061-003310-055	Nola M. Williams	Northeast Natural Energy LLC	0.125 or Greater	1510/25
WV-061-003310-056	Susan Lynn and Todd H. James	Northeast Natural Energy LLC	0.125 or Greater	1509/535
WV-061-003310-063	Charles Allan Filbey	Northeast Natural Energy LLC	0.125 or Greater	1516/150
WV-061-003310-064	Loretta Gayle Moore	Northeast Natural Energy LLC	0.125 or Greater	1516/142
WV-061-003310-065	James F. Williams	Northeast Natural Energy LLC	0.125 or Greater	1516/243
WV-061-003310-066	Kathleen A. Williams	Northeast Natural Energy LLC	0.125 or Greater	1516/3
WV-061-003310-067	Jean Williams	Northeast Natural Energy LLC	0.125 or Greater	1516/245
WV-061-003310-068	Bonnie Jo and Benjamin M. Statler	Northeast Natural Energy LLC	0.125 or Greater	1516/0759
WV-061-003310-069	Glen A. Stiegemeier	Northeast Natural Energy LLC	0.125 or Greater	1607/50
WV-061-003310-070	John W. Stiegemeier	Northeast Natural Energy LLC	0.125 or Greater	1607/52
WV-061-003312-001	Shirley Marlene and Barry Wayne Hollandsworth	Northeast Natural Energy LLC	0.125 or Greater	1498/602
WV-061-003312-002	Correll W. Cummins	Northeast Natural Energy LLC	0.125 or Greater	1505/511
WV-061-003324-001	Brian E. and Julie B. Davis	Northeast Natural Energy LLC	0.125 or Greater	1505/404
WV-061-003325-001	Leila Kimberly Wells Fournet	Northeast Natural Energy LLC	0.125 or Greater	1503/102
WV-061-003325-003	Donald Dean and Kathy Wheeler, Jr.	Northeast Natural Energy LLC	0.125 or Greater	1503/92
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

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WV-061-003325-008	Joyce Walls	Northeast Natural Energy LLC	0.125 or Greater	1502/748
WV-061-003325-009	Susan R. Edwards	Northeast Natural Energy LLC	0.125 or Greater	1503/894
WV-061-003325-010	Linda L. Barker	Northeast Natural Energy LLC	0.125 or Greater	1503/754
WV-061-003325-011	Adrian Kyle and Beverly T. Wells	Northeast Natural Energy LLC	0.125 or Greater	1502/752
WV-061-003325-012	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	1503/858
WV-061-003325-015	Robert D. Gump, Jr. and Kelley S. Gump	Northeast Natural Energy LLC	0.125 or Greater	1503/819
WV-061-003325-016	Fred J. and Barbara Altamore	Northeast Natural Energy LLC	0.125 or Greater	1505/369
WV-061-003325-017	Joyce Walls	Northeast Natural Energy LLC	0.125 or Greater	1610/245
WV-061-003331-001	Jo and Benjamin M. Statler	Northeast Natural Energy LLC	0.125 or Greater	1502/599
WV-061-003342-001	Patricia and Richard E. Van Tassell	Northeast Natural Energy LLC	0.125 or Greater	1506/043
WV-061-003357-001	Wilda V. Wells	Northeast Natural Energy LLC	Deed	1516/0576
WV-061-003357-002	Alda Kate Wells	Northeast Natural Energy LLC	Deed	1516/0572
WV-061-003357-003	Reita Hall, c/o Hubert W. Wells	Northeast Natural Energy LLC	Deed	1520/294
WV-061-003481-001	Bob Williams, a/k/a Robert Williams and Phyllis E. Williams	Northeast Natural Energy LLC	Deed	1521/31
WV-061-003481-002	Jane Eldred, a/k/a M. Jane and Loren Eldred	Northeast Natural Energy LLC	Deed	1524/750
WV-061-003561-001	Julie Anne and Larry A. Warshaw	Northeast Natural Energy LLC	Deed	1532/730
WV-061-003562-001	Gregory David and Kyle L. Williams	Northeast Natural Energy LLC	Deed	1532/734
WV-061-003709-001	Vance Williams	Northeast Natural Energy LLC	Deed	1541/387
WV-061-004620-001	Diana S. Walsh	Northeast Natural Energy LLC	0.125 or Greater	1597/166
WV-061-004620-002	Jeffrey L. Nicholson	Northeast Natural Energy LLC	0.125 or Greater	1597/168
WV-061-004620-003	Conrad K. Tennant, Jr.	Northeast Natural Energy LLC	0.125 or Greater	1597/170
WV-061-004620-004	David Nicholson	Northeast Natural Energy LLC	0.125 or Greater	1597/172
WV-061-004620-005	Deborah A. and Ronald A. Haught	Northeast Natural Energy LLC	0.125 or Greater	1597/174
WV-061-004620-006	Linda Lee Brown	Northeast Natural Energy LLC	0.125 or Greater	1597/176
WV-061-004620-007	Charlotta M. and John A. Simpson	Northeast Natural Energy LLC	0.125 or Greater	1597/178
WV-061-004620-008	Joseph Nicholson	Northeast Natural Energy LLC	0.125 or Greater	1602/39
WV-061-004620-009	James Nicholson	Northeast Natural Energy LLC	0.125 or Greater	1602/83
WV-061-004693-001	Bernard L. Tennant, Sr.	Northeast Natural Energy LLC	0.125 or Greater	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
WV-061-003310-037	Freddie W. and Norma J. Williams	Northeast Natural Energy LLC	0.125 or Greater	1503/872
WV-061-003310-040	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	0.125 or Greater	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	1513/291
WV-061-003325-002	Patricia S. Phillips	Northeast Natural Energy LLC	0.125 or Greater	1502/701
WV-061-000111-001	EQT Production Company	Northeast Natural Energy LLC	Agreement	1617/378
WV-061-03660-005	Patricia JoAnn Wagner	Northeast Natural Energy LLC	0.125 or Greater	1539/518
WV-061-03660-006	Mary Dawson	Northeast Natural Energy LLC	0.125 or Greater	1542/83
WV-061-03660-007	The Revocable Trust Agreement of Randal M. Spragg, by Randall M. and Lisa M. Spragg, Trustees	Northeast Natural Energy LLC	0.125 or Greater	1551/93
WV-061-03660-008	Leo Keith Tennant and Laurie M. Tennant	Northeast Natural Energy LLC	0.125 or Greater	1563/517
WV-061-03660-009	Gary A. Spragg	Northeast Natural Energy LLC	0.125 or Greater	1564/364
WV-061-03660-010	Marion Emrod Tennant	Northeast Natural Energy LLC	0.125 or Greater	1559/260
WV-061-03660-011	Kim David Fritz and Nancy Fritz	Northeast Natural Energy LLC	0.125 or Greater	1551/131
WV-061-03660-012	Lisa Cortes	Northeast Natural Energy LLC	0.125 or Greater	1552/460
WV-061-03660-013	Jerry E. and Joyce Sims	Northeast Natural Energy LLC	0.125 or Greater	1559/262
WV-061-03660-014	Michael J. and Natalie Ann Eddy	Northeast Natural Energy LLC	0.125 or Greater	1559/266

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WV-061-03660-015	James E. and Ronda S. Eddy	Northeast Natural Energy LLC	0.125 or Greater	1559/264
WV-061-03660-016	Eva L. and Robert Ellis	Northeast Natural Energy LLC	0.125 or Greater	1567/693
WV-061-03660-017	Janet Coleman	Northeast Natural Energy LLC	0.125 or Greater	1563/523
WV-061-03660-018	Sharon K. and Carl E. Schuster	Northeast Natural Energy LLC	0.125 or Greater	1563/521
WV-061-03660-019	Kent S. Tennant	Northeast Natural Energy LLC	0.125 or Greater	1563/531
WV-061-03660-020	Mack Watkins	Northeast Natural Energy LLC	0.125 or Greater	1567/703
WV-061-03660-021	Jo Ann Watkins	Northeast Natural Energy LLC	0.125 or Greater	1563/529
WV-061-03660-022	Goldene B. Tennant	Northeast Natural Energy LLC	0.125 or Greater	1563/533
WV-061-03660-023	Daniel T. Sims	Northeast Natural Energy LLC	0.125 or Greater	1563/519
WV-061-03660-024	Jacuelyn M. and Donald R. Halbrook	Northeast Natural Energy LLC	0.125 or Greater	1563/527
WV-061-03660-025	Sherry L. Harrison	Northeast Natural Energy LLC	0.125 or Greater	1563/525
WV-061-03660-026	Carol A. and David M. Luckey	Northeast Natural Energy LLC	0.125 or Greater	1564/473
WV-061-03660-027	Jean-Clare Sims Bohm	Northeast Natural Energy LLC	0.125 or Greater	1568/287
WV-061-03660-028	Philip J. and Vickie Sims	Northeast Natural Energy LLC	0.125 or Greater	1567/701
WV-061-03660-029	David Watkins	Northeast Natural Energy LLC	0.125 or Greater	1567/695
WV-061-03660-030	Connie and Wayne Geissinger	Northeast Natural Energy LLC	0.125 or Greater	1563/515
WV-061-03660-031	Sue Tennant	Northeast Natural Energy LLC	0.125 or Greater	1567/329
WV-061-03660-032	Judy E. and Robert Wilson	Northeast Natural Energy LLC	0.125 or Greater	1574/528
WV-061-03660-033	Joyce Sell	Northeast Natural Energy LLC	0.125 or Greater	1568/289
WV-061-03660-034	Robert D. and Janice Watkins	Northeast Natural Energy LLC	0.125 or Greater	1567/697
WV-061-03660-035	Lori and Gary Kirby	Northeast Natural Energy LLC	0.125 or Greater	1563/537
WV-061-03660-036	Neil P. and Michelle R. Eddy	Northeast Natural Energy LLC	0.125 or Greater	1567/699
WV-061-03660-037	Mark M. and Jean I. Tennant	Northeast Natural Energy LLC	Deed	1570/119
WV-061-03660-038	D. Ray and Barbara Tennant	Northeast Natural Energy LLC	0.125 or Greater	1567/335
WV-061-03660-039	ERP Federal Mining Complex, LLC	Northeast Natural Energy LLC	0.125 or Greater	1567/347
WV-061-03660-040	Donley Carr Main	Northeast Natural Energy LLC	0.125 or Greater	1567/337
WV-061-03660-041	Barbara and Dave Huber	Northeast Natural Energy LLC	0.125 or Greater	1567/333
WV-061-03660-042	Carl E. and Chevelle L. Swartz	Northeast Natural Energy LLC	0.125 or Greater	1567/343
WV-061-03660-043	Doug Watkins	Northeast Natural Energy LLC	0.125 or Greater	1567/341
WV-061-03660-044	Jan L. Tennant and Richard Cooper	Northeast Natural Energy LLC	Deed	1570/119
WV-061-03660-045	Joe S. and Karen Tennant	Northeast Natural Energy LLC	Deed	1570/119
WV-061-03660-046	Tommy D. Watkins	Northeast Natural Energy LLC	0.125 or Greater	1567/331
WV-061-03660-047	Marion Lavern Tennant	Northeast Natural Energy LLC	0.125 or Greater	1572/614
WV-061-03660-048	Stephen A. and Marcia Tennant	Northeast Natural Energy LLC	0.125 or Greater	1563/535
WV-061-03660-049	Sandra K. Krider	Northeast Natural Energy LLC	Deed	1596/445
WV-061-03660-050	Albert R. and Arta S. Fox	Northeast Natural Energy LLC	Deed	1596/522
WV-061-03660-051	Kyle F. and Anna M. Eddy	Northeast Natural Energy LLC	0.125 or Greater	1594/200
WV-061-03660-052	Kenneth R. and Natalie A. Eddy	Northeast Natural Energy LLC	0.125 or Greater	1594/331
WV-061-03660-053	James E. and Christina K. Benson	Northeast Natural Energy LLC	0.125 or Greater	1609/7
WV-061-03660-001	Robert W. Tennant	Northeast Natural Energy LLC	0.125 or Greater	1538/417
WV-061-03660-002	Joseph B. Tennant	Northeast Natural Energy LLC	0.125 or Greater	1538/439
WV-061-03660-003	Teresa Leigh Tennant	Northeast Natural Energy LLC	0.125 or Greater	1538/437
WV-061-03660-004	Nellie G. Tennant	Northeast Natural Energy LLC	0.125 or Greater	1538/286
WV-061-000111-001	EQT Production Company	Northeast Natural Energy LLC	Agreement	1617/378
WV-061-004617-001	Jodie Dawn Shriver	Northeast Natural Energy LLC	0.125 or Greater	1597/136
WV-061-004617-002	Pamela Sue Arnett	Northeast Natural Energy LLC	0.125 or Greater	1597/138
WV-061-004617-003	Donna Jo Varner	Northeast Natural Energy LLC	0.125 or Greater	1597/140
WV-061-000114-001	Shuman Inc.	Northeast Natural Energy LLC	0.125 or Greater	1625/598

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Edwin Associates, Inc.

Assignment
DR 754/594

Union Trust National Bank, as successor by conversion of Union
Trust & Deposit Company

Edwin Associates, Inc.
Edwin Associates, Inc.

J. T. Carson
Assignment
DR 754/600

J. T. Carson

Thompson/Texas Associates Partnership

Assignment
DR 754/606

Thompson/Texas Associates Partnership, Thompson Pipe and Supply Company, Jack O.
Thompson, Harold J. Arnsteen, Equidyne Investment Associates, Inc., individually and as
partners and/or joint venturers in that entity known as Thompson/Texas Associates
Partnership

Mark Eddy
Assignment
AR 21/22

Beth Eddy, Debbie Eddy and Melissa Eddy
Assignment

AR 21/582

Beth Stewart, Debbie Morris and Melissa Matheny

Mark V. Eddy
Assignment
AR 102/275

Mark V. Eddy & Betty Eddy (h&w) & Eddy Brothers

Northeast Natural Energy LLC
Assignment
AB 123/363

South Penn Oil Company
Assignment
DR 32/240

South Penn Oil Company

South Penn Natural Gas Company
Assingment
DR 304/547

South Penn Natural Gas Company

South Penn Oil Company
Assignment
DR 580/311

South Penn Oil Company merged with

Pennzoil Company and United Gas

Pennzoil United Inc.
Assignment

DR 672/665
Pennzoil United Inc.

W. H. Allen
Assignment
DR 695/557
W. H. Allen

Union Trust & Deposit Company
Assignment
DR 695/556

W.H. Allen and James A. Allen

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West Augusta Resources, L.L.C.

Chesapeake Appalachia, L.L.C.

Assignment

Book 108 / Page 464

Statoil USA Onshore Properties Inc.

Assignment

Book 112 / Page 199

Correction - Book 113 / Page 139

Northeast Natural Energy LLC

Assignment

Book 120 / Page 769

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

Northeast Natural Energy LLC
Assignment
BK 120/769

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07/13/2018

4706101800

EQT Production Company
Agreement
Book 1617/ Page 381

Northeast Natural Energy LLC

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WV Department of
Environmental Protection 07/13/2018



4706101800

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,

A handwritten signature in black ink, appearing to read 'Anthony Romeo', with a long horizontal line extending to the right.

Anthony Romeo
Manager – Land Operations

Enclosure

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Environmental Protection

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

Date of Notice Certification: 02/13/2018

API No. 47- -

Operator's Well No. Yost 7H

Well Pad Name: Yost

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>567080.6</u>
County: <u>Monongalia</u>		Northing: <u>4388286.9</u>
District: <u>Clay</u>	Public Road Access: <u>Daybrook Rd. 218</u>	
Quadrangle: <u>Blacksville</u>	Generally used farm name: <u>Yost</u>	
Watershed: <u>Dunkard</u>		

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 40px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p align="center">OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p>
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Required Attachments:

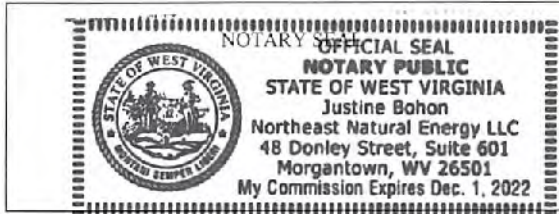
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

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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:	<u>Northeast Natural Energy LLC</u>	Address:	<u>707 Virginia Street East, Suite 1200</u>
By:	<u>Hollie M. Medley</u>		<u>Charleston, WV 25301</u>
Its:	<u>Regulatory Manager</u>	Facsimile:	<u>304-241-5972</u>
Telephone:	<u>304-212-0422</u>	Email:	<u>hmedley@nne-llc.com</u>



Hollie M Medley
 Subscribed and sworn before me this 14 day of February, 2018
Justine Bohon Notary Public
 My Commission Expires 12/1/2022

Oil and Gas Privacy Notice:

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

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WV Department of
Environmental Protection
07/13/2018

WW-6A
(9-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. Yost 7H
Well Pad Name: Yost

**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 WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A 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.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)
Name: See Attachment
Address: _____
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: See Attachment
Address: _____
 COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: See Attachment
Address: _____
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: See Attachment
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

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WV Department of Environmental Protection

WW-6A
(8-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. Yost 7H _____
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 additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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

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

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

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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 Department of Environmental Protection 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

07/13/2018

WW-6A
(8-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. Yost 7H
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 comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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

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

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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.

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07/13/2018

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(8-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. Yost 7H
Well Pad Name: Yost

Notice is hereby given by:

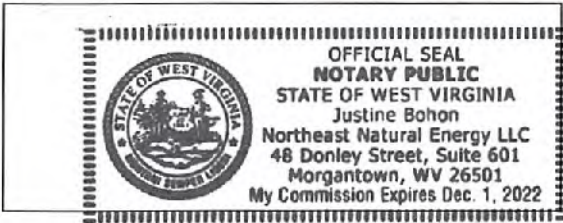
Well Operator: Northeast Natural Energy LLC
Telephone: 304-212-0422
Email: hmedley@nne-llc.com

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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Hell: mmedley



Subscribed and sworn before me this 14 day of 2, 2018.
Justine Bohon Notary Public
My Commission Expires 12/1/2022

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07/13/2018

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:

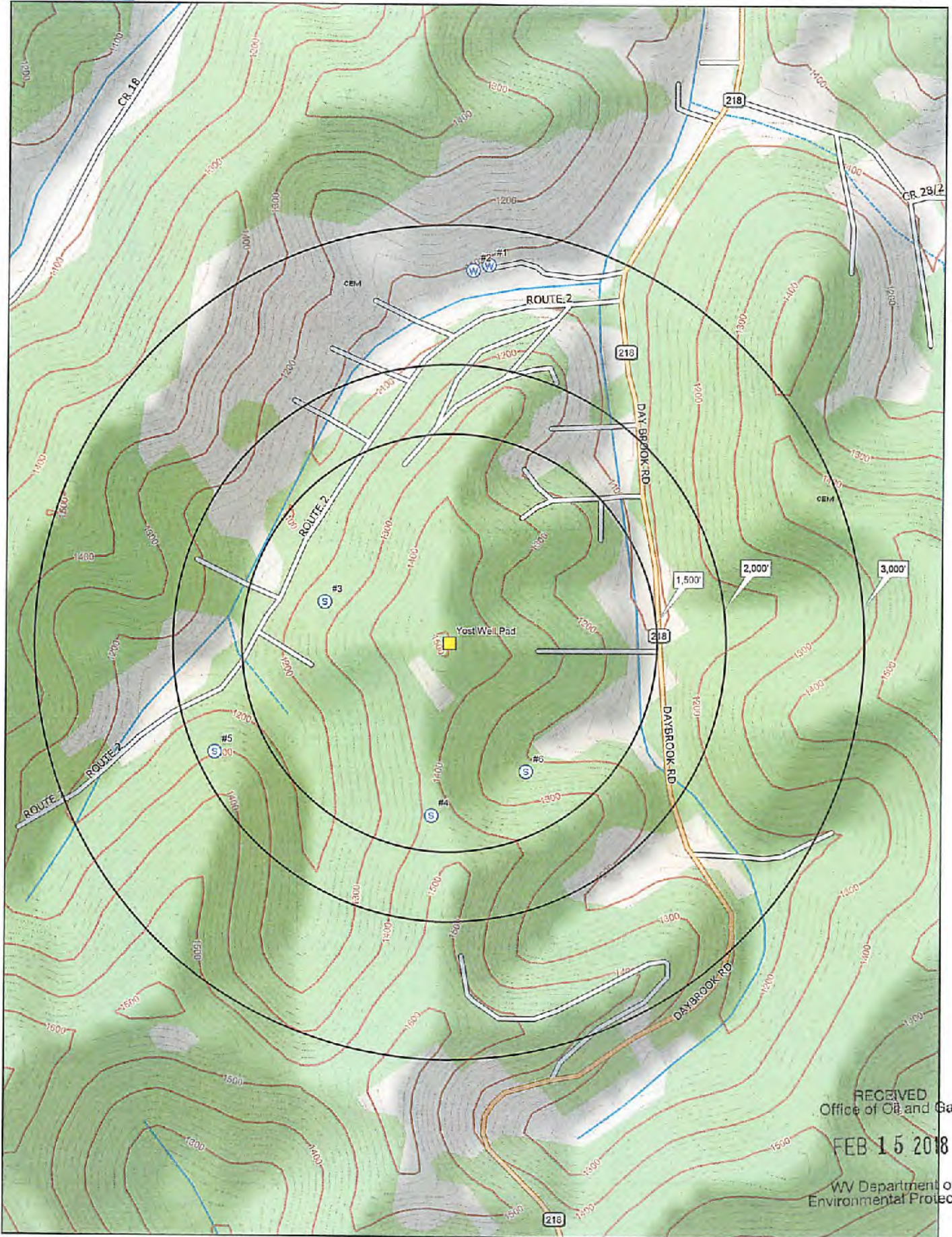
Yost Heritage Inc. ✓
2656 Daybrook Rd.
Fairview, WV 26570

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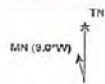
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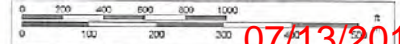
Data use subject to license.

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www.delorme.com



Scale 1 : 11,200



1" = 933.3 ft

Data Zoom 14-2

07/13/2018

Pre-Drill Water Sample - Yost Well Pad

Source	Type	Landowner	Easting (UTM NAD 83)	Northing (UTM NAD 83)	Latitude (NAD 83)	Longitude (NAD 83)
#1	Water Well	Yost Heritage Inc.	567169.27	4389101.22	39.6490681	-80.2171009
#2	Water Well	Yost Heritage Inc.	567134.7	4389089.01	39.6489608	-80.217505
#3	Spring	Yost Heritage Inc.	566817.03	4388363.41	39.6424484	-80.2212807
#4	Spring	Yost Heritage Inc.	567059.5	4387900.69	39.6382605	-80.2185019
#5	Spring	Yost Heritage Inc.	566578.37	4388035.06	39.6395087	-80.2240949
#6	Spring	Yost Heritage Inc.	567267.34	438800.55	39.6391439	-80.2160699



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

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: 7/22/2013 **Date of Planned Entry:** 7/30/2013

Delivery method pursuant to West Virginia Code § 22-6A-10a

- PERSONAL SERVICE
 REGISTERED MAIL
 METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)

Name: See Attachment

Address: _____

Name: _____

Address: _____

Name: _____

Address: _____

COAL OWNER OR LESSEE

Name: See Attachment

Address: _____

MINERAL OWNER(s)

Name: See Attachment

Address: _____

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: West Virginia
County: Menongalia
District: Clay
Quadrangle: Blacksville

Approx. Latitude & Longitude: 567095.7; 4388263.9 (UTM NAD 83)
Public Road Access: State Route 218 (Daybrook Road)
Watershed: Dunkard Creek
Generally used farm name: Yost

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: Northeast Natural Energy LLC
Telephone: 304.212.0422
Email: hmedley@nne-llc.com

Address: 707 Virginia Street East, Suite 1200
Charleston, WV 2501
Facsimile: 304.241.5972

RECEIVED
Office of Oil and Gas

FEB 15 2018

WV Department of
Environmental Protection

Oil and Gas Privacy Notice:

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

07/13/2018

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

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Environmental Protection

07/13/2018

WW-6A4
(1/12)

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

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

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.
Date of Notice: 01/29/2018 **Date Permit Application Filed:** 02/13/2018

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Yost Heritage Inc.
Address: 2656 Daybrook Rd.
Fairview, WV 26570

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 567080.6
County: Monongalia Northing: 4388286.9
District: Clay Public Road Access: State Route 218 (Daybrook Road)
Quadrangle: Blacksville, WV Generally used farm name: Yost
Watershed: Dunkard

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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.

Notice is hereby given by:

Well Operator: Northeast Natural Energy LLC
Address: 707 Virginia Street East, Suite 1200
Charleston, WV 25301
Telephone: 304-212-0422
Email: hmedley@nne-llc.com
Facsimile: 304-241-5972

Authorized Representative: Hollie Medley, Regulatory Manager
Address: 48 Donley Street, Suite 1200
Morgantown, WV 26501
Telephone: 304-212-0422
Email: hmedley@nne-llc.com
Facsimile: 304-241-5972

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FEB 15 2018

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.

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

Notice Time Requirement: notice shall be provided no later than the **filing date** of permit application.

Date of Notice: 01/29/2018 **Date Permit Application Filed:** 02/13/2018

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: Please See Attachment Name: _____
Address: _____ Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>567087.8</u>
County:	<u>Monongalia</u>		Northing:	<u>4388277.1</u>
District:	<u>Clay</u>	Public Road Access:	<u>State Route 218 (Daybrook Road)</u>	
Quadrangle:	<u>Blacksville, WV</u>	Generally used farm name:	<u>Yost</u>	
Watershed:	<u>Dunkard</u>			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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 Operator:	<u>Northeast Natural Energy LLC</u>	Address:	<u>707 Virginia Street East, Suite 1200</u>	
Telephone:	<u>304-212-0422</u>		<u>Charleston, WV 25301</u>	
Email:	<u>hmedley@nne-llc.com</u>	Facsimile:	<u>304-241-5972</u>	

Oil and Gas Privacy Notice:

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

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WV Department of
Environmental Protection

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

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07/13/2018

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

I, Mary B. Yost, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>557080.6</u>
County:	<u>Monongalia</u>	UTM NAD 83 Northing:	<u>4388265.9</u>
District:	<u>Cley</u>	Public Road Access:	<u>State Route 219 (Daybrook Road)</u>
Quadrangle:	<u>Blacksville, WV</u>	Generally used farm name:	<u>Yost</u>
Watershed:	<u>Dunkard</u>		

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

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input checked="" type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: <u>Mary B. Yost</u></p> <p>Print Name: <u>Gary B. Yost</u></p> <p>Date: <u>2-7-18</u></p>
	<p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: _____</p>

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Office of Oil and Gas
FEB 15 2018
WV Department of
Environmental Protection

Oil and Gas Privacy Notice:

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

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

I, David F. Johnson, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 567087.8
County: Monongalia Northing: 4388277.1
District: Clay Public Road Access: State Route 218 (Daybrook Road)
Quadrangle: Blacksville, WV Generally used farm name: Yost
Watershed: Dunkard

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

*Please check the box that applies <input type="checkbox"/> SURFACE OWNER <input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance) <input type="checkbox"/> SURFACE OWNER (Impoundments/Pits) <input checked="" type="checkbox"/> COAL OWNER OR LESSEE <input type="checkbox"/> COAL OPERATOR <input type="checkbox"/> WATER PURVEYOR <input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD	FOR EXECUTION BY A NATURAL PERSON Signature: <u>David F. Johnson</u> Print Name: _____ Date: _____
	FOR EXECUTION BY A CORPORATION, ETC. Company: <u>ERR Federal Mining Complex, LLC</u> By: <u>David F. Johnson</u> Its: <u>Vice President</u> Signature: <u>David F. Johnson</u> Date: <u>Feb 2, 2018</u>

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FEB 15 2018

Oil and Gas Privacy Notice:
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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

Earl Ray Tomblin
 Governor

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

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 7H

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,

Gary K. Clayton, P.E.
 Regional Maintenance Engineer
 Central Office O&G Coordinator

Cc: Hollie Medley
 Northeast Natural Energy Corporation
 CH, OM, D-4
 File

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 FEB 15 2018
 WV Department of
 Environmental Protection

Planned Additives to be used in Fracturing Stimulations

4706
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 WV Department of Environmental Protection

Trade Name	Purpose	Ingredients	Chemical Abstract Service Number (CAS#)
Water	Carrier	Water	7732-18-5
HCl, 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

4706101800

YOST ALTERNATE ACCESS ROAD, AST PAD AND AS-BUILT CLAY DISTRICT, MONONGALIA COUNTY, WV OCTOBER 2014

WEST VIRGINIA 811

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

OWNER



**APPROVED
WVDEP OOG**
[Signature] 10/27/2014

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

PLANS PREPARED BY:
BOORD BENCHEK & ASSOCIATES, INC.
ENGINEERING, SURVEYING, CONSTRUCTION AND MINING SERVICES
SOUTHPOINTE, PA 15317 PHONE: 724-746-1055



[Signature] 10-24-2014

ANDREW BENCHEK
P.E.

DATE

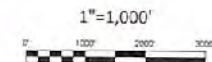
ORIGINAL PROJECT BOUNDARY: 14.5 ACRES
PROPOSED PROJECT BOUNDARY ADDED: 15.1 ACRES
TOTAL: 29.6 ACRES
PROJECT BOUNDARY DELETED: 1.1 ACRES
TOTAL: 28.5 ACRES

API NUMBERS
Yost 3H - 47-06101673
Yost 5H - 47-06101670
Yost 9H - 47-06101671

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
(NAD 83)
LAT: 39° 37' 45.5"
LONG: 80° 12' 53.8"
(NAD 27)
LAT: 39° 37' 46.2"
LONG: 80° 12' 54.5"



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

TITLE SHEET YOST ALTERNATE ACCESS ROAD, AST PAD AND AS-BUILT CLAY DISTRICT, MONONGALIA COUNTY, WV	SHEET 1 OF 31
----------------------------------------------------------------------------------------------------------------	-------------------------------

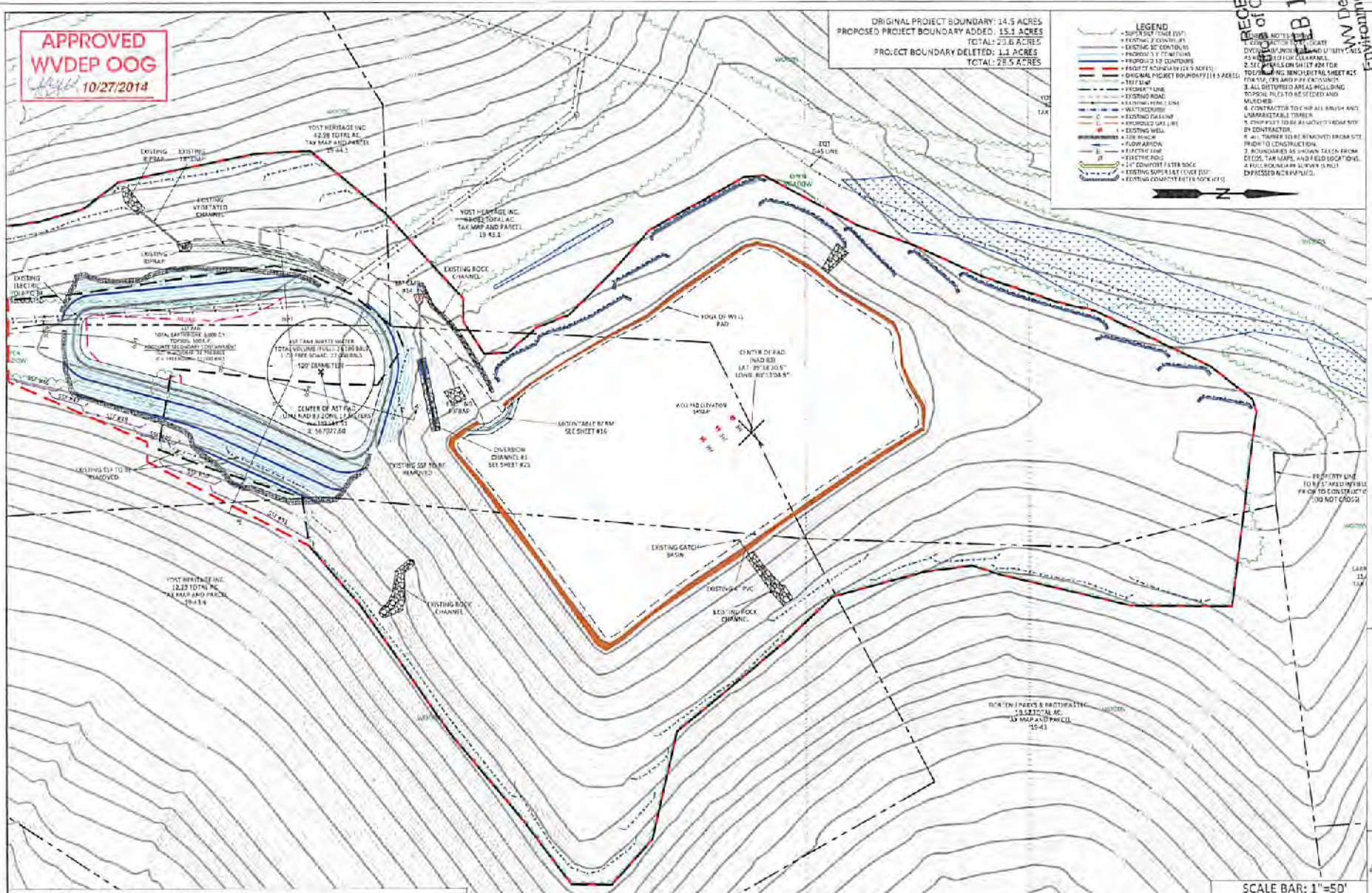
47067001800

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of Oil and Gas
FEB 15 2018
WV Department of Environmental Protection

APPROVED
WVDEP OOG
10/27/2014

ORIGINAL PROJECT BOUNDARY: 14.5 ACRES
PROPOSED PROJECT BOUNDARY ADDED: 15.1 ACRES
TOTAL: 29.6 ACRES
PROJECT BOUNDARY DELETED: 1.1 ACRES
TOTAL: 28.5 ACRES

- LEGEND**
- SURVEY LINE (100'±)
 - PROPOSED EASEMENT
 - EXISTING 30' EASEMENT
 - PROPOSED 10' CLEARANCE
 - PROPOSED TO CONTAIN
 - PROPOSED ACROSS (10'± ACFT)
 - EXISTING PROJECT BOUNDARY (14.5 ACRES)
 - PROPOSED PROJECT BOUNDARY (29.6 ACRES)
 - PROPOSED PROJECT BOUNDARY DELETED (1.1 ACRES)
 - EXISTING ROAD
 - EXISTING DRIVE LINE
 - EXISTING DRAINAGE
 - PROPOSED DRIVE LINE
 - EXISTING WELL
 - 100' BUFFER
 - FLOW ARROW
 - ELECTRIC LINE
 - ELECTRIC POLE
 - 24" CONDUIT FASTER ROSE
 - EXISTING SURVEY LINE (100'±)
 - EXISTING COUNTY HIGHWAY (100'±)



BOORD, BENCHEK and ASSOC., INC.
Engineering, Surveying, Construction,
and Mining Services

Southwest, PA 15317 Phone: 724-796-1025

E&S CONTROL AND SITE PLAN

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

DATE:
OCTOBER 2014
VOST ALTERNATE
ACCESS ROAD, AST
PAD AND AS-3U-11

CLAY DISTRICT,
MONONGALIA
COUNTY, WV

SCALE BAR: 1"=50'

WV INSPECTOR: _____

