



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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Wednesday, October 27, 2021
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for PHOENIX 10H
47-061-01891-00-00

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

A blue ink signature of James A. Martin, Chief, is written over the printed name and title.

Operator's Well Number: PHOENIX 10H
Farm Name: CHARLES WENDELL MOORE
U.S. WELL NUMBER: 47-061-01891-00-00
Horizontal 6A New Drill
Date Issued: 10/27/2021

PERMIT CONDITIONS

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

CONDITIONS

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

PERMIT CONDITIONS 4706101891

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.

WW-6B
(04/15)

API NO. 47- _____ - _____
OPERATOR WELL NO. 10H
Well Pad Name: Phoenix

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

1) Well Operator: Northeast Natural Energy 494498281 Monongalia Battelle Wadestown
Operator ID County District Quadrangle

2) Operator's Well Number: 10H Well Pad Name: Phoenix

3) Farm Name/Surface Owner: Charles Wendell Moore & Frank M. Chisler Public Road Access: Graveyard Hill/Route 15/2

4) Elevation, current ground: 1,538' Elevation, proposed post-construction: 1,503'

5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____
(b) If Gas Shallow Deep _____
Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 8,200', 79', 3600 psi

8) Proposed Total Vertical Depth: 8,200'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 28,660'

11) Proposed Horizontal Leg Length: 19,333'

12) Approximate Fresh Water Strata Depths: 1,238'

13) Method to Determine Fresh Water Depths: Drillers Log from Offset Wells

14) Approximate Saltwater Depths: 2,222'

15) Approximate Coal Seam Depths: 1,250'

16) Approximate Depth to Possible Void (coal mine, karst, other): NA

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

(a) If Yes, provide Mine Info: Name: Federal #2 RECEIVED
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Depth: 1,250' SEP 22 2021
Seam: Pittsburgh
Owner: Phoenix Federal No 2 Mining, LLC WV Department of
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18) CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	24	New	NA	94.71	100'	100'	CTS
Fresh Water	13-3/8	New	J-55	54.5	1,500'	1,470'	CTS
Coal							
Intermediate	9-5/8	New	J-55	36	2,760'	2,730'	CTS
Production	5-1/2	New	P-110	20	28,660'	28,630'	6878
Tubing	2-7/8	New	P-110	6.5	NA	8,500'	NA
Liners							

** Freshwater casing set to 1,470' due to Red Rock formation

Bryan Harris
9-15-21

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	28	0.375	NA	NA	Class A	1.19
Fresh Water	13-3/8	17-1/2	0.380	2730	500	Class A	1.19
Coal							
Intermediate	9-5/8	12-3/8	0.395	3520	2,800	Class A	1.19
Production	5-1/2	8-3/4	0.361	14,360	11,500	50:50 POZ	1.16
Tubing	2-7/8	NA	0.217	13,870	NA	NA	NA
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

Utilize auger rig to set cellar & conductor. The conductor will be grouted with cement to surface. Mobilize top hole drilling rig. Drill surface section on air. Run surface (freshwater & coal string) casing to desired depth. The surface section will not penetrate sea level. Surface casing will be cemented to surface. Drill intermediate section on air. Run intermediate casing to desired depth. Intermediate casing will be cemented to surface. Drill on air the production section to the start of the curve (KOP). The well will be loaded with synthetic oil base drilling mud (SOBM). Demobilize top hole rig. Mobilize horizontal drilling rig. Finish drilling the production section utilizing MWD surveys and geosteering practices to maintain the wellbore in the Marcellus shale and prevent anti-collision. Production casing will be ran to TD and cement top will be inside the intermediate casing.

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

A cement bond log will determine the top of production casing cement. The production casing will be pressure tested. The hydraulic fracturing equipment will then open the toe sleeves and begin pumping the first stage. The plug-and-perf method will be used for the remaining stages. The max anticipated pressure during frac is 11,200psi and a max rate of 90bpm. After frac, the drillout rig will drill all plugs out of the well. Land production tubing at desired depth. Then flowback well until ready to turn in line to production facilities.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 72.29

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22) Area to be disturbed for well pad only, less access road (acres): 31.65

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23) Describe centralizer placement for each casing string:

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Surface: shoe track & every 3rd joint to surface
Intermediate: shoe track & every 3rd joint to surface
Production: Rigid bow centralizers at shoe track & every other joint in the lateral to KOP. Bow springs from KOP to surface every third joint.

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

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

25) Proposed borehole conditioning procedures:

Surface & intermediate on air will utilize high volumetric flow rates of air to ensure the wellbore is clean prior to TOH.
Production section will utilize synthetic oil based drilling mud to properly clean the wellbore. At TD, pump rate and rotation will be maximized and tripping will not begin until shakers flow clean.
Production casing will be circulated prior to cementing to ensure a prepared wellbore for cement.

*Note: Attach additional sheets as needed.



NORTHEAST NATURAL ENERGY, LLC

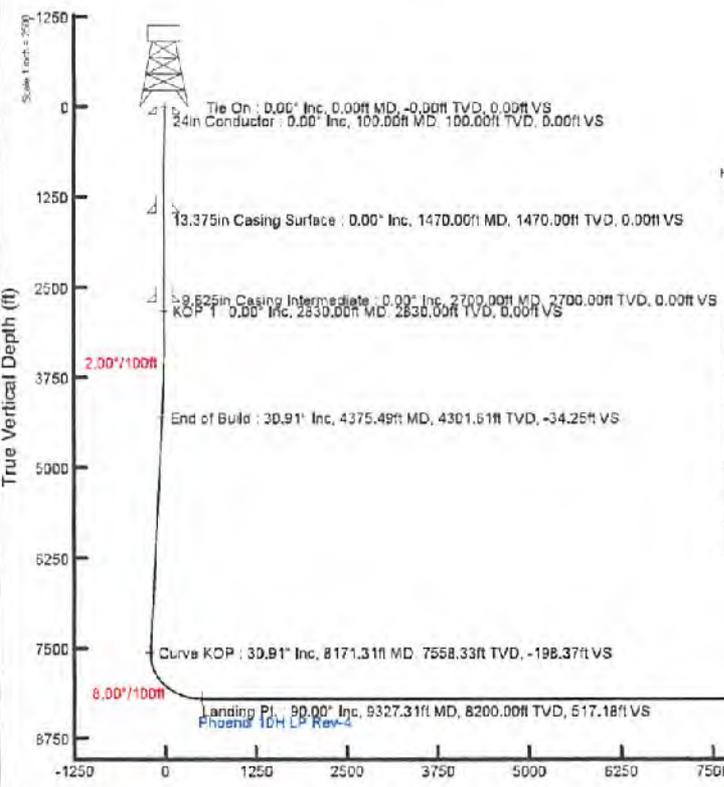
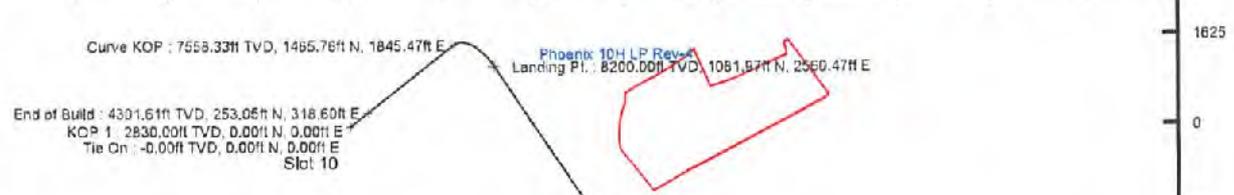
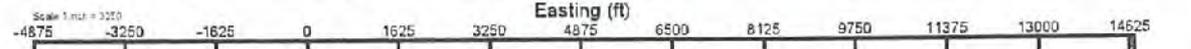
Location: Monongalia County, WV
 Field: Monongalia
 Facility: Phoenix Pad

Slot: Slot 10
 Well: Phoenix 10H
 Wellbore: Phoenix 10H PWB



Location Information				
Property Name	Block	Section	Latitude	Longitude
Phoenix Pad	T15	15	39°38'23.85"N	80°10'19.84"W
Well	15	15	39°38'23.85"N	80°10'19.84"W
Wellbore	15	15	39°38'23.85"N	80°10'19.84"W
Ground Level (GL) to Ground Level (GL) 500' 10"			0.0'	
Mean Sea Level to Ground Level (GL) 500' 10"			-15.00'	
Ground Level (GL) to Mean Sea Level			15.00'	

Casing Type	Hole Size	Casing Size	Grade	Weight	Casing Depth (GL)	Drill Depth (GL)
Conductor	28"	24"	N/A	N/A	100	100
Surface	17.5"	13.375"	J-55	54.5	1470	1500
Intermediate	12.375"	9.625"	J-55	36	2730	2760



HOGM2021v11.0 (1800.0 to 2022.0) Dip: 56.48° Field: 51922.7 nT
 Magnetic North is 8.98 degrees West of True North (at 9/2/2021)
 Grid North is 0.48 degrees West of True North
 To correct azimuth from True to Grid add 0.48 degrees
 To correct azimuth from Magnetic to Grid subtract 8.48 degrees

Formation	Top (GL)	Base (GL)
Tully	7972	8025
Hamilton	8025	8123
Upper Marcellus	8123	8168
Cherry Valley	8168	8179
Lower Marcellus	8179	8210
Target	8200	
Onondaga	8210	

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Phoenix 10H BHL Rev-6
 BHL : 8200.00ft TVD, 15016.14ft S, 13266.83ft E

Phoenix 10H BHL Rev-6
 BHL : 90.00° Inc, 28660.57ft MD, 8200.00ft TVD, 19850.44ft VS

Vertical Section (ft)
 Azimuth 146.37° with reference 0.00 N, 0.00 E

Scale 1 inch = 750'

Phoenix 10H Area of Review								
API Number	Well Name	Well Number	Operator	Latitude (NAD 27)	Longitude (NAD 27)	TMP	TVD	Comments
47-061-00089	NA	NA	NA	39.6289	-80.250737	4-19-14	NA	Plugged 3/14/2012
47-061-00498	John Myers	25	East Resources Inc.	39.639876	-80.261085	1-24-18	3490	Plugged 3/14/2014
47-061-00708	Denny Tennant	2	Eastern Associated / Peabody Coal Company	39.643981	-80.267242	1-17-14.1	3389	Plugged 12/3/1982
47-061-00710	Denny Tennant	EACC-F2-294	Eastern Associated / Peabody Coal Company	39.646301	-80.265742	1-17-14.1	NA	Plugged 3/9/1987
47-061-00723	Jimmy Walker	12	Eastern Associated / Peabody Coal Company	39.642531	-80.263303	4-24-17	NA	Plugged 6/25/1986
47-061-00726	Mary Walker & Garnet Brookover	NA	Eastern Associated / Peabody Coal Company	39.644271	-80.264616	4-24-17	NA	Plugged 7/30/1983
47-061-00746	Mary Walker & Garnet Brookover	21	Eastern Associated / Peabody Coal Company	39.643401	-80.26124	4-24-17	3261	Plugged 7/9/1984
47-061-00747	Sylvia O. Wilson	NA	Eastern Associated / Peabody Coal Company	39.638906	-80.258801	4-19-9	NA	NA
47-061-00811	Haught & Walker	16	Eastern Associated / Peabody Coal Company	39.642531	-80.271931	1-17-14.1	NA	Plugged 5/7/1986
47-061-00812	Denny Tennant	3	Eastern Associated / Peabody Coal Company	39.642531	-80.269305	1-17-14.1	NA	Plugged 6/2/1986
47-061-00823	Haught & Walker	15	Eastern Associated / Peabody Coal Company	39.640211	-80.27193	1-24-19.1	3337	Plugged 1/12/1987
47-061-01634	Penny Quickle	1	Eastern Associated / Peabody Coal Company	39.628653	-80.250644	4-19-14	3162	Plugged 3/14/2012
47-061-01648	Kathy Ice	NA	Eastern Associated / Peabody Coal Company	39.61959	-80.242312	4-26-10.3	NA	Plugged 9/14/2012
47-061-01652	Clarence Payton	NA	Eastern Associated / Peabody Coal Company	39.621249	-80.24399	4-26-11	NA	Plugged 4/1/2013
47-061-01653	Clarence Payton	NA	Eastern Associated / Peabody Coal Company	39.621063	-80.242644	4-26-11	NA	Plugged 2/22/2013
47-061-01654	Clarence Payton	F2-S39	Eastern Associated / Peabody Coal Company	39.621854	-80.241167	4-26-11	NA	Plugged 3/26/2013
47-061-00715	Wheeling Dollar Savings & Trust	EACC-F2-294	Eastern Associated / Peabody Coal Company	39.646301	-80.265742	1-17-14.1	NA	Plugged 3/29/1983
47-061-01655	Clarence Payton	F2-S40	Eastern Associated / Peabody Coal Company	39.620319	-80.240004	4-26-11	NA	Plugged 3/7/2013
47-061-00460	Albert & Terry Conaway	3	HG Energy, LLC	39.611102	-80.232699	4-26-33	3231	Plugged 9/29/2013
47-061-00468	Judy K Hamilton et al	3	Hefner, G. B., & Associates, Inc	39.631221	-80.261426	4-26-40	NA	Plugged 3/13/1997
47-061-01499	Franklin Conaway	7	East Resources, Inc.	39.613184	-80.237657	4-26-40	NA	Plugged 6/10/2005
47-061-00464	Bruce & Cecil Curfman	11	East Resources Inc et al	39.614032	-80.239866	4-26-14	NA	Plugged 5/26/2005

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10/29/2021

Northeast Natural Energy LLC Mine Contingency Plan

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

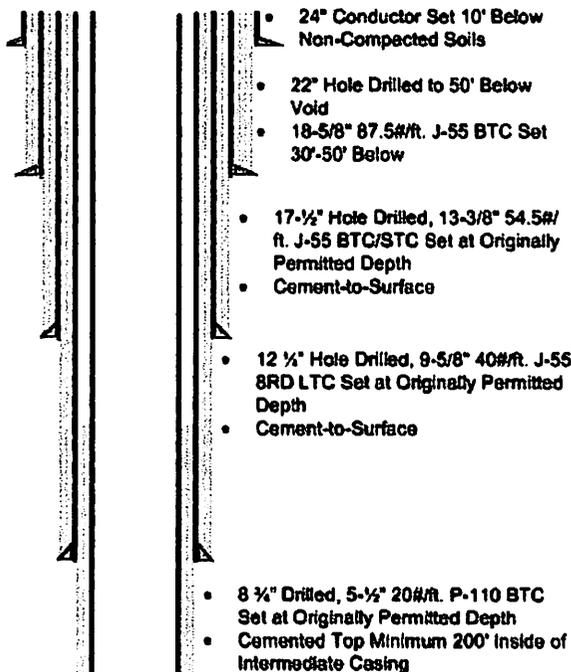
All casings programs submitted to the state incorporate the use of a 24" conductor over the previously used 20" that has long been the industry standard for a typical Marcellus design. The use of 24" conductor casing allows the use of a 22" bit to ream the surface hole, and drill 50' below the void to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

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

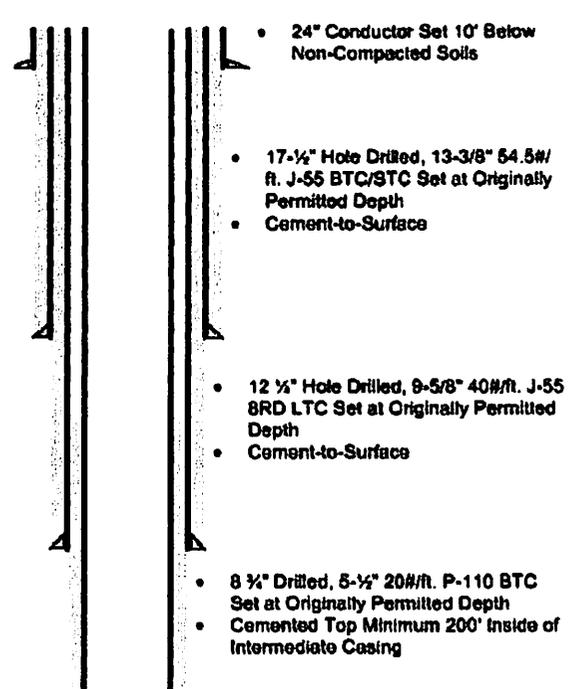
With the use of these string sizes and techniques, the surface and intermediate strings do not need to be altered. After a proper WOC time, the surface section of the well would continue to be drilled with a 17-1/2" bit and the 13-3/8" 54.50#/ft freshwater casing would be set at the originally permitted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

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

Casing Schematic w/ Mine String



Casing Schematic w/o Mine String



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11/11 - IC

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WW-9
(4/16)

4706101891

API Number 47 - _____
Operator's Well No. Phoenix 10H

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 Wadestown

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: NA

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

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

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

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

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

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

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

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

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

Subscribed and sworn before me this 9th day of September, 2021

Kristen Brooks

Notary Public

My commission expires Aug. 10, 2023



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

10/29/2021

Northeast Natural Energy LLC

Proposed Revegetation Treatment: Acres Disturbed 72.29 Prevegetation pH 5-7

Lime 2 Tons/acre or to correct to pH 7

Fertilizer type 19-19-19

Fertilizer amount 300 lbs/acre

Mulch 2 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 Perennial Rye	16	Tetraploid Perennial Rye	16
Timothy 15 Annual Rye 15		Timothy 15 Annual Rye	15

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Bryan Harris

Comments: _____

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Title: Inspector Date: 9-15-21

Field Reviewed? () Yes () No

Attachment A to WW-9

Northeast Natural Energy LLC ("NNE") plans to utilize a closed loop process for its drilling of the well. Return flow from the well will be separated into its liquid and solid form. Liquids will be held in steel tanks and reused in the drilling and completion process or disposed of at an approved facility listed below. Solids removed from the stream will be diverted to steel half-round tanks where they will be solidified on site and taken to disposal as they are accumulated.

The 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

Debra Harris
9-15-21

Phoenix 10H Site Safety Plan

September 2021

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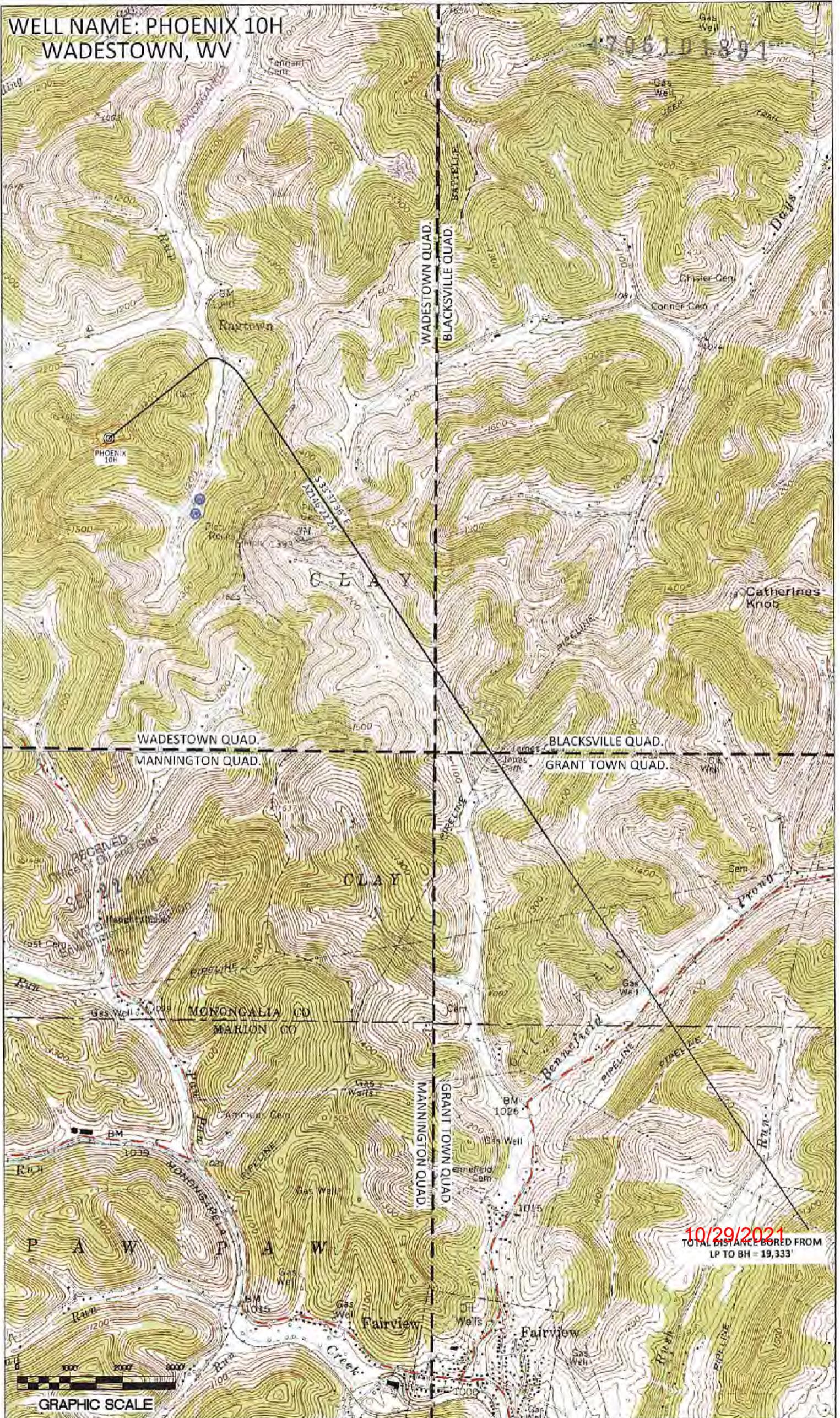
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10/29/2021

WELL NAME: PHOENIX 10H
WADESTOWN, WV

1706101891



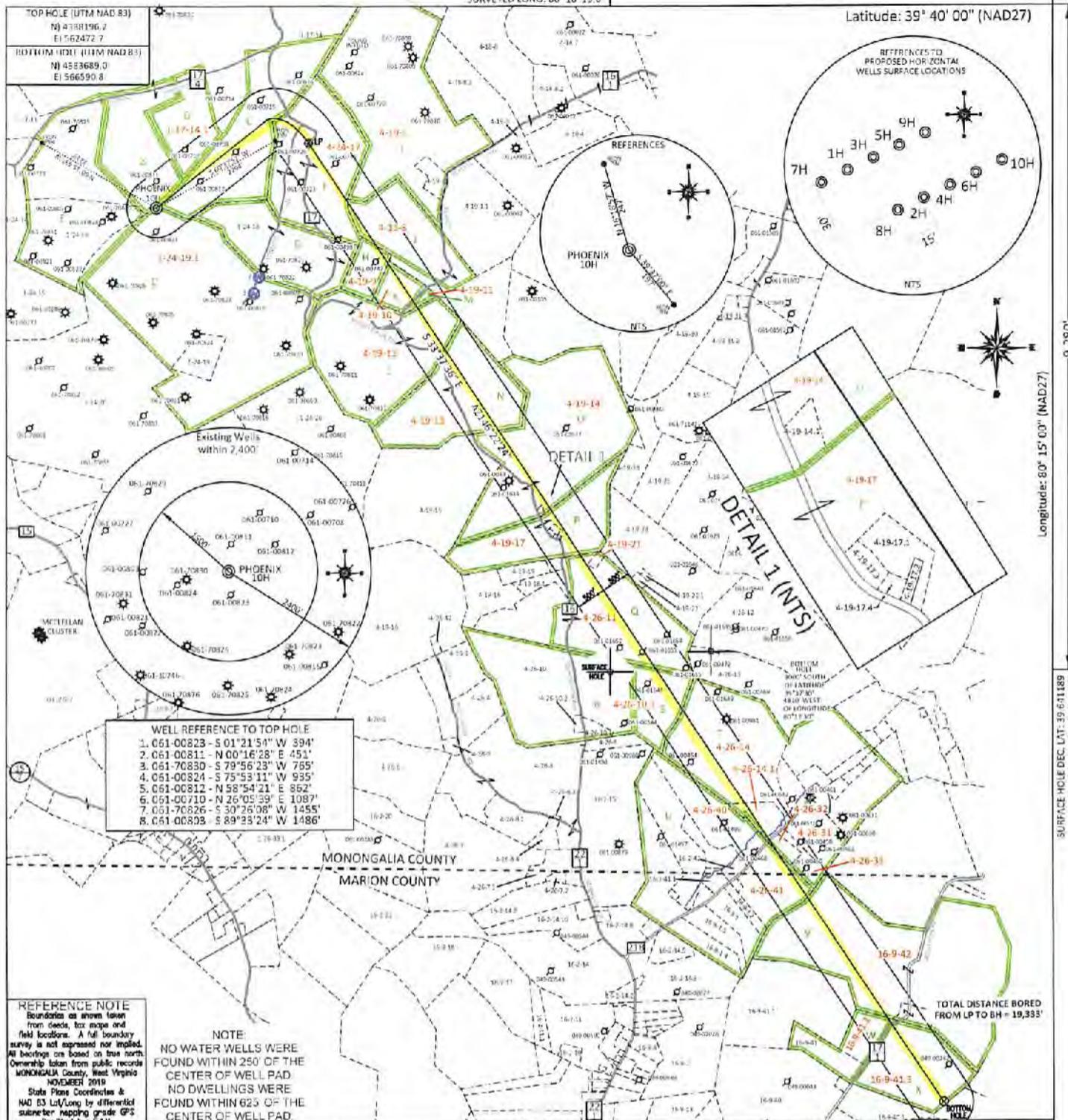
10/29/2021
TOTAL DISTANCE BORED FROM
LP TO BH = 19,333'

GRAPHIC SCALE

SURFACE HOLE DEC. LONG: 80.272125
SURVEYED LONG: 80° 16' 19.6"

6,230'

Latitude: 39° 40' 00" (NAD27)



Longitude: 80° 15' 03" (NAD27)
SURFACE HOLE DEC. LAT: 39.611889
SURVEYED LAT: 39° 36' 28.5"

FILE #: NNE16
DRAWING #: 2961
SCALE: PLAT: 1" = 2400'
TICK: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

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



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

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

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

WATERSHED: DUNKARD CREEK
COUNTY/DISTRICT: MONONGALIA / BATTIELE
SURFACE OWNER: CHARLES WENDELL MOORE & FRANK M. CHISLER
OIL & GAS ROYALTY OWNER: Pat L. Park, et al
LEASE NUMBERS: SEE PAGE 2

DATE: SEPTEMBER 9, 2021
OPERATOR'S WELL #: PHOENIX 10H
API WELL #: 47 61 01891
STATE COUNTY PERMIT
CURRENT ELEVATION: 1,538'
PROPOSED ELEVATION: 1,503.50'

QUADRANGLE: WADESTOWN
ACREAGE: 466.30 +/-
ACREAGE: 1865.89 **10/29/2021**

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS
ESTIMATED DEPTH: TVD: 8,200' TMD: 28,660'
WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
DESIGNATED AGENT: JOHN ADAMS
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

PROPERTY OWNER INDEX	
1-17-14.1	FRANK M. CHISLER
4-24-17	DAVID A POLING
4-19-12	EDITH L DARRAH
4-19-14	PENNY S QUICKLE
4-19-9	M BRITTON M EST
4-19-8	CHARLES W MOORE, JASON & KIRSTON (LIFE)
4-19-11	EVA, AARON & ALLISON MOORE (LIFE - KENDALL L MOORE)
4-19-14	PENNY S QUICKLE
4-26-11	CAROLYN S PAYTON
4-19-13	DOUGLAS L & DEBRA DARRAH
4-19-17	LEWIS M MAXWELL II & SHERRY E MAXWELL
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4-19-21	TUTTLE CEMETERY
4-26-10.3	WILLIAM R & KATHY L ICE
4-26-14	ELLEN M CURFMAN
4-19-10	ARTHUR EUGENE BRITTON
4-26-14.1	DAVID BRANDON & CHASITY NICOLE WILLIAMS
4-26-40	LUELLA R CONAWAY
4-26-32	ERNEST E & HILERI GORBEBY
4-26-31	ERNEST E & HILERI D GORBEBY
4-26-33	ERNEST E & HILERI D GORBEBY
4-26-41	THOMAS ALLEN KEANE JR & JUDITH LOUISE KEANE
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16-9-42	JAMES P & URSULA A MCDONALD
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16-9-41.3	ROYAL E & ELIZABETH J MOORE
4-19-17	LEWIS M MAXWELL II & SHERRY E MAXWELL

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Environmental Protection

LEASE INDEX			
A	WV-061-004079-001	M	WV-061-005330-002
B	WV-061-004079-001	N	WV-061-001941-031
C	WV-061-003767-004	O	WV-061-000146-001-LOI
D	WV-061-004463-001	P	WV-061-001422-002
E	WV-061-004076-010	Q	WV-061-004846-030
F	WV-061-005687-001	R	WV-061-005699-002
G	WV-061-005687-001	S	WV-061-000146-001-LOI
H	WV-061-004565-023	T	WV-061-000146-001-LOI
I	WV-061-005607-002	U	WV-061-000146-001-LOI
J	WV-061-002965-006	V	WV-061-000146-001-LOI
K	WV-061-005770-001	W	WV-061-000146-001-LOI
L	WV-061-001730-004	X	WV-061-000146-001-LOI

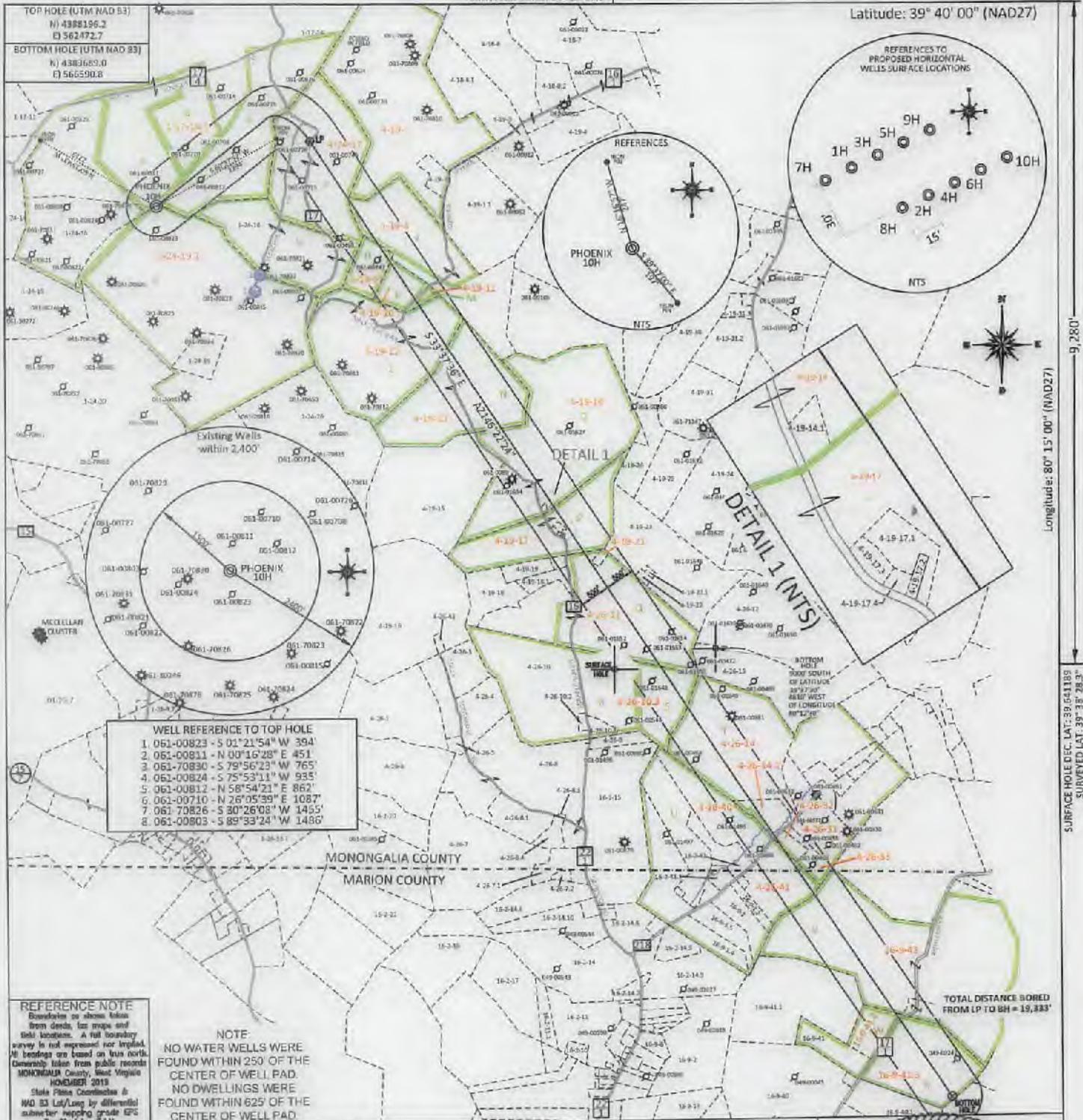
10/29/2021

FILE #: <u>NEE14</u>	DATE: <u>SEPTEMBER 9, 2021</u>
DRAWING #: <u>2961</u>	OPERATOR'S WELL #: <u>PHOENIX 10H</u>
SCALE: <u>N/A</u>	API WELL #: <u>47</u> <u>61</u> <u>01891</u> STATE COUNTY PERMIT

SURFACE HOLE DEC. LONG: 80.272125
SURVEYED LONG: 80° 16' 19.5"

6,230'

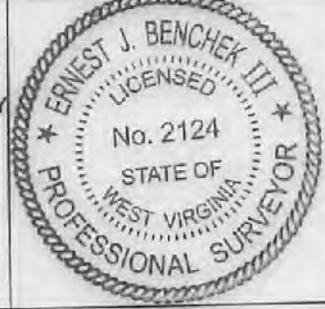
Latitude: 39° 40' 00" (NAD27)



Longitude: 80° 15' 00" (NAD27)
9,280'
SURFACE HOLE DEC. LAT: 39° 41' 18"
SURVEYED LAT: 39° 38' 28.3"

FILE #: NNE16
DRAWING #: 2961
SCALE: PLAT: 1" = 2400'
TICK: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

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



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OPERATOR'S WELL #: PHOENIX 10H
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STATE COUNTY PERMIT
CURRENT ELEVATION: 1,538'
PROPOSED ELEVATION: 1,503.50'

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

WATERSHED: DUNKARD CREEK
COUNTY/DISTRICT: MONONGALIA / BATTLE
SURFACE OWNER: CHARLES WENDELL MOORE & FRANK M. CHISLER
OIL & GAS ROYALTY OWNER: Pat L. Park, et al
LEASE NUMBERS: SEE PAGE 2

QUADRANGLE: WADESTOWN
ACREAGE: 466.30 +/-
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PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
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E	WV-061-004076-010	Q	WV-061-004846-030
F	WV-061-005687-001	R	WV-061-005699-002
G	WV-061-005687-001	S	WV-061-000146-001-LOI
H	WV-061-004565-023	T	WV-061-000146-001-LOI
I	WV-061-005607-002	U	WV-061-000146-001-LOI
J	WV-061-002965-006	V	WV-061-000146-001-LOI
K	WV-061-005770-001	W	WV-061-000146-001-LOI
L	WV-061-001730-004	X	WV-061-000146-001-LOI

10/29/2021

FILE #: NEE14

DRAWING #: 2961

SCALE: N/A

DATE: SEPTEMBER 9, 2021

OPERATOR'S WELL #: PHOENIX 10H

API WELL #: 47 61 01891
STATE COUNTY PERMIT

WW-6A1
(5/13)

Operator's Well No. Phoenix 10H

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

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

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

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

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WV Department of
Environmental Protection

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

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

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

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

Well Operator: Northeast Natural Energy, LLC
 By: Hollie Medley *Hollie Medley*
 Its: Regulatory Manager

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
A	WV-061-004079-001	Pat L. Park	Northeast Natural Energy, LLC	12.5% or Greater	1566	164
A	WV-061-004446-002	Richard Nichols	Northeast Natural Energy, LLC	12.5% or Greater	1582	359
A	WV-061-004446-001	John Nichols	Northeast Natural Energy, LLC	12.5% or Greater	1581	357
A	WV-061-004446-003	Harold Tinker	Northeast Natural Energy, LLC	12.5% or Greater	1581	362
A	WV-061-004079-002	Gordon E. Park, a/k/a Gordon Park	Northeast Natural Energy, LLC	12.5% or Greater	1565	582
A	WV-061-004079-003	Paulette Park	Northeast Natural Energy, LLC	12.5% or Greater	1566	162
A	WV-061-003767-004	ERP Federal Mining Complex, LLC	Northeast Natural Energy, LLC	12.5% or Greater	1564	86
B	WV-061-004079-001	Pat L. Park	Northeast Natural Energy, LLC	12.5% or Greater	1566	164
B	WV-061-004446-002	Richard Nichols	Northeast Natural Energy, LLC	12.5% or Greater	1582	359
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C	WV-061-003767-004	ERP Federal Mining Complex, LLC	Northeast Natural Energy, LLC	12.5% or Greater	1564	86
D	WV-061-004463-001	Patricia A. Haught	Northeast Natural Energy LLC	12.5% or Greater	1585	207
D	WV-061-004463-006	Regina Sue White	Northeast Natural Energy LLC	12.5% or Greater	1589	799
D	WV-061-004463-014	Belva York	Northeast Natural Energy LLC	12.5% or Greater	1589	833
D	WV-061-004463-010	Gary K. Moore and Janice Moore	Northeast Natural Energy LLC	12.5% or Greater	1589	829
D	WV-061-004463-012	Eric R. Moore and Connie L. Moore	Northeast Natural Energy LLC	12.5% or Greater	1589	809
D	WV-061-004463-009	Karen Breedlove	Northeast Natural Energy LLC	12.5% or Greater	1589	805
D	WV-061-004463-007	Kathy Sue Breedlove	Northeast Natural Energy LLC	12.5% or Greater	1589	801
D	WV-061-004463-021	Robert C. Moore	Northeast Natural Energy LLC	12.5% or Greater	1591	288
D	WV-061-004463-008	William K. Moore	Northeast Natural Energy LLC	12.5% or Greater	1589	803
D	WV-061-004463-011	Shirley Foster	Northeast Natural Energy LLC	12.5% or Greater	1589	807
D	WV-061-004463-013	Jackie Cotter	Northeast Natural Energy LLC	12.5% or Greater	1589	831
D	WV-061-004463-015	Ronald J. Haught	Northeast Natural Energy LLC	12.5% or Greater	1590	343
D	WV-061-004463-004	David M. Haught	Northeast Natural Energy LLC	12.5% or Greater	1588	434
D	WV-061-004463-017	Stanley L. Haught	Northeast Natural Energy LLC	12.5% or Greater	1591	280
D	WV-061-004463-003	Warren P. Haught	Northeast Natural Energy LLC	12.5% or Greater	1588	432
D	WV-061-004463-005	Connie S. Leary	Northeast Natural Energy LLC	12.5% or Greater	1588	436
D	WV-061-004463-016	Robert N. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1590	345
D	WV-061-004463-018	Louella K. Woods	Northeast Natural Energy LLC	12.5% or Greater	1591	282
D	WV-061-004463-020	Belletta Kasha Haught	Northeast Natural Energy LLC	12.5% or Greater	1591	286
D	WV-061-004463-019	Dale Haught	Northeast Natural Energy LLC	12.5% or Greater	1591	284
D	WV-061-004463-022	Patricia L. Haught	Northeast Natural Energy LLC	12.5% or Greater	1591	543
D	WV-061-004463-024	Lena R. Hendershot	Northeast Natural Energy LLC	12.5% or Greater	1602	29
D	WV-061-005188-001	Robert K. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1621	770
E	WV-061-004076-010	Elizabeth C. Kiser	Northeast Natural Energy, LLC	12.5% or Greater	1565	197
E	WV-061-004076-007	John Roy Post	Northeast Natural Energy, LLC	12.5% or Greater	1566	176

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
E	WV-061-004076-012	Robert Lee Post	Northeast Natural Energy, LLC	12.5% or Greater	1565	191
E	WV-061-004076-002	Martha Susan Post	Northeast Natural Energy, LLC	12.5% or Greater	1562	745
E	WV-061-004076-005	Mara Post Nichols	Northeast Natural Energy, LLC	12.5% or Greater	1566	533
E	WV-061-004076-009	Joshua Post	Northeast Natural Energy, LLC	12.5% or Greater	1565	193
E	WV-061-004076-011	Jennifer Clare Bottoni	Northeast Natural Energy, LLC	12.5% or Greater	1565	588
E	WV-061-004076-013	Tori Birch	Northeast Natural Energy, LLC	12.5% or Greater	1568	509
E	WV-061-004076-006	Seth Pirmann	Northeast Natural Energy, LLC	12.5% or Greater	1563	188
E	WV-061-004076-008	Stacy Pirmann	Northeast Natural Energy, LLC	12.5% or Greater	1565	195
E	WV-061-004076-001	Sadie Pirmann Werley	Northeast Natural Energy, LLC	12.5% or Greater	1562	743
E	WV-061-004076-004	Jamie Lyn Pirmann	Northeast Natural Energy, LLC	12.5% or Greater	1562	741
E	WV-061-004076-003	Addisville Reformed Church	Northeast Natural Energy, LLC	12.5% or Greater	1562	747
F	WV-061-005687-001	Lynda Reeves Williams	Northeast Natural Energy, LLC	12.5% or Greater	1719	699
F	WV-061-005743-001	Donald G. Tennant, II	Northeast Natural Energy, LLC	12.5% or Greater	1728	713
F	WV-061-005687-003	Craig A. Dintaman	Northeast Natural Energy, LLC	12.5% or Greater	1730	359
G	WV-061-005687-001	Lynda Reeves Williams	Northeast Natural Energy, LLC	12.5% or Greater	1719	699
G	WV-061-005743-001	Donald G. Tennant, II	Northeast Natural Energy, LLC	12.5% or Greater	1728	713
G	WV-061-005687-003	Craig A. Dintaman	Northeast Natural Energy, LLC	12.5% or Greater	1730	359
H	WV-061-004565-023	Brian Britton	Northeast Natural Energy, LLC	12.5% or Greater	1608	652
H	WV-061-004565-024	Brenda Chappell	Northeast Natural Energy, LLC	12.5% or Greater	1608	654
H	WV-061-005443-020	Anita A. Landis	Northeast Natural Energy, LLC	12.5% or Greater	1678	695
H	WV-061-004565-021	DyAnn E. Lind Arnold	Northeast Natural Energy, LLC	12.5% or Greater	1604	848
H	WV-061-004565-019	William Joseph Arnold	Northeast Natural Energy, LLC	12.5% or Greater	1601	496
H	WV-061-005443-022	Christopher Stoltz	Northeast Natural Energy, LLC	12.5% or Greater	1690	290
H	WV-061-005443-021	Michael L. Stoltz	Northeast Natural Energy, LLC	12.5% or Greater	1683	309
H	WV-061-004565-001	Susan K. Gump	Northeast Natural Energy, LLC	12.5% or Greater	1592	562
H	WV-061-005443-019	James D. Gump and Wendy Gump	Northeast Natural Energy, LLC	12.5% or Greater	1673	317
H	WV-061-004565-025	Robert N. Gump and Janet Gump	Northeast Natural Energy, LLC	12.5% or Greater	1608	656
H	WV-061-005443-008	Heidi A. Boehm and Joseph Boehm	Northeast Natural Energy, LLC	12.5% or Greater	1673	315
H	WV-061-004565-013	Timothy L. Gump	Northeast Natural Energy, LLC	12.5% or Greater	1598	736
H	WV-061-004565-007	Nancy M. Henry and Eric Henry	Northeast Natural Energy, LLC	12.5% or Greater	1595	476
H	WV-061-004565-009	Mary Lawlis	Northeast Natural Energy, LLC	12.5% or Greater	1599	108
H	WV-061-004565-031	Katrina Bosworth	Northeast Natural Energy, LLC	12.5% or Greater	1615	577
H	WV-061-004565-032	Thomas Lawlis	Northeast Natural Energy, LLC	12.5% or Greater	1631	400
H	WV-061-004565-027	Joseph Edward Lawlis	Northeast Natural Energy, LLC	12.5% or Greater	1612	270
H	WV-061-004565-026	Dianne Fox	Northeast Natural Energy, LLC	12.5% or Greater	1611	33
H	WV-061-004565-011	Jack Richard Lawlis	Northeast Natural Energy, LLC	12.5% or Greater	1598	757
H	WV-061-004565-010	Alice Phillips	Northeast Natural Energy, LLC	12.5% or Greater	1598	732
H	WV-061-004565-012	Mary Jane Thralls	Northeast Natural Energy, LLC	12.5% or Greater	1598	734
H	WV-061-004565-014	Francis E. Markley	Northeast Natural Energy, LLC	12.5% or Greater	1599	110
H	WV-061-004565-020	Carolyn G. Jones	Northeast Natural Energy, LLC	12.5% or Greater	1602	242
H	WV-061-004565-015	Donna Jones and Graham Hill	Northeast Natural Energy, LLC	12.5% or Greater	1600	281
H	WV-061-004565-018	Sheridan G. Haught	Northeast Natural Energy, LLC	12.5% or Greater	1600	51

WV Department of Environmental Protection

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H	WV-061-004565-016	Trey W. Haught	Northeast Natural Energy, LLC	12.5% or Greater	1600	47
H	WV-061-004565-017	Tristan A. Haught	Northeast Natural Energy, LLC	12.5% or Greater	1600	49
H	WV-061-004565-029	Arnett B. Anderson	Northeast Natural Energy, LLC	12.5% or Greater	1613	32
H	WV-061-004565-030	Allen S. Anderson	Northeast Natural Energy, LLC	12.5% or Greater	1613	454
H	WV-061-005443-016	John R. Anderson	Northeast Natural Energy, LLC	12.5% or Greater	1666	185
H	WV-061-004565-028	David Gary Emery	Northeast Natural Energy, LLC	12.5% or Greater	1611	674
H	WV-061-005443-015	James Kyle Emery	Northeast Natural Energy, LLC	12.5% or Greater	1666	183
H	WV-061-004660-001	Margaret Diane Toothman Fine	Northeast Natural Energy, LLC	12.5% or Greater	1600	57
H	WV-061-004660-004	Gail Jones Lively	Northeast Natural Energy, LLC	12.5% or Greater	1606	484
H	WV-061-004660-004	Max Wayne Bouillet	Northeast Natural Energy, LLC	12.5% or Greater	1606	482
H	WV-061-004660-003	Teddy Kyle Toothman	Northeast Natural Energy, LLC	12.5% or Greater	1605	152
H	WV-061-004660-002	Bob Ellis Edens	Northeast Natural Energy, LLC	12.5% or Greater	1602	254
H	WV-061-004565-004	Delores D. Johnson	Northeast Natural Energy, LLC	12.5% or Greater	1593	521
H	WV-061-004565-005	Elsie Dickerson	Northeast Natural Energy, LLC	12.5% or Greater	1593	523
H	WV-061-004565-003	John Britton	Northeast Natural Energy, LLC	12.5% or Greater	1593	519
H	WV-061-005443-017	Edward Britton a/k/a Edward R. Britton	Northeast Natural Energy, LLC	12.5% or Greater	1671	288
H	WV-061-005443-018	Shirley M. Britton	Northeast Natural Energy, LLC	12.5% or Greater	1647	139
H	WV-061-005443-003	Barbara Thaynes	Northeast Natural Energy, LLC	12.5% or Greater	1645	324
H	WV-061-005443-002	Nial T. Britton	Northeast Natural Energy, LLC	12.5% or Greater	1645	322
H	WV-061-005443-010	Timothy I. Britton	Northeast Natural Energy, LLC	12.5% or Greater	1647	135
H	WV-061-005443-001	Sherlyn J. Enderlain	Northeast Natural Energy, LLC	12.5% or Greater	1643	444
H	WV-061-005443-006	Diana K. Hanshaw	Northeast Natural Energy, LLC	12.5% or Greater	1647	128
H	WV-061-005443-009	Berniece L. Kis	Northeast Natural Energy, LLC	12.5% or Greater	1647	133
H	WV-061-005443-005	Mark A. Britton	Northeast Natural Energy, LLC	12.5% or Greater	1645	328
H	WV-061-005443-013	Michael A. Bragg	Northeast Natural Energy, LLC	12.5% or Greater	1648	49
H	WV-061-005443-004	Joseph Cornwell	Northeast Natural Energy, LLC	12.5% or Greater	1645	326
H	WV-061-005443-014	Jenny E. Sizemore	Northeast Natural Energy, LLC	12.5% or Greater	1661	841
H	WV-061-005443-011	Jared Britton	Northeast Natural Energy, LLC	12.5% or Greater	1647	137
H	WV-061-005443-012	Judi Marie Evans	Northeast Natural Energy, LLC	12.5% or Greater	1648	47
H	WV-061-005443-007	Patricia L. Jastrzab f/k/a Patricia L. Young	Northeast Natural Energy, LLC	12.5% or Greater	1647	131
H	WV-061-005770-001	Equinor USA Onshore Properties	Northeast Natural Energy, LLC	12.5% or Greater	1738	798
H	WV-061-004971-048	Eileen M. Flynt	Northeast Natural Energy, LLC	12.5% or Greater	1627	391
H	WV-061-004971-049	Kathleen Louise Taylor	Northeast Natural Energy, LLC	12.5% or Greater	1628	466
H	WV-061-004378-025	Wallace R. Bever	Northeast Natural Energy, LLC	12.5% or Greater	1628	226
H	WV-061-004378-038	Laura Rose Brown	Northeast Natural Energy, LLC	12.5% or Greater	1679	260
H	WV-061-004378-019	Marilyn Bean Knight	Northeast Natural Energy, LLC	12.5% or Greater	1621	591
H	WV-061-004378-018	Patricia Ann Knight	Northeast Natural Energy, LLC	12.5% or Greater	1621	551
H	WV-061-004971-079	David Forrest Knight	Northeast Natural Energy, LLC	12.5% or Greater	1636	251
H	WV-061-004378-024	Martha Jean Mitchell	Northeast Natural Energy, LLC	12.5% or Greater	1627	284
H	WV-061-004378-020	Charles Ralston Banister	Northeast Natural Energy, LLC	12.5% or Greater	1622	551
H	WV-061-004971-059	Mary K. Frisch	Northeast Natural Energy, LLC	12.5% or Greater	1628	468
H	WV-061-004971-064	David Morgan Bannister	Northeast Natural Energy, LLC	12.5% or Greater	1628	477

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H	WV-061-004378-021	Marjorie Ann Turley	Northeast Natural Energy, LLC	12.5% or Greater	1627	278
H	WV-061-004378-023	John Evan Northeimer	Northeast Natural Energy, LLC	12.5% or Greater	1627	282
H	WV-061-004378-022	William W. Northeimer	Northeast Natural Energy, LLC	12.5% or Greater	1627	280
H	WV-061-004378-006	John F. Miller	Northeast Natural Energy, LLC	12.5% or Greater	1591	169
H	WV-061-004378-009	Hope M. Miller	Northeast Natural Energy, LLC	12.5% or Greater	1593	427
H	WV-061-004378-010	Scott Miller	Northeast Natural Energy, LLC	12.5% or Greater	1595	437
H	WV-061-004378-008	Kevin A. Miller	Northeast Natural Energy, LLC	12.5% or Greater	1593	685
H	WV-061-004378-005	Eva G. O'Neill	Northeast Natural Energy, LLC	12.5% or Greater	1591	167
H	WV-061-004378-016	Dawn Marie Gerth	Northeast Natural Energy, LLC	12.5% or Greater	1607	590
H	WV-061-004378-015	Keith Atwood	Northeast Natural Energy, LLC	12.5% or Greater	1602	77
H	WV-061-004378-012	Joyce Eife	Northeast Natural Energy, LLC	12.5% or Greater	1598	714
H	WV-061-004378-017	Nicholas J. Gerhardt	Northeast Natural Energy, LLC	12.5% or Greater	1614	424
H	WV-061-004378-007	Phoebe A. Hough	Northeast Natural Energy, LLC	12.5% or Greater	1591	173
H	WV-061-004379-014	Thomas Judson Ashcraft	Northeast Natural Energy, LLC	12.5% or Greater	1598	755
H	WV-061-004378-013	Nancy Ashcraft	Northeast Natural Energy, LLC	12.5% or Greater	1598	718
H	WV-061-004378-011	Martha Sanchez	Northeast Natural Energy, LLC	12.5% or Greater	1598	712
H	WV-061-004378-003	Jeanne Allen	Northeast Natural Energy, LLC	12.5% or Greater	1586	500
H	WV-061-004378-004	John C. Rhineberger	Northeast Natural Energy, LLC	12.5% or Greater	1588	573
H	WV-061-004971-044	Douglas E. Browning	Northeast Natural Energy, LLC	12.5% or Greater	1622	803
H	WV-061-004971-023	Frances C. Richie	Northeast Natural Energy, LLC	12.5% or Greater	1618	739
H	WV-061-004971-021	Patrick C. Barr	Northeast Natural Energy, LLC	12.5% or Greater	1618	735
H	WV-061-004971-015	Michael P. Barr	Northeast Natural Energy, LLC	12.5% or Greater	1618	725
H	WV-061-004971-014	Larry S. Barr	Northeast Natural Energy, LLC	12.5% or Greater	1618	723
H	WV-061-004971-063	Kevin P. Watson	Northeast Natural Energy, LLC	12.5% or Greater	1628	474
H	WV-061-004971-060	Jeremy B. Watson	Northeast Natural Energy, LLC	12.5% or Greater	1628	470
H	WV-061-004971-019	Joyce L. Masser	Northeast Natural Energy, LLC	12.5% or Greater	1618	731
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H	WV-061-004971-026	Linda S. Frankford	Northeast Natural Energy, LLC	12.5% or Greater	1620	45
H	WV-061-004971-074	Becki L. Deskin	Northeast Natural Energy, LLC	12.5% or Greater	1633	501
H	WV-061-004971-022	Paula L. Picon	Northeast Natural Energy, LLC	12.5% or Greater	1618	737
H	WV-061-004971-012	Linda Austin	Northeast Natural Energy, LLC	12.5% or Greater	1618	719
H	WV-061-004971-050	James Alan Williams	Northeast Natural Energy, LLC	12.5% or Greater	1627	385
H	WV-061-004971-050	Joyce Williams	Northeast Natural Energy, LLC	12.5% or Greater	1627	385
H	WV-061-004971-051	Jack Williams	Northeast Natural Energy, LLC	12.5% or Greater	1627	387
H	WV-061-004971-025	Jennifer Williams	Northeast Natural Energy, LLC	12.5% or Greater	1620	43
H	WV-061-004971-024	Jaye Ann Williams	Northeast Natural Energy, LLC	12.5% or Greater	1618	741
H	WV-061-004971-076	Patrick K. Myers	Northeast Natural Energy, LLC	12.5% or Greater	1635	426
H	WV-061-004971-082	Keith A. Myers	Northeast Natural Energy, LLC	12.5% or Greater	1637	736
H	WV-061-004971-061	Larry R. Moore	Northeast Natural Energy, LLC	12.5% or Greater	1628	472
H	WV-061-004971-080	Eleanor J. Carroll	Northeast Natural Energy, LLC	12.5% or Greater	1636	253
H	WV-061-004971-081	Claudia Brown	Northeast Natural Energy, LLC	12.5% or Greater	1637	734
H	WV-061-004971-045	Rhonda Bailey	Northeast Natural Energy, LLC	12.5% or Greater	1623	495

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H	WV-061-004971-017	Ora Kay Yarbrough	Northeast Natural Energy, LLC	12.5% or Greater	1618	727
H	WV-061-004971-007	Debra S. Wells	Northeast Natural Energy, LLC	12.5% or Greater	1616	222
H	WV-061-004971-066	Patricia S. Christian	Northeast Natural Energy, LLC	12.5% or Greater	1629	152
H	WV-061-004971-027	Paulette A. Sawvel	Northeast Natural Energy, LLC	12.5% or Greater	1620	58
H	WV-061-004971-052	Darlene W. Vorhies	Northeast Natural Energy, LLC	12.5% or Greater	1627	389
H	WV-061-004971-046	Jerry Atwood	Northeast Natural Energy, LLC	12.5% or Greater	1627	74
H	WV-061-004971-084	Julie K. Kime	Northeast Natural Energy, LLC	12.5% or Greater	1637	738
H	WV-061-004971-034	Celia Harman	Northeast Natural Energy, LLC	12.5% or Greater	1621	624
H	WV-061-004971-083	Steven Hawk	Northeast Natural Energy, LLC	12.5% or Greater	1638	546
H	WV-061-004971-085	Kelley Kueck	Northeast Natural Energy, LLC	12.5% or Greater	1640	327
H	WV-061-004378-030	Billie J. Hodges	Northeast Natural Energy, LLC	12.5% or Greater	1661	773
H	WV-061-005284-001	James B. Hawk	Northeast Natural Energy, LLC	12.5% or Greater	1629	308
H	WV-061-004378-041	Kevin Hawk	Northeast Natural Energy, LLC	12.5% or Greater	1691	774
H	WV-061-004971-008	Barbara Uhrig	Northeast Natural Energy, LLC	12.5% or Greater	1618	376
H	WV-061-004971-042	Rhonda Henry	Northeast Natural Energy, LLC	12.5% or Greater	1622	799
H	WV-061-004971-043	Robin Cornett	Northeast Natural Energy, LLC	12.5% or Greater	1622	801
H	WV-061-004378-043	Cindy Russell Lee	Northeast Natural Energy, LLC	12.5% or Greater	1689	439
H	WV-061-004971-029	Karen A. Palencar	Northeast Natural Energy, LLC	12.5% or Greater	1620	62
H	WV-061-004378-027	David Harold Russell	Northeast Natural Energy, LLC	12.5% or Greater	1652	213
H	WV-061-004378-042	Peggy Lee Burchett	Northeast Natural Energy, LLC	12.5% or Greater	1689	437
H	WV-061-004971-072	Tamaree Beatrice Littlefield	Northeast Natural Energy, LLC	12.5% or Greater	1631	451
H	WV-061-005500-034	Belinda Michele Gilpin	Northeast Natural Energy, LLC	12.5% or Greater	1687	605
H	WV-061-004971-020	John Fincke	Northeast Natural Energy, LLC	12.5% or Greater	1618	733
H	WV-061-004971-018	Debra C. Edwards	Northeast Natural Energy, LLC	12.5% or Greater	1618	729
H	WV-061-004971-004	Iris J. Russell	Northeast Natural Energy, LLC	12.5% or Greater	1616	184
H	WV-061-004971-005	William D. Garrett	Northeast Natural Energy, LLC	12.5% or Greater	1616	186
H	WV-061-004971-013	Barbara A. Stover	Northeast Natural Energy, LLC	12.5% or Greater	1618	721
H	WV-061-004971-002	Robert A. Garrett	Northeast Natural Energy, LLC	12.5% or Greater	1616	180
H	WV-061-004378-035	Todd E. Long	Northeast Natural Energy, LLC	12.5% or Greater	1673	366
H	WV-061-004971-001	Cynthia K. Leininger	Northeast Natural Energy, LLC	12.5% or Greater	1615	633
H	WV-061-004971-006	Dorothy Mae Johnson	Northeast Natural Energy, LLC	12.5% or Greater	1616	220
H	WV-061-004378-044	Charles A. Winland	Northeast Natural Energy, LLC	12.5% or Greater	1689	441
H	WV-061-004971-028	Thomas L. Winland	Northeast Natural Energy, LLC	12.5% or Greater	1620	60
H	WV-061-005443-023	William B. Winland	Northeast Natural Energy, LLC	12.5% or Greater	1690	292
H	WV-061-004971-003	Coralee Garrett	Northeast Natural Energy, LLC	12.5% or Greater	1616	182
H	WV-061-004971-010	Rodona A. Dunfee	Northeast Natural Energy, LLC	12.5% or Greater	1618	380
H	WV-061-004971-047	Patti L. Leasrue	Northeast Natural Energy, LLC	12.5% or Greater	1627	76
H	WV-061-004971-009	Sharon K. Gustina	Northeast Natural Energy, LLC	12.5% or Greater	1618	378
H	WV-061-004378-039	Joshua K. "Kenney" Irwin	Northeast Natural Energy, LLC	12.5% or Greater	1687	198
H	WV-061-004971-071	Maria Evanoff	Northeast Natural Energy, LLC	12.5% or Greater	1631	449

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H	WV-061-004971-068	Erin Chacon	Northeast Natural Energy, LLC	12.5% or Greater	1631	279
H	WV-061-004378-028	William D. Louthen	Northeast Natural Energy, LLC	12.5% or Greater	1660	410
H	WV-061-004378-028	Constance "Brenner" Louthen	Northeast Natural Energy, LLC	12.5% or Greater	1660	410
H	WV-061-004378-026	Ruth A. Garrett	Northeast Natural Energy, LLC	12.5% or Greater	1650	153
H	WV-061-004971-077	Donna M. Engle a/k/a Donna M. Kelly	Northeast Natural Energy, LLC	12.5% or Greater	1635	428
H	WV-061-004378-034	Maxine G. Morton	Northeast Natural Energy, LLC	12.5% or Greater	1671	298
H	WV-061-004378-033	Karen Anita Powers	Northeast Natural Energy, LLC	12.5% or Greater	1671	296
H	WV-061-004378-032	Douglas Sullon	Northeast Natural Energy, LLC	12.5% or Greater	1161	777
H	WV-061-004378-036	Danielle Bialock	Northeast Natural Energy, LLC	12.5% or Greater	1673	358
H	WV-061-004378-029	Barbara June Sutton	Northeast Natural Energy, LLC	12.5% or Greater	1660	412
H	WV-061-004378-031	Stephen R. Sutton	Northeast Natural Energy, LLC	12.5% or Greater	1661	775
H	WV-061-004378-032	Douglas B. Sutton	Northeast Natural Energy, LLC	12.5% or Greater	1661	777
H	WV-061-004481-001	The Burns Family General Partnership	Northeast Natural Energy, LLC	12.5% or Greater	1585	473
H	WV-061-004378-002	Ruth Ann Burns	Northeast Natural Energy, LLC	12.5% or Greater	1578	446
H	WV-061-004378-001	Nancy Lawler	Northeast Natural Energy, LLC	12.5% or Greater	1578	444
I	WV-061-005607-002	Kathleen Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1687	243
I	WV-061-005607-003	Ryan S. Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1687	245
I	WV-061-005607-001	Alan W. Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1687	241
I	WV-061-005607-004	Michael G. Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1687	247
J	WV-061-002965-006	Charles W. Moore	Northeast Natural Energy, LLC	12.5% or Greater	1523	809
J	WV-061-002965-007	Jason T. Moore	Northeast Natural Energy, LLC	12.5% or Greater	1523	730
J	WV-061-002965-004	Eric R. Finch	Northeast Natural Energy, LLC	12.5% or Greater	1524	336
J	WV-061-002965-008	Levi Finch	Northeast Natural Energy, LLC	12.5% or Greater	1681	1693
K	WV-061-005770-001	Equinor USA Onshore Properties, Inc.	Northeast Natural Energy, LLC	12.5% or Greater	1738	798
K	WV-061-004971-048	Eileen M. Flynt	Northeast Natural Energy, LLC	12.5% or Greater	1627	391
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K	WV-061-004378-021	Marjorie Ann Turley	Northeast Natural Energy, LLC	12.5% or Greater	1627	278
K	WV-061-004378-023	John Evan Northeimer	Northeast Natural Energy, LLC	12.5% or Greater	1627	282
K	WV-061-004378-022	William W. Northeimer	Northeast Natural Energy, LLC	12.5% or Greater	1627	280
K	WV-061-004378-006	John F. Miller	Northeast Natural Energy, LLC	12.5% or Greater	1591	169
K	WV-061-004378-009	Hope M. Miller	Northeast Natural Energy, LLC	12.5% or Greater	1593	427
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K	WV-061-004971-052	Darlene W. Vorhies	Northeast Natural Energy, LLC	12.5% or Greater	1627	389

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K	WV-061-004378-043	Cindy Russell Lee	Northeast Natural Energy, LLC	12.5% or Greater	1689	439
K	WV-061-004971-029	Karen A. Palencar	Northeast Natural Energy, LLC	12.5% or Greater	1620	62
K	WV-061-004378-027	David Harold Russell	Northeast Natural Energy, LLC	12.5% or Greater	1652	213
K	WV-061-004378-042	Peggy Lee Burchett	Northeast Natural Energy, LLC	12.5% or Greater	1689	437
K	WV-061-004971-072	Tamaree Beatrice Littlefield	Northeast Natural Energy, LLC	12.5% or Greater	1631	451
K	WV-061-005500-034	Belinda Michele Gilpin	Northeast Natural Energy, LLC	12.5% or Greater	1687	605
K	WV-061-004971-020	John Fincke	Northeast Natural Energy, LLC	12.5% or Greater	1618	733
K	WV-061-004971-018	Debra C. Edwards	Northeast Natural Energy, LLC	12.5% or Greater	1618	729
K	WV-061-004971-004	Iris J. Russell	Northeast Natural Energy, LLC	12.5% or Greater	1616	184
K	WV-061-004971-005	William D. Garrett	Northeast Natural Energy, LLC	12.5% or Greater	1616	186
K	WV-061-004971-013	Barbara A. Stover	Northeast Natural Energy, LLC	12.5% or Greater	1618	721
K	WV-061-004971-002	Robert A. Garrett	Northeast Natural Energy, LLC	12.5% or Greater	1616	180
K	WV-061-004378-035	Todd E. Long	Northeast Natural Energy, LLC	12.5% or Greater	1673	366
K	WV-061-004971-001	Cynthia K. Leininger	Northeast Natural Energy, LLC	12.5% or Greater	1615	633
K	WV-061-004971-006	Dorothy Mae Johnson	Northeast Natural Energy, LLC	12.5% or Greater	1616	220
K	WV-061-004378-044	Charles A. Winland	Northeast Natural Energy, LLC	12.5% or Greater	1689	441
K	WV-061-004971-028	Thomas L. Winland	Northeast Natural Energy, LLC	12.5% or Greater	1620	60
K	WV-061-004282-002	William B. Winland	Northeast Natural Energy, LLC	12.5% or Greater	1690	236
K	WV-061-004971-003	Coralee Garrett	Northeast Natural Energy, LLC	12.5% or Greater	1616	182
K	WV-061-004971-010	Rodona A. Dunfee	Northeast Natural Energy, LLC	12.5% or Greater	1618	380
K	WV-061-004971-047	Patti L. Leasrue	Northeast Natural Energy, LLC	12.5% or Greater	1627	76
K	WV-061-004971-009	Sharon K. Gustina	Northeast Natural Energy, LLC	12.5% or Greater	1618	378
K	WV-061-004378-039	Joshua K. "Kenney" Irwin	Northeast Natural Energy, LLC	12.5% or Greater	1687	198
K	WV-061-004971-071	Maria Evanoff	Northeast Natural Energy, LLC	12.5% or Greater	1631	449
K	WV-061-004971-068	Erin Chacon	Northeast Natural Energy, LLC	12.5% or Greater	1631	279
K	WV-061-004378-028	William D. Louthen	Northeast Natural Energy, LLC	12.5% or Greater	1660	410
K	WV-061-004378-028	Constance "Brenner" Louthen	Northeast Natural Energy, LLC	12.5% or Greater	1660	410
K	WV-061-004378-026	Ruth A. Garrett	Northeast Natural Energy, LLC	12.5% or Greater	1650	153
K	WV-061-004971-077	Donna M. Engle	Northeast Natural Energy, LLC	12.5% or Greater	1635	428
K	WV-061-004378-034	Maxine G. Morton	Northeast Natural Energy, LLC	12.5% or Greater	1671	298
K	WV-061-004378-033	Karen Anita Powers	Northeast Natural Energy, LLC	12.5% or Greater	1671	296

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
K	WV-061-004378-032	Douglas Sutton	Northeast Natural Energy, LLC	12.5% or Greater	1161	777
K	WV-061-004378-036	Danielle Blalock	Northeast Natural Energy, LLC	12.5% or Greater	1673	368
K	WV-061-004378-029	Barbara June Sutton	Northeast Natural Energy, LLC	12.5% or Greater	1660	412
K	WV-061-004378-031	Stephen R. Sutton	Northeast Natural Energy, LLC	12.5% or Greater	1661	775
K	WV-061-004378-032	Douglas B. Sutton	Northeast Natural Energy, LLC	12.5% or Greater	1661	777
K	WV-061-004481-001	The Burns Family General Partnership	Northeast Natural Energy, LLC	12.5% or Greater	1585	473
K	WV-061-004378-002	Ruth Ann Burns	Northeast Natural Energy, LLC	12.5% or Greater	1578	446
K	WV-061-004378-001	Nancy Lawler	Northeast Natural Energy, LLC	12.5% or Greater	1578	444
L	WV-061-001730-004	Edith Louise Darrah	Northeast Natural Energy LLC	12.5% or Greater	1643	786
L	WV-061-004258-002	Billy Carl Haught	Northeast Natural Energy LLC	12.5% or Greater	1570	721
L	WV-061-004258-001	Kenneth L. Haught	Northeast Natural Energy LLC	12.5% or Greater	1585	173
M	WV-061-005330-002	Karson Z. Moore	Northeast Natural Energy, LLC	12.5% or Greater	1635	502
M	WV-061-005330-001	Kiriston D. Moore	Northeast Natural Energy, LLC	12.5% or Greater	1635	500
M	WV-061-005770-001	Equinor USA Onshore Properties	Northeast Natural Energy, LLC	12.5% or Greater	1738	798
M	WV-061-004971-048	Eileen M. Flynt	Northeast Natural Energy, LLC	12.5% or Greater	1627	391
M	WV-061-004971-049	Kathleen Louise Taylor	Northeast Natural Energy, LLC	12.5% or Greater	1628	466
M	WV-061-004378-025	Wallace R. Bever	Northeast Natural Energy, LLC	12.5% or Greater	1628	226
M	WV-061-004378-038	Laura Rose Brown	Northeast Natural Energy, LLC	12.5% or Greater	1679	260
M	WV-061-004378-019	Marilyn Bean Knight	Northeast Natural Energy, LLC	12.5% or Greater	1621	591
M	WV-061-004378-018	Patricia Ann Knight	Northeast Natural Energy, LLC	12.5% or Greater	1621	551
M	WV-061-004971-079	David Forrest Knight	Northeast Natural Energy, LLC	12.5% or Greater	1636	251
M	WV-061-004378-024	Martha Jean Mitchell	Northeast Natural Energy, LLC	12.5% or Greater	1627	284
M	WV-061-004378-020	Charles Ralston Banister	Northeast Natural Energy, LLC	12.5% or Greater	1622	511
M	WV-061-004971-059	Mary K. Frisch	Northeast Natural Energy, LLC	12.5% or Greater	1628	468
M	WV-061-004971-064	David Morgan Bannister	Northeast Natural Energy, LLC	12.5% or Greater	1628	477
M	WV-061-004378-021	Marjorie Ann Turley	Northeast Natural Energy, LLC	12.5% or Greater	1627	278
M	WV-061-004378-023	John Evan Northeimer	Northeast Natural Energy, LLC	12.5% or Greater	1627	282
M	WV-061-004378-022	William W. Northeimer	Northeast Natural Energy, LLC	12.5% or Greater	1627	280
M	WV-061-004378-006	John F. Miller	Northeast Natural Energy, LLC	12.5% or Greater	1591	169
M	WV-061-004378-009	Hope M. Miller	Northeast Natural Energy, LLC	12.5% or Greater	1593	427
M	WV-061-004378-010	Scott Miller	Northeast Natural Energy, LLC	12.5% or Greater	1595	437
M	WV-061-004378-008	Kevin A. Miller	Northeast Natural Energy, LLC	12.5% or Greater	1593	685
M	WV-061-004378-012	Eva G. O'Neill	Northeast Natural Energy, LLC	12.5% or Greater	1591	167
M	WV-061-004378-016	Dawn Marie Gerth	Northeast Natural Energy, LLC	12.5% or Greater	1607	590
M	WV-061-004378-015	Keith Atwood	Northeast Natural Energy, LLC	12.5% or Greater	1602	77
M	WV-061-004378-012	Joyce Eife	Northeast Natural Energy, LLC	12.5% or Greater	1598	714
M	WV-061-004378-017	Nicholas J. Gerhardt	Northeast Natural Energy, LLC	12.5% or Greater	1614	424
M	WV-061-004378-007	Phoebe A. Hough	Northeast Natural Energy, LLC	12.5% or Greater	1591	173
M	WV-061-004379-014	Thomas Judson Ashcraft	Northeast Natural Energy, LLC	12.5% or Greater	1598	755
M	WV-061-004378-013	Nancy Ashcraft	Northeast Natural Energy, LLC	12.5% or Greater	1598	718
M	WV-061-004378-011	Martha Sanchez	Northeast Natural Energy, LLC	12.5% or Greater	1598	712
M	WV-061-004378-003	Jeanne Allen	Northeast Natural Energy, LLC	12.5% or Greater	1586	500

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
M	WV-061-004378-004	John C. Rhineberger	Northeast Natural Energy, LLC	12.5% or Greater	1588	573
M	WV-061-004971-044	Douglas E. Browning	Northeast Natural Energy, LLC	12.5% or Greater	1622	803
M	WV-061-004971-023	Frances C. Richie	Northeast Natural Energy, LLC	12.5% or Greater	1618	739
M	WV-061-004971-021	Patrick C. Barr	Northeast Natural Energy, LLC	12.5% or Greater	1618	735
M	WV-061-004971-015	Michael P. Barr	Northeast Natural Energy, LLC	12.5% or Greater	1618	725
M	WV-061-004971-014	Larry S. Barr	Northeast Natural Energy, LLC	12.5% or Greater	1618	723
M	WV-061-004971-063	Kevin P. Watson	Northeast Natural Energy, LLC	12.5% or Greater	1628	474
M	WV-061-004971-060	Jeremy B. Watson	Northeast Natural Energy, LLC	12.5% or Greater	1628	470
M	WV-061-004971-019	Joyce L. Masser	Northeast Natural Energy, LLC	12.5% or Greater	1618	731
M	WV-061-004971-031	Lisa Carroll	Northeast Natural Energy, LLC	12.5% or Greater	1621	215
M	WV-061-004971-026	Linda S. Frankford	Northeast Natural Energy, LLC	12.5% or Greater	1620	45
M	WV-061-004971-074	Becki L. Deskin	Northeast Natural Energy, LLC	12.5% or Greater	1633	501
M	WV-061-004971-022	Paula L. Picon	Northeast Natural Energy, LLC	12.5% or Greater	1618	737
M	WV-061-004971-012	Linda Austin	Northeast Natural Energy, LLC	12.5% or Greater	1618	719
M	WV-061-004971-050	James Alan Williams	Northeast Natural Energy, LLC	12.5% or Greater	1627	385
M	WV-061-004971-050	Joyce Williams	Northeast Natural Energy, LLC	12.5% or Greater	1627	385
M	WV-061-004971-051	Jack Williams	Northeast Natural Energy, LLC	12.5% or Greater	1627	387
M	WV-061-004971-025	Jennifer Williams	Northeast Natural Energy, LLC	12.5% or Greater	1620	43
M	WV-061-004971-024	Jaye Ann Williams	Northeast Natural Energy, LLC	12.5% or Greater	1618	741
M	WV-061-004971-076	Patrick K. Myers	Northeast Natural Energy, LLC	12.5% or Greater	1635	426
M	WV-061-004971-082	Keith A. Myers	Northeast Natural Energy, LLC	12.5% or Greater	1637	736
M	WV-061-004971-061	Larry R. Moore	Northeast Natural Energy, LLC	12.5% or Greater	1628	472
M	WV-061-004971-080	Eleanor J. Carroll	Northeast Natural Energy, LLC	12.5% or Greater	1636	253
M	WV-061-004971-081	Claudia Brown	Northeast Natural Energy, LLC	12.5% or Greater	1637	734
M	WV-061-004971-045	Rhonda Bailey	Northeast Natural Energy, LLC	12.5% or Greater	1623	495
M	WV-061-004971-065	Deena Brown	Northeast Natural Energy, LLC	12.5% or Greater	1629	150
M	WV-061-004971-070	Garold L. Brown	Northeast Natural Energy, LLC	12.5% or Greater	1631	447
M	WV-061-004971-017	Ora Kay Yarbrough	Northeast Natural Energy, LLC	12.5% or Greater	1618	727
M	WV-061-004971-066	Patricia S. Christian	Northeast Natural Energy, LLC	12.5% or Greater	1629	152
M	WV-061-004971-027	Paulette A. Sawvel	Northeast Natural Energy, LLC	12.5% or Greater	1620	58
M	WV-061-004971-052	Darlene W. Vorhies	Northeast Natural Energy, LLC	12.5% or Greater	1627	389
M	WV-061-004971-046	Jerry Atwood	Northeast Natural Energy, LLC	12.5% or Greater	1627	74
M	WV-061-004971-084	Julie K. Kime	Northeast Natural Energy, LLC	12.5% or Greater	1637	738
M	WV-061-004971-034	Celia Harman	Northeast Natural Energy, LLC	12.5% or Greater	1621	624
M	WV-061-004971-083	Steven Hawk	Northeast Natural Energy, LLC	12.5% or Greater	1638	546
M	WV-061-004971-085	Kelley Kueck	Northeast Natural Energy, LLC	12.5% or Greater	1640	327
M	WV-061-004378-030	Billie J. Hodges	Northeast Natural Energy, LLC	12.5% or Greater	1661	773
M	WV-061-005284-001	James B. Hawk	Northeast Natural Energy, LLC	12.5% or Greater	1629	308
M	WV-061-004378-041	Kevin Hawk	Northeast Natural Energy, LLC	12.5% or Greater	1691	774
M	WV-061-004971-008	Barbara Uhrig	Northeast Natural Energy, LLC	12.5% or Greater	1618	376
M	WV-061-004971-042	Rhonda Henry	Northeast Natural Energy, LLC	12.5% or Greater	1622	799
M	WV-061-004971-043	Robin Cornett	Northeast Natural Energy, LLC	12.5% or Greater	1622	801

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M	WV-061-004378-043	Cindy Russell Lee	Northeast Natural Energy, LLC	12.5% or Greater	1689	439
M	WV-061-004971-029	Karen A. Palencar	Northeast Natural Energy, LLC	12.5% or Greater	1620	62
M	WV-061-004378-027	David Harold Russell	Northeast Natural Energy, LLC	12.5% or Greater	1652	213
M	WV-061-004378-042	Peggy Lee Burchett	Northeast Natural Energy, LLC	12.5% or Greater	1689	437
M	WV-061-004971-072	Tamaree Beatrice Littlefield	Northeast Natural Energy, LLC	12.5% or Greater	1631	451
M	WV-061-004378-040	Belinda Michele Gilpin	Northeast Natural Energy, LLC	12.5% or Greater	1687	555
M	WV-061-004971-020	John Fincke	Northeast Natural Energy, LLC	12.5% or Greater	1618	733
M	WV-061-004971-018	Debra C. Edwards	Northeast Natural Energy, LLC	12.5% or Greater	1618	729
M	WV-061-004971-004	Iris J. Russell	Northeast Natural Energy, LLC	12.5% or Greater	1616	184
M	WV-061-004971-005	William D. Garrett	Northeast Natural Energy, LLC	12.5% or Greater	1616	186
M	WV-061-004971-013	Barbara A. Stover	Northeast Natural Energy, LLC	12.5% or Greater	1618	721
M	WV-061-004971-002	Robert A. Garrett	Northeast Natural Energy, LLC	12.5% or Greater	1616	180
M	WV-061-004378-035	Todd E. Long	Northeast Natural Energy, LLC	12.5% or Greater	1673	366
M	WV-061-004971-001	Cynthia K. Leininger	Northeast Natural Energy, LLC	12.5% or Greater	1615	633
M	WV-061-004971-006	Dorothy Mae Johnson	Northeast Natural Energy, LLC	12.5% or Greater	1616	220
M	WV-061-004378-044	Charles A. Winland	Northeast Natural Energy, LLC	12.5% or Greater	1689	441
M	WV-061-004971-028	Thomas L. Winland	Northeast Natural Energy, LLC	12.5% or Greater	1620	60
M	WV-061-005330-003	William B. Winland	Northeast Natural Energy, LLC	12.5% or Greater	1690	286
M	WV-061-004971-003	Coralee Garrett	Northeast Natural Energy, LLC	12.5% or Greater	1616	182
M	WV-061-004971-010	Rodona A. Dunfee	Northeast Natural Energy, LLC	12.5% or Greater	1618	380
M	WV-061-004971-047	Patti L. Leasrue	Northeast Natural Energy, LLC	12.5% or Greater	1627	76
M	WV-061-004971-009	Sharon K. Gustina	Northeast Natural Energy, LLC	12.5% or Greater	1618	378
M	WV-061-004378-039	Joshua K. "Kenney" Irwin	Northeast Natural Energy, LLC	12.5% or Greater	1687	198
M	WV-061-004971-071	Maria Evanoff	Northeast Natural Energy, LLC	12.5% or Greater	1631	449
M	WV-061-004971-068	Erin Chacon	Northeast Natural Energy, LLC	12.5% or Greater	1631	279
M	WV-061-004378-028	William D. Louthen	Northeast Natural Energy, LLC	12.5% or Greater	1660	410
M	WV-061-004378-028	Constance "Brenner" Louthen	Northeast Natural Energy, LLC	12.5% or Greater	1660	410
M	WV-061-004378-026	Ruth A. Garrett	Northeast Natural Energy, LLC	12.5% or Greater	1650	153
M	WV-061-004971-077	Donna M. Engle	Northeast Natural Energy, LLC	12.5% or Greater	1635	428
M	WV-061-004378-034	Maxine G. Morton	Northeast Natural Energy, LLC	12.5% or Greater	1671	298
M	WV-061-004378-033	Karen Anita Powers	Northeast Natural Energy, LLC	12.5% or Greater	1671	296
M	WV-061-004378-032	Douglas Sutton	Northeast Natural Energy, LLC	12.5% or Greater	1161	777
M	WV-061-004378-036	Danielle Blalock	Northeast Natural Energy, LLC	12.5% or Greater	1673	368
M	WV-061-004378-029	Barbara June Sutton	Northeast Natural Energy, LLC	12.5% or Greater	1660	412
M	WV-061-004378-031	Stephen R. Sutton	Northeast Natural Energy, LLC	12.5% or Greater	1661	775
M	WV-061-004378-032	Douglas B. Sutton	Northeast Natural Energy, LLC	12.5% or Greater	1661	777
M	WV-061-004481-001	The Burns Family General Partnership	Northeast Natural Energy, LLC	12.5% or Greater	1585	473
M	WV-061-004378-002	Ruth Ann Burns	Northeast Natural Energy, LLC	12.5% or Greater	1578	446
M	WV-061-004378-001	Nancy Lawler	Northeast Natural Energy, LLC	12.5% or Greater	1578	444
N	WV-061-001941-031	Wallace A. Saunders	Northeast Natural Energy, LLC	12.5% or Greater	1666	169
N	WV-061-001941-030	Donnally Miller	Northeast Natural Energy, LLC	12.5% or Greater	1662	779
N	WV-061-001941-027	Carol Franklin	Northeast Natural Energy, LLC	12.5% or Greater	1643	738

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N	WV-061-001941-026	Laura E. Miller	Northeast Natural Energy, LLC	12.5% or Greater	1642	809
N	WV-061-001941-028	Ruth Miller Roberts	Northeast Natural Energy, LLC	12.5% or Greater	1642	813
N	WV-061-001941-023	Helen Fortney Fultz	Northeast Natural Energy, LLC	12.5% or Greater	1631	318
N	WV-061-001941-013	Mabel G. Meyers	Northeast Natural Energy, LLC	12.5% or Greater	1607	450
N	WV-061-001941-019	Frieda C. McCaskill	Northeast Natural Energy, LLC	12.5% or Greater	1607	737
N	WV-061-001941-020	Mark D. Gregory	Northeast Natural Energy, LLC	12.5% or Greater	1607	739
N	WV-061-001941-021	Charles B. Gregory	Northeast Natural Energy, LLC	12.5% or Greater	1607	741
N	WV-061-001941-011	Norma Kay Gregory	Northeast Natural Energy, LLC	12.5% or Greater	1607	446
N	WV-061-001941-012	Wilbur G. Gregory	Northeast Natural Energy, LLC	12.5% or Greater	1607	448
N	WV-061-001941-029	Patricia Ann Jones	Northeast Natural Energy, LLC	12.5% or Greater	1653	169
N	WV-061-001941-017	Howard Keith Williams	Northeast Natural Energy, LLC	12.5% or Greater	1607	733
N	WV-061-001941-018	Scott Kahoon	Northeast Natural Energy, LLC	12.5% or Greater	1607	735
N	WV-061-001941-015	Susan Stephens	Northeast Natural Energy, LLC	12.5% or Greater	1607	454
N	WV-061-004973-005	Carl Kahoon	Northeast Natural Energy, LLC	12.5% or Greater	1685	30
N	WV-061-004973-002	Carey Kahoon Maynard	Northeast Natural Energy, LLC	12.5% or Greater	1680	593
N	WV-061-004973-003	Erica Kahoon Ledford	Northeast Natural Energy, LLC	12.5% or Greater	1683	649
N	WV-061-004973-004	Lisa Kahoon Vine	Northeast Natural Energy, LLC	12.5% or Greater	1683	263
N	WV-061-001941-009	Karen Noreen Harris	Northeast Natural Energy, LLC	12.5% or Greater	1607	440
N	WV-061-001941-016	George Lloyd Cheripko	Northeast Natural Energy, LLC	12.5% or Greater	1607	731
N	WV-061-001941-014	Roger Franklin Williams	Northeast Natural Energy, LLC	12.5% or Greater	1607	452
N	WV-061-001941-010	Mary H. Williams	Northeast Natural Energy, LLC	12.5% or Greater	1607	444
N	WV-061-001941-001	Madeline Doris Darrah	Northeast Natural Energy, LLC	12.5% or Greater	1391	763
N	WV-061-001941-002	Edith Louise Darrah	Northeast Natural Energy, LLC	12.5% or Greater	1396	110
N	WV-061-001941-034	Douglas L. Darrah	Northeast Natural Energy, LLC	12.5% or Greater	1675	177
N	WV-061-001941-022	Randy G. Darrah	Northeast Natural Energy, LLC	12.5% or Greater	1611	652
N	WV-061-001941-007	Timothy Allen Darrah	Northeast Natural Energy, LLC	12.5% or Greater	1398	279
N	WV-061-001941-005	Ellen Pearl Bolyard	Northeast Natural Energy, LLC	12.5% or Greater	1395	179
N	WV-061-001941-005	Pachira Energy, LLC	Northeast Natural Energy, LLC	12.5% or Greater	1395	179
N	WV-061-001941-008	Thomas LeRoy Eddy	Northeast Natural Energy, LLC	12.5% or Greater	1607	438
O	WV-061-000146-001-LOI	Penny Quickle, a/k/a Penny Suzan Quickle	EQT Production Corp	12.5% or Greater	1509	573
		EQT Production Corp	Northeast Natural Energy, LLC		1747	314
P	WV-051-001422-002	Deep Rock Mineral Group, LLC	Northeast Natural Energy, LLC	12.5% or Greater	1575	384
	WV-061-001422-005	H & M Land and Mineral, Inc.	Northeast Natural Energy, LLC	12.5% or Greater	1684	424
	WV-051-001422-004	Brendan J. McCarthy	Northeast Natural Energy, LLC	12.5% or Greater	1678	580
Q	WV-061-004846-030	Sheila K. Anderson	Northeast Natural Energy, LLC	12.5% or Greater	1637	234
Q	WV-061-004846-012	Ruth Ann Burns	Northeast Natural Energy, LLC	12.5% or Greater	1618	322
Q	WV-061-004846-002	The Burns Family General Partnership	Northeast Natural Energy, LLC	12.5% or Greater	1612	391
Q	WV-061-004846-025	Jason Keefover	Northeast Natural Energy, LLC	12.5% or Greater	1628	446
Q	WV-061-004846-024	Sheri Orr	Northeast Natural Energy, LLC	12.5% or Greater	1628	443
Q	WV-061-004846-017	Nora S. Corra	Northeast Natural Energy, LLC	12.5% or Greater	1620	7
Q	WV-061-004846-015	Darrell Conaway	Northeast Natural Energy, LLC	12.5% or Greater	1618	328
Q	WV-061-004846-016	Dwight Conaway	Northeast Natural Energy, LLC	12.5% or Greater	1618	330

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Q	WV-061-004846-014	John Conaway	Northeast Natural Energy, LLC	12.5% or Greater	1618	326
Q	WV-061-004846-051	Juanita L. Hennen	Northeast Natural Energy, LLC	12.5% or Greater	1647	490
Q	WV-061-004846-083	Patty Ann Darnell Zientara	Northeast Natural Energy, LLC	12.5% or Greater	1687	574
Q	WV-061-004846-070	Christopher Louis Darnell	Northeast Natural Energy, LLC	12.5% or Greater	1652	241
Q	WV-061-004846-075	Julie Christine Stengel	Northeast Natural Energy, LLC	12.5% or Greater	1653	580
Q	WV-061-004846-061	Kimberly Darlene Morrison Griffin	Northeast Natural Energy, LLC	12.5% or Greater	1650	205
Q	WV-061-004846-060	Charles Michael Morrison	Northeast Natural Energy, LLC	12.5% or Greater	1650	195
Q	WV-061-004846-057	Candace Ann Morrison Bunner	Northeast Natural Energy, LLC	12.5% or Greater	1650	189
Q	WV-061-004846-065	Tawnya Michelle Morrison Royce	Northeast Natural Energy, LLC	12.5% or Greater	1650	203
Q	WV-061-004846-066	Tamera Richelle Morrison	Northeast Natural Energy, LLC	12.5% or Greater	1649	280
Q	WV-061-004846-060	Charles Arthur Morrison	Northeast Natural Energy, LLC	12.5% or Greater	1650	195
Q	WV-061-004846-063	John Mac Morrison	Northeast Natural Energy, LLC	12.5% or Greater	1650	199
Q	WV-061-004846-056	Elizabeth Ann Morrison Ayers May	Northeast Natural Energy, LLC	12.5% or Greater	1650	187
Q	WV-061-004846-062	David Mitchell Morrison	Northeast Natural Energy, LLC	12.5% or Greater	1650	197
Q	WV-061-004846-058	Barbara Joan Morrison Russell	Northeast Natural Energy, LLC	12.5% or Greater	1650	191
Q	WV-061-004846-074	Betty T. Grant	Northeast Natural Energy, LLC	12.5% or Greater	1653	575
Q	WV-061-004846-078	Paula Rae Morrison Whatley Nunes	Northeast Natural Energy, LLC	12.5% or Greater	1654	56
Q	WV-061-004846-077	Michael Paul Morrison	Northeast Natural Energy, LLC	12.5% or Greater	1654	54
Q	WV-061-004846-080	Deborah Lynn Watson Gubert	Northeast Natural Energy, LLC	12.5% or Greater	1658	630
Q	WV-061-004846-073	Linda Lee Canaday Schultz	Northeast Natural Energy, LLC	12.5% or Greater	1654	50
Q	WV-061-004846-068	Holly Lea King Swartz	Northeast Natural Energy, LLC	12.5% or Greater	1652	165
Q	WV-061-004846-072	Kelly Ann King Boggia	Northeast Natural Energy, LLC	12.5% or Greater	1654	48
Q	WV-061-004846-076	Kristal Dee King Tarkenton	Northeast Natural Energy, LLC	12.5% or Greater	1654	52
Q	WV-061-004846-081	Joan Cusaac Carpenter	Northeast Natural Energy, LLC	12.5% or Greater	1658	648
Q	WV-061-004846-071	Lois Ann Swisher Carpenter	Northeast Natural Energy, LLC	12.5% or Greater	1653	150
Q	WV-061-004846-067	Judy Kay Carpenter Roberts	Northeast Natural Energy, LLC	12.5% or Greater	1652	163
Q	WV-061-004846-053	John William Sharp, Jr.	Northeast Natural Energy, LLC	12.5% or Greater	1647	494
Q	WV-061-004846-040	Rose Dale Haught	Northeast Natural Energy, LLC	12.5% or Greater	1640	617
Q	WV-061-004846-047	Richard E. Wolfe	Northeast Natural Energy, LLC	12.5% or Greater	1643	546
Q	WV-061-004846-046	Constance Sue Dabbs	Northeast Natural Energy, LLC	12.5% or Greater	1643	544
Q	WV-061-004846-045	Michael Andrew Chaffin	Northeast Natural Energy, LLC	12.5% or Greater	1643	542
Q	WV-061-004846-055	Melody Karol Coehoon	Northeast Natural Energy, LLC	12.5% or Greater	1347	498
Q	WV-061-004846-048	Ardella Louise Cottrill	Northeast Natural Energy, LLC	12.5% or Greater	1643	548
Q	WV-061-004846-049	Richard Alvin LeBlond	Northeast Natural Energy, LLC	12.5% or Greater	1643	550
Q	WV-061-004846-037	Norma Jean Brown	Northeast Natural Energy, LLC	12.5% or Greater	1637	730
Q	WV-061-004846-032	Jimmy Michael McHenry	Northeast Natural Energy, LLC	12.5% or Greater	1636	791
Q	WV-061-004846-079	Robert Wayne McHenry, Sr.	Northeast Natural Energy, LLC	12.5% or Greater	1655	619
Q	WV-061-004846-054	Kimberly Kay McHenry	Northeast Natural Energy, LLC	12.5% or Greater	1647	496
Q	WV-061-003976-022	Kenny Ray McHenry	Northeast Natural Energy, LLC	12.5% or Greater	1655	593
Q	WV-061-004846-031	Rachelle A. Brown	Northeast Natural Energy, LLC	12.5% or Greater	1636	789
Q	WV-061-004846-036	Robert Junior Brown, III	Northeast Natural Energy, LLC	12.5% or Greater	1636	799
Q	WV-061-004546-033	Angela Brown	Northeast Natural Energy, LLC	12.5% or Greater	1636	793

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
Q	WV-061-004846-034	Ashlee R. McHenry	Northeast Natural Energy, LLC	12.5% or Greater	1636	795
Q	WV-061-004846-035	Gretchen E. Brown	Northeast Natural Energy, LLC	12.5% or Greater	1636	797
Q	WV-061-004846-050	Ronald LeBlond	Northeast Natural Energy, LLC	12.5% or Greater	1643	552
Q	WV-061-004846-064	Shane Bradley LeBlond	Northeast Natural Energy, LLC	12.5% or Greater	1650	201
Q	WV-061-004846-043	Janet Kay Rinehard	Northeast Natural Energy, LLC	12.5% or Greater	1640	623
Q	WV-061-004846-041	Vickie Lynn Blanchard	Northeast Natural Energy, LLC	12.5% or Greater	1640	619
Q	WV-061-004846-042	Tedd Edward LeBlond	Northeast Natural Energy, LLC	12.5% or Greater	1640	621
Q	WV-061-004846-069	Heather Watson Cogar	Northeast Natural Energy, LLC	12.5% or Greater	1652	167
Q	WV-061-004846-013	Suzan Jane Hood	Northeast Natural Energy, LLC	12.5% or Greater	1618	321
Q	WV-061-004846-004	Donald W. Hines, Jr.	Northeast Natural Energy, LLC	12.5% or Greater	1613	152
Q	WV-061-003976-021	Charlotte A. Britto	Northeast Natural Energy, LLC	12.5% or Greater	1638	508
Q	WV-061-004846-005	Diana Lynn Hunt Moresea	Northeast Natural Energy, LLC	12.5% or Greater	1614	559
Q	WV-061-004846-006	Vanessa Mae Hunt Sawyer	Northeast Natural Energy, LLC	12.5% or Greater	1614	561
Q	WV-061-004846-052	Debra Ann Bentine Hunt	Northeast Natural Energy, LLC	12.5% or Greater	1647	436
Q	WV-061-004846-011	Nancy B. Lawler	Northeast Natural Energy, LLC	12.5% or Greater	1618	708
Q	WV-061-004846-009	Robert Jennings Michael	Northeast Natural Energy, LLC	12.5% or Greater	1618	629
Q	WV-061-003915-008	Judith J. Radcliff	Northeast Natural Energy, LLC	12.5% or Greater	1559	125
Q	WV-061-004846-039	Aaron Shuman	Northeast Natural Energy, LLC	12.5% or Greater	1640	615
Q	WV-061-004846-021	Clarence Dean Sharp	Northeast Natural Energy, LLC	12.5% or Greater	1623	121
Q	WV-061-004846-020	Mary F. Snyder & William N. Snyder	Northeast Natural Energy, LLC	12.5% or Greater	1622	600
Q	WV-061-003915-005	James Swiger	Northeast Natural Energy, LLC	12.5% or Greater	1560	258
Q	WV-061-004846-082	John Swiger	Northeast Natural Energy, LLC	12.5% or Greater	1673	370
Q	WV-061-004846-008	Gary S. Williams	Northeast Natural Energy, LLC	12.5% or Greater	1616	136
Q	WV-061-004846-007	David Marshall Williams	Northeast Natural Energy, LLC	12.5% or Greater	1615	498
Q	WV-061-004846-023	Timothy Paul Williams	Northeast Natural Energy, LLC	12.5% or Greater	1628	441
Q	WV-061-004846-010	Margaret Ellen Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1618	318
Q	WV-061-004846-019	Linda D. Yoder	Northeast Natural Energy, LLC	12.5% or Greater	1620	11
Q	WV-061-004846-022	Fielding H. Yost, III	Northeast Natural Energy, LLC	12.5% or Greater	1627	365
Q	WV-061-004846-038	Kenneth D. Cameron	Northeast Natural Energy, LLC	12.5% or Greater	1638	540
Q	WV-061-004846-026	Sarah H. Scurlock	Northeast Natural Energy, LLC	12.5% or Greater	1631	269
Q	WV-061-004846-018	Lisa Shuman Zweifel	Northeast Natural Energy, LLC	12.5% or Greater	1620	9
R	WV-061-005699-002	Collingwood Appalachian Minerals I, LLC	Northeast Natural Energy, LLC	12.5% or Greater	1743	472
R	WV-061-005699-003	Collingwood Appalachian Minerals III, LLC.	Northeast Natural Energy, LLC	12.5% or Greater	1743	474
S	WV-061-000146-001-LOI	Andrew Conaway	T.M. Jackson & Co.	12.5% or Greater	See Leasehold Chain	
T	WV-061-000146-001-LOI	Andrew Conaway	T.M. Jackson & Co.	12.5% or Greater	See Leasehold Chain	
U	WV-061-000146-001-LOI	P.B. Amos Lease	South Penn Oil Company	12.5% or Greater	See Leasehold Chain	
V	WV-061-000146-001-LOI	Tennant et al	T.J. Vandergrift	12.5% or Greater	See Leasehold Chain	
W	WV-061-000146-001-LOI	Jeffrey John Moore & Sandra Jean Moore	EQT Production Corp	12.5% or Greater	1149	29
X	WV-061-000146-001-LOI	Royal E. Moore and Elizabeth Jo Ann Moore	EQT Production Corp	12.5% or Greater	1126	934

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Grantor, Lessor, etc.	Grantee, Lessee, etc.	Book Type	Book	Page
Andrew Conaway	T.M. Jackson & Co.	Deed	26	362
T.M. Jackson & Co.	South Penn Oil Company	Deed	30	174
South Penn Oil Company	South Penn Natural Gas Company	Deed	304	457
South Penn Natural Gas Company	South Penn Oil Company	Deed	580	311
South Penn Oil Company	Pennzoil Company	Misc	50	573
Pennzoil Company	Pennzoil Products Company	Assignment	23	280
Pennzoil Products Company	Pennzoil Exploration and Production	Misc	53	69
Pennzenergy Exploration and Production	Devon Energy Production, LP	Certificate on Incorporation	53	317
Devon Energy Production, LP	East Resources, Inc.	Deed	1207	146
East Resources, Inc.	HG Energy, LLC	Assignment	110	500
HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	123	43
American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Misc	122	85
Ascent Resources - Marcellus, LLC	EQT Production Company	Assignment	132	166
EQT Production Company	Northeast Natural Energy, LLC	Deed	1289	340

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Grantor, Lessor, etc.	Grantee, Lessee, etc.	Book Type	Book	Page
Andrew Conaway	T.M. Jackson & Co.	Deed	26	362
T.M. Jackson & Co.	South Penn Oil Company	Deed	30	174
South Penn Oil Company	South Penn Natural Gas Company	Deed	304	457
South Penn Natural Gas Company	South Penn Oil Company	Deed	580	311
South Penn Oil Company	Pennzoil Company	Misc	50	573
Pennzoil Company	Pennzoil Products Company	Assignment	23	280
Pennzoil Products Company	Pennzoil Exploration and Production	Misc	53	69
Pennzenergy Exploration and Production	Devon Energy Production, LP	Certificate on Incorporation	53	317
Devon Energy Production, LP	East Resources, Inc.	Deed	1207	146
East Resources, Inc.	HG Energy, LLC	Assignment	110	500
HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	123	43
American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Misc	122	85
Ascent Resources - Marcellus, LLC	EQT Production Company	Assignment	132	166
EQT Production Company	Northeast Natural Energy, LLC	Deed	1289	340

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Grantor, Lessor, etc.	Grantee, Lessee, etc.	Book Type	Book	Page
P. B Amos	South Penn Oil Company	Deed	51	107
South Penn Oil Company	South Penn Natural Gas	Deed	353	201
South Penn Natural Gas	South Penn Oil Company	Deed	616	343
South Penn Oil Company	Pennzoil Company	WV Secretary of State	* 7/31/1963	
Pennzoil Company	Pennzoil Products Company	Assignment	11	349
Pennzoil Products Company	Pennzoil Exploration and Prodcution Company	Deed	949	854
Pennzoil Exploration and Prodcution Company	PennzEnergy Exploration and Production Compnay	WV Secretary of State	*3/3/1999	
PennzEnergy Exploration and Production Compnay	Devon Energy Production Company	WV Secretary of State	*10/25/2000	
Devon Energy Production Company	East Resources, Inc.	Deed	965	371
East Resources, Inc.	HG Energy, LLC	Assignment	40	825
East Resources, Inc. & HG Energy, LLC	Amercian Energy - Marcellus, LLC	Assignment	47	692
Amercian Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Certificate on Merger, Marion Co, WV	67	847
Ascent Resources - Marcellus, LLC	EQT Production Company	Assignment	52	99
EQT Production Company	Northeast Natural Energy, LLC	Deed	1289	340

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Grantor, Lessor, etc.	Grantee, Lessee, etc.	Book Type	Book	Page
R.D. Tennant & Elzena Tennant	T.J. Vandergrift	Deed	46	233
T.J. Vandergrift	J.I. Buchanan	Deed	46	239
J.I. Buchanan	Jacob J. Vandergrift & W.J. Young	Deed	46.5	575
Jacob J. Vandergrift	W.J. Young	Deed	49	358
W.J. Young	South Penn Oil Company	Deed	49	367
South Penn Oil Company	South Penn Natural Gas Company	Deed	353	201
South Penn Natural Gas Company	Pennzoil Company	Certificate Book	50	573
Pennzoil Company	Pennzoil United , Inc.	Deed	726	74
Pennzoil Products Company	Pennzoil Exploration and Prodcution Company	Deed	949	854
Pennzoil Exploration and Prodcution Company	PennzEnergy Exploration and Production Compnay	WV Secretary of State		*3/3/1999
PennzEnergy Exploration and Production Compnay	Devon Energy Production Company	WV Secretary of State		*10/25/2000
Devon Energy Production Company	East Resources, Inc.	Deed	965	371
East Resources, Inc.	HG Energy, LLC	Assignme nt	40	825
East Resources, Inc. & HG Energy, LLC	Amercian Energy - Marcellus, LLC	Assignme nt	47	692
Amercian Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Merger	68	43
Ascent Resources - Marcellus, LLC	EQT Production Company	Assignme nt	52	99
EQT Production Company	Northeast Natural Energy, LLC	Deed	1289	340

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Environmental Protection



4706101891

September 14, 2021

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

RE: Phoenix South

Dear Permit Reviewer:

Please be advised that Northeast Natural Energy LLC has the right to drill, extract and produce the minerals beneath Coley Toothman Rd., Miracle Run Rd (16), Rush Run Rd. (17/1), Daybrook Rd. (22/1), Wendell Lane, and Route 218 as identified on the included plats.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Charles Dornetto', is written over a light blue horizontal line.

Charles Dornetto
Manager – Land Operations

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WV Department of
Environmental Protection

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

Date of Notice Certification: 09/15/2021

API No. 47- _____ - _____
Operator's Well No. 10H
Well Pad Name: Phoenix

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>562472.7</u>
County: <u>Monongalia</u>		Northing: <u>4388196.2</u>
District: <u>Battelle</u>	Public Road Access: <u>Graveyard Hill/Route 15/2</u>	
Quadrangle: <u>Wadestown</u>	Generally used farm name: <u>Phoenix</u>	
Watershed: <u>Dunkard Creek</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.

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: *PLEASE CHECK ALL THAT APPLY <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <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 <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		OOG OFFICE USE ONLY <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input checked="" type="checkbox"/> RECEIVED <input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED <input checked="" type="checkbox"/> RECEIVED <input checked="" type="checkbox"/> RECEIVED <input checked="" type="checkbox"/> RECEIVED
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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.

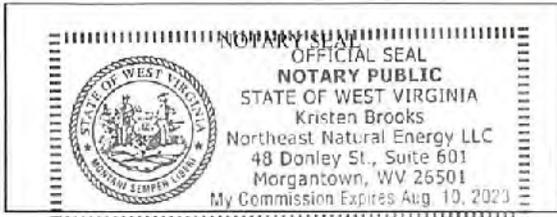
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SEP 22 2021
10/29/2021

Certification of Notice is hereby given:

THEREFORE, I Hollie 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 St. E., Suite 1200</u>
By:	<u>Hollie Medley</u>		<u>Charleston, WV 25301</u>
Its:	<u>Regulatory Manager</u>	Facsimile:	<u>304-241-5972</u>
Telephone:	<u>304-241-5752</u>	Email:	<u>hmedley@nne-llc.com</u>



Hollie Medley
 Subscribed and sworn before me this 15th day of September 2021
Kristen Brooks Notary Public
 My Commission Expires Aug. 10, 2023

Oil and Gas Privacy Notice:

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

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SEP 22 2021

WV Department of
Environmental Protection

10/29/2021

WW-6A
(9-13)

4706101891
API NO. 47- _____
OPERATOR WELL NO. 10H _____
Well Pad Name: Phoenix

**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: 9/10/21 **Date Permit Application Filed:** 9/20/21

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 attached
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: see attached
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: see attached
Address: _____

COAL OPERATOR

Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: see attached
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

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*Please attach additional forms if necessary

SEP 22 2021

WV Department of
Environmental Protection

10/29/2021

WW-6A
(8-13)

API NO. 47- _____
OPERATOR WELL NO. 10H _____
Well Pad Name: Phoenix _____

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 water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir; (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake; (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

10/29/2021

WW-6A
(8-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. 10H _____
Well Pad Name: Phoenix

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

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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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WW-6A
(8-13)

API NO. 47- 4706101891
OPERATOR WELL NO. 10H
Well Pad Name: Phoenix

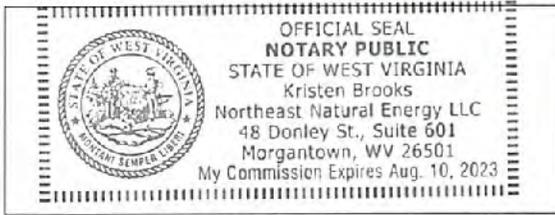
Notice is hereby given by:

Well Operator: Northeast Natural Energy LLC
Telephone: 304-241-5752
Email: hmedley@nne-llc.com

Address: 707 Virginia St. 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. *Hall: Medley*



Subscribed and sworn before me this 9th day of September, 2021

Kristen Brooks Notary Public

My Commission Expires Aug. 10, 2023

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WW-6A Attachment

Phoenix 10H

SURFACE OWNER(s)

Charles Wendell Moore
243 Wendell Lane
Fairview, WV 26570

Franklin M. Chisler
1651 Days Run Rd.
Fairview, WV 26570

Phoenix Energy Resources, LLC a.k.a.
Phoenix Federal No 2 Mining, LLC
863 Quail Valley Drive
Princeton, WV 24740

SURFACE OWNERS(s) (Road and/or Other Disturbances)

Hilda J. Donaldson
15 Aviator Way
Fairmont, WV 26554

Mary Walls
26 Log Cabin Lane
Bridgeport, WV 26330

Kevin Ammons
3388 Crossroads Rd.
Fairview, WV 26570

Elizabeth Ann Durr & Randy L Durr
11 Jordan Lane
Morgantown, WV 26501

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR

Charles Wendell Moore
243 Wendell Lane
Fairview, WV 26570

COAL OWNER OR LESSEE

Phoenix Energy Resources, LLC a.k.a.
Phoenix Federal No 2 Mining, LLC
863 Quail Valley Drive
Princeton, WV 24740

DECLARATION OF OIL AND GAS NOTICE

Consolidation Coal Company
c/o Leatherwood Inc.
1000 Consol Energy Drive
Canonsburg, PA 15317

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DRIAN VICTORELUGH
86 TOTAL ACRES
TAX MAP AND PARCEL
1-24-14

ELIZABETH ANN WILSON
& RANDY LES DURR
40.84 TOTAL ACRES
TAX MAP AND PARCEL
1-24-15

MARRISA YOST
34.639 TOTAL
ACRES
TAX MAP AND
PARCEL
1-24-15

FRANKLIN M. CHISLER
466.30 TOTAL ACRES
TAX MAP AND PARCEL
1-17-14.1

CHARLES WENDELL MOORE
101.127 TOTAL ACRES
TAX MAP AND PARCEL
1-24-19.1

KEVIN D. &
MARLA J. ANGLONS
132.02 TOTAL ACRES
TAX MAP AND PARCEL
1-24-20

PHOENIX WATER WELLS
SEPTEMBER 7, 2021
SCALE - (1" = 700')

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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: 5/21/20 **Date of Planned Entry:** 5/28/20

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 Attached

Address: _____

Name: _____

Address: _____

Name: _____

Address: _____

COAL OWNER OR LESSEE

Name: _____

Address: _____

MINERAL OWNER(s)

Name: _____

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:	<u>West Virginia</u>	Approx. Latitude & Longitude:	<u>39.641344, -80.271934</u>
County:	<u>Monongalia</u>	Public Road Access:	<u>CR 15</u>
District:	<u>Battelle</u>	Watershed:	<u>Dunkard Creek</u>
Quadrangle:	<u>Wadestown</u>	Generally used farm name:	<u>Phoenix</u>

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

Telephone: 304-414-7060

Email: _____

Address: _____

707 Virginia St. E, Suite 1200 Charleston, WV 25301

Facsimile: 304-241-5972

Oil and Gas Privacy Notice:

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

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WV Department of
Environmental Protection

4706101891

WW-6A3 Attachment

Phoenix Pad

SURFACE OWNER(s)

Kevin Ammons
3388 Crossroads Rd.
Fairview, WV 26570

Phoenix Energy Resources, LLC a.k.a.
Phoenix Federal No 2 Mining, LLC
863 Quail Valley Drive
Princeton, WV 24740

Charles Wendell Moore
243 Wendell Lane
Fairview, WV 26570

Franklin M. Chisler
1651 Days Run Rd.
Fairview, WV 26570

Mary Walls
26 Log Cabin Lane
Bridgeport, WV 26330

Hilda J. Donaldson
12 Klondike Lane
Fairview, WV 26570

Elizabeth Ann Durr & Randy L Durr
11 Jordan Lane
Morgantown, WV 26501

John Raymond Myers & Jennifer Hornsby-Myers
1953 Miracle Run Rd.
Fairview, WV 26570

10/29/2021

**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: 09/10/2021 **Date Permit Application Filed:** 09/20/2021

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: <u>see attached</u>	Name: _____
Address: _____	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: <u>West Virginia</u>	UTM NAD 83	Easting: <u>562472.7</u>	
County: <u>Monongalia</u>		Northing: <u>4388196.2</u>	
District: <u>Battelle</u>	Public Road Access: <u>Graveyard Hill/Route 15/2</u>		
Quadrangle: <u>Wadestown</u>	Generally used farm name: <u>Phoenix</u>		
Watershed: <u>Dunkard Creek</u>			

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: <u>Northeast Natural Energy</u>	Authorized Representative: <u>Hollie Medley, Regulatory Manager</u>
Address: <u>707 Virginia St. E., Suite 1200</u>	Address: <u>48 Donley St., Suite 601</u>
<u>Charleston, WV 25301</u>	<u>Morgantown, WV 26501</u>
Telephone: <u>304-414-7060</u>	Telephone: <u>304-241-5752</u>
Email: _____	Email: <u>hmedley@nne-llc.com</u>
Facsimile: <u>304-414-7061</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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10/29/2021
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WW-6A4 Attachment**SURFACE OWNER(s)**

Charles Wendell Moore
243 Wendell Lane
Fairview, WV 26570

Franklin M. Chisler
1651 Days Run Rd.
Fairview, WV 26570

Phoenix Energy Resources, LLC a.k.a.
Phoenix Federal No 2 Mining, LLC
863 Quail Valley Drive
Princeton, WV 24740

Hilda J. Donaldson
15 Aviator Way
Fairmont, WV 26554

Mary Walls
26 Log Cabin Lane
Bridgeport, WV 26330

Kevin Ammons
3388 Crossroads Rd.
Fairview, WV 26570

Elizabeth Ann Durr & Randy L Durr
11 Jordan Lane
Morgantown, WV 26501

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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: 09/10/2021 Date Permit Application Filed: 09/20/2021

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

- CERTIFIED MAIL RETURN RECEIPT REQUESTED
- HAND 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: <u>See attached</u>	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>562472.7</u>
County: <u>Monongalia</u>		Northing: <u>4388196.2</u>
District: <u>Battelle</u>	Public Road Access: <u>Graveyard Hill/Route 15/2</u>	
Quadrangle: <u>Wadestown</u>	Generally used farm name: <u>Phoenix</u>	
Watershed: <u>Dunkard Creek</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</u>	Address: <u>707 Virginia St. E., Suite 1200</u>
Telephone: <u>304-414-7060</u>	<u>Charleston, WV 25301</u>
Email: <u>hmedley@nne-llc.com</u>	Facsimile: <u>304-414-7061</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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WAS

WW-6A5 Attachment

Phoenix Pad

SURFACE OWNER(s)

Kevin Ammons
3388 Crossroads Rd.
Fairview, WV 26570

Phoenix Energy Resources, LLC a.k.a.
Phoenix Federal No 2 Mining, LLC
863 Quail Valley Drive
Princeton, WV 24740

Charles Wendell Moore
243 Wendell Lane
Fairview, WV 26570

Franklin M. Chisler
1651 Days Run Rd.
Fairview, WV 26570

Mary Walls
26 Log Cabin Lane
Bridgeport, WV 26330

Hilda J. Donaldson
12 Klondike Lane
Fairview, WV 26570

Elizabeth Ann Durr & Randy L Durr
11 Jordan Lane
Morgantown, WV 26501

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WV Department of
Environmental Protection

10/29/2021



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Byrd E. White, III
Secretary of Transportation/
Commissioner of Highways

August 19, 2020

Jimmy Wriston, P. E.
Deputy Secretary/
Deputy Commissioner

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

Subject: DOH Permit for the Phoenix Pad, Monongalia County
Phoenix 10H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2020-0564 which has been issued to Northeast Natural Energy for access to the State Road for a well site located off Monongalia County Route 15/2 SLS MP 0.058.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE 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 October 1, 2018.

Very Truly Yours,

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

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

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Planned Additives To Be Used In Fracturing Stimulations

Trade Name	Purpose	Ingredients	Cemical Abstract Service Numner (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 Polyozyalkylenes Propargyl Alcohol	NA 67-56-1 NA NA 107-19-7
GW-3LDF	Gelling Agent	Guar Gum Petroleum Distillate Blend	9000-30-0 CBI
FRW-18	Friction Reducer	Hydrotreated Light Distillate	64742-47-8
Ferrotrol 300L	Iron Crontrol	Citric Acid	77-92-9
Sand, White, 40/70	Proppant	Cystalline Silica (Quartz)	14808-60-7
Sand, White, 100 mesh	Proppant	Cystalline Silica (Quartz)	14808-60-7
Scaletrol 720	Scale Inhibitor	Diethylene Glycol	111-46-6

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PHOENIX WELL PAD BATTELLE DISTRICT, MONONGALIA COUNTY, WV AUGUST 2020

WEST VIRGINIA 811

TWO WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE WV ONE CALL SYSTEM, INC., 1-800-245-4848 (WV ONE CALL TICKET #2015627602)

OWNER



APPROVED
WVDEP OOG

9/9/2020

SHEET INDEX
1. TITLE SHEET

2-3. EVACUATION ROUTE/PREVAILING WIND
4. E&S CONTROL LAYOUT OVERVIEW
5-11. E&S CONTROL LAYOUT
12. E&S CONTROL AND SITE PLAN OVERVIEW
13-19. E&S CONTROL AND SITE PLAN
20. WELL PAD AND AST PAD CROSS-SECTIONS
20A. EXCESS MATERIAL STOCKPILE AREA CROSS-SECTIONS
21. UNDER DRAIN PROFILES
22-23. ACCESS ROAD AND AST ACCESS ROAD PROFILES
24-31. ACCESS ROAD CROSS-SECTIONS
31A. AST ACCESS ROAD CROSS-SECTIONS
32-35. DETAILS
36. RECLAMATION PLAN OVERVIEW
37-43. RECLAMATION PLAN

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

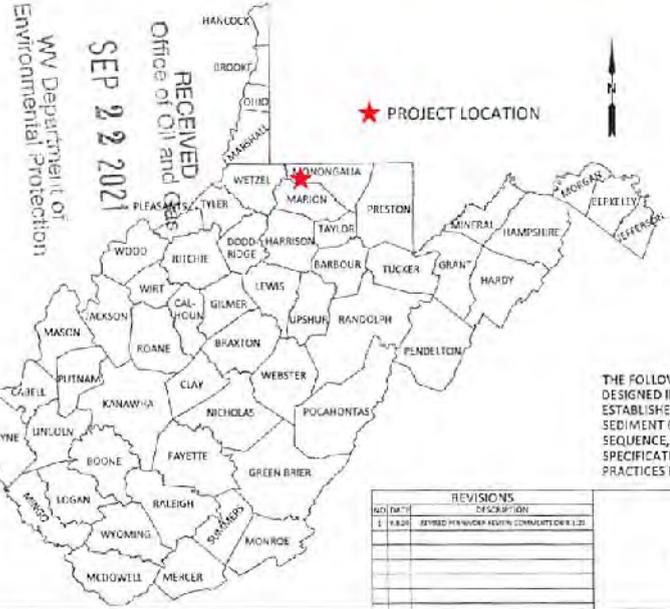


ANDREW BENCHEK
P.E.

TOTAL LIMITS OF DISTURBANCE: 72.79 AC.
ACCESS ROAD DISTURBANCE AREA: 31.85 AC.
WELL PAD DISTURBANCE AREA: 31.65 AC.
AST PAD AND ACCESS ROAD DISTURBANCE AREA: 9.28 AC.

PROPERTY PROJECT BOUNDARY ACREAGE

- EDWIN L. & HELEN DONALDSON (TAX MAP AND PARCEL 3-24-42)- 3.99 AC.
- MARY E. WALKER (TAX MAP AND PARCEL 3-24-15)- 11.07 AC.
- KEVIN D. & MARLA J. AMMONS (TAX MAP AND PARCEL 3-24-20)- 8.34 AC.
- ELIZABETH ANN WILSON & RANDY LEE DURF (TAX MAP AND PARCEL 3-24-36)- 5.82 AC.
- CHARLES WENDELL MOORE (TAX MAP AND PARCEL 3-24-35.1)- 10.78 AC.
- FRANKLIN M. CHISLER (TAX MAP AND PARCEL 1-17-14.1)- 30.25 AC.
- PHOENIX ENERGY RESOURCES, L.L.C.- 2.89 AC.



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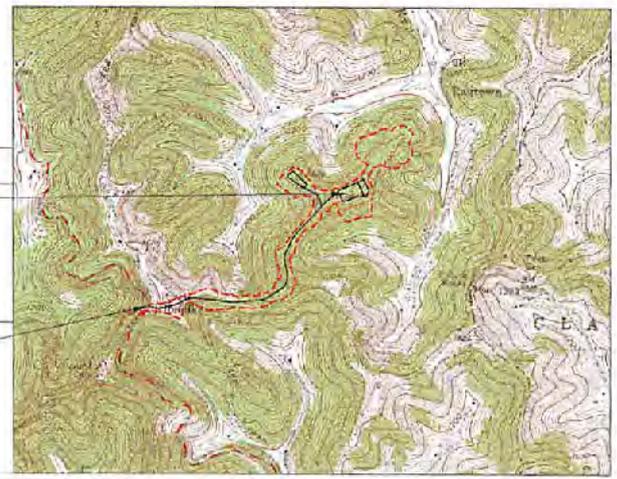
★ PROJECT LOCATION

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.

REVISIONS	
NO. DATE	DESCRIPTION
1 9/24/20	REVISED PER WVDNR REVIEW COMMENTS ON 9/1/20

TITLE SHEET
PHOENIX WELL PAD
BATTELLE DISTRICT, MONONGALIA COUNTY, WV

COORDINATES	
CENTER OF WELL PAD (NAD 83)	LAT: 39° 38' 29.00" LONG: 80° 16' 18.49" (NAD 27)
SITE ENTRANCE (NAD 83)	LAT: 39° 38' 05.18" LONG: 80° 17' 12.01" (NAD 27)
	LAT: 39° 38' 04.89" LONG: 80° 17' 12.73"



SHEET
1
OF
43

