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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, September 19, 2022  
WELL WORK PERMIT  
Horizontal 6A / New Drill

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

Re: Permit approval for BUNNER 5H  
47-061-01908-00-00

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: BUNNER 5H  
Farm Name: PATRICIA A BUNNER  
U.S. WELL NUMBER: 47-061-01908-00-00  
Horizontal 6A New Drill  
Date Issued: 9/19/2022

Promoting a healthy environment.

09/23/2022

# 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.

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## CONDITIONS

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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.
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.

**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 Clay Blacksville, WV  
 Operator ID County District Quadrangle

2) Operator's Well Number: 5H Well Pad Name: Bunner

3) Farm Name/Surface Owner: Patricia A. Bunner Public Road Access: Upper Days Run Rd

4) Elevation, current ground: 1,277' (as-built) Elevation, proposed post-construction: 1,277'

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, 8,024' , 104', 4500 psi

8) Proposed Total Vertical Depth: 8,024'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 26,962'

11) Proposed Horizontal Leg Length: 18,174'

12) Approximate Fresh Water Strata Depths: 1,150'

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

14) Approximate Saltwater Depths: 1,359'

15) Approximate Coal Seam Depths: 865'

16) Approximate Depth to Possible Void (coal mine, karst, other): none

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

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

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18)

**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<b>Size (in)</b>	<b>New or Used</b>	<b>Grade</b>	<b>Weight per ft. (lb/ft)</b>	<b>FOOTAGE: For Drilling (ft)</b>	<b>INTERVALS: Left in Well (ft)</b>	<b>CEMENT: Fill-up (Cu. Ft.)/CTS</b>
Conductor	24	New	NA	94.7	100'	100'	113/GTS
Fresh Water	13-3/8	New	J-55	54.5	1230'	1200'	961/CTS
Coal							
Intermediate	9-5/8	New	J-55	36	2530'	2500'	864/CTS
Production	5-1/2	New	P-110	20	26,962'	26,932'	6,518
Tubing	2-7/8	New	P-110	6.5	NA	8000	NA
Liners							

Kenneth Greynolds  
Digitally signed by Kenneth Greynolds  
 DN: CN = Kenneth Greynolds, email = Kenneth.L.Greynolds@wv.gov, C = AD O = WVDEP, OU = Oil and Gas  
 Date: 2022.09.30 14:59:48 -0400

<b>TYPE</b>	<b>Size (in)</b>	<b>Wellbore Diameter (in)</b>	<b>Wall Thickness (in)</b>	<b>Burst Pressure (psi)</b>	<b>Anticipated Max. Internal Pressure (psi)</b>	<b>Cement Type</b>	<b>Cement Yield (cu. ft./k)</b>
Conductor	24	28	0.375	NA	NA	Type 1	1.18
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	2800	*Class A	1.19
Production	5-1/2	8-3/4 & 8-1/2	0.361	14,360	11,500 (frac)	50:50 POZ	1.07
Tubing	2-7/8	NA	0.217	13,870	NA	NA	NA
Liners							

\*or Class L cement with approval of variance request

**PACKERS**

Kind:	NA		
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 11,500psi 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): 16.36

22) Area to be disturbed for well pad only, less access road (acres): 6.79

23) Describe centralizer placement for each casing string:

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.

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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

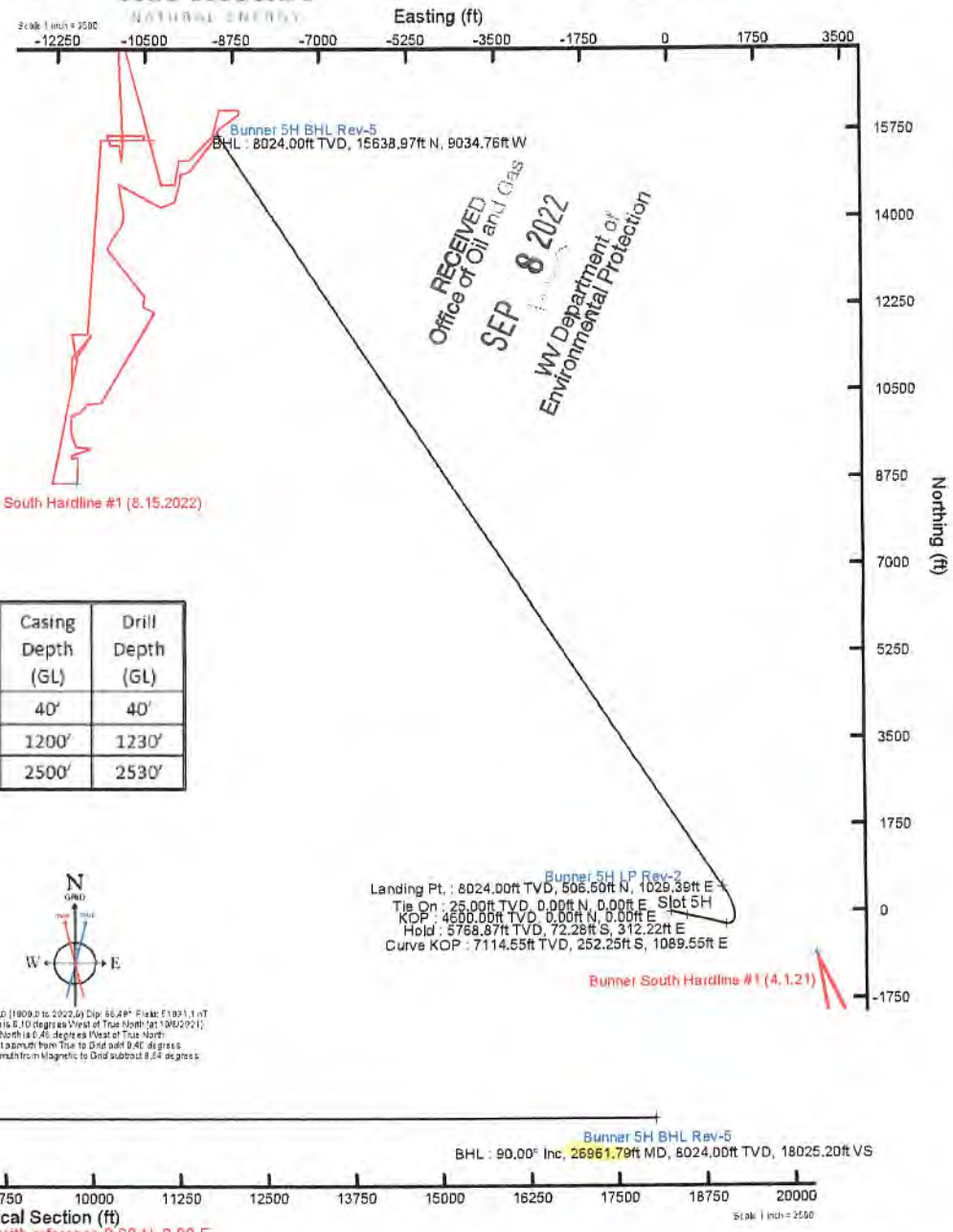
Location: Monongalia County, WV  
 Field: Monongalia  
 Facility: Bunner Pad

Slot: Slot 5H  
 Well: Bunner 5H  
 Wellbore: Bunner 5H PWB

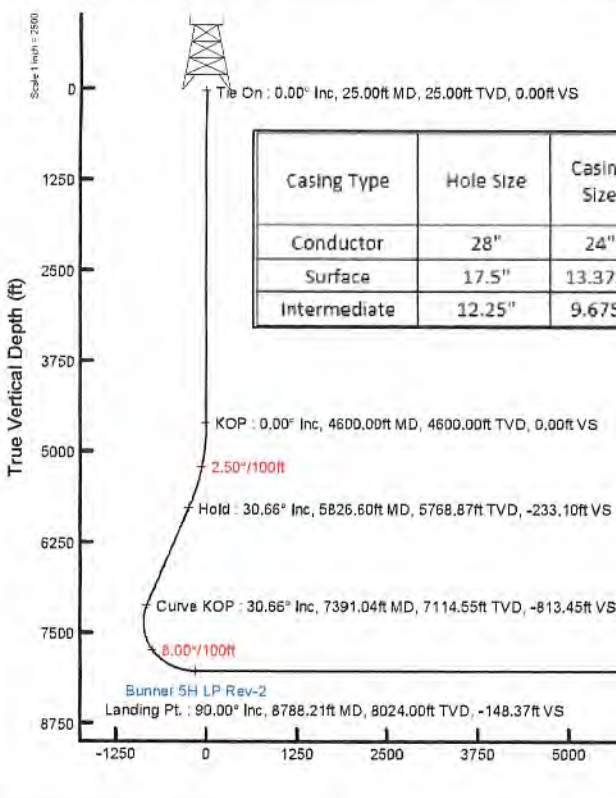


Plot reference wellbore: Bunner 5H PWB (L&L)	Grid System: NAD83 (East of West Virginia SP, NAD83 Zone 17N), US feet
True vertical depth to the horizontal reference: 7746' (GL)	North Reference: Grid north
Reference wellbore: Bunner 5H PWB (L&L)	Scale: True distance
Reference wellbore: Bunner 5H PWB (L&L)	Coordinates are in feet unless noted.
Horizontal distance to the horizontal reference: 1700' (E)	Depth axis in feet
Horizontal distance to the horizontal reference: 1700' (E)	Created by: mwpj on 2022-08-22; Database: PLS_MPL_3_1618_1005.dat

Formation	Top (GL)	Base (GL)
Tully	7746'	7795'
Hamilton	7795'	7903'
Upper Marcellus	7903'	7983'
Cherry Valley	7983'	7987'
Lower Marcellus	7987'	8012'
Target		7999'
Onondaga		8012'



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Casing Type	Hole Size	Casing Size	Grade	Weight	Casing Depth (GL)	Drill Depth (GL)
Conductor	28"	24"	N/A	N/A	40'	40'
Surface	17.5"	13.375"	J-55	54.5	1200'	1230'
Intermediate	12.25"	9.675"	J-55	36	2500'	2530'

N  
 GND  
 W E  
 HDGM2621411.D (1909.0 to 2022.4) Dip: 66.48° Plank: F1091.1 mT  
 Magnetic declination is 8.10 degrees East of True North at 10/02/2021  
 Grid North is 0.40 degrees West of True North  
 To correct azimuth from True to Grid add 0.40 degrees  
 To correct azimuth from Magnetic to Grid subtract 8.54 degrees

Azimuth 326.37° with reference 0,00 N, 0,00 E

Scale 1 inch = 2500



### 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.

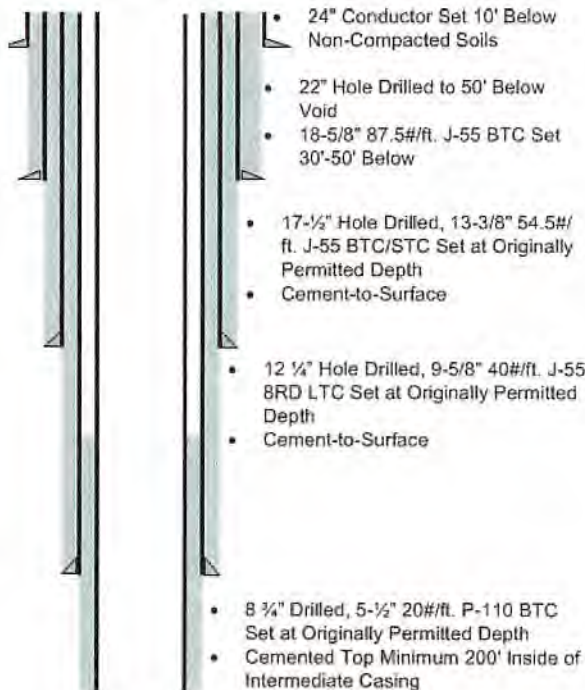
All casings programs submitted to the state incorporate the use of a 24" conductor over the previously used 20" that has long been the industry standard for a typical Marcellus design. The use of 24" conductor casing allows the use of a 22" bit to ream the surface hole, and drill 50' below the void to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

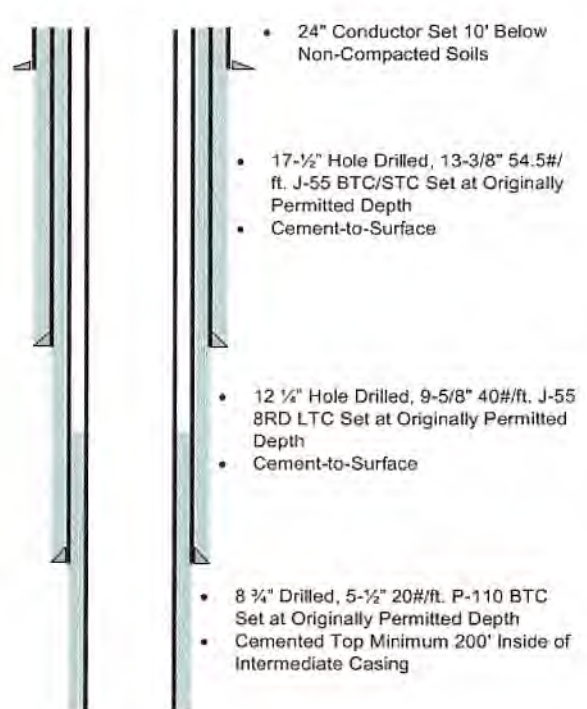
With the use of these string sizes and techniques, the surface and intermediate strings do not need to be altered. After a proper WOC time, the surface section of the well would continue to be drilled with a 17-1/2" bit and the 13-3/8" 54.50#/ft freshwater casing would be set at the originally permitted 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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WW-9  
(4/16)

API Number 47 - \_\_\_\_\_  
Operator's Well No. Bunner 5H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Northeast Natural Energy LLC OP Code 494498281

Watershed (HUC 10) Dunkard Creek Quadrangle Blacksville

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

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: NA

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. 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

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Department of  
Environmental Protection

Subscribed and sworn before me this 12th day of July, 2022, 20  
Kristen Brooks  
My commission expires Aug. 10, 2022

Notary Public  
  
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, 20;  
**09/23/2022**



Northeast Natural Energy LLC

Proposed Revegetation Treatment: Acres Disturbed 17.11 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
Tetraploi Perennial Rye	16	Tetraploid Perennial Rye	16
Timothy	15	Timothy	15
Annual Rye	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: Kenneth Greynolds  
Digitally signed by Kenneth Greynolds  
DN: cn = Kenneth Greynolds, email = Kenneth.L.Greynolds@wv.gov, c = AD, o = WVDEP, ou = DI and Gas  
Date: 2022.07.20 17:29:03 -0400

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

Field Reviewed? ( ) Yes ( ) No

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# BUNNER 5H EXISTING GAS WELLS AUGUST 29, 2022

TOTAL DISTANCE BORED  
FROM LP TO BH = 18,173.58'



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SCALE: 1" = 2,000'



## Bunner 5H Area of Review

API Number	Well Name	Well Number	Operator	Latitude (NAD 83)	Longitude (NAD 83)	TMP	TVD	Comments
061-01591	Norris Tennant	F2-113	Eastern Associated / Peabody Coal Company	39.686832	-80.234254	4-9-4	NA	Plugged 8/18/2009
061-01549	Sandra Bleigh	F2-126	Eastern Associated / Peabody Coal Company	39.687822	-80.235155	4-9-52	NA	Plugged 5/22/2008
061-01539	J Todd Moore	F2-38	Eastern Associated / Peabody Coal Company	39.684777	-80.231775	4-9-3	NA	Plugged 7/2/2007
061-01590	Solomon	F2-45	Eastern Associated / Peabody Coal Company	39.68506	-80.230262	4-9-5	3200'	Plugged 8/11/2009
061-01533	Fox/McCoy	F2-42	Eastern Associated / Peabody Coal Company	39.681007	-80.228209	4-9-15	3200'	Plugged 6/22/2009
061-01536	Fox/McCoy	F2-541	Eastern Associated / Peabody Coal Company	39.680282	-80.226144	4-9-15	NA	Plugged 7/29/2007
061-01563	Dennis L Snyder II	F2-133	Eastern Associated / Peabody Coal Company	39.692027	-80.237033	4-8-5.2	NA	Plugged 7/15/2008
061-01575	L Douglas Tennant	F2-134	Eastern Associated / Peabody Coal Company	39.692462	-80.237784	4-8-4	NA	Plugged 8/19/2008
061-00546	A Varner	2	Pennzoil Company	39.695797	-80.240038	4-8-4.2	NA	
061-00547	A Varner	5	NA	39.700002	-80.247173	4-8-3.1	2442'	

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# northeast

NATURAL ENERGY

## Bunner Pad Site Safety Plan

July 2022

Kenneth Greynolds

Digitally signed by Kenneth Greynolds  
DN: CN = Kenneth Greynolds email = Kenneth.L.  
Greynolds@wv.gov C = AD O = WVDEP OU = Oil and  
Gas  
Date: 2022.07.20 17:25:14 -0400

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**BUNNER  
WATER WELL EXHIBIT  
SCALE - (1" = 600')**



LAT: 39.6694  
LON: 80.2094

PATRICIA A. BUNNER  
55.27 ACRES  
TAX MAP & PARCEL  
31-04-0017-0005-0000

RODON PROPERTIES, LLC  
16.60 TOTAL ACRES  
TAX MAP AND PARCEL  
4-10-01-12

MARTHA TENNANT  
55.97 TOTAL ACRES  
TAX MAP AND PARCEL  
6-15-17

DANIEL S. AND RINGEL S.  
DUNWAS  
16.85 TOTAL ACRES  
TAX MAP AND PARCEL  
4-17-15

DANIEL S. AND RINGEL S.  
DUNWAS  
16.85 TOTAL ACRES  
TAX MAP AND PARCEL  
4-17-15

JOEL HENDRICKS  
15.40 TOTAL ACRES  
TAX MAP AND PARCEL  
4-17-15

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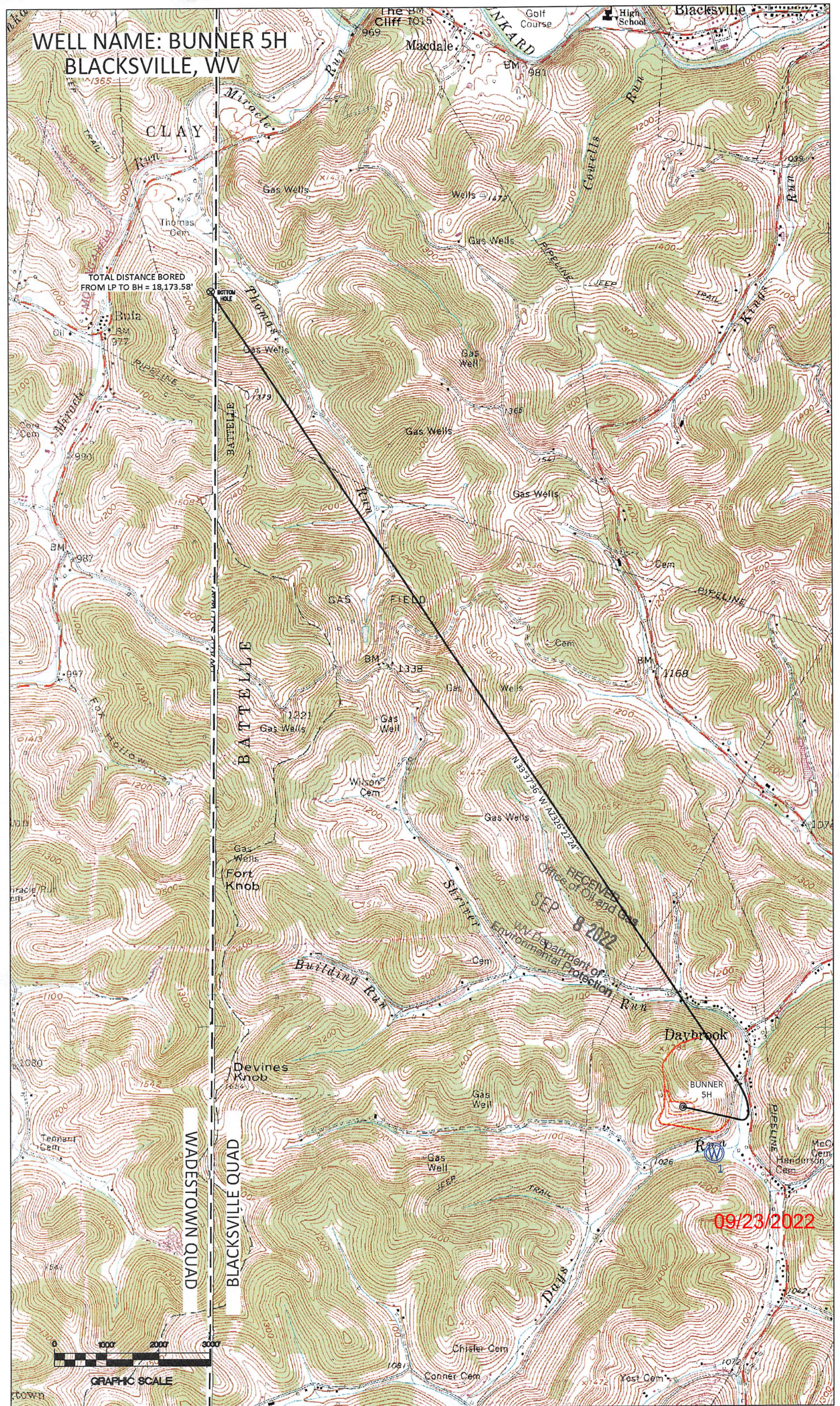
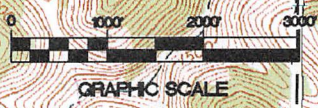
WELL NAME: BUNNER 5H  
BLACKSVILLE, WV

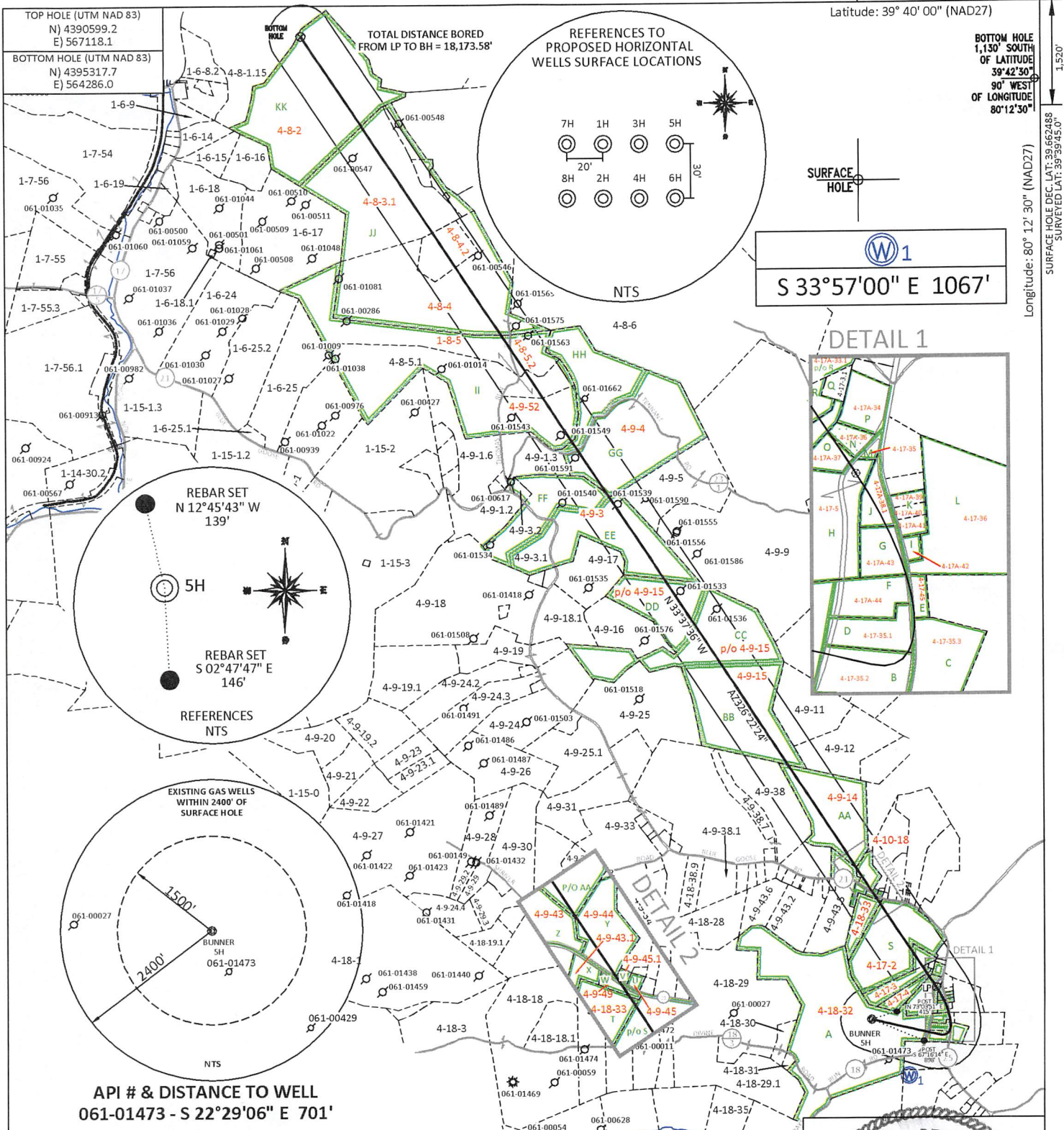
TOTAL DISTANCE BORED  
FROM LP TO BH = 18,173.58'

BLACKSVILLE QUAD

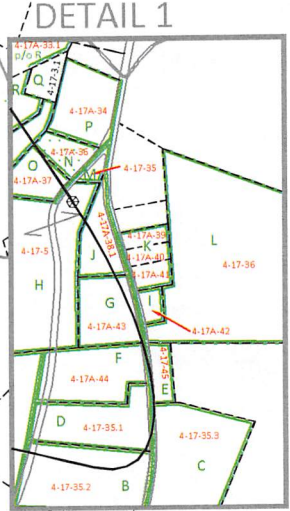
WADESTOWN QUAD

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W1  
S 33°57'00" E 1067'

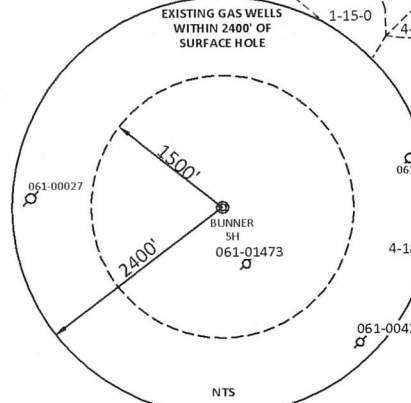


REBAR SET  
N 12°45'43" W  
139'

5H

REBAR SET  
S 02°47'47" E  
146'

REFERENCES  
NTS

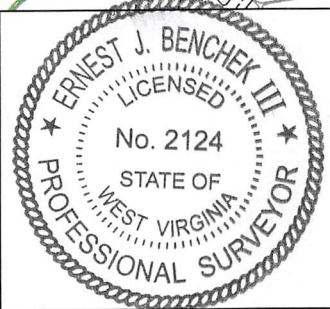


API # & DISTANCE TO WELL  
061-01473 - S 22°29'06" E 701'

FILE #: NEE14  
DRAWING #: 3076  
SCALE: PLAT: 1" = 2200' TICK MARK: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: 1/200  
PROVEN SOURCE: SUBMETER MAPPING OF ELEVATION: GRADE GPS

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

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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS W/DEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25304

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

WATERSHED: DUNKARD CREEK

COUNTY/DISTRICT: MONONGALIA / CLAY

SURFACE OWNER: PATRICIA A. BUNNER

OIL & GAS ROYALTY OWNER: PATRICIA BUNNER, et al

LEASE NUMBERS:

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

WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC  
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200  
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DATE: SEP 29, 2022  
OPERATOR'S WELL #: BUNNER 5H  
API WELL #: 61 01908  
STATE COUNTY PERMIT  
AS-BUILT  
ELEVATION: 1277.25'

QUADRANGLE: BLACKSVILLE, WV  
ACREAGE: 94.72 +/- 09/23/2022  
ACREAGE: 839.16 +/-

ESTIMATED DEPTH: TVD: 8,024' TMD: 26,961.79'  
DESIGNATED AGENT: JOHN ADAMS  
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200  
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

PROPERTY OWNER INDEX	
4-9-44	MAKAYLA ROSE, HALEY BROOKE & ABAGAIL PAIGE BARR
4-9-43	CHISLER INC
4-9-43.1	CHARLES W & KENALL L MOORE; JASON T MOORE ET AL
4-9-45.1	JERRY WILSON ET AL
4-9-49	RONNIE LYNN MCCORD
4-18-33	4 BROTHERS LLC
4-9-45	JERRY WILSON ET AL
4-17A-39	EDWARD BAEZ JR & TERESA BAEZ
4-17A-40	EDWARD BAEZ JR & TERESA BAEZ
4-17A-36	GLENNA D OWENS
4-17A-37	DAYBROOK CHURCH OF CHRIST
4-17-5	JUDITH R SINE
4-17A-43	GARY L & ANNA M SIMPSON
4-17A-44	CHRISTOPHER MARK TENNANT JR
4-17-33.1	LINDSAY J & PATRICIA A TENNANT
4-9-15	LOIS J MCCOY ET AL
4-9-3	JEFFREY TODD & CARLENE SUE MOORE ET AL
4-9-4	BRUCE & CATHY L CHISLER
4-9-14	FRED A MASON
4-17-2	ANGELA L CHISLER
4-17-3	ANGELA L CHISLER
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4-18-32	PATRICIA A BUNNER
4-17A-41	EDWARD BAEZ JR & TERESA BAEZ
4-17A-38.1	EVERETT & DOROTHY BARR
4-17-35	CNX LAND LLC
4-17A-34	ANTIOCH CHRISTIAN CHURCH
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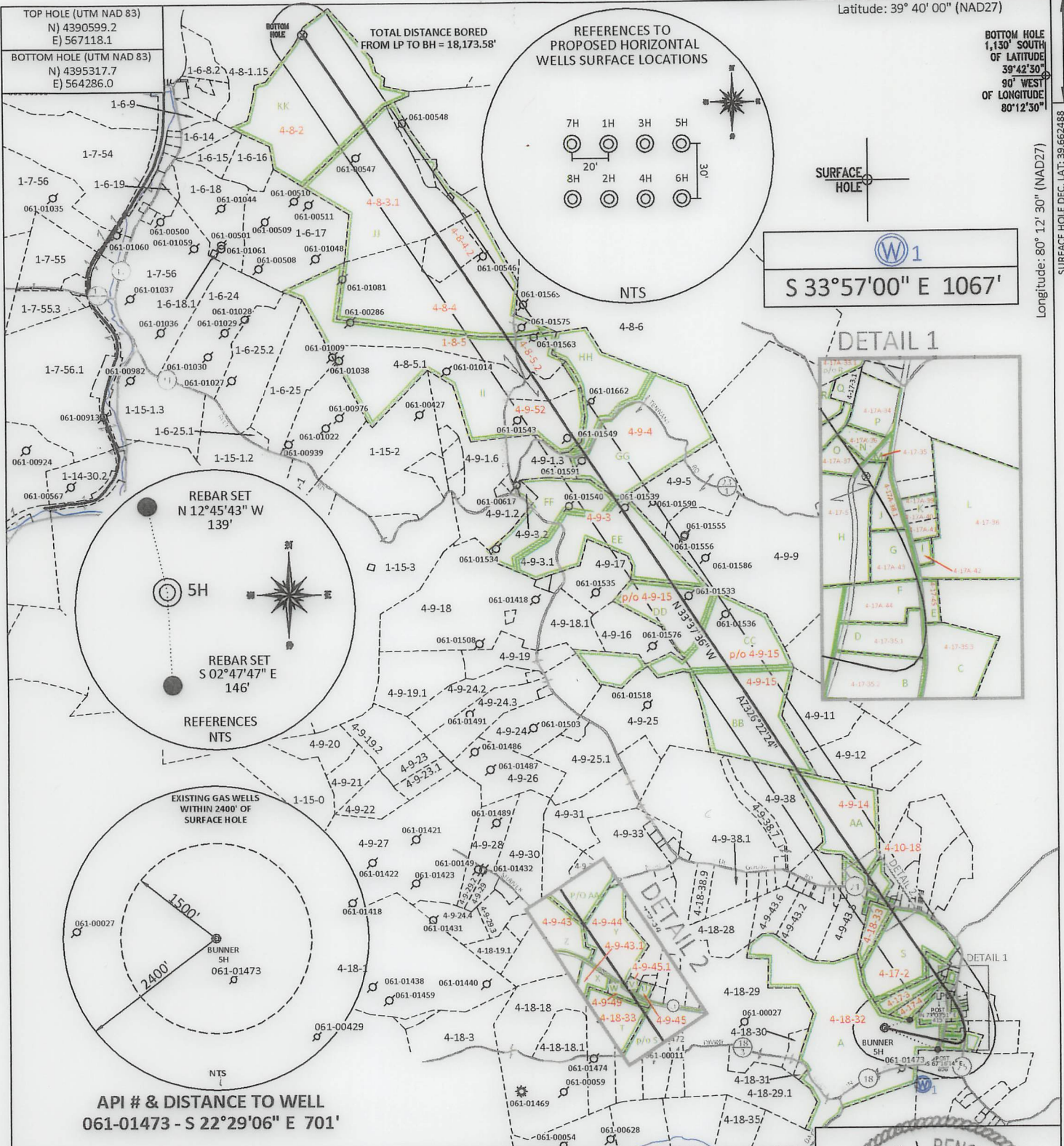
LEASE INDEX					
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B	WV-061-005157-033	O	WV-061-004096-000	BB	WV-061-005813-001
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E	WV-061-005157-033	R	WV-061-005711-001	EE	WV-061-003670-037
F	WV-061-004824-001	S	WV-061-005711-001	FF	WV-061-003670-037
G	WV-061-003958-000	T	WV-061-005878-001	GG	WV-061-005946-002
H	WV-061-002341-000	U	WV-061-005808-002	HH	WV-061-00161-01-LA
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J	WV-061-003958-000	W	WV-061-005826-001	JJ	WV-061-000160-001-LA
K	WV-061-005118-000	X	WV-061-005884-005	KK	WV-061-005863-002
L	WV-061-003849-000	Y	WV-061-004968-001		
M	WV-061-003959-010	Z	WV-061-005884-005		

09/23/2022

FILE #: NEE14  
DRAWING #: 3076  
SCALE: N/A

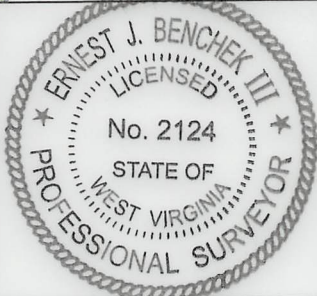
DATE: AUGUST 19, 2022  
OPERATOR'S WELL #: BUNNER 5H  
API WELL #: 47 61 01908  
STATE COUNTY PERMIT





FILE #: NEE14  
DRAWING #: 3076  
SCALE: PLAT: 1" = 2200'  
TICK MARK: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: 1/200  
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

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L	WV-061-003849-000	Y	WV-061-004968-001		
M	WV-061-003959-010	Z	WV-061-005884-005		

09/23/2022

FILE #: <u>NEE14</u>	DATE: <u>AUGUST 19, 2022</u>
DRAWING #: <u>3076</u>	OPERATOR'S WELL #: <u>BUNNER 5H</u>
SCALE: <u>N/A</u>	API WELL #: <u>47</u> <u>61</u> <u>01908</u> STATE COUNTY PERMIT

**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				

**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.

RECEIVED  
Office of Oil and Gas  
SEP 23 2022  
WV Department of Environmental Protection

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

WW-6A1

Operators Well No. Bunner NORTHEAST 5H

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page	Tax Map	Parcel	Index
A	WV-061-004154-001	Patricia Bunner	Northeast Natural Energy, LLC	12.5% or Greater	1563	435	18	32	390
B	WV-061-005157-033	John Walter Chisler	Northeast Natural Energy, LLC	12.5% or Greater	1629	202	17	35.2	1184
B	WV-061-005157-034	Dean Burton Chisler	Northeast Natural Energy, LLC	12.5% or Greater	1631	422			
B	WV-061-005157-050	FloAnn Herrmann	Northeast Natural Energy, LLC	12.5% or Greater	1650	229			
B	WV-061-005157-047	Donald Jay Brocklesby and Cynthia	Northeast Natural Energy, LLC	12.5% or Greater	1647	512			
B	WV-061-005157-048	Daniel Paul Brocklesby and Janice Ann	Northeast Natural Energy, LLC	12.5% or Greater	1647	514			
B	WV-061-005157-054	Ronald James Breaux	Northeast Natural Energy, LLC	12.5% or Greater	1658	567			
B	WV-061-005157-049	Edward Owen Evans	Northeast Natural Energy, LLC	12.5% or Greater	1647	516			
B	WV-061-005157-008	Worthy Edward Fox	Northeast Natural Energy, LLC	12.5% or Greater	1621	555			
B	WV-061-005157-007	Nancy P. Richter	Northeast Natural Energy, LLC	12.5% or Greater	1621	553			
B	WV-061-005157-013	Mildred Keck	Northeast Natural Energy, LLC	12.5% or Greater	1622	761			
B	WV-061-005157-003	Franklin Russell Keck	Northeast Natural Energy, LLC	12.5% or Greater	1621	583			
B	WV-061-005157-011	Avery Clarence Keck	Northeast Natural Energy, LLC	12.5% or Greater	1622	807			
B	WV-061-005157-025	Mary L. Farrow	Northeast Natural Energy, LLC	12.5% or Greater	1623	158			
B	WV-061-005157-006	Ralph L. Bohon	Northeast Natural Energy, LLC	12.5% or Greater	1621	589			
B	WV-061-005157-004	Terry Ann Burns	Northeast Natural Energy, LLC	12.5% or Greater	1621	585			
B	WV-061-005157-051	Virginia Hope Keck	Northeast Natural Energy, LLC	12.5% or Greater	1650	231			
B	WV-061-005668-004	Judith Elaine Dovel	Northeast Natural Energy, LLC	12.5% or Greater	143	303			
B	WV-061-005157-061	Sue Elliott	Northeast Natural Energy, LLC	12.5% or Greater	1673	281			
B	WV-061-005668-009	Juanita Gale Chenault	Northeast Natural Energy, LLC	12.5% or Greater	143	299			
B	WV-061-005157-014	Michael E. Phillips	Northeast Natural Energy, LLC	12.5% or Greater	1622	763			
B	WV-061-005157-010	Linda K. Brindley	Northeast Natural Energy, LLC	12.5% or Greater	1622	805			
B	WV-061-005157-024	Irene M. Douglass	Northeast Natural Energy, LLC	12.5% or Greater	1622	783			
B	WV-061-005157-018	Cynthia L. Phillips	Northeast Natural Energy, LLC	12.5% or Greater	1622	771			
B	WV-061-005157-026	June A. May	Northeast Natural Energy, LLC	12.5% or Greater	1623	160			
B	WV-061-005157-023	Thomas Daniel Tanner	Northeast Natural Energy, LLC	12.5% or Greater	1622	781			
B	WV-061-005157-022	Shelby Gene Tanner	Northeast Natural Energy, LLC	12.5% or Greater	1622	779			
B	WV-061-005157-027	Goldie Opal Hughes	Northeast Natural Energy, LLC	12.5% or Greater	1627	1			
B	WV-061-005157-043	Laura Lynn Humble	Northeast Natural Energy, LLC	12.5% or Greater	1647	155			
B	WV-061-005157-042	Rachelle Mae Humble	Northeast Natural Energy, LLC	12.5% or Greater	1647	153			
B	WV-061-005157-046	Danielle M. Kerr	Northeast Natural Energy, LLC	12.5% or Greater	1647	161			
B	WV-061-005157-044	Joshua D. Humble	Northeast Natural Energy, LLC	12.5% or Greater	1647	157			
B	WV-061-005157-041	Johnny Bill Humble	Northeast Natural Energy, LLC	12.5% or Greater	1647	151			
B	WV-061-005157-045	Pamela Sue Beyer	Northeast Natural Energy, LLC	12.5% or Greater	1647	159			
B	WV-061-005660-001	Peter James Humble	Northeast Natural Energy, LLC	12.5% or Greater	1708	206			
B	WV-061-005157-040	Adrienne Jean Humble	Northeast Natural Energy, LLC	12.5% or Greater	1647	149			
B	WV-061-005157-053	Frederick David Humble	Northeast Natural Energy, LLC	12.5% or Greater	1657	339			
B	WV-061-005157-068	Carol Kay Dillie	Northeast Natural Energy, LLC	12.5% or Greater	1683	265			
B	WV-061-005157-065	James R. Dillie	Northeast Natural Energy, LLC	12.5% or Greater	1679	282			
B	WV-061-005157-066	Tina Dillie	Northeast Natural Energy, LLC	12.5% or Greater	1679	284			
B	WV-061-005157-069	Lance Dillie	Northeast Natural Energy, LLC	12.5% or Greater	1683	267			
B	WV-061-005668-001	Julie Hauber	Northeast Natural Energy, LLC	12.5% or Greater	143	291			
B	WV-061-005157-062	Donna Z. Hillberry	Northeast Natural Energy, LLC	12.5% or Greater	1673	283			
B	WV-061-005157-064	Michael A. Riggle	Northeast Natural Energy, LLC	12.5% or Greater	1679	280			
B	WV-061-005157-067	Nancy Thompson	Northeast Natural Energy, LLC	12.5% or Greater	1680	595			
B	WV-061-005157-060	Larry Lee Hillberry	Northeast Natural Energy, LLC	12.5% or Greater	1671	391			
B	WV-061-005157-037	Ralph H. Vorhes	Northeast Natural Energy, LLC	12.5% or Greater	1637	748			
B	WV-061-005157-016	Charlotte V. Schimansky	Northeast Natural Energy, LLC	12.5% or Greater	1622	767			
B	WV-061-005157-002	Norma Jean Vankirk	Northeast Natural Energy, LLC	12.5% or Greater	1621	581			
B	WV-061-005157-005	James Blaine Vorhes	Northeast Natural Energy, LLC	12.5% or Greater	1621	587			
B	WV-061-005157-017	Edison Eugene Vorhes	Northeast Natural Energy, LLC	12.5% or Greater	1622	769			
B	WV-061-005157-001	John Leroy Hunter	Northeast Natural Energy, LLC	12.5% or Greater	1621	579			
B	WV-061-005157-015	David Reed Vorhes	Northeast Natural Energy, LLC	12.5% or Greater	1622	765			
B	WV-061-005668-002	Melissa Lynn Cramer	Northeast Natural Energy, LLC	12.5% or Greater	143	295			
B	WV-061-005668-005	Duane Robert Hunt	Northeast Natural Energy, LLC	12.5% or Greater	143	307			
B	WV-061-005157-035	Richard Windle Carrier	Northeast Natural Energy, LLC	12.5% or Greater	1655	298			
B	WV-061-005157-039	William Harold Hunt	Northeast Natural Energy, LLC	12.5% or Greater	1643	560			

RECEIVED  
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SEP 8 2012  
WV Dept. of Environmental Protection

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page	Tax Map	Page #	Index
B	WV-061-005157-031	Clemmie Smith	Northeast Natural Energy, LLC	12.5% or Greater	1627	451			
B	WV-061-005157-030	Jacquelyn Steiner	Northeast Natural Energy, LLC	12.5% or Greater	1627	449			
B	WV-061-005157-021	Deborah Jean Tidd	Northeast Natural Energy, LLC	12.5% or Greater	1622	777			
B	WV-061-005157-019	Michael William Ankrom	Northeast Natural Energy, LLC	12.5% or Greater	1622	773			
B	WV-061-005157-028	Steven Lawrence Ankrom	Northeast Natural Energy, LLC	12.5% or Greater	1627	3			
B	WV-061-005157-029	Gary Robert Ankrom	Northeast Natural Energy, LLC	12.5% or Greater	1627	5			
B	WV-061-005157-020	Mark Alan Ankrom	Northeast Natural Energy, LLC	12.5% or Greater	1622	775			
B	WV-061-005314-001	Jackie L. Eddy and Sylvia Jean Eddy	Northeast Natural Energy, LLC	12.5% or Greater	1632	21			
C	WV-061-005157-033	John Walter Chisler	Northeast Natural Energy, LLC	12.5% or Greater	1629	202	17	35.3	1185
C	WV-061-005157-034	Dean Burton Chisler, heir of George	Northeast Natural Energy, LLC	12.5% or Greater	1631	422			
C	WV-061-005157-050	FloAnn Herrmann, heir of Ruth Rebecca	Northeast Natural Energy, LLC	12.5% or Greater	1650	229			
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C	WV-061-005157-008	Worthy Edward Fox, Jr., heir of Virginia	Northeast Natural Energy, LLC	12.5% or Greater	1621	555			
C	WV-061-005157-007	Nancy P. Richter, heir of Virginia Alberta Fox	Northeast Natural Energy, LLC	12.5% or Greater	1621	553			
C	WV-061-005157-013	Mildred Keck, heir of Elmer Clark Keck	Northeast Natural Energy, LLC	12.5% or Greater	1622	761			
C	WV-061-005157-003	Franklin Russell Keck, heir of Elmer Clark	Northeast Natural Energy, LLC	12.5% or Greater	1621	583			
C	WV-061-005157-011	Avery Clarence Keck, heir of Elmer Clark	Northeast Natural Energy, LLC	12.5% or Greater	1622	807			
C	WV-061-005157-025	Mary L. Farrow, heir of Freda Bonham	Northeast Natural Energy, LLC	12.5% or Greater	1623	158			
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C	WV-061-005542-005	Judith Elaine Dovel, heir of Donna Jean	Northeast Natural Energy, LLC	12.5% or Greater	143	263			
C	WV-061-005157-061	Sue Elliott, f/k/a Sue Kerns, heir of Donna	Northeast Natural Energy, LLC	12.5% or Greater	1673	281			
C	WV-061-005542-004	Juanita Gale Chenault, heir of Donna Jean	Northeast Natural Energy, LLC	12.5% or Greater	143	259			
C	WV-061-005157-014	Michael E. Phillips, heir of Hazel Imogene	Northeast Natural Energy, LLC	12.5% or Greater	1622	763			
C	WV-061-005157-012	Mildred M. Phillips, heir of Roy W. Phillips	Northeast Natural Energy, LLC	12.5% or Greater	1622	809			
C	WV-061-005157-010	Linda K. Brindley, heir of Roy W. Phillips	Northeast Natural Energy, LLC	12.5% or Greater	1622	805			
C	WV-061-005157-024	Irene M. Douglass, heir of Roy W. Phillips	Northeast Natural Energy, LLC	12.5% or Greater	1622	783			
C	WV-061-005157-018	Cynthia L. Phillips, heir of Roy W. Phillips,	Northeast Natural Energy, LLC	12.5% or Greater	1622	771			
C	WV-061-005157-026	June A. May, heir of Roy W. Phillips	Northeast Natural Energy, LLC	12.5% or Greater	1623	160			
C	WV-061-005157-023	Thomas Daniel Tanner, heir of Madlyn M.	Northeast Natural Energy, LLC	12.5% or Greater	1622	781			
C	WV-061-005157-022	Shelby Gene Tanner, heir of Madlyn M.	Northeast Natural Energy, LLC	12.5% or Greater	1622	779			
C	WV-061-005157-027	Goldie Opal Hughes, heir of Clara Marie	Northeast Natural Energy, LLC	12.5% or Greater	1627	1			
C	WV-061-005157-043	Laura Lynn Humble, heir of Danny Edward	Northeast Natural Energy, LLC	12.5% or Greater	1647	155			
C	WV-061-005157-042	Rachelle Mae Humble, heir of Danny	Northeast Natural Energy, LLC	12.5% or Greater	1647	153			
C	WV-061-005157-046	Danielle M. Kerr, heir of Danny Edward	Northeast Natural Energy, LLC	12.5% or Greater	1647	161			
C	WV-061-005157-044	Joshua D. Humble, heir of Danny Edward	Northeast Natural Energy, LLC	12.5% or Greater	1647	157			
C	WV-061-005157-041	Johnny Bill Humble, heir of Bertha Mae	Northeast Natural Energy, LLC	12.5% or Greater	1647	151			
C	WV-061-005157-045	Pamela Sue Beyer, heir of Bertha Mae	Northeast Natural Energy, LLC	12.5% or Greater	1647	159			
C	WV-061-005660-001	Peter James Humble, heir of Gregory Paul	Northeast Natural Energy, LLC	12.5% or Greater	1708	206			
C	WV-061-005157-040	Adrienne Jean Humble, heir of Gregory	Northeast Natural Energy, LLC	12.5% or Greater	1647	149			
C	WV-061-005157-053	Frederick David Humble, heir of Bertha	Northeast Natural Energy, LLC	12.5% or Greater	1657	339			
C	WV-061-005157-068	Carol Kay Dillie, heir of James R. Dillie	Northeast Natural Energy, LLC	12.5% or Greater	1683	265			
C	WV-061-005157-065	James R. Dillie, heir of James R. Dillie	Northeast Natural Energy, LLC	12.5% or Greater	1679	282			
C	WV-061-005157-066	Tina Dillie, heir of James R. Dillie	Northeast Natural Energy, LLC	12.5% or Greater	1679	284			
C	WV-061-005157-069	Lance Dillie, heir of James R. Dillie	Northeast Natural Energy, LLC	12.5% or Greater	1683	267			
C	WV-061-005542-002	Julie Hauber, f/k/a Julie Dillie, heir of James	Northeast Natural Energy, LLC	12.5% or Greater	143	251			
C	WV-061-005157-062	Donna Z. Hillberry, heir of Alpheus Berl	Northeast Natural Energy, LLC	12.5% or Greater	1673	283			
C	WV-061-005157-064	Michael A. Riggle, heir of Jeanette Lorain	Northeast Natural Energy, LLC	12.5% or Greater	1679	280			
C	WV-061-005157-067	Nancy Thompspon, fka, Nancy Riggle, heir	Northeast Natural Energy, LLC	12.5% or Greater	1680	595			
C	WV-061-005157-060	Larry Lee Hillberry, heir of Beulah Faye	Northeast Natural Energy, LLC	12.5% or Greater	1671	391			
C	WV-061-005157-037	Ralph H. Vorhes, heir of Klova Vorhes	Northeast Natural Energy, LLC	12.5% or Greater	1637	748			
C	WV-061-005157-015	Charlotte V. Schimansky, heir of Klova	Northeast Natural Energy, LLC	12.5% or Greater	1622	767			
C	WV-061-005157-002	Norma Jean Vankirk, heir of Klova Vorhes	Northeast Natural Energy, LLC	12.5% or Greater	1621	581			
C	WV-061-005157-005	James Blaine Vorhes, heir of Klova Vorhes	Northeast Natural Energy, LLC	12.5% or Greater	1621	587			
C	WV-061-005157-017	Edison Eugene Vorhes, heir of Klova Vorhes	Northeast Natural Energy, LLC	12.5% or Greater	1622	769			

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C	WV-061-005157-001	John Leroy Hunter, heir of Karen Elaine	Northeast Natural Energy, LLC	12.5% or Greater	1621	579			
C	WV-061-005157-015	David Reed Vorhes, heir of Klova Vorhes	Northeast Natural Energy, LLC	12.5% or Greater	1622	765			
C	WV-061-005542-003	Melissa Lynn Cramer, heir of Rodney	Northeast Natural Energy, LLC	12.5% or Greater	143	255			
C	WV-061-005542-006	Duane Robert Hunt, heir of Rodney Harvey	Northeast Natural Energy, LLC	12.5% or Greater	143	267			
C	WV-061-005157-035	Richard Windle Carrier, Sr., heir of Clara	Northeast Natural Energy, LLC	12.5% or Greater	1635	298			
C	WV-061-005157-039	William Harold Hunt, heir of Herschel Hunt	Northeast Natural Energy, LLC	12.5% or Greater	1643	560			
C	WV-061-005157-031	Clemmie Smith, heir of Imogene Hannigan	Northeast Natural Energy, LLC	12.5% or Greater	1627	451			
C	WV-061-005157-030	Jacquelyn Steiner, heir of Imogene	Northeast Natural Energy, LLC	12.5% or Greater	1627	449			
C	WV-061-005157-021	Deborah Jean Tidd, heir of Robert William	Northeast Natural Energy, LLC	12.5% or Greater	1622	777			
C	WV-061-005157-019	Michael William Ankrom, heir Robert	Northeast Natural Energy, LLC	12.5% or Greater	1622	773			
C	WV-061-005157-028	Steven Lawrence Ankrom, heir Robert	Northeast Natural Energy, LLC	12.5% or Greater	1627	3			
C	WV-061-005157-029	Gary Robert Ankrom, heir Robert William	Northeast Natural Energy, LLC	12.5% or Greater	1627	5			
C	WV-061-005157-020	Mark Alan Ankrom, heir Robert William	Northeast Natural Energy, LLC	12.5% or Greater	1622	775			
C	WV-061-005542-001	Jackie P. Gum	Northeast Natural Energy, LLC	12.5% or Greater	1662	29			
D	WV-061-005157-033	John Walter Chisler	Northeast Natural Energy, LLC	12.5% or Greater	1629	202	17		
D	WV-061-005157-034	Dean Burton Chisler	Northeast Natural Energy, LLC	12.5% or Greater	1631	422			
D	WV-061-005157-050	FloAnn Herrmann	Northeast Natural Energy, LLC	12.5% or Greater	1650	229			
D	WV-061-005157-047	Donald Jay Brocklesby and Cynthia	Northeast Natural Energy, LLC	12.5% or Greater	1647	512			
D	WV-061-005157-048	Daniel Paul Brocklesby and Janice Ann	Northeast Natural Energy, LLC	12.5% or Greater	1647	514			
D	WV-061-005157-054	Ronald James Breaux	Northeast Natural Energy, LLC	12.5% or Greater	1658	567			
D	WV-061-005157-049	Edward Owen Evans	Northeast Natural Energy, LLC	12.5% or Greater	1647	516			
D	WV-061-005157-008	Worthy Edward Fox	Northeast Natural Energy, LLC	12.5% or Greater	1621	555			
D	WV-061-005157-007	Nancy P. Richter	Northeast Natural Energy, LLC	12.5% or Greater	1621	553			
D	WV-061-005157-013	Mildred Keck	Northeast Natural Energy, LLC	12.5% or Greater	1622	761			
D	WV-061-005157-003	Franklin Russell Keck	Northeast Natural Energy, LLC	12.5% or Greater	1621	583			
D	WV-061-005157-011	Avery Clarence Keck	Northeast Natural Energy, LLC	12.5% or Greater	1622	807			
D	WV-061-005157-025	Mary L. Farrow	Northeast Natural Energy, LLC	12.5% or Greater	1623	158			
D	WV-061-005157-006	Ralph L. Bohon	Northeast Natural Energy, LLC	12.5% or Greater	1621	589			
D	WV-061-005157-004	Terry Ann Burns	Northeast Natural Energy, LLC	12.5% or Greater	1621	585			
D	WV-061-005157-051	Virginia Hope Keck	Northeast Natural Energy, LLC	12.5% or Greater	1650	231			
D	WV-061-005669-004	Judith Elaine Dovel	Northeast Natural Energy, LLC	12.5% or Greater	143	323			
D	WV-061-005157-061	Sue Elliott	Northeast Natural Energy, LLC	12.5% or Greater	1673	281			
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D	WV-061-005157-026	June A. May	Northeast Natural Energy, LLC	12.5% or Greater	1623	160			
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D	WV-061-005157-069	Lance Dillie	Northeast Natural Energy, LLC	12.5% or Greater	1683	267			
D	WV-061-005669-001	Julie Hauber	Northeast Natural Energy, LLC	12.5% or Greater	143	311			
D	WV-061-005157-062	Donna Z. Hillberry	Northeast Natural Energy, LLC	12.5% or Greater	1673	283			
D	WV-061-005157-064	Michael A. Riggle	Northeast Natural Energy, LLC	12.5% or Greater	1679	280			
D	WV-061-005157-067	Nancy Thompson	Northeast Natural Energy, LLC	12.5% or Greater	1680	595			
D	WV-061-005157-060	Larry Lee Hillberry	Northeast Natural Energy, LLC	12.5% or Greater	1671	391			

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D	WV-061-005157-005	James Blaine Vorhes	Northeast Natural Energy, LLC	12.5% or Greater	1621	587			
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D	WV-061-005314-001	Jackie L. Eddy and Sylvia Jean Eddy	Northeast Natural Energy, LLC	12.5% or Greater	1632	21			
E	WV-061-005157-033	John Walter Chisler	Northeast Natural Energy, LLC	12.5% or Greater	1629	202	17A	45	1208
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E	WV-061-005594-007	Duane Robert Hunt	Northeast Natural Energy, LLC	12.5% or Greater	143	287			
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E	WV-061-005157-020	Mark Alan Ankrom	Northeast Natural Energy, LLC	12.5% or Greater	1622	775			
E	WV-061-005594-001	CNX Gas Company, LLC	Northeast Natural Energy, LLC	12.5% or Greater	1682	362			
F	WV-061-004824-001	Joseph and Amber Kavlicek	Northeast Natural Energy, LLC	12.5% or Greater	1608	820	17A	44	1207
F	WV-061-004824-007	Crystal Wise Barlow	Northeast Natural Energy, LLC	12.5% or Greater	1652	237			
F	WV-061-004824-015	David Nelson Pyles	Northeast Natural Energy, LLC	12.5% or Greater	1661	785			
F	WV-061-004824-027	Debbie Baker	Northeast Natural Energy, LLC	12.5% or Greater	144	452			
F	WV-061-004824-028	Dorothy Jane Rice	Northeast Natural Energy, LLC	12.5% or Greater	144	456			
F	WV-061-004824-017	Jason Don Pyles	Northeast Natural Energy, LLC	12.5% or Greater	1662	818			
F	WV-061-004824-019	Phyllis Elaine Pyles	Northeast Natural Energy, LLC	12.5% or Greater	1686	115			
F	WV-061-004824-012	Michael Cunningham	Northeast Natural Energy, LLC	12.5% or Greater	1654	343			
F	WV-061-004824-013	Christopher Cunningham	Northeast Natural Energy, LLC	12.5% or Greater	1654	345			
F	WV-061-004824-026	Kelly Kubala	Northeast Natural Energy, LLC	12.5% or Greater	1718	440			
F	WV-061-004824-024	Kimberly Shaw	Northeast Natural Energy, LLC	12.5% or Greater	1717	287			
F	WV-061-004824-025	Brian Kubala	Northeast Natural Energy, LLC	12.5% or Greater	1717	289			
F	WV-061-004824-023	Shari Sanders	Northeast Natural Energy, LLC	12.5% or Greater	1712	788			
F	WV-061-004824-029	Janet Berus	Northeast Natural Energy, LLC	12.5% or Greater	144	460			
F	WV-061-004824-003	Joann R. Taylor	Northeast Natural Energy, LLC	12.5% or Greater	1650	220			
F	WV-061-004824-030	Linda Jane Pollack	Northeast Natural Energy, LLC	12.5% or Greater	144	464			
F	WV-061-004824-008	Lynn Ann Brower	Northeast Natural Energy, LLC	12.5% or Greater	1652	239			
F	WV-061-004824-006	Rodney Merle Wise	Northeast Natural Energy, LLC	12.5% or Greater	1652	235			
F	WV-061-004824-014	Ronald S. Aldrich	Northeast Natural Energy, LLC	12.5% or Greater	1654	44			
F	WV-061-004824-031	Susan Pogany	Northeast Natural Energy, LLC	12.5% or Greater	144	458			
F	WV-061-004824-010	Victor Wise	Northeast Natural Energy, LLC	12.5% or Greater	1653	148			
G	WV-061-003958-000	Everett Barr and Dorothy Barr	Northeast Natural Energy, LLC	12.5% or Greater	1566	694	17A	43	1206
H	WV-061-002341-000	Judith Roberta Sine	Northeast Natural Energy, LLC	12.5% or Greater	1551	221	17	5	1189
I	WV-061-005118-000	Edward Baez Jr. and Teresa Baez	Northeast Natural Energy, LLC	12.5% or Greater	1618	779	17A	42	1205
J	WV-061-003958-000	Everett Barr and Dorothy Barr	Northeast Natural Energy, LLC	12.5% or Greater	1566	694	17A	38,1	1200
K	WV-061-005118-000	Edward Baez Jr. and Teresa Baez	Northeast Natural Energy, LLC	12.5% or Greater	1618	779	17A	40, 41	1202, 1203, 1204
L	WV-061-003849-000	Edward Baez Jr. and Teresa Baez	Northeast Natural Energy, LLC	12.5% or Greater	1564	272	17	36	1186
M	WV-061-003959-010	Charles Altamore	Northeast Natural Energy, LLC	12.5% or Greater	1612	815	17A	35, 36	1196, 1197
M	WV-061-003959-012	Fred Altamore	Northeast Natural Energy, LLC	12.5% or Greater	1621	583			
M	WV-061-003959-011	Guy S. Graziano	Northeast Natural Energy, LLC	12.5% or Greater	1613	718			
M	WV-061-005248-004	Rider Lee Jensen	Northeast Natural Energy, LLC	12.5% or Greater	1631	837			
M	WV-061-003959-067	Kathleen Ann Horrar	Northeast Natural Energy, LLC	12.5% or Greater	144	448			
M	WV-061-005157-001	Wendy A. Ingbretson	Northeast Natural Energy, LLC	12.5% or Greater	1654	252			
M	WV-061-005248-013	Mary E. Martin	Northeast Natural Energy, LLC	12.5% or Greater	1636	193			
M	WV-061-005248-008	Candice Lou Morris	Northeast Natural Energy, LLC	12.5% or Greater	1635	450			

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M	WV-061-003959-064	Corbie Maestas	Northeast Natural Energy, LLC	12.5% or Greater	1655	591			
M	WV-061-003959-063	Shiloh Knuckles	Northeast Natural Energy, LLC	12.5% or Greater	1655	589			
M	WV-061-003959-065	Alisha Knuckles	Northeast Natural Energy, LLC	12.5% or Greater	1657	300			
M	WV-061-005531-014	Jeri S. Moore	Northeast Natural Energy, LLC	12.5% or Greater	1695	150			
M	WV-061-005531-020	Joy Lee	Northeast Natural Energy, LLC	12.5% or Greater	1699	470			
M	WV-061-005531-017	John Lee	Northeast Natural Energy, LLC	12.5% or Greater	1697	750			
M	WV-061-004939-001	Donald G. Beal	Northeast Natural Energy, LLC	12.5% or Greater	1614	61			
M	WV-061-004939-002	David S. Beal	Northeast Natural Energy, LLC	12.5% or Greater	1614	63			
M	WV-061-005248-016	Clifford Bidwell	Northeast Natural Energy, LLC	12.5% or Greater	1657	276			
M	WV-061-005531-005	Kathy Diane Gallardo	Northeast Natural Energy, LLC	12.5% or Greater	1662	739			
M	WV-061-005531-001	Beth Ann Birtcil	Northeast Natural Energy, LLC	12.5% or Greater	1657	440			
M	WV-061-005531-002	Sarnuel Lee Baumgardner	Northeast Natural Energy, LLC	12.5% or Greater	1660	360			
M	WV-061-005531-003	Heather Kulak	Northeast Natural Energy, LLC	12.5% or Greater	1662	14			
M	WV-061-003959-042	Jacqueline Nuzzo	Northeast Natural Energy, LLC	12.5% or Greater	1637	658			
M	WV-061-005531-007	Jennifer Kay Eisenman	Northeast Natural Energy, LLC	12.5% or Greater	1670	136			
M	WV-061-003959-054	Glenda Jean Peer	Northeast Natural Energy, LLC	12.5% or Greater	1642	825			
M	WV-061-003959-030	Gary Lee Toothman	Northeast Natural Energy, LLC	12.5% or Greater	1637	412			
M	WV-061-003959-004	Joseph Anthony Haight	Northeast Natural Energy, LLC	12.5% or Greater	1608	650			
M	WV-061-003959-003	Mary V. Cole	Northeast Natural Energy, LLC	12.5% or Greater	1608	638			
M	WV-061-005533-001	Annette Peters Watson	Northeast Natural Energy, LLC	12.5% or Greater	1658	696			
M	WV-061-005533-004	Fred Peters	Northeast Natural Energy, LLC	12.5% or Greater	1658	702			
M	WV-061-005533-002	Kathleen Peters Razor	Northeast Natural Energy, LLC	12.5% or Greater	1658	698			
M	WV-061-005533-003	Bernard Peters	Northeast Natural Energy, LLC	12.5% or Greater	1658	700			
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N	WV-061-003959-065	Alisha Knuckles	Northeast Natural Energy, LLC	12.5% or Greater	1657	300			
N	WV-061-005531-014	Jeri S. Moore	Northeast Natural Energy, LLC	12.5% or Greater	1695	150			
N	WV-061-005531-020	Joy Lee	Northeast Natural Energy, LLC	12.5% or Greater	1699	470			
N	WV-061-005531-017	John Lee	Northeast Natural Energy, LLC	12.5% or Greater	1697	750			
N	WV-061-004939-001	Donald G. Beal	Northeast Natural Energy, LLC	12.5% or Greater	1614	61			
N	WV-061-004939-002	David S. Beal	Northeast Natural Energy, LLC	12.5% or Greater	1614	63			
N	WV-061-005248-016	Clifford Bidwell	Northeast Natural Energy, LLC	12.5% or Greater	1657	276			
N	WV-061-005531-005	Kathy Diane Gallardo	Northeast Natural Energy, LLC	12.5% or Greater	1662	739			
N	WV-061-005531-001	Beth Ann Birtcil	Northeast Natural Energy, LLC	12.5% or Greater	1657	440			
N	WV-061-005531-002	Samuel Lee Baumgardner	Northeast Natural Energy, LLC	12.5% or Greater	1660	360			
N	WV-061-005531-003	Heather Kulak	Northeast Natural Energy, LLC	12.5% or Greater	1662	14			
N	WV-061-003959-042	Jacqueline Nuzzo	Northeast Natural Energy, LLC	12.5% or Greater	1637	658			
N	WV-061-005531-007	Jennifer Kay Eisenman	Northeast Natural Energy, LLC	12.5% or Greater	1670	136			
N	WV-061-003959-054	Glenda Jean Peer	Northeast Natural Energy, LLC	12.5% or Greater	1642	825			
N	WV-061-003959-030	Gary Lee Toothman	Northeast Natural Energy, LLC	12.5% or Greater	1637	412			
N	WV-061-003959-004	Joseph Anthony Haught	Northeast Natural Energy, LLC	12.5% or Greater	1608	650			
N	WV-061-003959-003	Mary V. Cole	Northeast Natural Energy, LLC	12.5% or Greater	1608	638			
N	WV-061-005533-001	Annette Peters Watson	Northeast Natural Energy, LLC	12.5% or Greater	1658	696			
N	WV-061-005533-004	Fred Peters	Northeast Natural Energy, LLC	12.5% or Greater	1658	702			
N	WV-061-005533-002	Kathleen Peters Razor	Northeast Natural Energy, LLC	12.5% or Greater	1658	698			
N	WV-061-005533-003	Bernard Peters	Northeast Natural Energy, LLC	12.5% or Greater	1658	700			
O	WV-061-004096-000	Daybrook Church of Christ, f/k/a Antioch	Northeast Natural Energy, LLC	12.5% or Greater	1566	727	17A	37	1198
P	WV-061-004110-000	Daybrook Church of Christ, f/k/a Antioch	Northeast Natural Energy, LLC	12.5% or Greater	1566	10	17A	34	1195
Q	WV-061-005711-001	Angela L. Chisler	EQT Production Company	12.5% or Greater	1576	416	17	3, 3.1	1175, 1176
			EQT Production Company	Northeast Natural Energy, LLC	149	643			
R	WV-061-005711-001	Angela L. Chisler	EQT Production Company	12.5% or Greater	1576	416	17	3, 3.1	1175, 1176
			EQT Production Company	Northeast Natural Energy, LLC	149	643			
S	WV-061-005711-001	Angela L. Chisler	EQT Production Company	12.5% or Greater	1576	416			1174
			EQT Production Company	Northeast Natural Energy, LLC	149	643			
T	WV-061-005878-001	4 Brothers LLC	Northeast Natural Energy, LLC	12.5% or Greater	1770	61	18	33	1031
U	WV-061-005808-002	Joyce A. Clark	Northeast Natural Energy, LLC	12.5% or Greater	1760	846	9, 10	45, 18	1003, 1118
U	WV-061-005808-003	Jacqueline C. Cowell	Northeast Natural Energy, LLC	12.5% or Greater	1760	848			
U	WV-061-005808-001	Janice K. Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1760	844			
U	WV-061-005808-004	Jeffrey L. Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1760	820			
V	WV-061-004983-001	Joyce A. Clark	Northeast Natural Energy, LLC	12.5% or Greater	1616	234	9	45.1, 46	1119, 1120
V	WV-061-004983-003	Jacquelyn C. Cowell	Northeast Natural Energy, LLC	12.5% or Greater	1616	238			
V	WV-061-004983-004	James L. Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1616	242			
V	WV-061-004983-007	Janice K. Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1616	248			
V	WV-061-004983-005	Jeffrey L. Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1616	244			
V	WV-061-004983-006	Jerry L. Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1616	246			
V	WV-061-004983-002	Judith C. Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1616	236			
W	WV-061-005826-001	Equinor USA Onshore Properties Inc.	Northeast Natural Energy, LLC	12.5% or Greater	1761	150	9	49	1123
X	WV-061-005884-005	Diane Lynn Long	Northeast Natural Energy, LLC	12.5% or Greater	1770	87	9	43.1	1113
X	WV-061-005884-004	Dale Lynn Moore	Northeast Natural Energy, LLC	12.5% or Greater	1770	85			
X	WV-061-005884-001	Danny Keith Moore	Northeast Natural Energy, LLC	12.5% or Greater	1770	79			
X	WV-061-005884-002	David Wayne Moore	Northeast Natural Energy, LLC	12.5% or Greater	1770	81			
X	WV-061-005884-003	Donny Lee Moore	Northeast Natural Energy, LLC	12.5% or Greater	1770	83			
Y	WV-061-004968-001	Barbara Eddy-Barr, custodian for Makayla	Northeast Natural Energy, LLC	12.5% or Greater	1614	635	9	44, 51	1126, 1783
Y	WV-061-005826-001	Equinor USA Onshore Properties Inc.	Northeast Natural Energy, LLC	12.5% or Greater	1761	150			
Z	WV-061-005884-005	Diane Lynn Long	Northeast Natural Energy, LLC	12.5% or Greater	1770	87	9	43	1112
Z	WV-061-005884-004	Dale Lynn Moore	Northeast Natural Energy, LLC	12.5% or Greater	1770	85			
Z	WV-061-005884-001	Danny Keith Moore	Northeast Natural Energy, LLC	12.5% or Greater	1770	79			
Z	WV-061-005884-002	David Wayne Moore	Northeast Natural Energy, LLC	12.5% or Greater	1770	81			
Z	WV-061-005884-003	Donny Lee Moore	Northeast Natural Energy, LLC	12.5% or Greater	1770	83			
AA	WV-061-003897-001	Fred A. Mason	Northeast Natural Energy, LLC	12.5% or Greater	1553	13	9	14	1049
BB	WV-061-005813-001	Heritage Resources - Marcellus Minerals	Northeast Natural Energy, LLC	12.5% or Greater	1760	834	9	po 15	1050A
CC	WV-061-004183-001	Diana M. Fox	Northeast Natural Energy, LLC	12.5% or Greater	1567	197	9	po 15	1050C

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page	Tax Map	Parcel	Index
DD	WV-061-005897-001	Raymond Parrish Gaston	Northeast Natural Energy, LLC	12.5% or Greater	1773	529	9	17.2	1050B
EE	WV-061-003670-037	Diana Adamson	Northeast Natural Energy, LLC	12.5% or Greater	1630	199	9	p/o 3, p/o 3.1, 3.2, 3.3	1079, 1080, 1081, 1082
EE	WV-061-003670-024	Donna L. Huffman	Northeast Natural Energy, LLC	12.5% or Greater	1629	112			
EE	WV-061-003670-012	Larry Hull	Northeast Natural Energy, LLC	12.5% or Greater	1614	383			
EE	WV-061-003670-008	Donley E. Kisner	Northeast Natural Energy, LLC	12.5% or Greater	1611	654			
EE	WV-061-003670-005	Vickie L. Kisner	Northeast Natural Energy, LLC	12.5% or Greater	1608	644			
EE	WV-061-003670-042	Linda Moran	Northeast Natural Energy, LLC	12.5% or Greater	1635	534			
EE	WV-061-003670-007	Lola E. May	Northeast Natural Energy, LLC	12.5% or Greater	1611	263			
EE	WV-061-003670-009	Shirley J. Miller	Northeast Natural Energy, LLC	12.5% or Greater	1612	807			
EE	WV-061-003670-043	Lea Ann Papesh	Northeast Natural Energy, LLC	12.5% or Greater	1635	536			
EE	WV-061-003670-025	R. Bruce Rogers	Northeast Natural Energy, LLC	12.5% or Greater	1629	117			
EE	WV-061-003670-044	Jason Sumner	Northeast Natural Energy, LLC	12.5% or Greater	1635	538			
EE	WV-061-003670-059	Burl A. Tennant Jr.	Northeast Natural Energy, LLC	12.5% or Greater	1643	196			
EE	WV-061-003670-010	Russel D. Walters	Northeast Natural Energy, LLC	12.5% or Greater	1612	809			
FF	WV-061-003670-037	Diana Adamson	Northeast Natural Energy, LLC	12.5% or Greater	1630	199		p/o 3, p/o 3.1, 3.2, 3.3	1079, 1080, 1081, 1082
FF	WV-061-003670-024	Donna L. Huffman	Northeast Natural Energy, LLC	12.5% or Greater	1629	112			
FF	WV-061-003670-012	Larry Hull	Northeast Natural Energy, LLC	12.5% or Greater	1614	383			
FF	WV-061-003670-008	Donley E. Kisner	Northeast Natural Energy, LLC	12.5% or Greater	1611	654			
FF	WV-061-003670-005	Vickie L. Kisner	Northeast Natural Energy, LLC	12.5% or Greater	1608	644			
FF	WV-061-003670-042	Linda Moran	Northeast Natural Energy, LLC	12.5% or Greater	1635	534			
FF	WV-061-003670-007	Lola E. May	Northeast Natural Energy, LLC	12.5% or Greater	1611	263			
FF	WV-061-003670-009	Shirley J. Miller	Northeast Natural Energy, LLC	12.5% or Greater	1612	807			
FF	WV-061-003670-043	Lea Ann Papesh	Northeast Natural Energy, LLC	12.5% or Greater	1635	536			
FF	WV-061-003670-025	R. Bruce Rogers	Northeast Natural Energy, LLC	12.5% or Greater	1629	117			
FF	WV-061-003670-044	Jason Sumner	Northeast Natural Energy, LLC	12.5% or Greater	1635	538			
FF	WV-061-003670-059	Burl A. Tennant Jr.	Northeast Natural Energy, LLC	12.5% or Greater	1643	196			
FF	WV-061-003670-010	Russel D. Walters	Northeast Natural Energy, LLC	12.5% or Greater	1612	809			
GG	WV-061-005946-002	Barbara Tera Michalk	Northeast Natural Energy, LLC	12.5% or Greater	1779	33	9	po 4	1106A
HH	WV-061-00161-01-LA	Shuman Inc.	Northeast Natural Energy, LLC	12.5% or Greater	152	238	9	po 4	1106
II	WV-061-006004-001	William E. Snyder et al	CNG Producing Company	12.5% or Greater	* See Leasehold Chain Attached				1034 et al
JJ	WV-061-000160-001-LA	Abraham Varner	Waynesburg Natural Gas Company	*See Leasehold Chain Attached	40	21	8	3,3.1,3.2,3.3,3.4, 4, 4.1, 4.2	1764 et al
KK	WV-061-005863-002	Elizabeth Ann Reese	Northeast Natural Energy, LLC	12.5% or Greater	1767	741	8	2	1763
KK	WV-061-005863-001	Kathy Lynn Snyder	Northeast Natural Energy, LLC	12.5% or Greater	1767	739	8	2	
KK	WV-061-005863-003	John M. Butcher Sr.	Northeast Natural Energy, LLC	12.5% or Greater	1767	743	8	2	

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page	Tax Map	Parcel	Index
T		William E. Snyder et al	CNG Producing Company	12.5% or Greater	1029	314	8; 9	5, 5.1, 5.2; 52	1034; 1127, 2128, 2128A
		CNG Producing Company	Dominion Exploration & Production Company	WV Secretary of State Name change 5/10/2000					
		Dominion Exploration & Production Company	Antero Resources Appalachian Corporation		102	797			
		Antero Resources Appalachian Corporation	Northeast Natural Energy, LLC		158	94			

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page	Tax Map	Parcel	Index
U		Abraham Varner	Waynesburg Natural Gas Company	12.5% or Greater	40	21			
		Waynesburg Natural Gas Company	The Manufacturers Light and Heat Company	PA Secretary of State Merger					
		The Manufacturers Light and Heat Company	The Preston Oil Company		502	395			
		The Preston Oil Company	South Penn Natural Gas Company		505	436			
		South Penn Natural Gas Company	South Penn Oil Company		580	311			
		South Penn Oil Company	Pennzoil Company	Change of Name Certificate	50	573			
		Pennzoil Company	Pennzoil United, Inc.						
		Pennzoil United, Inc.	Pennzoil Company	WV Secretary of State Name Change					
		Pennzoil Company	Pennzoil Products Company		23	280			
		Pennzoil Products Company	Pennzoil Exploration and Production Company		53	69*			
		Pennzoil Exploration and Production Company	PennzEnergy Exploration and Production LLC	WV Secretary of State Merger					
		PennzEnergy Exploration and Production LLC	Devon Energy Production Company, LLC	WV Secretary of State Merger					
		Devon Energy Production Company, LLC	East Resources, Inc.		1207	146			
		East Resources, Inc.	HG Energy, LLC		110	500			
		HG Energy, LLC	American Energy - Marcellus, LLC		123	43			
		American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC		122	85			
		Ascent Resources - Marcellus, LLC	EQT Production Company		132	166			
		EQT Production Company	Northeast Natural Energy, LLC		1775	39			

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July 26, 2022

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

RE: Bunner NE – 1H, 3H, 5H, 7H

Dear Permit Reviewer:

Please be advised that Northeast Natural Energy LLC has the right to drill, extract and produce the minerals beneath the roads identified as Blue Goose Road/Route 21, Upper Days Run Road/Route 18, and SR 18/3.

Sincerely,

*Charles Dornetto*

Charles Dornetto  
Manager – Land Acquisitions

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

Date of Notice Certification: 07/27/2022

API No. 47- \_\_\_\_\_ - \_\_\_\_\_

Operator's Well No. 5H

Well Pad Name: Bunner

**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>567118.1</u>
County:	<u>Monongalia</u>		Northing:	<u>4390599.2</u>
District:	<u>Clay</u>	Public Road Access:	<u>Upper Days Run Rd./ CR 18</u>	
Quadrangle:	<u>Blacksville, WV</u>	Generally used farm name:	<u>Bunner</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

- 1. NOTICE OF SEISMIC ACTIVITY or  NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED
- 2. NOTICE OF ENTRY FOR PLAT SURVEY or  NO PLAT SURVEY WAS CONDUCTED
- 3. NOTICE OF INTENT TO DRILL or  NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or  WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
- 4. NOTICE OF PLANNED OPERATION
- 5. PUBLIC NOTICE
- 6. NOTICE OF APPLICATION

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OOG OFFICE USE ONLY

- RECEIVED/ NOT REQUIRED
- RECEIVED
- RECEIVED/ NOT REQUIRED
- RECEIVED
- RECEIVED
- RECEIVED

**Required Attachments:**

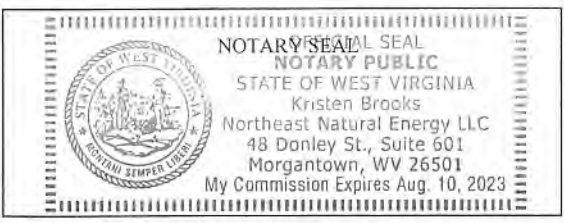
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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.

WW-6AC  
(1/12)

**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. *Hollie Medley*

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></u>



Subscribed and sworn before me this 27<sup>th</sup> day of July, 2022.  
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 [deprivacyofficer@wv.gov](mailto:deprivacyofficer@wv.gov).

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**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:** 7/19/2022 **Date Permit Application Filed:** 7/29/2022

**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 & COAL OWNER

Name: Patricia A. Bunner  
 Address: 15 Devine Road  
Fairview, WV 26570

Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

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

Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)

Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

COAL OWNER

Name: Phoenix Energy Resources, LLC  
 Address: 863 Quail Valley Drive  
Princeton, WV 24740

COAL OWNER  
 Name: Consol Mining Company  
 Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317

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

Name: Roger & Joyce Williams Trust  
 Address: 2318 Daybrook Rd  
Fairview, WV 26570

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

\*Please attach additional forms if necessary

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**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

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

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

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

**Water Well Testing:**

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

**Water Testing Laboratories:**

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

**Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:**

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

**Written Comment:**

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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

RECEIVED  
Office of Oil and Gas

JUL 29 2022

WV Department of  
Environmental Protection

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

WW-6A  
(8-13)

API NO. 47- \_\_\_\_\_  
 OPERATOR WELL NO. 5H \_\_\_\_\_  
 Well Pad Name: Bunner

### **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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 Office of the Chief  
 JUL 29 2022  
 WV Department of  
 Environmental Protection

09/23/2022

706101908

WW-6A  
(8-13)

API NO. 47- \_\_\_\_\_  
OPERATOR WELL NO. 5H \_\_\_\_\_  
Well Pad Name: Bunner

**Notice is hereby given by:**

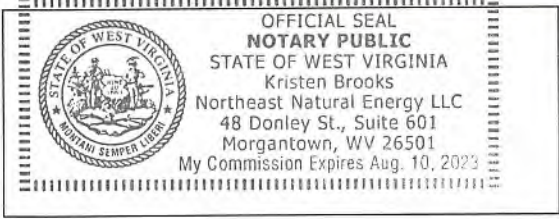
Well Operator: Northeast Natural Energy LLC  
Telephone: 304-241-5752  
Email: \_\_\_\_\_

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](mailto:depprivacyofficer@wv.gov).

*Holl: mead*



Subscribed and sworn before me this 19th day of July, 2022.  
Kristen Brooks Notary Public  
My Commission Expires Aug. 10, 2023

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Office of Oil and Gas  
JUL 29 2022  
WV Department of  
Environmental Protection

**BUNNER  
WATER WELL EXHIBIT  
SCALE - (1" = 600')**



LAT: 39.6694  
LON: 80.2094

State of North Carolina

JUL 29 2022

Department of  
Environmental Protection

09/23/2022



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

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

Date of Notice: 7/25/2019 Date of Planned Entry: 8/5/2019

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: Patricia A Bunner  
Address: 15 Devine Rd  
Fairview, WV 26570

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>Dunkard Creek</u>
County: <u>Monongalia</u>	Public Road Access: <u>CR 25/2</u>
District: <u>Clay</u>	Watershed: <u>Dunkard Creek</u>
Quadrangle: <u>Blacksville</u>	Generally used farm name: <u>Bunner</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 57<sup>th</sup> 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](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Notice is hereby given by:

Well Operator: Northeast Natural Energy LLC  
Telephone: 304-241-5752  
Email: \_\_\_\_\_

Address: 707 Virginia St. E, Suite 1200  
Charleston, WV 25301  
Facsimile: \_\_\_\_\_

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Office of Oil and Gas  
JUL 29 2022  
WV Department of  
Environmental Protection

Oil and Gas Privacy Notice:

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

WW-6A3  
(1/12)

Operator Well No. Bunner Pad

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

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

**Date of Notice:** 7/25/2019      **Date of Planned Entry:** 8/5/2019

**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: Daybrook Church of Christ  
Address: 14 Upper Days Run  
Fairview, WV 26570

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

MINERAL OWNER(S)

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*please attach additional forms if necessary

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JUL 29 2022

WV Department of  
Environmental Protection

**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>Dunkard Creek</u>
County:	<u>Monongalia</u>	Public Road Access:	<u>CR 25/2</u>
District:	<u>Clay</u>	Watershed:	<u>Dunkard Creek</u>
Quadrangle:	<u>Blacksville</u>	Generally used farm name:	<u>Bunner</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 57<sup>th</sup> 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](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator:	<u>Northeast Natural Energy LLC</u>	Address:	<u>707 Virginia St. E, Suite 1200</u>
Telephone:	<u>304-241-5752</u>		<u>Charleston, WV 25301</u>
Email:	_____	Facsimile:	_____

**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](mailto:depprivacyofficer@wv.gov).

09/23/2022

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

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

**Date of Notice:** 7/25/2019      **Date of Planned Entry:** 8/5/2019

**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: Angela L. Chisler

Address: 153 Blue Goose Rd  
Fairview, WV 26570

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

- COAL OWNER OR LESSEE

Name: \_\_\_\_\_

Address: \_\_\_\_\_

- MINERAL OWNER(s)

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\*please attach additional forms if necessary

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JUL 29 2022

WV Department of  
Environmental Protection

**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>Dunkard Creek</u>
County:	<u>Monongalia</u>	Public Road Access:	<u>CR 25/2</u>
District:	<u>Clay</u>	Watershed:	<u>Dunkard Creek</u>
Quadrangle:	<u>Blacksville</u>	Generally used farm name:	<u>Bunner</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 57<sup>th</sup> 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](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator:	<u>Northeast Natural Energy LLC</u>	Address:	<u>707 Virginia St. E, Suite 1200</u>
Telephone:	<u>304-241-5752</u>		<u>Charleston, WV 25301</u>
Email:	_____	Facsimile:	_____

**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](mailto:depprivacyofficer@wv.gov).

**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:** 07/19/2022      **Date Permit Application Filed:** 07/29/2022

**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: Patricia A. Bunner  
Address: 15 Devine Road  
Fairview, WV 26570

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

RECEIVED  
Office of Oil and Gas  
JUL 29 2022  
WV Department of  
Environmental Protection

**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>567118.1</u>
County:	<u>Monongalia</u>	UTM NAD 83 Northing:	<u>4390599.1</u>
District:	<u>Clay</u>	Public Road Access:	<u>Upper Days Run Rd/CR 18</u>
Quadrangle:	<u>Blacksville, WV</u>	Generally used farm name:	<u>Bunner</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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: Northeast Natural Energy, LLC  
Address: 707 Virginia St. E., Suite 1200  
Charleston, WV 25301  
Telephone: 304-414-7060  
Email: \_\_\_\_\_  
Facsimile: \_\_\_\_\_

Authorized Representative: Hollie Medley, Regulatory Manager  
Address: 48 Donley St., Suite 601  
Morgantown, WV 26501  
Telephone: 304-212-0422  
Email: hmedley@nne-llc.com  
Facsimile: \_\_\_\_\_

**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](mailto:depprivacyofficer@wv.gov).

WW-6A5  
(1/12)

**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:** 07/19/2022      **Date Permit Application Filed:** 07/29/2022

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

CERTIFIED MAIL                                       HAND  
RETURN RECEIPT REQUESTED                                      DELIVERY

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

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

(at the address listed in the records of the sheriff at the time of notice):

Name: Patricia A. Bunner

Address: 15 Devine Road

Fairview, WV 26570

Name: \_\_\_\_\_

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>567118.1</u>
County:	<u>Monongalia</u>		Northing:	<u>4390599.2</u>
District:	<u>Clay</u>	Public Road Access:	<u>Upper Days Run Rd/ CR 18</u>	
Quadrangle:	<u>Blacksville, WV</u>	Generally used farm name:	<u>Bunner</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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: Northeast Natural Energy LLC

Telephone: 304-414-7060

Email: \_\_\_\_\_

Address: 707 Virginia St. E. Suite 1200

Charleston, WV 25301

Facsimile: \_\_\_\_\_

**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](mailto:depprivacyofficer@wv.gov).

RECEIVED  
Office of Oil and Gas  
JUL 29 2022  
WV Department of  
Environmental Protection  
**09/23/2022**



## WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

## Division of Highways

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

D. Alan Reed, P.E.  
State Highway Engineer

Jimmy Wriston, P. E.  
Secretary of Transportation  
Commissioner of Highways

June 29, 2022

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

Subject: DOH Permit for the Bunner Pad, Monongalia County  
Bunner 5H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2019-0982 which has been issued to Northeast Natural Energy for access to the State Road for a well site located off Monongalia County Route 18 SLS MP 3.98.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

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

Cc: Kristen Brooks  
Northeast Natural Energy  
CH, OM, D-4  
File

RECEIVED  
Office of Oil and Gas  
JUL 29 2022  
WV Department of  
Environmental Protection

4706101908

## 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 Control	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

RECEIVED  
 Office of Oil and Gas  
 JUL 29 2022  
 N.Y. Department of  
 Environmental Protection



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

OWNER



**northeast**  
NATURAL ENERGY

NORTHEAST NATURAL ENERGY, LLC  
707 VIRGINIA STREET EAST, SUITE1200,  
CHARLESTON, WV 25301

# BUNNER WELL PAD AS-BUILT

## CLAY DISTRICT, MONONGALIA COUNTY, WV

### JUNE 2021

PLANS PREPARED BY:

**BOORD BENCHEK & ASSOC., INC.**  
ENGINEERING, SURVEYING, CONSTRUCTION AND MINING SERVICES  
SOUTHPOINTE, PA 15317 PHONE: 724-746-1055

SHEET INDEX	
1.	TITLE SHEET
2-3.	EVACUATION ROUTE/PREVAILING WIND
4.	AS-BUILT OVERVIEW
5-6.	ASBUILT
7.	ACCESS ROAD PROFILE
8.	RECLAMATION PLAN OVERVIEW
9-10.	RECLAMATION PLAN
11.	DETAILS

TOTAL DISTURBED AREA: 16.97 AC.  
ACCESS ROAD DISTURBED AREA: 8.43 AC.  
WELL PAD DISTURBED AREA: 8.54 AC.  
ACCESS ROAD LENGTH: 2481.17'  
ACCESS ROAD AVG. WIDTH: 20'  
WELL PAD ELEVATION: 1277'

PROPERTY OWNER DISTURBANCE  
PATRICA A BUNNER (04-18-32): 16.48 AC.  
PATRICA A BUNNER (04-17-6.1): 0.49 AC.



ANDREW BENCHEK  
P.E.

DATE

TOTAL PROJECT AREA: 16.97 AC.



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.

COORDINATES	
CENTER OF WELL PAD (NAD 83)	
LAT:-39°39'45.36"	
LONG:-80°13'03.38"	
(NAD27)	
LAT:-39°39'45.06"	
LONG:-80°13'04.12"	
SITE ENTRANCE (NAD 83)	
LAT:-39°39'43.55"	
LONG:-80°12'41.15"	
(NAD27)	
LAT:-39°39'43.26"	
LONG:-80°12'41.89"	



REVISIONS		
NO.	DATE	DESCRIPTION

### BUNNER WELL PAD AS-BUILT

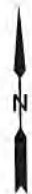
BUNNER WELL PAD  
CLAY DISTRICT, MONONGALIA COUNTY, WV

SHEET

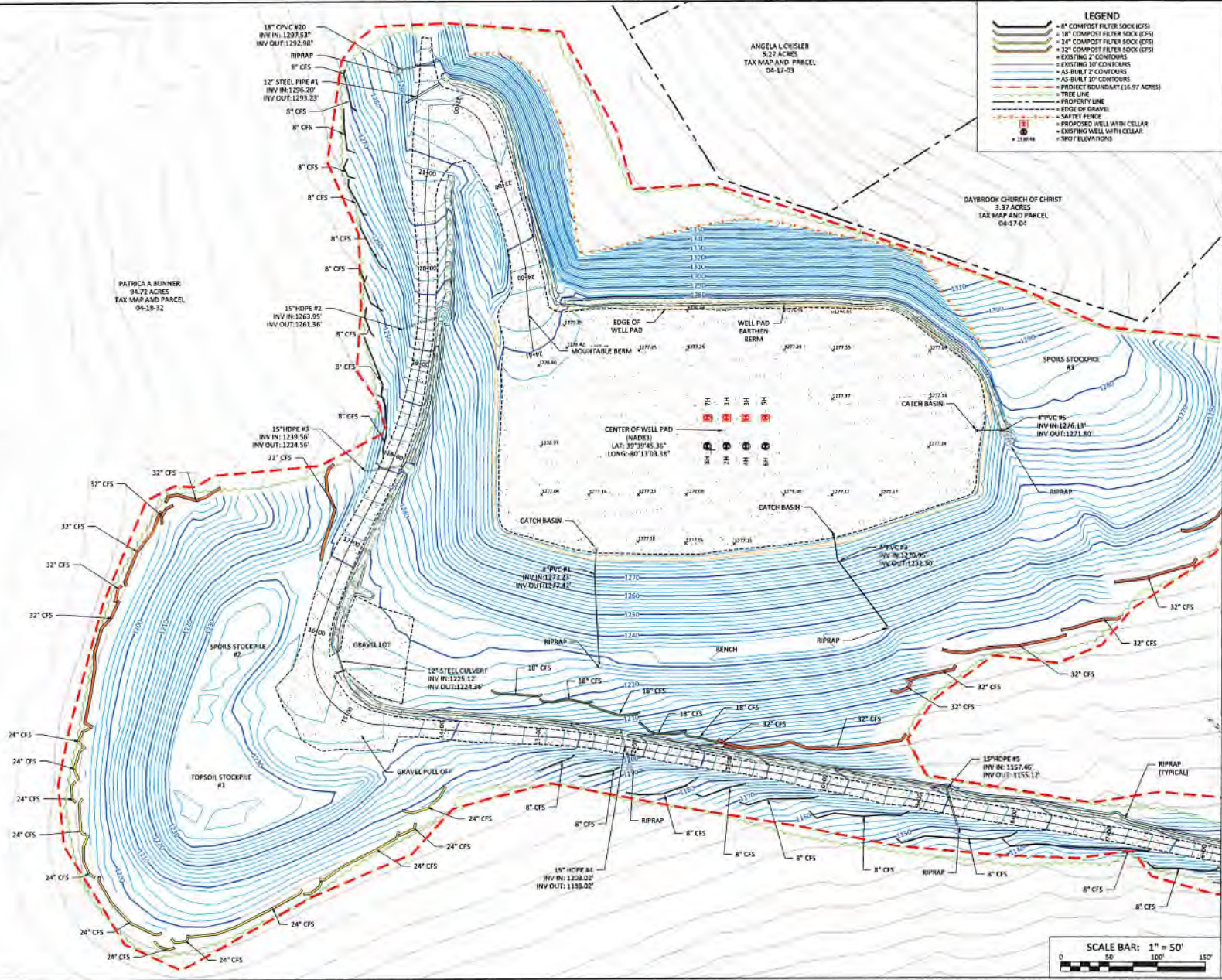
1  
OF  
11







**WVDEP OOG  
ACCEPTED AS-BUILT**  
*[Signature]* 9/7/2022



- LEGEND**
- 8" COMPOSITE FILTER SOCK (CFS)
  - 12" COMPOSITE FILTER SOCK (CFS)
  - 15" COMPOSITE FILTER SOCK (CFS)
  - 18" COMPOSITE FILTER SOCK (CFS)
  - 24" COMPOSITE FILTER SOCK (CFS)
  - 32" COMPOSITE FILTER SOCK (CFS)
  - EXISTING 12" CONTOURS
  - EXISTING 2" CONTOURS
  - AS-BUILT 2" CONTOURS
  - AS-BUILT 12" CONTOURS
  - PROJECT BOUNDARY (66.97 ACRES)
  - TREE LINE
  - PROPERTY LINE
  - EDGE OF GRAVEL
  - SAFETY FENCE
  - PROPOSED WELL WITH CELLAR
  - EXISTING WELL WITH CELLAR
  - SPOT ELEVATIONS

**BOORD, BENCHEK and ASSOC., INC.**  
Engineering, Surveying, Construction,  
and Mining Services  
Southpointe, PA 15317 Phone: 724-746-1055

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

DATE: JUNE 2021  
BUNNER WELL PAD  
AS-BUILT  
CLAY DISTRICT,  
MONONGALIA  
COUNTY, WV

NO.	DATE	REVISIONS	DESCRIPTION

