

west virginia department of environmental protection

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

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

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

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

Permit approval for BUNNER 3H Re:

47-061-01907-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

Operator's Well Number: BUNNER

Farm Name: U.S. WELL NUMBER:

47-061-01907-00-00

Horizontal 6A New Drill

Date Issued: 9/19/2022

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.

CONDITIONS

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

API NO. 47-	4	7	0	6	1	0	1	9	0	7
OPERAT	OR	WE	LL	NO	. 3F	1				
Well Pa	d Na	am	e:	Bunn	er					

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

1) Well Operator: North	east Natural Energy	494498281	Monongalia Clay	Blacksville, WV
A.O. Marketine		Operator ID	County Distri	ct Quadrangle
2) Operator's Well Numb	er: 3H	Well Pa	ad Name: Bunner	
3) Farm Name/Surface O	wner: Patricia A. Buni	ner Public Ro	oad Access: Upper Day	s Run Rd
4) Elevation, current grou	nd: 1,277' (as-built) E	levation, proposed	d post-construction: 1,2	277'
5) Well Type (a) Gas Other	X Oil _	Une	derground Storage	
(b)If Gas	Shallow X Horizontal X	Deep		_
6) Existing Pad: Yes or N	o No			
7) Proposed Target Forma Marcellus, 8,024', 104',		cipated Thickness	and Expected Pressure(Office OF OFFI	s): ÆD
8) Proposed Total Vertica	l Depth: 8,024'		SEP O	and Gas
9) Formation at Total Ver		s	Em W Dans	2022
10) Proposed Total Meass	ured Depth: 26,023'	1	Environmental Proj	of decisions
11) Proposed Horizontal I	Leg Length: 17,492'	7		-101)
12) Approximate Fresh W	ater Strata Depths:	1,150'		
13) Method to Determine	Fresh Water Depths:	Drillers Log from	Offset Wells	
14) Approximate Saltwate	er Depths: 1,359'			
15) Approximate Coal Se	am Depths: 865'			
16) Approximate Depth to	o Possible Void (coal n	nine, karst, other):	none	
17) Does Proposed well le directly overlying or adja			No X	
(a) If Yes, provide Mine	e Info: Name:			
Contract of the Contract of th	Depth:			
	Seam:			
	Owner:			

WW-6B	
(04/15)	

API NO. 47	
OPERATOR WELL	NO. 3H
Well Pad Name:	Bunner

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	24	New	NA	94.7	100'	100'	113/GTS
Fresh Water	13-3/8	New	J-55	54.5	1230'	1200'	961/CTS
Coal	To all						
Intermediate	9-5/8	New	J-55	36	2530'	2500'	864/CTS
Production	5-1/2	New	P-110	20	26,023'	25,993	6,281
Tubing	2-7/8	New	P-110	6.5	NA	8000	NA
Liners							

Kenneth Greynolds Sp. Col. = Paneth Greynold College Col. = College Co

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	24	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				*av Class I. ass	Office	950	

*or Class L cement with approval of variance request

PACKERS

		PACKERS	Environmental Protection
Kind:	NA		Gection,
Sizes:			
Depths Set:			

API NO. 47
OPERATOR WELL NO. 3H
Well Pad Name: Bunner

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 KOR. Bow springs

from KOP to surface every third joint.

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

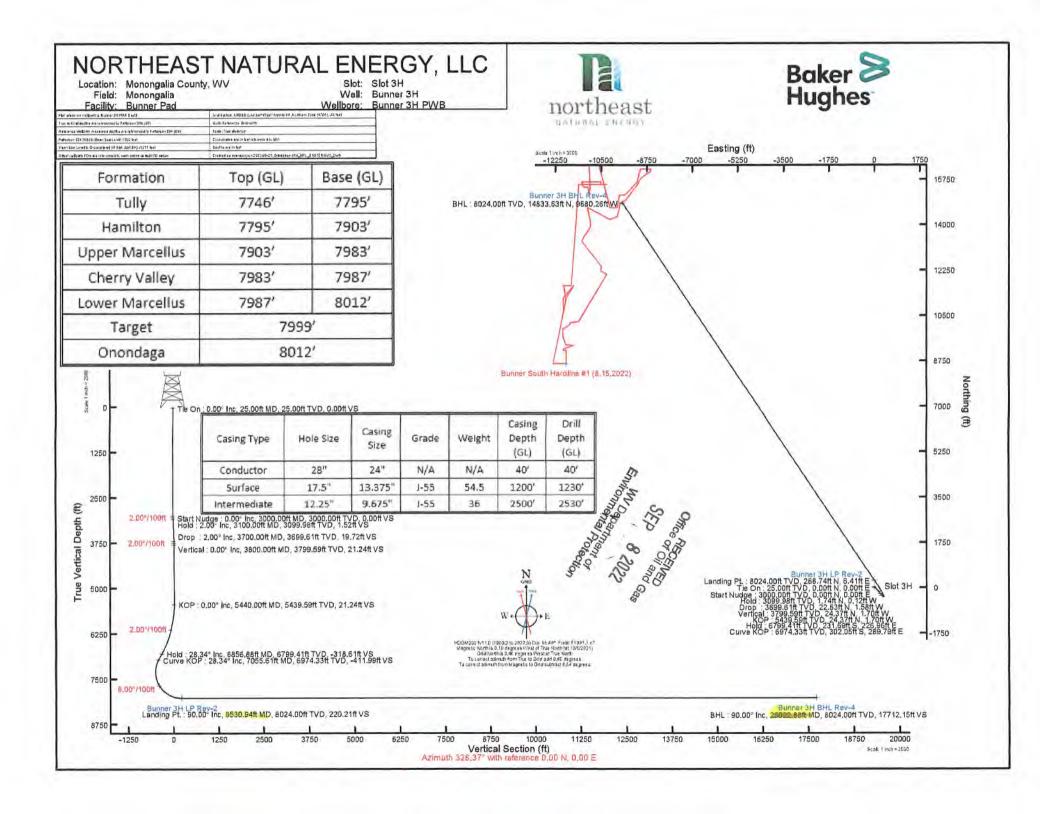
Surface string cement will be a Type 1 + Max 3% bwoc Calcium Chloride Fresh Water blend. Intermediate string cement will be a Type 1 Cement + Max 3% bwoc Calcium Chloride + Fresh Water. Production string cement will be (50:50) Poz (Fly Ash):Type I Cement with a gas migration additive.

25) Proposed borehole conditioning procedures:

Surface & intermediate on air will utilize high volumetric flow rates of air to ensure the wellbore is clean prior to TOH.

Production section will utilize synthetic oil based drilling mud to properly clean the wellbore. At TD, pump rate and rotation will be maximized and tripping will not begin until shakers flow clean. Production casing will be circulated prior to cementing to ensure a prepared wellbore for cement.

*Note: Attach additional sheets as needed.



Northeast Natural Energy LLC Mine Contingency Plan



Casing Schematic w/o Mine String

09/23/2022

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

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

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

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

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

Casing Schematic w/ Mine String

24" Conductor Set 10' Below 24" Conductor Set 10' Below Non-Compacted Soils Non-Compacted Soils 22" Hole Drilled to 50' Below 18-5/8" 87.5#/ft. J-55 BTC Set 30'-50' Below 17-1/2" Hote Drilled, 13-3/8" 54.5#/ ft. J-55 BTC/STC Set at Originally Permitted Depth 17-1/2" Hole Drilled, 13-3/8" 54.5#/ Cement-to-Surface ft. J-55 BTC/STC Set at Originally Permitted Depth Cement-to-Surface 12 1/4" Hole Drilled, 9-5/8" 40#/ft. J-55 8RD LTC Set at Originally Permitted 12 1/4" Hole Drilled, 9-5/8" 40#/ft, J-55 8RD LTC Set at Originally Permitted Cement-to-Surface Depth Cement-to-Surface 8 3/4" Dritted, 5-1/3" 20#/ft. P-110 BTC 8 3/4" Drilled, 5-1/2" 20#/ft. P-110 BTC Set at Originally Permitted Depth Set at Originally Permitted Depth Cemented Top Minimum 200' Inside of Cemented Top Minimum 200' Inside of Intermediate Casing Intermediate Casing Office of Oil and Can JUL 2 9 2022 11/11 - IC

API Number 47 -	
Ourseafoula Wa	II No Busines 201

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 Company Official (Typed Name) Hollie Medley
Southern's Street, (2) Parameters (2
Company Official Title Regulatory Manager SNV Experiment of Environmental Protection
12 +h
Subscribed and sworn before me this day of VULL , 20 NOTARY PUBLIC STATE OF WEST VIRGINIA Kristen Brooks Notary Public Notary Public Notary English Notary E
My commission expires Aug. 10, 2023 My Commission Expires Aug. 10, 2023 My Commission Expires Aug. 10, 2023 09/23/2022

Form WW-9	Operator's Well No	Bunner 3H
Northeast Natural Energy LLC		
Proposed Revegetation Treatment: Acres Disturbed 17.11	Prevegetation pH 5-7	
Lime 2 Tons/acre or to correct to p	он 7	
Fertilizer type _19-19-19		
Fertilizer amount 300	_lbs/acre	
Mulch 2 Ton:	is/acre	
_	eed Mixtures Permanent	
Temporary	4 40 1000	11 /
Seed Type lbs/acre Orchard Grass 46	Seed Type Orchard Grass	lbs/acre 46
Red Clover 8	Red Clover	8
Tetraploi Perennial Rye 16	Tetraploid Perennial Rye	16
Timothy 15 Annual Rye 15	Timothy 15 Annual Rye	15
Tetraploi Perennial Rye 16 Timothy 15 Annual Rye 15 Attach: Maps(s) of road, location, pit and proposed area for land approvided). If water from the pit will be land applied, include acreage, of the land application area.	Timothy 15 Annual Rye	15
Photocopied section of involved 7.5' topographic sheet.		
Distaty sinned by	Kenneth Graynolds	the things to
Kenneth Greynolds Notes Company agreed by: Kenneth Greynolds Opinion - Kenneth Greynolds Opinion - Kenneth Greynolds Opinion - Comment of Company and Comment of Com	Greynolds emal = Konneth L. v C = AD O = WYDEP OU = OE and Gas. 77.27.50-0400'	
Plan Approved by: Cate: 2022.07.20 1		

Date:

__)No

) Yes

Title:

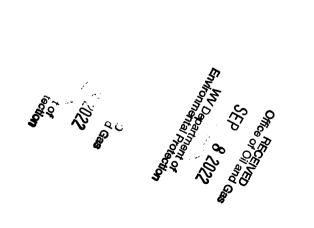
Field Reviewed?

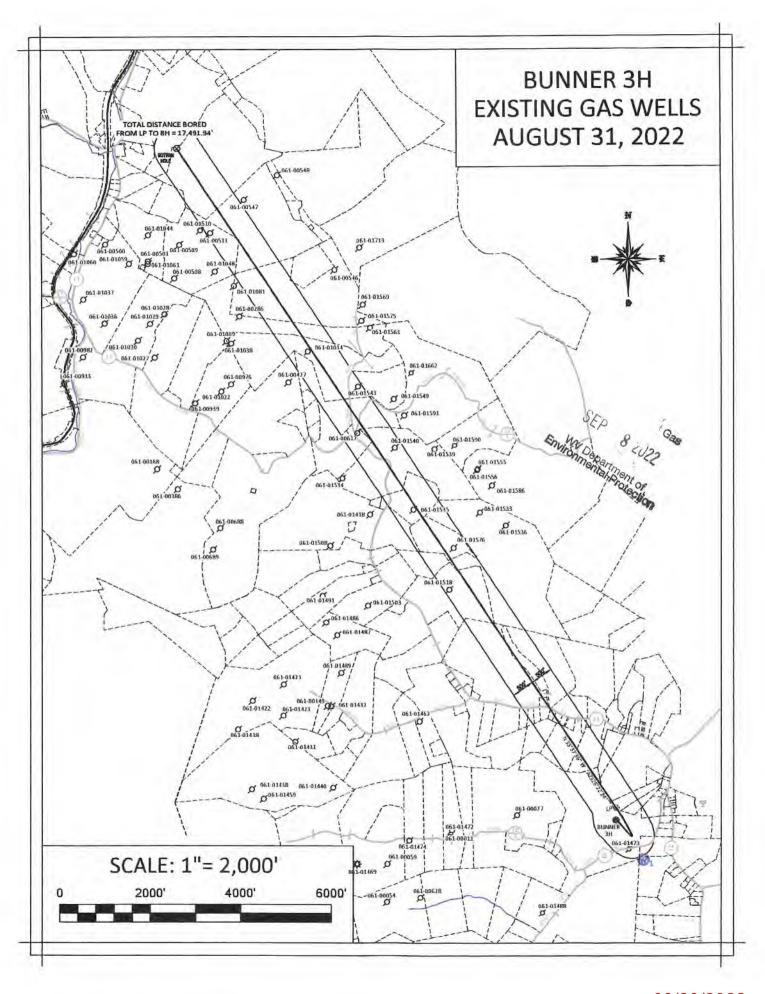
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JUL 2 9 2022

WV Department of Environmental Protection

	Bunner 3H Area of Review									
API Number	Well Name	Well Number	Operator	Latitude (NAD 83	Longitude (NAD 83)	TMP	TVD	Comments		
061-01473	Wm & Patricia Bunner	F2-510	Eastern Associated / Peabody Coal Company	39.660801	-80.216572	4-18-32	NA	Plugged 1/25/2005		
061-01518	Jacob R Moore	F2-537	Eastern Associated / Peabody Coal Company	39.676512	-80.230835	4-9-25	NA	Plugged - 8/10/06		
061-01535	Gary Yost	1	Eastern Associated / Peabody Coal Company	39.681152	-80.233463	4-9-17	3442'	Plugged - 2/28/07		
061-00617	Minor Snodgrass	1	Big Nine Oil Co., Inc. Clowser Production Co.,	39.685937	-80.238157	4-9-3.2	2440'			
061-01014	Denny Snyder	F2-47	Inc.	39.690867	-80.2421	4-8-5.1	NA	Plugged - 5/17/91		
061-00511	Gayle Lemley	F2-436	South Penn Oil (S. Penn Nat. Gas)	39.697564	-80.2498	1-6-17	NA	Plugged - 12/20/91		
061-01543	Sandra Bleigh	F2-46	Eastern Associated / Peabody Coal Company	39.688547	-80.23797	4-9-52	NA	Plugged - 4/16/07		
061-01540	J Todd Moore	F2-128	Eastern Associated / Peabody Coal Company	39.684922	-80.234966	4-9-3	NA	Plugged - 5/29/07		
061-01576	Charlie Chase	F2-43	Eastern Associated / Peabody Coal Company	39.678832	-80.230272	4-9-16	NA	Plugged - 8/21/08		







Bunner Pad Site Safety Plan

July 2022

Kenneth Greynolds

Obj. Cir. Kanneth Greynolds

Obj. Cir. Kanneth Greynolds

Greynolds

Obj. Cir. Kanneth Greynolds

Greynolds

Obj. Cir. Kanneth Greynolds

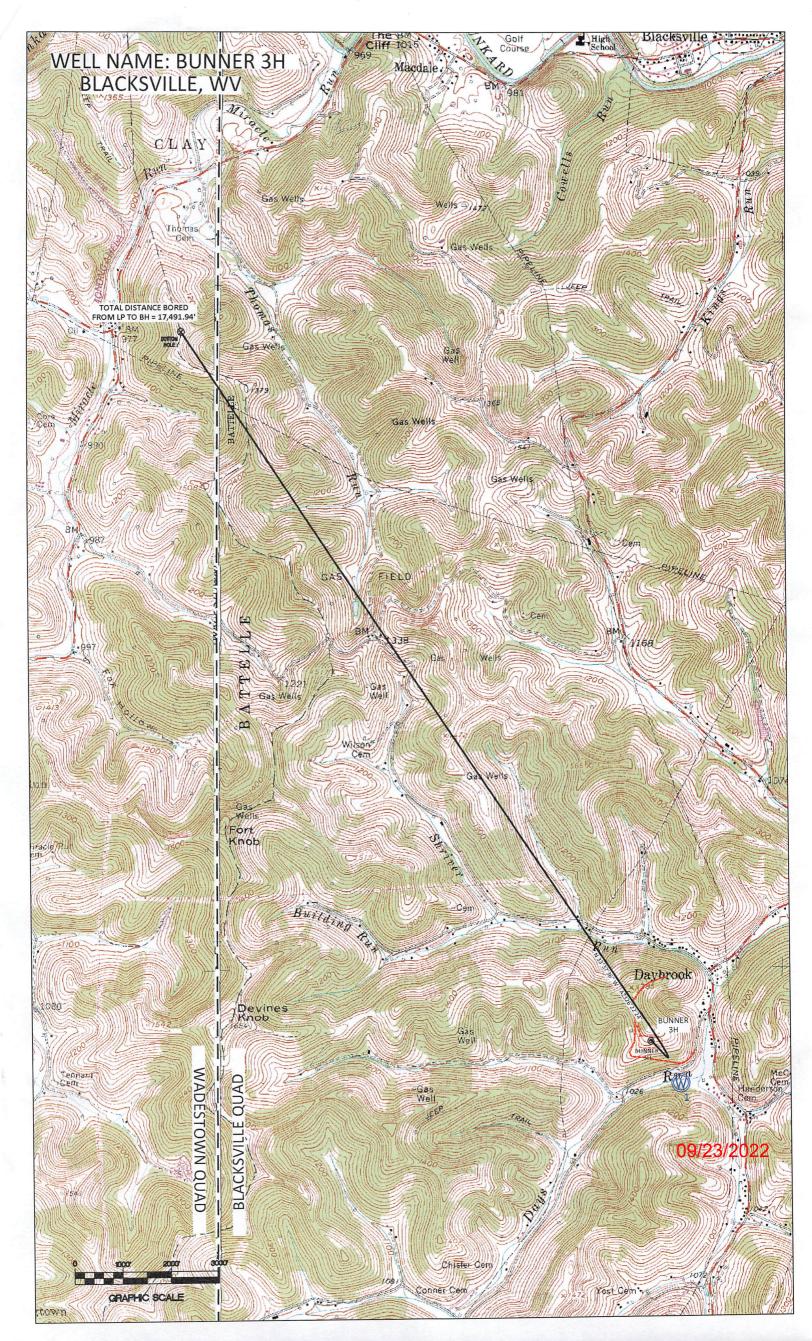
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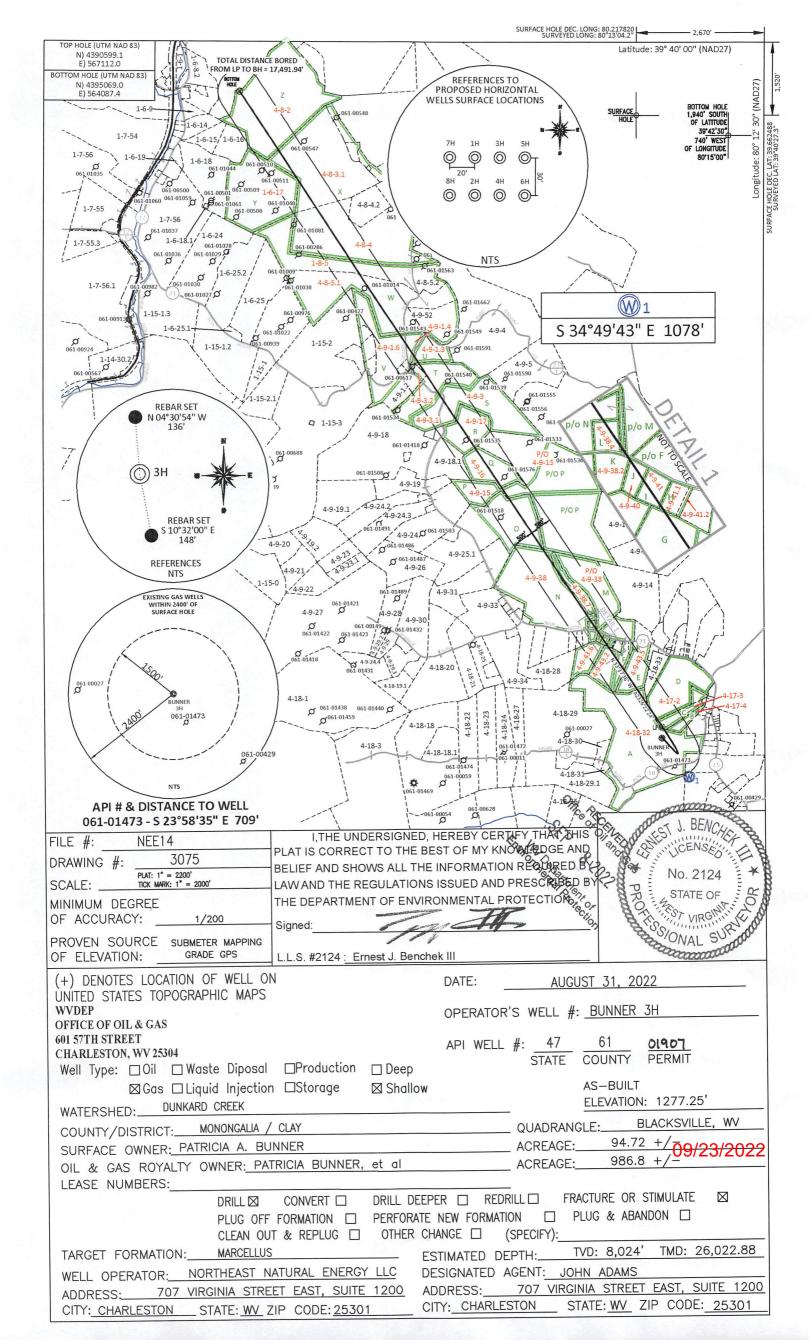
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WV Department of Environmental Protection

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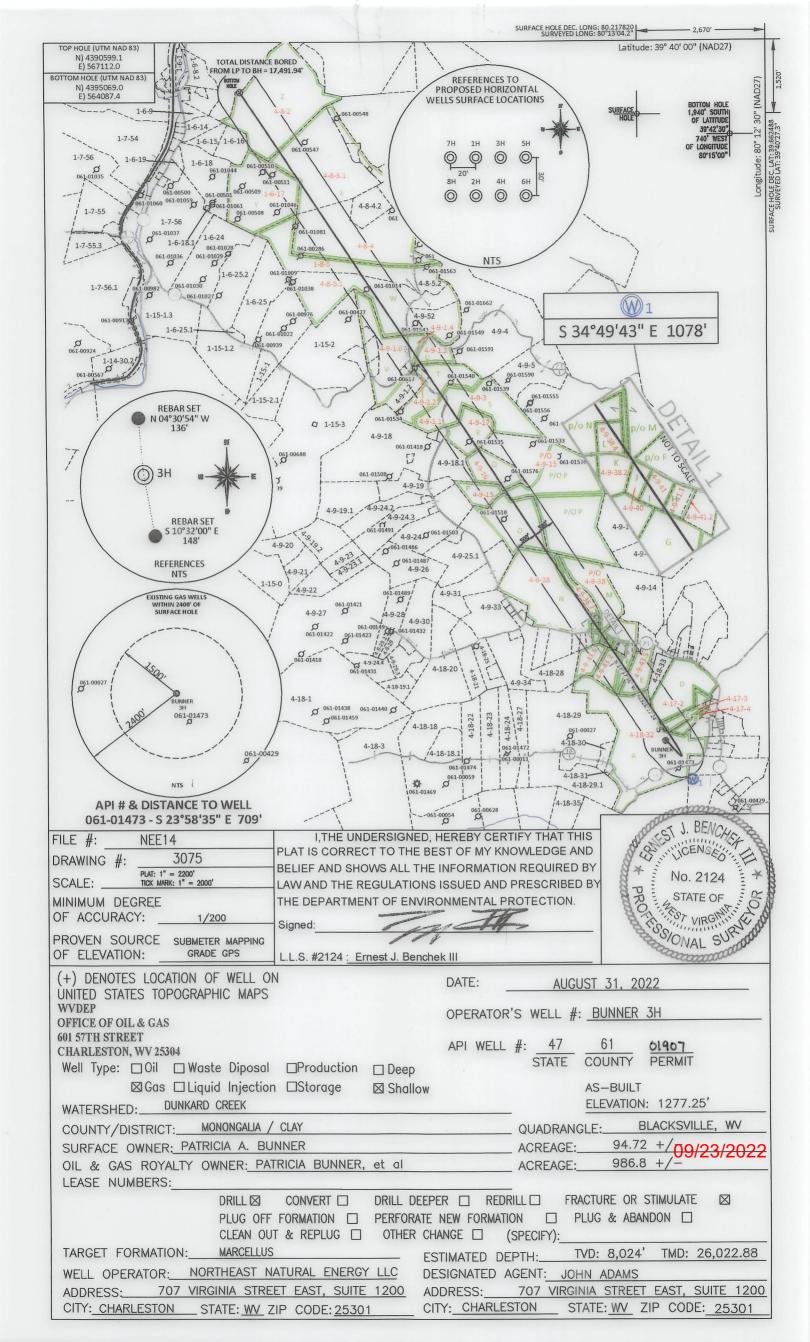


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09/23/2022

FILE #: NEE14	DATE: AUGUST 31, 2022
DRAWING #:	OPERATOR'S WELL #: BUNNER 3H
SCALE: N/A	API WELL #: 47 61 OI907 PERMIT



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В	WV-061-003731-000	8	WV-061-002693-003
C	WV-061-005711-001	P	WV-061-005813-001
D	WV-061-005711-001	Q	WV-061-000160-001-LA
E	WV-061-005884-003	R.	WV-061-006022-001
F	WV-061-005208-008	S	WV-061-086005-001
G	WV-061-002667-023	T	WV-061-003670-037
H	WV-061-004985-001	U	WV-061-005991-001
1	WV-061-004984-001	V	WV-061-005823-001
J	WV-061-005209-001	W	WV-061-006004-001
K	WV-061-005864-001	X	WV-061-000160-001-LA
L	WV-061-005864-001	Y	WV-061-000160-001-LA
M	WV-061-005864-001	Z	WV-061-005863-002

09/23/2022

FILE #: NEE14	DATE: <u>AUGUST 31, 2022</u>
DRAWING #:3075	OPERATOR'S WELL #: BUNNER 3H
SCALE:N/A	API WELL #: 47 61 OL907 PERMIT

WW-6A1 (5/13)

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

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

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

Lease 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.

Well Operator: Northeast Natural Energy LLC

By:

Hollie Medley

Its:

Regulatory Manager

Page 1 of _______

A B C D E	WV-061-004154-001 WV-061-003731-000 WV-061-005711-001	Patricla Bunner Daybrook Church of Christ	Northeast Natural Energy, LLC	12.5% or Greater	1563	435	18	32	390
C D		Daybrook Church of Christ							
D E	WV-061-005711-001		Northeast Natural Energy, LLC	12.5% or Greater	1541	816	17	4	1188
E		Angela L. Chister	EQT Production Company	12,5% or Greater	1576	416	17	3, 3.1	1175, 1176
E			EQT Production Company	Northeast Natural Energy, LLC	149	643			
	WV-061-005711-001	Angela L. Chisler	EQT Production Company	12.5% or Greater	1576	416	17	2	1174
			EQT Production Company	Northeast Natural Energy, LLC	149	643			
	WV-061-005884-003	Donny Lee Moore	Northeast Natural Energy, LLC	12,5% or Greater	1770	83	9	43,5	1117
E	WV-061-005884-001	Danny K. Moore	Northeast Natural Energy, LLC	12.5% or Greater	1770	79			
E	WV-061-005884-002	David W. Moore	Northeast Natural Energy, LLC	12.5% or Greater	1770	81			
E	WV-061-005884-004	Dale L. Moore	Northeast Natural Energy, LLC	12.5% or Greater	1770	85			
E	WV-061-005884-005	Diane Lynn Long	Northeast Natural Energy, LLC	12.5% or Greater	1770	87			
F	WV-061-005208-008	Victor R. Church	Northeast Natural Energy, LLC	.12.5% or Greater	1627	500	9	p/o 43.2, 43.4	11148, 111
F	WV-061-005208-003	Diane Lynn Long	Northeast Natural Energy, LLC	12.5% or Greater	1623	188			
F	WV-061-005208-005	Dale Lynn Moore	Northeast Natural Energy, LLC	12,5% or Greater	1623	142			
F	WV-061-005208-002	Danny Keith Moore	Northeast Natural Energy, LLC	12,5% or Greater	1623	186			
F	WV-061-005208-001	David Wayne Moore	Northeast Natural Energy, LLC	12.5% or Greater	1623	184			
F	WV-061-005208-004	Danny Lee Moore	Northeast Natural Energy, LLC	12,5% or Greater	1623	190			
F	WV-061-005208-007	Leslie Dale Moore	Northeast Natural Energy, LLC	12.5% or Greater	1627	54			
F	WV-061-005208-009	Rose Marie Moore	Northeast Natural Energy, LLC	12.5% or Greater	1627	502			
F	WV-061-005208-006	Nancy Louise Moore Walker	Northeast Natural Energy, LLC	12.5% or Greater	1627	52			
G	WV-061-002667-023	Jean-Clare Sims Bohm	Northeast Natural Energy, LLC	12.5% or Greater	1636	668	9	p/o 43.2	1114
G	WV-061-002667-031	Janet Coleman	Northeast Natural Energy, LLC	12.5% or Greater	1636	697			
G	WV-061-002667-044	Lisa Carol Cortes	Northeast Natural Energy, LLC	12.5% or Greater	1643	587			
G	WV-061-002667-048	Eva L. Ellis	Northeast Natural Energy, LLC	12.5% or Greater	1642	817			
G	WV-061-002667-045	Kim David Fritz	Northeast Natural Energy, LLC	12,5% or Greater	1643	178			
G	WV-061-002667-017	Connie Geissinger	Northeast Natural Energy, LLC	12.5% or Greater	1637	420			
G	WV-061-002667-019	Goldene B. Tennant - life estate	Northeast Natural Energy, LLC	12,5% or Greater	1637	424			
G	WV-061-002667-021	Jacquelyn M. Halbrook	Northeast Natural Energy, LLC	12.5% or Greater	1637	428			
G	WV-051-002667-020	Sherry L. Harrison	Northeast Natural Energy, LLC	12.5% or Greater	1637	426			
G	WV-061-002667-028	Barbara Huber	Northeast Natural Energy, LLC	12.5% or Greater	1636	691			
G	WV-061-002667-038	Lori Kirby	Northeast Natural Energy, LLC	12.5% or Greater	1640	297			
G	WV-061-002667-026	Carol A. Luckey	Northeast Natural Energy, LLC	12.5% or Greater	1636	687			
G	WV-061-002667-022	Donald R. Reynolds and Diane K. Reynolds	Northeast Natural Energy, LLC	12.5% or Greater	1637	430			
G	WV-061-002667-037	Carl E. Schuster	Northeast Natural Energy, LLC 5	12.5% or Greater	1638	490			
G	WV-061-002667-040	Joyce E. Sell	Northeast Natural Energy, LLC	12.5% or Greater	1640	301			
G	WV-061-002667-042	Daniel T. Sims	Northeast Natural Energy, LUS	12,5% or Greater	1641	306			
G	WV-061-002667-015	Jerry E. Sims	Northeast Natural Energy, LR O	125% or Greater	1635	347			
G	WV-061-002667-024	Philip J. Sims	Northeast Natural Energy,	5% or Greater	1636	683			
G	WV-061-002621-001	Robert M. Spragg Revovable Trust	Northeast Natural Energy	925% or Greater	1468	425			
G	WV-061-002667-027	Eddle Swartz	Northeast Natural Energy (1)	0.0.5% or Greater	1636	689			
G	WV-061-002667-043	D. Ray Tennant	Northeast Natural Energy, HC	5% or Greater	1641	308			
G	WV-061-002667-016	Ginger R. Tennant	Northeast Natural Energy, LLC	5 / 2.5% or Greater	1637	418			
G	WV-061-002667-036	Kent S. Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1638	488			
G	WV-061-002667-029	Leo Keith Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1636	693			
G	WV-061-002667-046	Marion Emrod Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1643	180			
G	WV-061-002667-049	Stephen A. Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1648	298			
G	WV-061-002667-047	Sue Tennant	Northeast Natural Energy, LLC	12.5% or Greater	1643	182			
G	WV-061-002667-039	David Watkins	Northeast Natural Energy, LLC	12.5% or Greater	1640	299			
G	WV-061-002667-018	Douglas D. Watkins	Northeast Natural Energy, LLC	12.5% or Greater	1637	422			
G	WV-061-002667-030	Gregory S. Watkins	Northeast Natural Energy, LLC	12.5% or Greater	1636	695			
G	WV-061-002667-025	JoAnn Watkins	Northeast Natural Energy, LLC	12.5% or Greater	1636	685			
G	WV-061-002667-030	Kevin I. Watkins	Northeast Natural Energy, LLC	12.5% or Greater	1636	695	14,1		
G	WV-061-002667-041	Robert D. Watkins	Northeast Natural Energy, LLC	12,5% or Greater	1641	304			
G	WV-061-002667-035 WV-061-004985-001	Judy E. Wilson	Northeast Natural Energy, LLC	12.5% or Greater	1638	486 252			

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page	Tax Map	Parcel	Index
1	WV-061-004984-001	Jerry W. Teter	Northeast Natural Energy, LLC	12.5% or Greater	1616	250	9	41, 41.2	1108, 1110
1	WV-061-005209-001	Carolyn Sue Luzader-Newhouse	Northeast Natural Energy, LLC	12,5% or Greater	1623	144	9	40	1107
K	WV-061-005864-001	Fortune Development, LLC	Northeast Natural Energy, LLC	12.5% or Greater	1768	797	9	38.1, 38.2, 38.3, 38.4, 38.5, 38.6, 38.7, 38.9	1097 et al
K	WV-061-005864-002	Donna Irene Pifer	Northeast Natural Energy, LLC	12.5% or Greater	1773	559			
Ļ	WV-061-005864-001	Fortune Development, LLC	Northeast Natural Energy, LLC	12.5% or Greater	1768	797	9	38.1, 38.2, 38.3, 38.4, 38.5, 38.6, 38.7, 38.9	1097 et al
L	WV-061-005864-002	Donna Irene Pifer	Northeast Natural Energy, LLC	12.5% or Greater	1773	559	-		
M	WV-061-005864-001	Fortune Development, LLC	Northeast Natural Energy, LLC	12.5% or Greater	1768	797	9	38	1095, 1096
	WV-061-005864-002	Donna Irene Pifer	Northeast Natural Energy, LLC	12.5% or Greater	1773	559			
N	WV-061-005864-001	Fortune Development, LLC	Northeast Natural Energy, LLC	12.5% or Greater	1768	797	9	.38	1095, 1096
N	WV-061-005864-002	Donna Irene Pifer	Northeast Natural Energy, LLC	12.5% or Greater	1773	559			
0	WV-061-002693-003	Deborah J. Moore	Northeast Natural Energy, LLC	12.5% or Greater	1781	655	9	p/o 25	1068
P	WV-061-005813-001	Heritage Resources - Marcellus Minerals LLC	Northeast Natural Energy, LLC	12.5% or Greater	1760	834	9	po 15	1050A
Q	WV-061-000160-001-LA	Charlie Chase II and Vicki M. Chase	EQT Production Company	12.5% or Greater	1508	673	9	16	1051
		EQT Production Company	Northeast Natural Energy, LLC		1775	42			
R	WV-061-006022-001	Shuman Inc.	Northeast Natural Energy, LLC	12,5% or Greater			9	p/o 17, p/o 18.1	1052A, 1055A
5	WV-061-086005-001	Kimeric and Company	Northeast Natural Energy, LLC	12.5% or Greater	1784	465	9	p/o 3, p/o 3.1	1079A, 1080A
т	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, 108 1082
T	WV-061-003670-024	Donna L. Huffman	Northeast Natural Energy, LLC	12.5% or Greater	1629	112	-	0,0	1001
T	WV-061-003670-012	Larry Hull	Northeast Natural Energy, LLC	12.5% or Greater	1614	383			
T	WV-061-003670-008	Donley E. Kisner	Northeast Natural Energy, LLC	12.5% or Greater	1611	654			
T	WV-061-003670-005	Vickie L. Kisner	Northeast Natural Energy, LLC	12.5% or Greater	1608	644			
T	WV-061-003670-042	Linda Moran	Northeast Natural Energy, LLC	12.5% or Greater	1635	534			
T	WV-061-003670-007	Lola E. May	Northeast Natural Energy, LLC	12.5% or Greater	1611	263			
T	WV-061-003670-009	Shirley J. Miller	Northeast Natural Energy, LLC	12.5% or Greater	1612	807			
T	WV-061-003670-043	Lea Ann Papesh	Northeast Natural Energy, LLC	12.5% or Greater	1635	536	-		
T	WV-061-003670-025	R. Bruce Rogers	Northeast Natural Energy, LLC	12,5% or Greater	1629	117			
T	WV-061-003670-044	Jason Sumner	Northeast Natural Energy, LLC	12.5% or Greater	1635	538	1		
T	WV-061-003670-059	Burl A. Tennant Jr.	Northeast Natural Energy, LLC	12.5% or Greater	1643	196			
T	WV-061-003670-010	Russel D. Walters	Northeast Natural Energy, LLC	12.5% or Greater	1612	809			
U	WV-061-005991-001	Sarah Bell et al	AL Lowrie and J.H. McDermott	*See Leasehold Chain Attached	125	486	9	1.3	1038
V	WV-061-005823-001	WV Minerals Inc.	Northeast Natural Energy, LLC	12,5% or Greater	1769	843	9	1, 1.1, p/o 1.2, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2	1035, 1036, 1037 al
W	WV-061-006004-001	William E. Snyder et al	CNG Producing Company	12.5% or Greater	" See Leasehold	Chain Attached	8;9	5, 5.1, 5.2; 52	1034, 1127 et a
×	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
Α.	WV-061-000160-001-LA	Three Rivers Royalty II LLC	Northeast Natural Energy, LLC EQT Production Company EQT Production Company	12.5% or Greater	1668	312			1723
		EQT Production Company	Northeast Natural Energy, LLC		1775	39			
Υ	WV-061-000160-001-LA	P&P Fujimo, LLC	EQT Production Company	12,5% or Greater	1599	617			
		EQT Production Company	Mortheast Newfal Energy, LLC		1775	39			
Z	WV-061-005863-002	Elizabeth Ann Reese	- Northeast Varural Energy, LLC	12,5% or Greater	1767	741	8	2	1763
	WV-061-005863-001	Kathy Lynn Snyder 20	Sporthesit Setural Energy, LLC	12.5% or Greater	1767	739	8	2	
	WV-061-005863-003	John M. Butcher Sr. Q	North Schlatural Energy, LLC	12.5% or Greater	1767	743	8	2	

T	Fract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
不	U		Sarah Bell et al	AL Lowrie and J.H. McDermott	12.5% or Greater	125	486
Г			AL Lowrie and J.H. McDermott	Hope Natural Gas Company		134	499
			Hope Natural Gas Company	AM Snider		597	62
Г			AM Snider	Duane M. Snider		9	325
			Duane M. Snider	Susanna Snider		58	300
Г			Peggy Williams, Successor of Susanna Snider	EBTB Corporation		106	245
Г			EBTB Corporation	Northeast Natural Energy, LLC		158	157



Tra	act	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
V	W	WV-061-006004-001	William E. Snyder et al	CNG Producing Company	12.5% or Greater	1029	314
			CNG Producing Company	Dominion Exploration & Production Company	WV Secretary of State Name	e change 5/	10/2000
			Dominion Exploration &	Antono Bossimos Annaloshian Companation		102	797
			Production Company	Antero Resources Appalachian Corporation		102	/9/
			Antero Resources	Nouthout National Engine LLC		150	94
			Appalachian Corporation	Northeast Natural Energy, LLC		158	94



Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
Х		Abraham Varner	Waynesburg Natural Gas Company	12.5% or Greater	40	21
		Waynesburg Natural Gas Company	The Manufactuers Light and Heat Company	PA Secretary of State	Merger	
		The Manufactuers 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 Stat	e Merger	
		PennzEnergy Exploration and Production LLC	Devon Energy Production Company, LLC	WV Secretary of Stat	e 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 Prodcution Company		132	166
		EQT Prodcution Company	Northeast Natural Energy, LLC		1775	39





July 26, 2022

WV Department of Environmental Protection Office of Oil and Gas Management 601 57th 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

Manager - Land Acquisitions

Charles Dornetto

RECEIVED Office of Oil and Gas

JUL 2 9 2022

WV Department of Environmental Protection WW-6AC (1/12)

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

Date of Notic	ce Certification: 07/27/2022		API No. 47				
			Operator's Well No. 3H				
		•	Well Pad Name: Bunner				
Notice has l	oeen given:						
Pursuant to th	e provisions in West Virginia Code	§ 22-6A, the Operator has provi	ided the req	juired parties w	ith the Notice Forms listed		
	tract of land as follows:						
State:	West Virginia		Easting:	567112.0			
County:	Monongalia		Northing:	4390599.1			
District:	Clay	Public Road Acce		Upper Days Run I	Rd./ CR 18		
Quadrangle:	Blacksville, WV	Generally used far	rm name:	Bunner			
Watershed:	Dunkard Creek						
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and seed the owners of the surface descriequired by subsections (b) and (c), so surface owner notice of entry to so of subsection (b), section sixteen ce § 22-6A-11(b), the applicant shall have been completed by the applicant	bed in subdivisions (1), (2) an ection sixteen of this article; (ii) arvey pursuant to subsection (a of this article were waived in tender proof of and certify to the	nd (4), subsomed that the real	section (b), sec quirement was ten of this artic the surface ow	tion ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice oner; and Pursuant to West		
that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the require		is Notice C	ertification	OOG OFFICE USE ONLY		
☐ 1. NO	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIR SEISMIC ACTIVITY WAS		P.	RECEIVED/		
■ 2. NO′	TICE OF ENTRY FOR PLAT SURV	VEY or D NO PLAT SURVE	Y WAS CO	ONDUCTED	□ RECEIVED		
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIR NOTICE OF ENTRY FOR P WAS CONDUCTED or		l.	RECEIVED/ NOT REQUIRED		
		☐ WRITTEN WAIVER B (PLEASE ATTACH)	Y SURFA	CE OWNER			
■ 4. NO	TICE OF PLANNED OPERATION	ا المارية	EIVED .		:RECEIVED		
■ 5. PUI	BLIC NOTICE	Office of C	ENED Hand Gas		□ RECEIVED		
■ 6. NO	TICE OF APPLICATION		9 2022	on	RECEIVED		
Deminol A	440 alam on tau	WV Dep Environmer	ital I				

Required Attachments:

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

Certification of Notice is hereby given:

above, to the re signature confir in this Notice	at as required under West Virginia Coc equired parties through personal service mation. I certify under penalty of law the Certification and all attachments, and	de § 22-6 e, by reg hat I hav I that bas n is true	6A, I have segistered mail repersonally sed on my i	the notice requirements within West Virginia Code § 22- erved the attached copies of the Notice Forms, identified or by any method of delivery that requires a receipt or examined and am familiar with the information submitted nquiry of those individuals immediately responsible for d complete. I am aware that there are significant penalties onment.
Well Operator:	Northeast Natural Energy, LLC		Address:	707 Virginia St, E, Suite 1200
By:	Hollie Medley			Charleston, WV 25301
Its:	Regulatory Manager		Facsimile:	304-241-5972
Telephone:	304-241-5752		Email:	
THE WEST	OFFICIAL SEAL NOT NOT WEST VIRGINIA Kristen Brooks Northeast Natural Energy LLC 48 Donley St., Suite 601 Morgantown, WV 26501 My Commission Expires Aug. 10, 2023	Subscr My Cc	ibed and swo	orn before me this 27th day of July, 2022. With Brooks Notary Public Rpires Aug. 10, 2023

Oil and Gas Privacy Notice:

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

Office of Land Gas

JUL 2 9 2022

Living and the control of Environmental Protection

API NO. 47-4706101907

OPERATOR WELL NO. 3H

Well Pad Name: Bunner

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 the	nan the filing date of permit application.
Date of Notice: 7/19/2022 Date Permit Application Filed: 7/2 Notice of:	9/2022
PERMIT FOR ANY CONSTRUCTION OF	PROVAL FOR THE AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-1	0(b)
	HOD OF DELIVERY THAT REQUIRES A EIPT OR SIGNATURE CONFIRMATION
registered mail or by any method of delivery that requires a receipt sediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be lo oil and gas leasehold being developed by the proposed well work, described in the erosion and sediment control plan submitted pursu operator or lessee, in the event the tract of land on which the well more coal seams; (4) The owners of record of the surface tract or twell work, if the surface tract is to be used for the placement, consimpoundment or pit as described in section nine of this article; (5) have a water well, spring or water supply source located within on provide water for consumption by humans or domestic animals; at proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the applic records of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is not	pit as required by this article shall deliver, by personal service or by a or signature confirmation, copies of the application, the erosion and the well plat to each of the following persons: (1) The owners of record of cated; (2) The owners of record of the surface tract or tracts overlying the if the surface tract is to be used for roads or other land disturbance as uant to subsection (c), section seven of this article; (3) The coal owner, proposed to be drilled is located [sic] is known to be underlain by one or racts overlying the oil and gas leasehold being developed by the proposed struction, enlargement, alteration, repair, removal or abandonment of any Any surface owner or water purveyor who is known to the applicant to be thousand five hundred feet of the center of the well pad which is used to ad (6) The operator of any natural gas storage field within which the ree tenants in common or other co-owners of interests described in ant may serve the documents required upon the person described in the neight, article one, chapter eleven-a of this code. (2) Notwithstanding any of notice to a landowner, unless the lien holder is the landowner. W. Va. provide the Well Site Safety Plan ("WSSP") to the surface owner and any g as provided in section 15 of this rule.
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice	ee Well Plat Notice is hereby provided to:
☑ SURFACE & COAL OWNER Name: Patricia A Bunner Address: 15 Devine Road Fairview, WV 26570	☐ COAL OWNER Name: Phoenix Energy Resources, LLC Address: 863 Quail Valley Drive Princeton, WV 24740
Name: Address:	☐ COAL OWNER Name: Consol Mining Company Address: 1000 Consol Energy Drive
☐ SURFACE OWNER(s) (Road and/or Other Disturbance) Name: Address:	Canonsburg, PA 15317 SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name: Roger & Joyce Williams Trust
Name: Address:	Address: 2318 Daybrook Rd
	Fairview, WV 26570
SURFACE OWNER(s) (Impoundments or Pits) Name: Address:	Pairview, WV 26570 OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: Address:

API NO. 47-	7	Ō	6	1	0	1	9	0	7
OPERATOR W	EL	L	NO.	31	1				
Well Pad Name	: E	Bunn	er						

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

API NO. 47	
OPERATOR WELL NO. 3	3H
Well Pad Name: Bunner	

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

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

JUL 2 9 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.

API NO. 47OPERATOR WELL NO. 3H
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.

JUL 2 9 2022

(SVV Expanding of Environmental Protection

Telephone:

Email:

API NO. 47-OPERATOR WELL NO. 3H Well Pad Name: Bunner Address: 707 Virginia St. E, Suite 1200 Charleston, WV 25301

304-241-5752

Notice is hereby given by: Well Operator: Northeast Natural Energy LLC

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.

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

Subscribed and sworn before me this 19+ day of July, 2022.

Known Bhooles

Notary Public

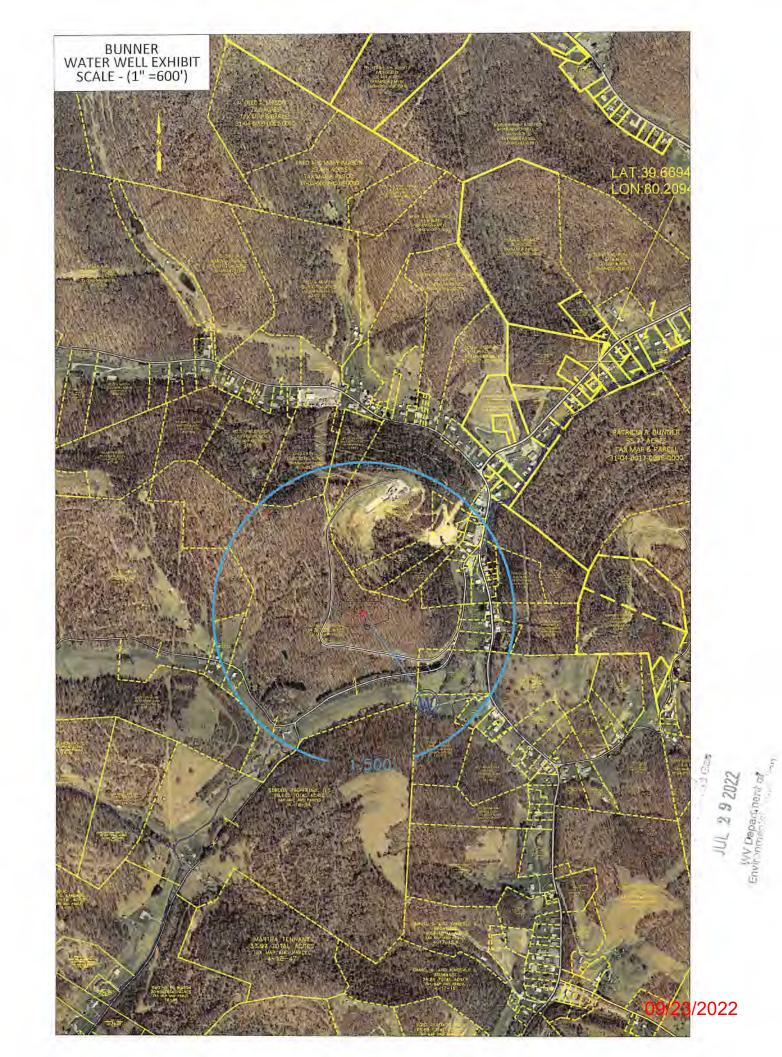
My Commission Expires Aug. 10, 2023

Facsimile: 304-241-5972

RECEVED Office of Chand Gas

JUL 2 9 2022

WV Department of Environmental Protection



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

	ce: 7/25/2019 Date of Pla	ancu Entry.	, AND THE STREET, STRE				
Delivery met	thod pursuant to West Virginia C	ode § 22-6A	-10a				
☐ PERSO	NAL REGISTERED	□ ме	THOD OF DELIVERY THAT RE	QUIRES A			
SERVIC	CE MAIL	REC	CEIPT OR SIGNATURE CONFIR	MATION			
on to the surficult no more to be neath such bewer of min and Sediment Secretary, when able the sur	han forty-five days prior to such en tract that has filed a declaration pur erals underlying such tract in the co t Control Manual and the statutes ar tich statement shall include contact rface owner to obtain copies from the	s required putry to: (1) The resuant to sect ounty tax record rules relate information,	rsuant to this article. Such notice so the surface owner of such tract; (2) tion thirty-six, article six, chapter the ords. The notice shall include a stated to oil and gas exploration and p	shall provide notice of planned entry shall be provided at least seven days to any owner or lessee of coal seams wenty-two of this code; and (3) any attement that copies of the state Erosion roduction may be obtained from the age on the Secretary's web site, to			
Votice is her	eby provided to:						
SURFAC	CE OWNER(s)	1	☐ COAL OWNER OR LE	SSEE			
Name: Patri	cia A Bunner	_/	Name:				
ddress: 15 D	Devine Rd	/	Address:				
Fain	view, WV 26570		-				
Vame:		_	MINIED AL OWNIED(s)				
			☐ MINERAL OWNER(s)				
			Name:Address:				
Address:		-	Audiess.				
		_	*please attach additional forms if ne	cessary			
Pursuant to V	ereby given: Vest Virginia Code § 22-6A-10(a), on the tract of land as follows: Wast Virginia Monongalia Clay		by given that the undersigned wel Approx. Latitude & Longitude: Public Road Access: Watershed;	Dunkard Creek CR 25/2 Dunkard Creek			
County:							
County: District:			Generally used farm name:	Bunner			
County: District: Quadrangle: Copies of the may be obtain Charleston, V	Blacksville state Erosion and Sediment Control and from the Secretary, at the WV	ol Manual and Department of s of such doc	d the statutes and rules related to o of Environmental Protection headq numents or additional information i	il and gas exploration and production uarters, located at 601 57 th Street, SE, related to horizontal drilling may be			
County: District: Quadrangle: Copies of the may be obtain Charleston, V obtained from	e state Erosion and Sediment Control ned from the Secretary, at the WV 25304 (304-926-0450). Copies the Secretary by visiting www.deereby given by:	ol Manual and Department of s of such doc	d the statutes and rules related to o of Environmental Protection headq numents or additional information i	il and gas exploration and production uarters, located at 601 57 th Street, SE, related to horizontal drilling may be			
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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

entry		Notice shall be prov			ys but no more that	FORTY-FT	VE (45) days	s prior to
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SERVI	CE	MAIL	REC	CEIPT OR SIGN	NATURE CONFIR	MATION		
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obtained fro	m the Secretary	by visiting <u>www.de</u>	.wv.gov/oil	-and-gas/pages/	derault.aspx.			
	ereby given by	y:					GIS.	ECENTO COLLUMBES
Well Operat	Ol: Northeast Natur	al Energy LLC		Address:	707 Virginia St. E, Suite	1200	Sitto:	yr 320 5-74 William
Telephone: Email:	304-241-5752			Faccimile	Charleston, WV 25301		JUL	2 9 2022
Eman;				Facsimile:	7		36446	
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Oil and Gas Privacy Notice:

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

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

	e Requirement:	Notice shall be prov	ided at least SEVEN (7) d	ays but no more than	1 FORTY-FF	VE (45) day	s prior to
Date of Not	ice: 7/25/2019	Date of Plan	nned Entry: 8/5/2019				
Delivery m	ethod pursuant	to West Virginia Co	ode § 22-6A-10a				
☐ PERSO	ONAL I	REGISTERED	☐ METHOD OF DE	LIVERY THAT RE	OUIRES A		
SERVI	- 19,000	MAIL		NATURE CONFIR			
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	gela L Chisler		Name: _				
	3 Blue Goose Rd alrview, WV 26570		_ Address:	-			
Name:							
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Pursuant to	y on the tract of West Virginia	code § 22-6A-10(a), r. land as follows:	Public Road	itude & Longitude:	Dunkard Creek	lanning entr	ry to conduct
District:			Watershed:		Dunkard Creek		
Quadrangle	: Blacksville		Generally u	sed farm name:	Bunner		
may be obtained from Notice is I Well Opera	ained from the S WV 25304 (30- om the Secretary hereby given b tor: Northeast Nature	ecretary, at the WV I 4-926-0450). Copies by visiting <u>www.der</u> y:	I Manual and the statutes a Department of Environment of such documents or add o.wv.gov/oil-and-gas/pages	tal Protection headq itional information r	uarters, locate related to horiz	ed at 601 57' zontal drillin	"Street, SE,
Telephone:	304-241-5752			Charleston, WV 25301		302	- Early Earle
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						EUVIGUUN	ental Protection

Oil and Gas Privacy Notice:

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Operator	Well No.	3H	

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 I Date of Notic		ded at least TEN (10) days prior to filing a re Permit Application Filed: 07/29/2022	permit application.
Delivery meth	hod pursuant to West Virginia Coo	de § 22-6A-16(b)	
T (003±02			
☐ HAND	☐ CERTIFIED MAIL		
DELIVE	RY RETURN RECEIPT	REQUESTED	
receipt request drilling a hori: of this subsect subsection ma and if availabl	ted or hand delivery, give the surface zontal well: <i>Provided</i> , That notice gation as of the date the notice was protected by the surfact the facsimile number and electronic necessity.	en days prior to filing a permit application, e owner notice of its intent to enter upon the given pursuant to subsection (a), section to evided to the surface owner: <i>Provided, how</i> be owner. The notice, if required, shall included address of the operator and the operator.	ne surface owner's land for the purpose of en of this article satisfies the requirements ovever, That the notice requirements of this ude the name, address, telephone number, or's authorized representative.
	reby provided to the SURFACE	Name:	Office IV DIVERSE
Address: 15 De		Address:	JUL 2 9 2022
Fairvi	iew, WV 26570		201 5 9 7077
Pursuant to W	lest Virginia Code § 22-6A-16(b), n	otice is hereby given that the undersigned	well operator has an intent to enter upon
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the surface ow State: County:	vner's land for the purpose of drilling West Virginia Monongalia	g a horizontal well on the tract of land as for UTM NAD 83 Easting: Northing:	llows:
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Oil and Gas Privacy Notice:

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

WW-6A5 (1/12)

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

Notice Time R Date of Notice	Requirement: notice shall be pro-	vided no later t rmit Applicat			application.
Delivery meth	od pursuant to West Virginia (Code § 22-6A-	16(c)		
CERTIFI	IED MAIL	☐ HAN	D		
	N RECEIPT REQUESTED		VERY		
return receipt r the planned op required to be p drilling of a ho damages to the	requested or hand delivery, give to peration. The notice required by provided by subsection (b), section prizontal well; and (3) A propose surface affected by oil and gas of	he surface own this subsection ten of this a ed surface use perations to th	ner whose land on shall inclu rticle to a surf and compen- e extent the de	I will be used for de: (1) A copy ace owner whose sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the address	by provided to the SURFACE of listed in the records of the sherif		notice); Name:		
Address: 15 Dev		_	Addres	s;	
The second secon	ew, WV 26570		1.5.7.7.		
State: County: District:	he surface owner's land for the p West Virginia Monongalia Clay	urpose of drilli	UTM NAD 8	Easting: Northing: Access:	567112.0 4390599.1 Upper Days Run Rd/ CR 18
	Blacksville, WV Dunkard Creek	-	Generally us	ed farm name:	Bunner
to be provided horizontal well surface affecte information re	est Virginia Code § 22-6A-16(c). If by W. Va. Code § 22-6A-10(b); and (3) A proposed surface used by oil and gas operations to the lated to horizontal drilling may located at 601 57th Street, SE,	to a surface and compens ne extent the d be obtained fr	owner whose ation agreemed lamages are come the Secre	e land will be un nt containing ar compensable und cary, at the WV	code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Well Operator:	. N		Address:	707 (100) 01 5 0	- N. A000
Telephone:	Northeast Natural Energy LLC 304-414-7060		Audiess.	707 Virginia St. E.S. Charleston, WV 253	
Email:	22.11.11.12.2		Facsimile:	Silving Suntil, 41 v Ede	
	rivacy Notice;	nal informatio		ne address and t	telephone number, as part of our regulatory

duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact

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

Office of Oll and Gas

JUL 2 9 2022



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

D. Alan Reed, P.E. State Highway Engineer 1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

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 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Bunner Pad, Monongalia County Bunner 3H 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

Office of the office

JUL 2 9 2022

WV Department of Environmental Protection

Planned Additives To Be Used In Fracturing Stimulations

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

JUL 2 9 2022

WV 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, LLC 707 VIRGINIA STREET EAST, SUITE1200. CHARLESTON, WV 25301

WETZEL A

CAL- GILMER

CLAY

MERCER

BRAXTON

NICHOLAS

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

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.

PLANS PREPARED BY:

BOORD BENCHEK & ASSOC., INC.

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



ANDREW BENCHEK

DATE

TOTAL PROJECT AREA: 16.97 AC.

WYDEP DOG ACCEPTED AS-BUILT H9H 9/7/2022

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.

O. DATE

* PROJECT LOCATION

TUCKER

RANDOLPH

FOCAHONTA

BUNNER WELL PAD AS-BUILT

BUNNER WELL PAD CLAY DISTRICT, MONONGALIA COUNTY, WV SHEET

COORDINATES

(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"

OF 11

