



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, January 5, 2026
WELL WORK PERMIT
Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC
5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for GUM 1217 N-4H
47-041-05782-00-00

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.

H. Jason Harmon
Acting Chief

Operator's Well Number: GUM 1217 N-4H
Farm Name: GARNETT A. GUM
U.S. WELL NUMBER: 47-041-05782-00-00
Horizontal 6A New Drill
Date Issued: 1/5/2026

Promoting a healthy environment.

01/09/2026

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. 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. Also, 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.

01/09/2026

WW-6B
(04/15)

RECEIVED
Office of Oil and Gas

DEC 01 2025

WV Department of
Environmental Protection

API NO. 47- 4704105782

OPERATOR WELL NO. Gum 1217 N-4H

Well Pad Name: Gum 1217

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

1) Well Operator: HG Energy II Appalachia, LLC 494519932 Lewis Freeman Camden 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Gum 1217 N-4H Well Pad Name: Gum 1217

3) Farm Name/Surface Owner: HG Energy II Appalachia, LLC Public Road Access: CR 10 @ SR 16

4) Elevation, current ground: 1180' Elevation, proposed post-construction: 1162'

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

Other _____

(b) If Gas Shallow x Deep _____

Horizontal x

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus at 6870' / 6934' and 64' in thickness. Anticipated pressure at 4314#.

8) Proposed Total Vertical Depth: 6,900'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 30,578'

11) Proposed Horizontal Leg Length: 23,053'

12) Approximate Fresh Water Strata Depths: 214', 600', 861', 1132'

13) Method to Determine Fresh Water Depths: Nearest offset well data, (47-041-04767, 5758)

14) Approximate Saltwater Depths: 1372, 1605' (Vanek 1215, 47-041-05062)

15) Approximate Coal Seam Depths: 704', 865', 1214', 1285' (Surface casing is being extended to cover the coal in the DTI Field)

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 X

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

Depth: _____

Seam: _____

Owner: _____

WW-6B
(04/15)

DEC 01 2025

WV Department of
Environmental Protection

API NO. 47-

OPERATOR WELL NO. Gum 1217 N-4H

Well Pad Name: Gum 1217

4704105782

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120'	Drilled In
Fresh Water/Coal	20"	NEW	J-55	94	1150'	1150'	40% Excess, CTS
Intermediate 1	13 3/8"	NEW	J-55 BTC	68	2260'	2260'	40% Excess, CTS
Intermediate 2	9 5/8"	NEW	N/L-80 BTC	40	7100'	7100'	40% Excess Tail, CTS
Production	5 1/2"	NEW	P-110 HP	23	30578'	30578'	20% Excess Tail, CTS
Tubing							
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: 2025.11.17 10:54:05 -05'00'

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	26"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate 1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Lead 40% excess, Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	5750		Type 1/Class A	Lead 40% excess, Tail 0% Excess
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/Class A	20% excess yield = 1.19, tail yield = 1.92
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

WW-6B
(10/14)

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Office of Oil and Gas

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WV Department of
Environmental Protection

4704105782
API NO. 47- -
OPERATOR WELL NO. Gum 1217 N-4H
Well Pad Name: Gum 1217

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

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 6900'. Drill horizontal leg to estimated 23,053' lateral length, 30,578' TMD. Hydraulically fracture, stimulate and be capable of producing from the Marcellus Formation. Should we encounter an unanticipated void in the coal, we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface. We plan to run an ACP above the Gantz/Dominion Storage interval to aid in sealing off and isolating the storage interval.

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

The stimulation will be completed with multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Slickwater fracturing technique will be utilized on each stage using sand, water, and chemicals. See attached list. Maximum pressure not to exceed 12,500 psi.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 30.31 acres

22) Area to be disturbed for well pad only, less access road (acres): 9.74 acres

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing.

Freshwater/Coal - centralized every 3 joints to surface.

Intermediate 1 - Bow Spring on every joint, will also be running ACP for isolating storage zone.

Intermediate 2 - Bow Spring on first 2 joints then every third joint to 100' from surface.

Production - Vertical - Run 1 spiral centralizer every 5 joints from the top of the curve to surface. Curve - Run 1 spiral centralizer every 3 joints from the 1st 5.5" long joint to the top of the curve.

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

Conductor - N/A. Casing to be drilled in w/ Dual Rotary Rig.

Fresh Water/Coal - 15.6 ppg PNE-1 + 3% bwoc CaCl40% ExcessYield=1.20 / CTS"

Intermediate 1 - **** Storage String **** CTS ****15.4 ppg Lead - Yield 1.24 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)B348 - 0.5% BWOB Fluid Loss / D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / sack VBWOB Anti Foam / D202 - 0.15% BWOB Dispersant / D095 1.5 lb per BBL CemNET* - 60% Excess15.9 ppg Tail - Yield 1.17 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)B160A - 0.15% BWOB Dispersant / B547 - 0.35% BWOB GasBLOK* / D013 - 0.3% BWOB Retarder / D047 - 0.02 gal / sack Anti Foam / D801 - 0.03 gal / sack Retarder - 0% Excess"

Intermediate 2 - "Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS"

Production - "Lead: 14.5 ppg POZ-PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA17020% ExcessLead Yield=1.19Tail Yield=1.94CTS"

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD.

Fresh Water/Coal - Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.

Intermediate 1 - Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.

Intermediate 2 - Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.

Production - Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.

*Note: Attach additional sheets as needed.

PROPOSAL TO DRILL WITHIN BHE GAS TRANSMISSION & STORAGE FIELD

FIELD/ZONES: BHE - FINK/KENNEDY/LOST CREEK -GANTZ SAND

WELL NAME: Gum 1217 N-4H

Well # Gum 1217 N-4H

RECEIVED
Office of Oil and Gas

DEC 01 2025

WV Department of
Environmental Protection

DISTRICT/COUNTY/STATE: Freemans Creek/ Lewis / WV


Submitted


JOSH HINTON
HG ENERGY II Appalachia, LLC

DATE

12/17/2024

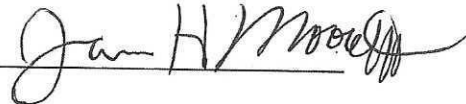
Approved


MATTHEW GORALCZYK
BHE GT&S

DATE

12/17/2024

Approved



BHE GT&S

DATE

12/17/2024

Comments:

HG Energy II Appalachia, LLC, has submitted this Casing & Cementing diagram and Drilling Plan to Berkshire Hathaway Energy for review. This signed document acknowledges that BHE has reviewed the proposed casing program and the well's location within the Fink/Kennedy/Lost Creek storage field. This acknowledgement also confirms the proposed casing program is accurate to the proper storage zone as provided by HG Energy II Appalachia, LLC

HG Energy II Appalachia, LLC
Gum 1217 Well Pad (N-1H to S-7H)
Cement AdditivesDEC 01 2025
WV Department of
Environmental Protection

Material Name	Material Type	Material Description	CAS #																		
Premium NE-1	Portland Cement	Premium NE-1 is a portland cement with early compressive strength properties.	<table><tr><th>Ingredient name</th><th>%</th><th>CAS number</th></tr><tr><td>Portland cement</td><td>90 - 100</td><td>65997-15-1</td></tr><tr><td>Calcium oxide</td><td>1 - 5</td><td>1305-78-8</td></tr><tr><td>Magnesium oxide</td><td>1 - 5</td><td>1309-48-4</td></tr><tr><td>Crystalline silica: Quartz (SiO2)</td><td>0.1 - 1</td><td>14808-60-7</td></tr></table>	Ingredient name	%	CAS number	Portland cement	90 - 100	65997-15-1	Calcium oxide	1 - 5	1305-78-8	Magnesium oxide	1 - 5	1309-48-4	Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7			
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Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7																			
Bentonite	Extender	Commonly called gel, it is a clay material used as a cement extender and to control excessive free water.	<table><tr><th>Ingredient name</th><th>%</th><th>CAS number</th></tr><tr><td>bentonite</td><td>90 - 100</td><td>1302-78-9</td></tr><tr><td>Crystalline silica: Quartz (SiO2)</td><td>5 - 10</td><td>14808-60-7</td></tr></table>	Ingredient name	%	CAS number	bentonite	90 - 100	1302-78-9	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7									
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			bentonite	90 - 100	1302-78-9																
			Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7																
Calcium Chloride	Accelerator	A powdered, flaked or pelletized material used to decrease thickening time and increase the rate of strength development	<table><tr><th>Ingredient name</th><th>%</th><th>CAS number</th></tr><tr><td>Calcium chloride</td><td>90 - 100</td><td>10043-52-4</td></tr></table>	Ingredient name	%	CAS number	Calcium chloride	90 - 100	10043-52-4												
			Ingredient name	%	CAS number																
			Calcium chloride	90 - 100	10043-52-4																
			Cello Flake	Lost Circulation	Graded (3/8 to 3/4 inch) cellophane flakes used as a lost circulation material.	<table><tr><th>Ingredient name</th><th>%</th><th>CAS number</th></tr><tr><td>No hazardous ingredient</td><td></td><td></td></tr></table>	Ingredient name	%	CAS number	No hazardous ingredient											
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FP-13L	Foam Preventer	FP-13L is a clear liquid organic phosphate antifoaming agent used in cementing operations. It is very effective minimizing air entrapment and preventing foaming tendencies of latex systems.				<table><tr><th>Ingredient name</th><th>%</th><th>CAS number</th></tr><tr><td>Tributyl phosphate</td><td>90 - 100</td><td>126-73-8</td></tr></table>	Ingredient name	%	CAS number	Tributyl phosphate	90 - 100	126-73-8									
			Ingredient name	%	CAS number																
			Tributyl phosphate	90 - 100	126-73-8																
			Granulated Sugar	Retarder	Used to retard cement returns at surface. A proprietary product that provides expansive properties and improves bonding at low to moderate temperatures.	<table><tr><th>Ingredient name</th><th>%</th><th>CAS number</th></tr><tr><td>Sucrose</td><td>90 - 100</td><td>57-50-1</td></tr></table>	Ingredient name	%	CAS number	Sucrose	90 - 100	57-50-1									
Ingredient name	%	CAS number																			
Sucrose	90 - 100	57-50-1																			
EC-1		Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration.				<table><tr><th>Ingredient name</th><th>%</th><th>CAS number</th></tr><tr><td>Calcium magnesium oxide</td><td>90 - 100</td><td>37247-91-9</td></tr></table>	Ingredient name	%	CAS number	Calcium magnesium oxide	90 - 100	37247-91-9									
			Ingredient name	%	CAS number																
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			MPA-170	Gas Migration	A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.	<table><tr><th>Ingredient name</th><th>%</th><th>CAS number</th></tr><tr><td>No hazardous ingredient</td><td></td><td></td></tr></table>	Ingredient name	%	CAS number	No hazardous ingredient											
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Poz (Fly Ash)	Base	A low temperature retarder used in a wide range of slurry formulations to extend the slurry thickening time.				<table><tr><th>Ingredient name</th><th>%</th><th>CAS number</th></tr><tr><td>Crystalline silica: Quartz (SiO2)</td><td>5 - 10</td><td>14808-60-7</td></tr><tr><td>Calcium oxide</td><td>1 - 5</td><td>1305-78-8</td></tr></table>	Ingredient name	%	CAS number	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7	Calcium oxide	1 - 5	1305-78-8						
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			Calcium oxide	1 - 5	1305-78-8																
R-3	Retarder	Used to water wet casing and formation to facilitate cement bonding.	<table><tr><th>Ingredient name</th><th>%</th><th>CAS number</th></tr><tr><td>Organic acid salt</td><td>40 - 50</td><td>Trade secret.</td></tr></table>	Ingredient name	%	CAS number	Organic acid salt	40 - 50	Trade secret.												
			Ingredient name	%	CAS number																
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			S-5	Surfactant		<table><tr><th>Ingredient name</th><th>%</th><th>CAS number</th></tr><tr><td>2-Butoxyethanol</td><td>20 - 30</td><td>111-76-2</td></tr><tr><td>Proprietary surfactant</td><td>10 - 20</td><td>Trade secret.</td></tr><tr><td>D-Glucopyranose, oligomeric, C10-16-alkyl glycosides</td><td>5 - 10</td><td>110615-47-9</td></tr><tr><td>Alkylarylsulfonate amine salt</td><td>1 - 5</td><td>Trade secret.</td></tr><tr><td>Polyoxyalkylenes</td><td>0.1 - 1</td><td>Trade secret.</td></tr></table>	Ingredient name	%	CAS number	2-Butoxyethanol	20 - 30	111-76-2	Proprietary surfactant	10 - 20	Trade secret.	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	5 - 10	110615-47-9	Alkylarylsulfonate amine salt	1 - 5	Trade secret.
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Alkylarylsulfonate amine salt	1 - 5	Trade secret.																			
Polyoxyalkylenes	0.1 - 1	Trade secret.																			

01/09/2026

*** Storage String *** CTS ***

15.4 ppg Lead - Yield 1.24 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)
 B348 - 0.5% BWOB Fluid Loss / D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / sack VBWOB Anti Foam / D202 - 0.15% BWOB
 Dispersant / D095 1.5 lb per BBL CemNET* - 60% Excess
 15.9 ppg Tail - Yield 1.17 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)
 B160A - 0.15% BWOB Dispersant / B547 - 0.35% BWOB GasBLOK* / D013 - 0.3% BWOB Retarder / D047 - 0.02 gal / sack Anti Foam /
 D801 - 0.03 gal / sack Retarder - 0% Excess

1217 N-4H

Marcellus Shale Horizontal
 Lewis County, WV



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 WV Department of Environmental Protection

Ground Elevation			1187'			1217 N-4H SHL			14199034.16N 1759158.62E		
Azm			340.466°			1217 N-4H LP			14199233.53N 1758453.89E		
WELLBORE DIAGRAM			1217 N-4H BHL			14220963.18N 1750786.61E					
HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS		
30"	30" 157.5# LS	Conductor	0	120	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5" wall thickness		
26"	20" 94# J-55	Coal	506, 747, 1047		AIR	15.6 ppg PNE-1 + 3% bwoc CaCl 40% Excess Yield=1.20 / CTS	Centralized every 3 joints to surface	Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.	Surface casing = 0.438" wall thickness Burst=2110 psi		
		Fresh Water Protection	0	1150							
		Little Lime	1707	1727							
17.5"	13-3/8" 68# J-55 BTC	Big Lime	1752	1832	AIR / KCL Salt Polymer	See above (LEFT) for Storage String Cement Blend to Meet DTI Requirements for Gas Storage Field Isolation	Bow Spring on every joint *will also be running ACP for isolating storage zone*	Once casing is at setting depth, circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.480" wall thickness Burst=3450 psi		
		Injun / Gantz (Storage)	1832 / 2102	1917 / 2160							
		Intermediate 1	0	2260							
		Thirty Foot	2306	2321							
		Gordon	2382	2457							
		5th Sand	2607	2632							
		Bayard	2672	2687							
		Speechley	3305	3321							
		Benson	4635	4675							
12.25"	9-5/8" 40# N / L-80 BTC & GBCD	Alexander / Elk	5145 / 5300	5214 / 5475	AIR / KCL Salt Polymer	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS	Run 1 spiral centralizer every 5 joints from the top of the curve to surface. Run 1 spiral centralizer every 3 joints from the 1st 9" long joint to the top of the curve.	Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.395" wall thickness Burst=5750 psi Note:Actual centralizer schedules may be changed due to hole conditions		
		Rhinestreet	6103	6338							
		Cashaqua / W. River	6338 / 6609	6531 / 6691							
		Burkett	6691	6723							
		Tully Limestone	6723	6800	AIR / 9.0ppg SOBM						
		Intermediate 2	0	TVD: 6800' MD: 7100' Inc: 63 deg.							
8.5" Curve	5-1/2" 23# P-110 HP TXP / W461				11.5ppg-12.5ppg SOBM	Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170 Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess Lead Yield=1.19 Tail Yield=1.94 CTS	Run 1 spiral centralizer every 5 joints from the top of the curve to surface. Run 1 spiral centralizer every 3 joints from the 1st 5.5" long joint to the top of the curve.	Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.	Production casing = 0.415" wall thickness Burst=16240 psi Note:Actual centralizer schedules may be changed due to hole conditions		
8.5" Lateral		Hamilton	6800	6870							
		Marcellus	6870	6934							
		TMD / TVD (Production)	30578	6900	11.5ppg-12.5ppg SOBM						
		Onondaga	6934								
LP @ 6900' TVD / 7525' MD			8.5" Hole - Cemented Long String 5-1/2" 23# P-110 HP TXP / W461			+/-23053' ft Lateral			TD @ +/-6900' TVD +/-30578' MD		
									X=centralizers		

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WW-9
(4/16)

API Number 47 - _____ - _____

Operator's Well No. Gum 1217 N-4H

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

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FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

WV Department of
Environmental Protection

Operator Name HG Energy II Appalachia, LLC

OP Code 494501907

Watershed (HUC 10) Fink Creek

Quadrangle Camden 7.5'

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.? _____

Proposed Disposal Method For Treated Pit Wastes:

- _____ Land Application
- _____ Underground Injection (UIC Permit Number _____)
- Reuse (at API Number TBD - At next anticipated well _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- _____ Other (Explain _____)

Will closed loop system be used? If so, describe: Yes, cuttings and fluids will be collected in a closed loop system, re-used or hauled to an approved disposal site or landfill.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Vertical - Air, Air/KCL, Air/SOBM, Horizontal - SOBM

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

Additives to be used in drilling medium? Water, Soap, KCl, Barite, Base Oil, Wetting Agents

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Approved Landfill

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

-Landfill or offsite name/permit number? See Attached

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 Diane White

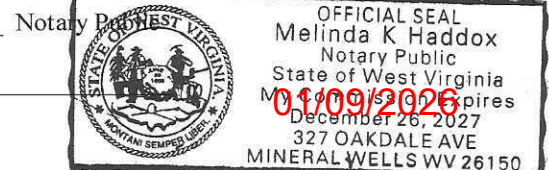
Company Official (Typed Name) Diane White

Company Official Title Agent

Subscribed and sworn before me this 14th day of November, 2025

Melinda K Haddox

My commission expires December 26, 2027



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Form WW-9

Operator's Well No. Gum 1217 N-4HHG Energy II Appalachia, LLCProposed Revegetation Treatment: Acres Disturbed 30.31 Prevegetation pH _____Lime 3 Tons/acre or to correct to pH 6.5Fertilizer type 10-20-20Fertilizer amount 500 lbs/acreMulch Hay 2 Tons/acreRECEIVED
Office of Oil and Gas

DEC 01 2025

WV Department of
Environmental ProtectionSeed MixturesTemporaryPermanent

Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5

Maintain E&S controls through the drilling and completion process

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 = Oil and Gas
Date: 2025.11.17 10:57:46 -0500

 Comments: Pre-seed/mulch as soon as reasonably possible per regulation.
Upgrade E&S if needed per WV DEP E&S manual.
Title: DEP State Oil & Gas Inspector

Date: _____

Field Reviewed? (☐) Yes (☐) No

01/09/2026

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Environmental Protection

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WV Department of
Environmental Protection

HG Energy II Appalachia, LLC

Site Safety Plan

**Gum 1217 Well Pad
2686 Freemans Creek Road, Camden
Lewis County, WV 26338**

November 2024: Version 1

**For Submission to
West Virginia Department of Environmental Protection,
Office of Oil and Gas**

HG Energy II Appalachia, LLC

5260 Dupont Road

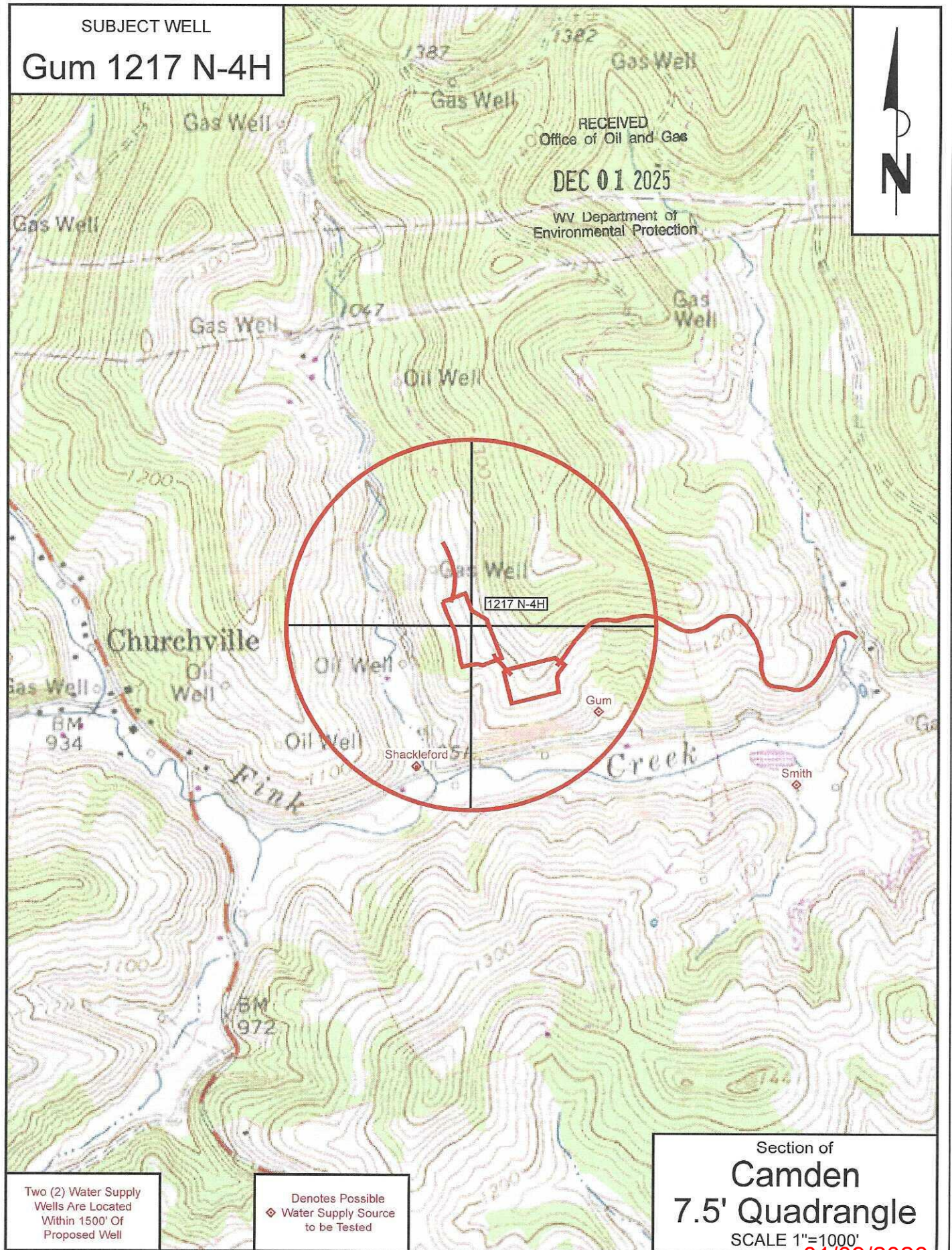
Parkersburg, WV 26101

Kenneth Greynolds
Signature of Kenneth Greynolds
2025-01-01 10:10:10
2025-01-01 10:10:10

01/09/2026

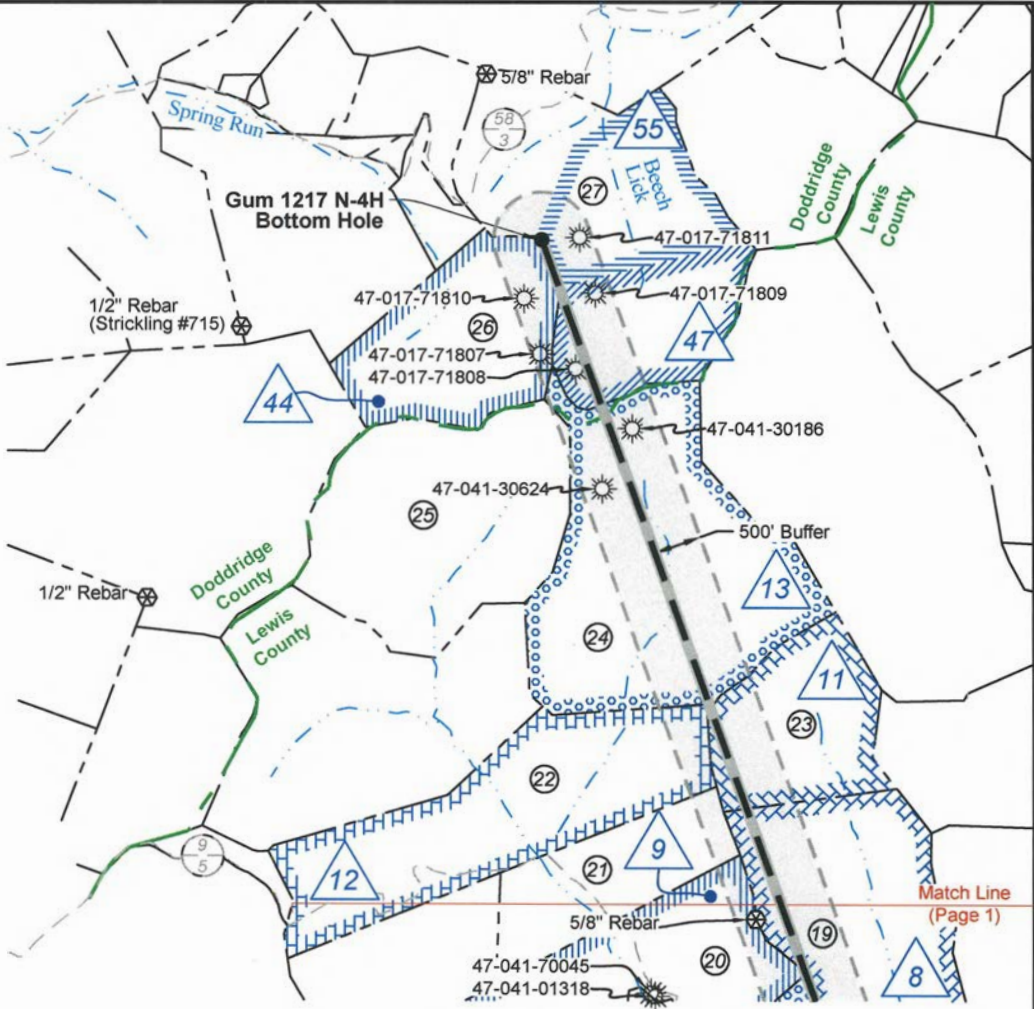
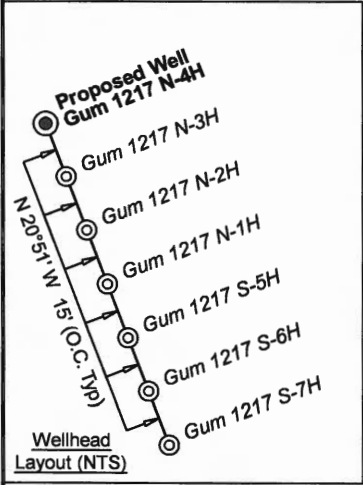
SUBJECT WELL

Gum 1217 N-4H



01/09/2026

Parkersburg, WV 26101



Legend	
	Proposed gas well
	Well Reference, as noted
	Monument, as noted
	Existing Well, as noted
	Existing Plugged Well, as noted
	Digitized Well, as noted
	Creek or Drain
	Existing Road
	Surface boundary (approx.)

Tag	Bearing	Dist.	Description
L1	S 22°11' W	1,452.3'	4x8x12 planted stone (chisel mark)
L2	N 66°49' W	1,307.7'	47-041-01748
L3	N 03°36' E	896.4'	47-041-04048
L4	S 31°47' E	693.2'	47-041-02294
L5	N 74°12' W	732.4'	Landing Point

West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.	UTM Zone 17, NAD 1983 Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.	
Notes: Well No. Gum 1217 N-4H WVCS 1927, North Zone Top Hole Coordinates Lat: 39°05'56.98" Lon: 80°34'53.86" Landing Point Coordinates Lat: 39°05'58.99" Lon: 80°35'02.80" Bottom Hole Coordinates Lat: 39°09'34.18" Lon: 80°36'38.90"	Notes: Well No. Gum 1217 N-4H UTM NAD 1983 (USSF) Top Hole Coordinates N: 14,199,034.16' E: 1,759,158.62' Landing Point Coordinates N: 14,199,233.53' E: 1,758,453.89' Bottom Hole Coordinates N: 14,220,963.18' E: 1,750,786.61'	Notes: Well No. Gum 1217 N-4H UTM NAD 1983 (Meters) Top Hole Coordinates N: 4,327,874.268m E: 536,192.620m Landing Point Coordinates N: 4,327,935.036m E: 535,977.818m Bottom Hole Coordinates N: 4,334,558.246m E: 533,640.826m

FILE NO: 100-12-FC-21
 DRAWING NO: Gum 1217 N-4H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION

OIL AND GAS DIVISION

DATE: December 17 20 25

OPERATOR'S WELL NO. Gum 1217 N-4H

API WELL NO

47 — 041 — 05782

STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL

(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW

LOCATION: ELEVATION: 1,162.0' WATERSHED: Fink Creek

DISTRICT: Freemans Creek

SURFACE OWNER: Garnett A. Gum

ROYALTY OWNER: Joseph Gum, et al

PROPOSED WORK: ☒ DRILL ☐ CONVERT ☒ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION

☒ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,900 TVD 30,579' MD

QUADRANGLE: Camden

COUNTY: 01/09/2026

ACREAGE: 101.00

ACREAGE: 305.49

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road

ADDRESS: 5260 Dupont Road

Parkersburg, WV 26101

Parkersburg, WV 26101



Lewis Co. (Freemans Creek Dist.)				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	4D / 43	Garnett A. Gum	W11 / 74	101.00
2	4D / 43.1	Jesse & Amber Shackelford	670 / 280	46.00
3	4D / 43.2	William L. & Martha S. Gum	385 / 534	12.00
4	4D / 40.2	William L. & Martha S. Gum	332 / 226	15.01
5	4D / 40.1	William L. & Martha S. Gum	332 / 226	14.00
6	4C / 8.1	Donna J. Goldsmith	577 / 690	21.39
7	4C / 8	Donna J. Goldsmith	577 / 690	32.60
8	4C / 7	William L. & Martha S. Gum	320 / 568	52.00
9	4C / 9	Betty Arbogast, et al	740 / 849	84.00
10	4C / 10	Ricky Barnes, et al	598 / 747	294.98
11	4C / 11	Donna M. Walls	498 / 388	32.50
12	4C / 13	Shirley Taylor, et al	FID / -	79.04
13	4C / 12	Randell L. White, et al	547 / 426	118.00
14	4C / 1	Randell L. White, et al	547 / 421	237.00
15	4B / 5	Maryella D. Hitt Trust	674 / 383	67.25
16	4B / 4	Allen M. & Diane J. Jerden	571 / 507	262.09
17	4B / 3	Thomas J. Fahey Heirs	WB K / 65	34.75
18	4B / 6	Jacob & Laura K. Johnson	622 / 33	240.15
19	4B / 2	Thomas J. Fahey, et al	WB K / 65	109.50
20	3B / 23	Dominion Transmission, Inc.	591 / 761	122.38
21	3B / 22	John H. & Stephanie A. Smith	578 / 434	52.50
22	3B / 21	Joseph Fahey, et al	751 / 390	120.00
23	4B / 1	Thomas J. Fahey, et al	WB K / 65	60.00
24	3A / 2	State of West Virginia, Bureau of Commerce, DNR	531 / 663	148.75
25	3A / 1	State of West Virginia, Bureau of Commerce, DNR	531 / 663	103.00
Doddridge Co. (New Milton Dist.)				
No.	TM / Par	Owner	Bk / Pg	Ac.
26	21 / 8	Herbert & Betty Bickford	363 / 488	77.57
27	17 / 5	Wayne A. Gorby	436 / 333	158.46

ID	Lease
1	W.J. Woofter & Susan Woofter, his wife
2	A.F. Gum & M.L. Gum, his wife
3	A.H. Kemper & Sarah Kemper, his wife
4	Perry C. Gum & Dora Gum, his wife, et al
5	Jemima K. Cumpston & W.C. Cumpston, her husband
6	Edward Foley & Ellen A. Foley, his wife, et al
7	Thomas J. Fahey & Mary E. Fahey, his wife
8	Mary Fahey, et al
9	Joseph P. Fahey, attorney-in-fact for John J. Fahey, widower, et al
11	T.J. Fahey & Mary E. Fahey, his wife
12	T.J. Fahey & Mary E. Fahey, his wife
13	Edward Foley, Sr. & Catherine Foley, his wife
41	Henry Snyder & Margaret Snyder, his wife
44	David L. Nicholson, Jr.
47	Edward Foley, Jr. & Ellen A. Foley, his wife
55	Carl M. Smith
56	Joseph Gum & Margaret Gum, his wife, et al
60	P.L. Hull & M.E. Hull, his wife
65	J.P. Hull

FILE NO: 100-12-FC-21
 DRAWING NO: Gum 1217 N-4H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 CORS, Bridgeport, WV

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

DATE: December 17 20 25
 OPERATOR'S WELL NO. Gum 1217 N-4H
 API WELL NO
 47 — 041 — 05782
 STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL
 (IF GAS) PRODUCTION : ☐ STORAGE ☐ DEEP ☒ SHALLOW

LOCATION: ELEVATION: 1,162.0' WATERSHED: Fink Creek QUADRANGLE: Camden
 DISTRICT: Freemans Creek COUNTY: 01/09/2026
 SURFACE OWNER: Garnett A. Gum ACREAGE: 101.00
 ROYALTY OWNER: Joseph Gum, et al LEASE NO: ACREAGE: 305.49

PROPOSED WORK: ☒ DRILL ☐ CONVERT ☒ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
 ☒ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,900' TVD 30,579' MD

WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White
 ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road
 Parkersburg, WV 26101 Parkersburg, WV 26101

**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 Sheets****

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Office of Oil and Gas

DEC 01 2025

WV Department of
Environmental Protection

Co-Tenancy utilization - At least 75% of the royalty owners have consented to the lawful use or development of the natural gas mineral property on the tract. The interests of the remaining co-tenants will be secured pursuant to the Co-Tenancy Act
~~Horizontal Well Unit Utilization - Subject to unitization filing with the WV Oil and Gas Conservation Commission~~

**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: HG Energy II Appalachia, LLC
By: Diane White *Diane White*
Its: Agent

1217N Tract	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
1	FK051503	p/o 03-004C-0010-0000 03-004C-0010-0001	Q100270000	W. J. WOOFER AND SUSAN WOOFER, HIS WIFE	E. W. BOYD	NOT LESS THAN 1/8	35	240
				E. W. BOYD	S. E. BARRETT	ASSIGNMENT	36	369
				S.E. BARRETT	LOUIS BENNETT	ASSIGNMENT	30	609
				S. E. BARRETT AND LOUIS BENNETT	LEWIS OIL COMPANY	DEED	36	438
				LEWIS OIL COMPANY	J. M. GUFFEY AND JOHN H. GALEY	ASSIGNMENT	44	562
				LEWIS OIL COMPANY	J. M. GUFFEY	ASSIGNMENT	46	399
				LOUIS BENNETT	J. M. GUFFEY AND JOHN H. GALEY	ASSIGNMENT	44	571
				J. M. GUFFEY AND JOHN H. GALEY	PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	73	318
				PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	85	141
				PITTSBURG AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY	DEED	216	185
				EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY	HOPE NATURAL GAS COMPANY	DEED	246	192
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
2	FK002511 FEEHGII0048 FEEHGII0049 FEEHGII0057 FEEHGII0059	03-004C-0002-0000 03-004C-0003-0000 03-004C-0011-0000 p/o 03-003C-0028-0000 p/o 03-003C-0028-0001	Q100417000	A. F. GUM AND M. L. GUM, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	33	215
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	127
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
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				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
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				A. H. KEMPER AND SARAH KEMPER, HIS WIFE	E. W. BOYD	NOT LESS THAN 1/8	35	247
				E. W. BOYD	S. E. BARRETT	ASSIGNMENT	30	369
				S. E. BARRETT AND LOUIS BENNETT	LEWIS OIL COMPANY	DEED	36	438
				S. E. BARRETT AND LOUIS BENNETT	LEWIS OIL COMPANY	DEED	36	479
				S. E. BARRETT	J. M. GUFFY AND JOHN H. GALEY	ASSIGNMENT	44	569
				LOUIS BENNETT	J. M. GUFFY AND JOHN H. GALEY	DEED	44	571
				LOUIS BENNETT	CRUDE OIL COMPANY	ASSIGNMENT	92	155
				LEWIS OIL COMPANY	J. M. GUFFY AND JOHN H. GALEY	ASSIGNMENT	44	562

3	FK051504 FEEHGI0442	03-004C-0012-0000 03-004C-0013-0000 03-004C-0013-0001	Q100428000	LEWIS OIL COMPANY	J. M. GUFFY AND JOHN H. GALEY	ASSIGNMENT	46	399
				J. M. GUFFEY AND JOHN H. GALEY	THE PHILADELPHIA COMPANY	ASSIGNMENT	44	583
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	DEED	125	371
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	379
				PITTSBURG AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY	DEED	216	185
				EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	246	192
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
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				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
4	FK024898	03-004C-0001-0000	Q100658000	PERRY C. GUM AND DORA GUM, HIS WIFE; AND MARGARET GUM	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	74	515
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
5	FK047029	03-004B-0005-0000	Q100466000	JEMIMA K. CUMPSTON AND W. C. CUMPSTON, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	142	277
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9	628
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				EDWARD FOLEY AND ELLEN A. FOLEY, HIS WIFE; R. S. KEMPER AND FANNIE KEMPER, HIS WIFE; A. J. KEMPER AND PEARL S. KEMPER, HIS WIFE				
				HOPE NATURAL GAS COMPANY	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	144	214
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	

6	FK047104 FK085625 FEE	03-004B-0004-0000	Q100659000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
7	FK051055	03-004B-0003-0000	Q100265000	THOMAS J. FAHEY AND MARY E. FAHEY, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	153	45
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
8	FK032953 (FEE) FK051166	03-004B-0002-0000	Q100915000 Q101156000	MARY FAHEY; T. J. FAHEY AND MARY E. FAHEY, HIS WIFE; MARY A. FAHEY; AND GEORGE C. FAHEY AND ANNIE A. FAHEY, HIS WIFE (1/2)	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	485
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	DEED	92	358
				T. J. FAHEY AND MARY E. FAHEY, HIS WIFE (1/2)	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	153	93
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	NOT LESS THAN 1/8	692	570
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746

9	FK051247 FK085628 FEE FK094186 FEE	03-003B-0023-0000 p/o 03-004B-0004-0000	Q100470000	JOSEPH P. FAHEY, ATTORNEY-IN-FACT FOR JOHN J. FAHEY, WIDOWER; MARTIN W. FAHEY, WIDOWER; MARY M. FAHEY, WIDOW; ANNIE FAHEY, WIDOW; P. WILLIAM FAHEY AND RUTH S. FAHEY, HIS WIFE; T. BERNARD FAHEY AND HELEN R. FAHEY, HIS WIFE; LEOCADIA FAHEY, SINGLE; ALFONSE FAHEY, SINGLE; MARY LORETTA CONLEY AND THOMAS A. CONLEY, HER HUSBAND; GRACE WANSTREET AND S. L. WANSTREET, HER HUSBAND; CECELIA NIGGEMMYER AND JOE NIGGEMMYER, HER HUSBAND; ELIZABETH EBBERT AND LAURENCE EBBERT, HER HUSBAND; MYRTLE F. BEISWENGER AND ROBERT E. BEISWINGER, HER HUSBAND; GEORGE F. FAHEY AND BLANCHE FAHEY, HIS WIFE; AND MARTIN J. FAHEY, SINGLE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8		
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
						SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC		723	499
						THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				T. J. FAHEY AND MARY E. FAHEY, HIS WIFE (1/2)	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	153	95
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
						SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC		723	499
						THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
11	FK051167 FK054806 FEE	03-004B-0001-0000	Q100753000	T. J. FAHEY AND MARY E. FAHEY, HIS WIFE (1/2)	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	153	95
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
						SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC		723	499
						THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				T. J. FAHEY AND MARY E. FAHEY, HIS WIFE (1/2)	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	153	97
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
						SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC		723	499
						THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
12	FK051168 FK054806 FEE	03-003B-0021-0000	Q100468000	T. J. FAHEY AND MARY E. FAHEY, HIS WIFE (1/2)	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	153	97
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
						SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC		723	499
						THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				EDWARD FOLEY, SR. AND CATHERINE FOLEY, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	484

13	FK088092 (FEE) FK055520 (FEE)	p/o 03-003A-0002-0000	Q100774000	SOUTH PENN OIL COMPANY	HOPE CONSTRUCTION AND REFINING COMPANY	DEED (50%)	142	187
				HOPE CONSTRUCTION AND REFINING COMPANY	HOPE NATURAL GAS COMPANY	DEED	169	2
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
41	FK002648	03-004C-0009-0000	Q100419000	HENRY SNYDER AND MARGARET SNYDER, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	39	209
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	127
				SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS COMPANY	ASSIGNMENT	156	570
				SOUTH PENN NATURAL GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	166	494
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9	628
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
44	HGII04487 et al	06-0025-0002-0000 06-0024-0006-0000	Office of Oil and Gas RECEIVED DEC 01 2025 WV Department of Environmental Protection	David L. Nicholson, Jr.			536	428
					HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8		
				Amanda Sue Todd	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	536	430
				Eric Lee Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	536	426
				Clarice Mondell Edwards	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	539	642
				Darrel E. Swisher AKA Darrel Swisher	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	539	21
				Robert L. Crislip	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	522	615
				Donna J. McKinney	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	510	261
				Ralphie W. Dillon, Jr.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	543	693
				Edward Lee Dillon	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	544	457
				Brenda K. Moore	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	497	287
				Timothy R. Crislip	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	522	613
				Dale D. Crislip	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	139
				H3 LLC	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	518	676
				Eugene Hoalcraft	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	545	329
				Nona M. Wakefield	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	544	452
				Wanda L. Martinez	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	544	577
				Sharon Futterer AKA Sharon Michele Futterer	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	345
				Michael Paige Bonnell	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	515	630
				Delores Eloise Bonnell	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	534	479
				Debra P. Bonnell	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	515	634
				Gregory Dean Bonnell	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	519	714
				Shelly G. Bonnell	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	515	626
				Ezra Guy Swisher, Jr.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	514	702

			RECEIVED Office of Oil and Gas DEC 01 2025 WV Department of Environmental Protection	Alice Elizabeth Jacobs FKA Alice Elizabeth Swisher, by Susan Wyckoff Power of Attorney	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	515	628
				Sue Ann Malson fka Sue Ann Jett	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	515	632
				Antero Resources Corporation		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Randy N. Crislip c/o Donna McKinney, Conservator and/or Guardian		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				The Estate of Eleanor R. Nicholson, by Eleanor Jane Nicholson, Executrix		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Rodney Cross AKA Rodney W. Cross AKA Rodney Wayne Cross		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Lisa Ayers AKA Lisa Kay Ayers		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Estate of Carolyn Hoalcraft aka Caroline Hoalcraft aka Caroline Elizabeth Hoalcraft, John D. Hoalcraft, executor		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Michael K. Toohey		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Dianna Lynn Howell		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Donna Marie Niedermann		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Denise Michelle Priest		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Corinne Yvonne Pangelina, DOD: 1/6/2023, Solano Co, CA, Diana Mamere, Trustee and Executrix		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Richard A. Wright, DOD: 1/11/2017, Sacramento Co, CA		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Robert A. Wright, aka, Robert Wright, DOD: 11/24/2002, Athens, Greece		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Joyce Ann Whittaker		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Silverado Mineral Group, LP		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Forest Gene Swisher		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				EDWARD FOLEY JR AND ELLEN A FOLEY, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	32	255
				PENNZOIL UNITED INC	L. J. NICHOLSON, D.C. SPENCER, AND EDISON E. RITTER	NOT LESS THAN 1/8	93	614
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	26	182
				SOUTH PENN OIL COMPANY	HOPE CONSTRUCTION AND REFINING COMPANY	DEED	51	260
				HOPE CONSTRUCTION AND REFINING COMPANY	SOUTH PENN NATURAL GAS COMPANY	DEED AND ASSIGNMENT	54	149
				SOUTH PENN NATURAL GAS COMPANY	SOUTH PENN OIL COMPANY	ASSIGNMENT	58	200
				SOUTH PENN OIL COMPANY	PENNZOIL COMPANY	MERGER/NAME CHANGE	WVSOS	
				PENNZOIL COMPANY	PENNZOIL UNITED INC	CONVEYANCE, ASSIGNMENT, AND TRANSFER	153	51
PENNZOIL UNITED INC	L.J. NICHOLSON, D.C. SPENCER AND EDISON E. RITTER	ASSIGNMENT	91	618				
DEWEY C. SPENCER AKA D.C. SPENCER	DORA E. SPENCER	LAST WILL AND TESTAMENT	10	322				
DORA E. SPENCER (HEIR OF D. C. SPENCER)	L.J. NICHOLSON AND EDISON E. RITTER	ASSIGNMENT	98	255				
EDISON E. RITTER	NEVA A. RITTER	LAST WILL AND TESTAMENT	14	35				
NEVA E. RITTER, IN HER OWN RIGHT, AND NEVA A. RITTER, AS EXECUTRIX OF THE lwt OF EDISON E. RITTER	LESLIE J. NICHOLSON	ASSIGNMENT	109	377				
LESLIE JAY NICHOLSON	DONALD G. MICHELS	AGREEMENT	114	383				
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	143	345				
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	135	583				
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG DEVELOPMENT COMPANY	ASSIGNMENT	139	41				
CNG DEVELOPMENT COMPANY	CNG PRODUCING COMPANY	MERGER/NAME CHANGE	DESOS					
CNG PRODUCING COMPANY	DOMINION EXPLORATION & PRODUCTION INC	MERGER/NAME CHANGE	WVSOS					
DOMINION EXPLORATION & PRODUCTION INC	CONSOL GAS COMPANY	MERGER/NAME CHANGE	286	144				
CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	293	252				
DOMINION EXPLORATION & PRODUCTION INC	DOMINION TRANSMISSION, INC. AND DOMINION APPALACHIAN DEVELOPMENT LLC	ANTERO RESOURCES APPALACHIAN CORPORATIONS	231	145				
DOMINION APPALCHIAN DEVELOPMENT LLC	CONSOL GAS APPALACHIAN DEVELOPMENT LLC	MERGER/NAME CHANGE	286	108				
CONSOL GAS APPALACHIAN DEVELOPMENT LLC AND CONSOL GAS APPALACHIAN DEVELOPMENT PROPERTIES LLC	CONSOL GAS RESERVES INC	MERGER/NAME CHANGE	286	121				
CONSOL GAS RESERVES INC	CONSOL GAS COMPANY	MERGER/NAME CHANGE	286	133				
CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	293	252				
CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	LEWIS 803	184				
Carl M. Smith	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	520	583				
Esther Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	530	300				
The Estate of Guss Thomas Kelley, aka Guss T. Kelley. Executrix Merelene N. Kelley aka Merelene Kelley	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	91				
Joseph E. Kelley, aka Joseph Kelley, aka Joseph Edward Kelley, aka Edward Kelley	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	412				
Richard L. Kelley	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	533	173				

Robin L. Love aka Robin Love	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	531	152
Kenneth Nicholas Junkins aka Kenneth Junkins	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	534	140
Robert Michael Junkins aka Robert M. Junkins Inmate #05276-087, Yazoo City Medium FCI by Carla Clayton Power of Attorney	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	81
Richard Gordon Crouser, Jr. aka Richard Gorden Crouser, Jr.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	531	146
William Edward Crouser aka William E. Crouser	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	531	150
Charlene Lee Vickers	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	534	189
Michael Roy Hood	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	535	88
Robert Gene Kinney, Jr.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	544	185
James E. Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	533	167
Tamara Rae Hughes	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	531	500
Teresa Kay Blair	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	533	169
Michelle Stoneburner aka Lynn Ann Stoneburner	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	398
Veronica Lee Gates	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	535	289
Kenneth Leonard Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	533	382
Kimberly Sue Delong	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	414
Heather June Thompson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	534	144
Karen Ann Quinn	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	534	150
RUTH ANN MCCLAIN	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	400
Cheryl Buchanan	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	562
Patricia Brookes	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	408
Donna Wilson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	396
Linda Grabits	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	384
Loir Burge aka Lourie Burge aka Lourie Burge-Ducharme	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	534	136
Randy Paul Burge aka Randy Burge aka Randy P. Burge	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	410
Steven Burge	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	534	148
Wanda Hazlett	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	382
Annabelle M. McClain	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	531	504
Robert McClain aka Robert C. McClain	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	534	142
Judith McClain aka Judith L. McClain aka Judy McClain	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	531	514
Shirley A. McClain	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	87
Carl Michael Vecchione	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	537	720
Virginia L. Trikones	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	83
Rickey R. McClain	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	531	512
Terri Lynn Vecchione	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	537	512
David Viltro	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	535	271
Lana Sue Jarrett aka Lana Jarrett	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	536	424
Corless B. Shafer aka Corless Bernadette Shafer aka Corless B. Mortz aka Corless B. Morze	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	531	498
Susan Lynn Shafer aka Susan L. Ryan	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	529	614
Celia Sue Linger	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	526	622
Randall E. Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	526	624
Milton D. Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	228
Creola M. Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	386
Nancy L. Skinner	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	520	577
Clifton Edward Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	524	311
Everett Charles Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	528	625
Lloyd Dale Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	524	309
Garry Lee Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	605
Donald Ray Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	248
Richard Kelly Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	246
Misha Nichole Sopjack FKA Misha Nicole Reed	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	378
Joshua Kalam Reed aka Joshua Kalen Reed	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	527	131
Charles R. Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	325
Terry Lynn Hickman	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	518	696
Debra Ann Pickens	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	518	692
Mark Allen Hickman	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	518	694
Michelle Diane Helm a/k/a Michelle Diane Helm McMillan	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	78
James P. Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	528	617
Amanda Marie Nicholson nka Amanda Marie Wilkinson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	526	299

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Romona Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	531	337
Naomi Mae Harris	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	597
Delcie Adrenna Jewell	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	168
Beverly Ann Arps	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	607
Shelbia June Groves	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	609
Ester Joan Polan	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	611
Mike Miller	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	524	315
Steve Miller	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	526	291
Brenda Bost	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	530	173
Marie Nelson AKA Esther Marie Nelson FKA Esther Marie Miller	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	528	615
Marie Nelson AKA Esther Marie Nelson FKA Esther Marie Miller	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	528	615
Donna Lynn Syrews	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	522	611
Anna Marie Butcher	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	522	599
Linda C Davoli AKA Linda Lou Davoli	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	236
Carmen Mae Trent	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	520	587
Michael E. Bonnell	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	526	620
Jamie L. Blake	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	526	618
Ricky D. Carroll, Sr.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	526	635
Christopher H. Carroll	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	85
Billie L. Duff	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	394
Robert Coy Duff, Jr., a/k/a, Robert C. Duff, Jr.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	89
Denzil E Nicholson, Jr.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	520	579
Michael E. Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	226
John A. Conley	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	522	603
Ginger D. Conley	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	520	585
Christopher R. Newman	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	218
Robert Osborne	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	218
Amy L. Todd	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	218
Frank E. Shafer, II	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	591
Jackie Lee Gray	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	522	605
Kathy Mae Shaffer	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	164
Dixie Diane Fultineer	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	240
Camilla Beth Morehead	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	232
Sharon Gay Walp	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	522	597
Scotty W. Ruble	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	524	317
Eric C. Stone	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	220
Brian Gail Stone	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	418
Robert T. Flynn, Sr.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	534	187
Donna Junkins	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	533	165
Denise Secret aka Denise Hughey	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	416
Delayne Plata	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	424
David Sutton	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	422
Robert T. Flynn, II aka Robert Flynn, II	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	533	163
Pamela S. Smith, a/k/a, Pamela S. Billow	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	528	593
Marianne D. Gorham Smith	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	376
Jason Morris Smith	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	531	508
Michael William Smith	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	545	327
Carolyn Sue Gaston a/k/a Carolyn Sue Gaskins	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	528	597
Katherine Foster Leggett	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	329
Zadok M. Leggett	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	528	595
Kelleigh D. Beverlin FKA Kelleigh D. Leggett	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	526	297
Janice Kay Snider	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	178
Eugene S. DeLawder	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	182
Randall Richard Leggett	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	180
Elizabeth Ann Guido	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	527	160
Bernard Keith Leggett	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	327
S. J. J. Leggett Family, LLC by Jill Phillips, Authorized Representative	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	84
Jennifer L. Powers	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	529	616
Freda B. Jones	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	186

Brenda Jo Fulton	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	526	287
Beverlee Ann Grose a/k/a Beverlee Ann Fenton	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	527	166
Jeffrey S. Anderson and Sherry D. Anderson, husband and wife, JTWROS	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	526	289
Kimberly Kay Davis a/k/a Kimberly Kay Anderson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	527	141
Eric Thomas Anderson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	528	583
Lorelei F. Phillips	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	530	302
Timothy C. Phillips	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	526	279
Barbara Alonso aka Barbara L. Alonso	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	564
James E. Vanscoy II	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	74
Carol A. Robison	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	398	313
Timothy L. Warzala	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	398	313
Richard L. Warzala	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	398	313
Evva Joan Vanscoy, a/k/a, Evva Joan VanScoy	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	531	502
Linda Paugh	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	392
Sandra K. Morgan a/k/a Sandy K. Morgan	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	234
Jeff Truran	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	420
Sandra J. Copeland	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	170
Allen Vanscoy	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	390
Matthew Sellars	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	522	607
Sarah Sellars	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	174
Rachel Blasingame	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	522	601
Destiney Copeland	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	184
Joshua Copeland	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	333
Andrew Bokros	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	530	169
Brian Bokros	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	530	304
Deborah Marie Ellis a/k/a Debra Marie Ellis	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	527	164
Kevin Bokros	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	530	167
April Sturgiss	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	539	11
Justin David Schreckengost	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	543	704
Jeffery Lynndale Schreckengost, Jr.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	542	337
Tamara L. Jewett aka Tamara Jewett	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	242
Kathy Baker Ryder	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	404
Charles W. Oldaker, III	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	530	483
Gary L. Oldaker	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	244
Roger R. Oldaker	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	222
Gerald Oldaker aka John Gerald Oldaker	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	601
Brenda K. Hurst	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	529	610
Marlena R. Swiger	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	224
Amanda Taneil Travis	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	77
Wilma J. Fincham	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	595
Becky A. Stanley	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	230
Julie L. Abel	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	323
James Edward Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	534	134
Rick L. Nicholson a/k/a Ricky Lane Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	530	479
Cassie Arlene Nicholson fka Cassie Arlene Upton aka Cassie Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8		
Monica Virginia Nicholson Scritchfield	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	66
Donna Simpson aka Donna Phares Simpson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	537	200
Dianna Phares Stemple	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	537	514
Patricia "Patty" Ann Phares Gunter	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	539	650
Eraina Muscatell aka Eraina Virginia Phares Muscatell	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	531	510
Barry Russell Burrows, Jr.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	531	516
Loretta Sue Cunningham AKA Loretta Sue Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	617
Roberta Jean Swiger	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	529	606
Cathy A. Swiger	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	529	612
Robert Gene Swiger, III	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	534	132
Country Roads Minerals, LLC	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	528	623
LaCore Agriculture, Inc.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	528	623
Anna M. Lucas	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	79

Valerie L. Emery AKA Valarie L. Emery	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	166
Bryan William Vanscoy	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	238
Danielle R. Wagner FKA Danielle R. Vanscoy	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	531	148
Gloria Lea Aichele	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	529	604
Joan E. Rome	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	529	602
John E. Barker III	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	530	306
Judith L. Maddix	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	528	619
Lena Jayne Fragmin	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	331
Sylvia Jean Childers AKA Sylvia Jean Childress	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	524	319
Mary K. Long	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	524	325
Clista Ann Sprouse	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	524	321
WILLIAM HARBERT	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	531	506
David Anthony Mazzie	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	528	587
Anthony Paul Visokay	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	388
Alicia Ann Visokay	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	529	608
Rachel Martha Dodd	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	534	146
Celeste Miller AKA Celeste Renee Dodd Miller	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	526	626
Michelle Lynch	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	599
Pamela S. Baughman aka Pam Baughman	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	589
Forest E. Henning, Jr.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	587
Terry Henning	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	560
Edward J. Henning aka Eddie Henning	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	527	162
Linda Kay Henning Robinson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	527	146
Charles Roscoe Henning, Jr.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	172
Edward K. Toothman, III	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	406
Olivia Rose Toothman	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	380
Denzil R. Skidmore, Jr.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	528	603
Richard R. Skidmore	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	601
Connie E. Skidmore Bocco	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	527	158
Cathy Jo Conley	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	593
Malissa Kennedy	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	528	621
Jennifer Sheets	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	534	138
Robert Lee Kelley, Jr.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	530	481
James Scott Kelley	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	530	485
Shirley Skidmore	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	527	156
Kelly Jo Paugh	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	615
Timothy Don Stire	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	544	674
Lucinda J. Ely and Gary R. Ely, as Co-Trustees for Robert Kent Bailey The Algie L. Bailey Trust	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	526	285
Mary Fiber	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	613
Shirley Jean Miller AKA Jean Miller	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	572	220
Paul Guy Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	585
Dona Lee Warner aka Donna Lee Warner aka Dona L. Nicholson Warner	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	524	323
Eric J. Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	532	402
Christopher M. Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	533	380
Kimberlee A. Nicholson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	76
Angel Valdez, Jr.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	80
Michael S. Valdez	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	86
Richard W. Valdez	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	176
Anita M. Martin AKA Anita M. Valdez	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	524	313
David L. Valdez	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	522	609
Elizabeth Jean Bennett aka Elizabeth J. Bennett	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	530	171
Michelle LaRae Webb	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	524	327
RICHARD OWEN DAVIS JR	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	68
James W. Nicholson or His Unknown Heirs		NOT LESS THAN 1/8	525	88
James W. Nicholson or His Unknown Heirs		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
Barry Francis Hood				
DOD 1/21/2013 Hocking county, OH		Horizontal Lease Order, Hearing Scheduled 11/03/2025		

				Karen Sue Arnold		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Tina Burns				
				DOD 9/25/2015		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Amanda Lea Nicholson		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Jeffrey Ray Nicholson		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Cora Elizabeth Kinney aka Cora Kinney aka Cora E. Kinney		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Thomas Edward Vecchione		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Jerry Lynn Nicholson		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Richard Leon Nicholson		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Kyle N. Nicholson		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Kenneth Scott Nicholson		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Saylen Dean Houston		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Marsha L Cottrill FKA Marsha L. Nicholson		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Terri L. Greathouse		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Judy Ann Vanscoy		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Kathryn Mae McInnes		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Carlos Dion Sturgiss		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Kyle Andrew Sturgiss		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Nicholas Michael Sturgiss aka Nicholas M. Sturgiss		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				William Garrison Elwell, Jr.		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Jessica Lynn Todd		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Toni D. Marshall		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Alan F. Barker		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Tresa Diane Bianco		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Robert A. Henning		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Nicholas Serafino Anania aka Nicholas Anania		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Chanda L'Rae Anania aka Chanda L'Rae Crosby		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Tammy Minnette Stewart aka Tammy Minnette Henning		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Amy Morris		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Kelli M Napier FKA Kelli Pierce FKA Kelli M. Henning		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Shelly C Hagley FKA Shelly Henning		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Carolyn Rebecca Nolan aka Carolyn Henning n/k/a Carolyn Ligley		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Lori Ann Sprouse FKA Lori Ann Shumate		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Patti Jo Skidmore		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
56	FK014331	03-004D-0042-0000 03-004D-0042-0001 03-004D-0043-0001 03-004D-0043-0002	Q100421000	JOSEPH GUM AND MARGARET GUM, HIS WIFE; A. F. GUM AND M. L. GUM, HIS WIFE; AND MARY SIMMONS AND LOIS SIMMONS	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	68	209
				HOPE CONSTRUCTION & REFINING COMPANY	HOPE NATURAL GAS COMPANY	MERGER/NAME CHANGE	169	2
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				P. L. HULL AND M. E. HULL, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	68	97
60	FK013958	03-004C-0008-0000 03-004C-0008-0001 03-004D-0040-0002	Q100450000	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848

	FK013957	03-004D-0040-0000 03-004D-0040-0001 03-004D-0040-0003	Q100908000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				J. P. HULL	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	68	103
65	FK013957	03-004D-0049-0000 03-004D-0049-0001	Q100908000	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220

4704105782



HG Energy, LLC
5260 Dupont Road
Parkersburg, WV 26101
(304) 420-1100 - Office
(304) 863-3172 - Fax

4704105782

November 14, 2025

Cragin Blevins
WV DEP
Division of Oil & Gas
601 57th Street
Charleston, WV 25304

RECEIVED
Office of Oil and Gas
DEC 01 2025
WV Department of
Environmental Protection

RE: Drilling Under Roads – Gum 1217 N-4H
Freemans Creek District, Lewis County
West Virginia

Dear Mr. Blevins -

HG Energy II Appalachia, LLC, is submitting the attached application for a new well work permit for the Gum 1217 well pad. As an authorized representative, I certify HG Energy II Appalachia, LLC, has the right to drill, stimulate, extract, produce and market the oil, gas or condensate for all leases through which the Gum 1217 laterals will drill through including any and all roads crossed under as identified on the attached survey plat.

Should you have any questions or desire further information, please contact me at dwhite@hgenergyllc.com or 304-420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

01/09/2026

WW-PN
(11-18-2015)

4704105782
RECEIVED
Office of Oil and Gas

**Horizontal Natural Gas Well Work Permit
Application Notice By Publication**

DEC 01 2025

WV Department of
Environmental Protection

Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: The Weston Democrat Newspaper

Public Notice Date: Wednesday, November 12th, 2025 and Wednesday, November 19th, 2025

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period.

Applicant: HG Energy II Appalachia, LLC **Well Number:** Gum 1217 N-4H

Address: 5260 Dupont Road
Parkersburg, WV 26101

Business Conducted: Natural gas production.

Location –

State:	<u>West Virginia</u>	County:	<u>Lewis</u>
District:	<u>Freemans Creek</u>	Quadrangle:	<u>Camden 7.5'</u>
UTM Coordinate NAD83 Northing:	<u>4327874.3</u>		
UTM coordinate NAD83 Easting:	<u>536192.6</u>		
Watershed:	<u>Fink Creek</u>		

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit <http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx> to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.comments@wv.gov.

Submitting Comments:

Comments may be submitted online at <https://apps.dep.wv.gov/oog/comments/comments.cfm>, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

01/09/2026

WW-6AC
(1/12)

RECEIVED
Office of Oil and Gas

DEC 01 2025

WV Department of
Environmental Protection

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

4704105782

Date of Notice Certification: 11/13/2025

API No. 47-

Operator's Well No. Gum 1217 N-4H

Well Pad Name: Gum 1217

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:	West Virginia	UTM NAD 83	Easting:	536197.5
County:	Lewis		Northing:	4327861.5
District:	Freemans Creek	Public Road Access:		SR10 @ SR16
Quadrangle:	Camden WV 7.5's	Generally used farm name:		Gum Farm
Watershed:	Fink Creek			

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

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.

01/09/2026

Certification of Notice is hereby given:

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

Well Operator: HG II Appalachia, LLC

By: Diane White *Diane White*

Its: Agent

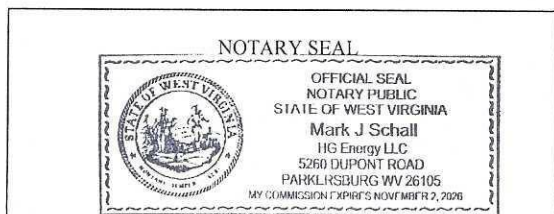
Telephone: 304-420-1119

Address: 5260 Dupont Road

Parkersburg, WV 26101

Facsimile: 304-863-3172

Email: dwhite@hgenergyllc.com



Subscribed and sworn before me this 13th day of November, 2025.

[Signature] Notary Public

My Commission Expires 11/2/2026

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.

RECEIVED
Office of Oil and Gas

DEC 01 2025

WV Department of
Environmental Protection

01/09/2026

WW-6A
(9-13)

API NO. 47-4704105782
OPERATOR WELL NO. Gum 1217 N1H to G7H
Well Pad Name: Gum 1217

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: 11/13/2025 **Date Permit Application Filed:** 11/21/2025

Notice of:

RECEIVED
Office of Oil and Gas

DEC 01 2025

WV Department of
Environmental Protection

☒ PERMIT FOR ANY WELL WORK ☐ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

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

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

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

☒ SURFACE OWNER(s)

Name: Dustin Kent James (Surface, Road, Water)

Address: 6009 Medina Drive
Midland, TX 79707

Name: Amber Nicole Moyers

Address: 13421 Arrowhead Drive
Findlay, OH 45840

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

Name: _____

Address: _____

Name: _____

Address: _____

☐ SURFACE OWNER(s) (Impoundments or Pits)

Name: _____

Address: _____

☐ COAL OWNER OR LESSEE

Name: Western Pocahontas Properties, LP

Address: 5260 Irwin Road
Huntington, WV 25705

☐ COAL OPERATOR

Name: NA

Address: _____

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

Name: Garnett A Gum Jesse Shackelford

Address: 385 Churchville Road 3414 Freemans Creek Rd
Camden, WV 26338 Camden, WV 26338

☒ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: BHE - GT&S - Attn: Jamie Moore

Address: 925 White Oaks Blvd
Bridgeport, WV 26330

*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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

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Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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Environmental Protection

01/09/2026

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

Telephone: 304-420-1119

Email: dwhite@hgenergyllc.com

Address: 5260 Dupont Road

Parkersburg, WV 26101

Facsimile: 304-863-2172

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.



Subscribed and sworn before me this 13th day of November, 2025.

Melinda K Haddox Notary Public

My Commission Expires December 26, 2027

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Environmental Protection

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: 11/12/2025 **Date Permit Application Filed:** 11/21/2025

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

☐ HAND DELIVERY ☒ CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RECEIVED
Office of Oil and Gas
DEC 01 2025
WV Department of
Environmental Protection

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: Amber Nicole Moyers
Address: 13421 Arrowhead Drive
Findley, OH 45840

Name: Dustin Kent James
Address: 6009 Medina Drive
Midland, TX 79707

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>536197.5</u>
County: <u>Lewis</u>		Northing: <u>4327861.5</u>
District: <u>Freemans Creek</u>	Public Road Access: <u>SR10 @ SR16</u>	
Quadrangle: <u>Camden WV 7.5'</u>	Generally used farm name: <u>Gum</u>	
Watershed: <u>Fink Creek</u>		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC
Address: 5260 Dupont Road
Parkersburg, WV 26101
Telephone: 304-420-1119
Email: dwhite@hgenergyllc.com
Facsimile: 304-863-3172

Authorized Representative: Diane White
Address: 5260 Dupont Road
Parkersburg, WV 26101
Telephone: 304-420-1119
Email: dwhite@hgenergyllc.com
Facsimile: 304-863-3172

Oil and Gas Privacy Notice:

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

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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: 11/12/2025

Date Permit Application Filed: 11/21/2025

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Office of Oil and Gas

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

☒ CERTIFIED MAIL
RETURN RECEIPT REQUESTED

☐ HAND
DELIVERY

WV Department of
Environmental Protection

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: Amber Nicole Moyers

Address: 13421 Arrowhead Drive

Findley, OH 45840

Name: Dustin Kent James

Address: 6009 Medina Drive

Midland, TX 79707

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: West Virginia
County: Lewis
District: Freemans Creek
Quadrangle: Camden WV 7.5'
Watershed: Fink Creek

UTM NAD 83 Easting: 536197.5
Northing: 4327861.5
Public Road Access: SR10 @ SR16
Generally used farm name: Gum

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: HG Energy II Appalachia, LLC

Telephone: 304-420-1119

Email: dwhite@hgenergyllc.com

Address: 5260 Dupont Road

Parkersburg, WV 26101

Facsimile: 304-863-3172

Oil and Gas Privacy Notice:

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

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47-041-05782

**WEST VIRGINIA
DEPARTMENT OF TRANSPORTATION**

1900 Kanawha Boulevard East • Building Five • Room 109
Charleston, West Virginia 25305-0440 • (304) 558-0444

Michael J. DeMers
Deputy Secretary of Transportation

Stephen T. Rumbaugh, P.E.
Secretary of Transportation
Commissioner of Highways

December 9, 2025

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

Subject: DOH Permit for the Gum 1217 Well Pad, Lewis County
Gum 1217 N-1H Unit Site Gum 1217 N-2H Unit Site Gum 1217 N-3H Unit Site
Gum 1217 N-4H Unit Site Gum 1217 S-5H Unit Site Gum 1217 S-6H Unit Site
Gum 1217 S-7H Unit Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #07-2024-3305 which has been issued to HG Energy II Appalachia LLC for access to the State Road for a well site located off Lewis County Route 10 SLS MP 9.507.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Lacy D. Pratt
Central Office O&G Coordinator

Cc: Diane White
HG Energy II Appalachia LLC
OM, D-7
File

4704105782

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HG Energy II Appalachia, LLC
List of Frac Additives by Chemical Name and CAS #
Gum 1217 Well Pad (N-1H thru S-7H)

Chemical Name	CAS #	Multiple CAS #'s
Pro Shale Slik 405	Mixture	68551-12-2
		7647-14-5
		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
		68607-28-3
		107-21-1
		111-76-2
		67-56-1
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
		1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
BIO CLEAR 2000	Mixture	25322-68-3
		10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
		107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	

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OPERATOR: HG Energy II Appalachia, LLC WELL NO: Gum 1217 N-4H

PAD NAME: Gum 1217

REVIEWED BY: Diane White SIGNATURE: _____

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

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Well Restrictions

- ☐ At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
- ☒ DEP Waiver and Permit Conditions
- ☒ At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
- ☐ DEP Waiver and Permit Conditions
- ☒ At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
- ☐ DEP Waiver and Permit Conditions
- ☒ At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
- ☐ Surface Owner Waiver and Recorded with County Clerk, OR
- ☐ DEP Variance and Permit Conditions
- ☒ At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
- ☐ Surface Owner Waiver and Recorded with County Clerk, OR
- ☐ DEP Variance and Permit Conditions
- ☒ At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
- ☐ Surface Owner Waiver and Recorded with County Clerk, OR
- ☐ DEP Variance and Permit Conditions

01/09/2026



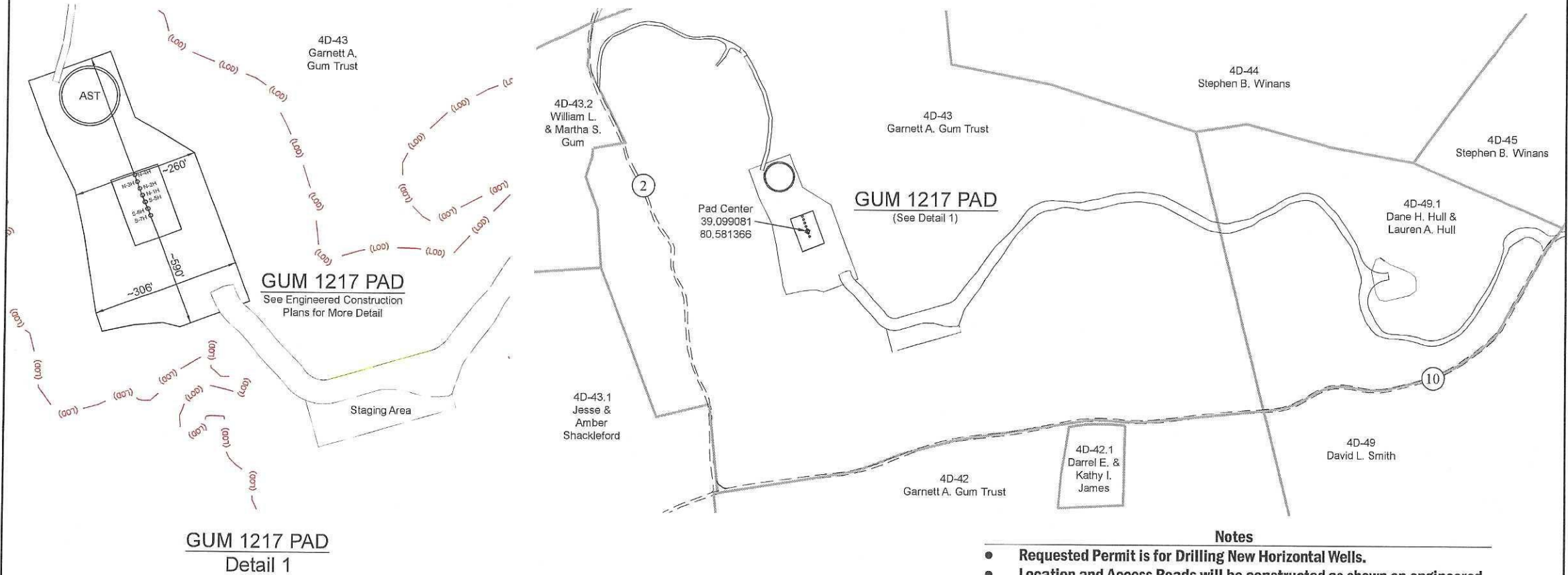
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Environmental Protection

Reclamation Plan for: GUM 1217 PAD

NOTE
Refer to the WVDEP Erosion and Sediment
Control Field Manual ver. May 2012 for BMPs
controlling erosion and sediment from
soil-disturbing operations.



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: 2025.11.17 08:59:41 -05'00'



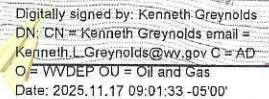
Goenett Gum Trust
TM-4D
Parcel 43
DB WB25/37

THIS DOCUMENT
PREPARED FOR
HG ENERGY LLC

Kelly Surveying
P.O. Box 204
Oakley, WV 26239
(304)338-6983

Site Plan
1217 Well Site
Freemans Creek District
Lewis County, WV

Date: 10/24/2025
Scale: As Shown
Designed By: ZS
File No.
Sheet 7 of 7



1217 Well Site
HG Energy LLC
Exhibit A: Final Design: Issue for Construction



Revisions
1
11-07-2023

Date
09-17-2024

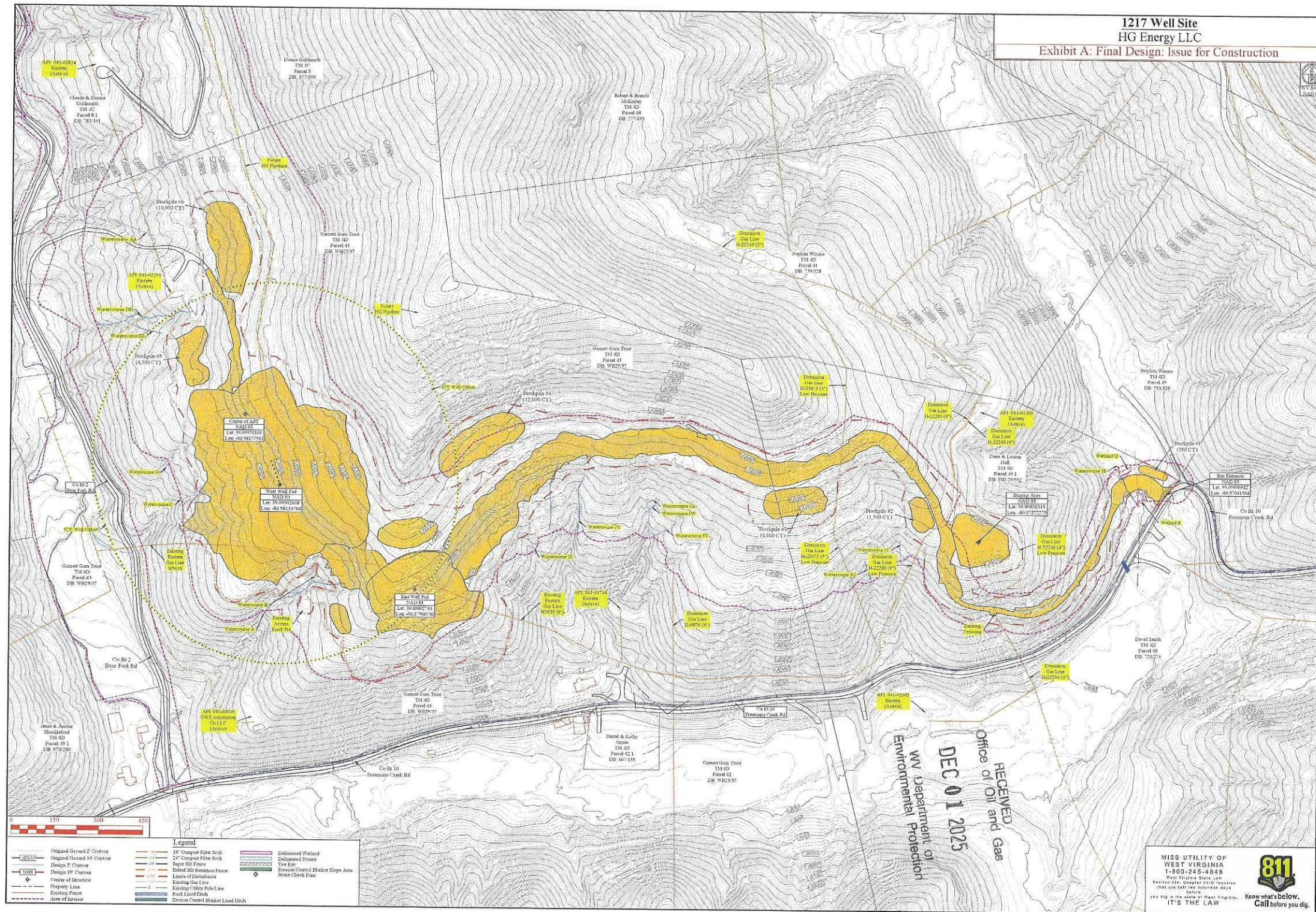


THIS DOCUMENT
PREPARED FOR
HG ENERGY LLC



Pre-Construction Site Conditions
1217 Well Site
Fremans Creek District
Lewis County, WV

Date: 09/17/2024
Scale: As Shown
Designed By: JCS
File No:
Sheet 2 of 24



MISS UTILITY OF
WEST VIRGINIA
1-800-245-4848
West Virginia State Law
Section 20C, Chapter 20-C requires
that you call one hour before
digging.
IT'S THE LAW

811
Know what's below.
Call before you dig.

4704105782

11/3/14

Wetland and Perennial Stream Waiver Request

API Number: _____

Operator's Well Number: Gum 1217 N-4HWell Operator: HG ENERGY LLCWell Number: Gum 1217 N-4HWell Pad Name: Gum 1217 WELL SITECounty, District, Quadrangle of Well Location: Lewis, Freemans Creek, Camden 7.5' USGS Quad

Answer the questions below to request a waiver from West Virginia Department of Environmental Protection for any wetlands or perennial streams which lie within one hundred feet of proposed project Limit of Disturbance (LOD), which includes any erosion and sediment control devices to be used.

This waiver shall be requested pursuant to Chapter 22 Article 6A Section 12 of West Virginia Code, which states:

§22-6A-12(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.

§22-6A-12(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.

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Wetland and Perennial Stream Waiver Request

4704105782

API Number: _____

Operator's Well Number: Gum 1217 N-4H

Answer in the space provided, or use additional pages as necessary to fully answer the questions below:

1. Describe the proposed project location, including unique identifying names of all wetlands, and the names of perennial streams for which the waiver is sought.

The proposed HG 1217 Well Site is located in Freemans Creek District, Lewis County, West Virginia, lying north of County Route 10, Freemans Creek Road, lying east of County Route 2, Bear Fork Road. The waiver request is for Wetland R and an unnamed farm pond. Wetland R is located at the site entrance on the right hand side of the access road (south side of the road) at Station 1+00 - 1+50. The unnamed farm pond is located on the backside of the well location below (south side of the road) Station 1+00 - 1+50 of the existing access road tie.

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2. Justify the proposed activity by describing alternatives to this project that were considered.

- a. Include a No-Action Alternative as to show "the future without the project"
- b. Location Alternatives must be shown
- c. Must demonstrate why a one hundred foot buffer cannot be maintained
- d. Describe how the proposed project is the least environmentally damaging practicable alternative

See Attached

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Wetland and Perennial Stream Waiver Request

4704105782

API Number: _____

Operator's Well Number: Gum 1217 N-4H

3. **Identify sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. This description should include all additional erosion and sediment control measures and devices that will be used.**

Wetland R and the existing unnamed farm pond are located downstream of the access roads only (not located downstream of the Well Pads). Wetland R will have enhanced BMPs with Belted Silt Retention Fence (BSRF) and 12" filter sock installed upstream of the wetland. All disturbed areas upstream of the wetland will be mulched and seeded as soon as final grade is achieved. The existing unnamed farm pond will have Belted Silt Retention Fence (BSRF) and 12" filter sock installed upstream of the pond. Additionally, a 15' buffer shall be maintained between the existing pond and the Limits of Disturbance (LOD). The enhanced BMPs shall extend outward from the wetland and pond for 100'.

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4. **Provide mapping, plans, specifications and design analysis for the preferred alternative to the project.**

- a. Specify in writing what additional controls, measures, devices, monitoring, etc. will be used to protect these wetlands and/or perennial streams for which the waiver is sought.

Wetland R will have enhanced BMPs with Belted Silt Retention Fence (BSRF) and 12" filter sock installed upstream of the wetland. All disturbed areas upstream of the wetland will be mulched and seeded as soon as final grade is achieved.

The existing unnamed farm pond will have Belted Silt Retention Fence (BSRF) and 12" filter sock installed upstream of the pond. Additionally, a 15' buffer shall be maintained between the existing pond and the Limits of Disturbance (LOD). All disturbed areas upstream of the wetland will be mulched and seeded as soon as final grade is achieved.

The enhanced BMPs shall extend outward from the wetland and pond for 100'.

01/09/2026

2. Justify the proposed activity by describing alternatives to this project that were considered.

- a. Include a No-Action Alternative as to show "the future without the project"
- b. Location Alternatives must be shown
- c. Must demonstrate why a one hundred foot buffer cannot be maintained
- d. Describe how the proposed project is the least environmentally damaging practicable alternative

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A. No-Action Alternative:

Wetland R is located on the south side of an existing gas well access road. If the site is not constructed, the wetland will still be adjacent to the existing gas well access road.

The existing unnamed farm pond is located on the back side of an existing vertical well (API: 041-02294). If no action is taken, the wetland will still be located within 100' of an existing vertical well.

B. Location Alternatives

The alternate access to the proposed 1217 Well Site would involve upgrading County Route 2, Bear Fork Road which would have impacted several perennial streams and wetlands along the course of upgrading the county road for site traffic. The Bear Fork Access would also include a large box culvert crossing in the existing perennial stream (of which the existing county road runs through the stream).

C. Must Demonstrate why a 100' buffer cannot be maintained.

Wetland R: Wetland R is located on the south side of the existing gas well access road. Relocating the access road to a different location would impact several other streams and/or wetlands to access the location.

Existing unnamed farm pond: The farm pond is located within 100' of the existing road that will need to remain open to access the existing vertical gas wells within the area.

D. Describe how the proposed project is the least environmentally damaging practicable alternative

The only other practicable alternative access road to the proposed site is the upgrade to County Route 2, Bear Fork Road. Upgrading the county road would involve crossing and disturbing several perennial streams and wetlands to facilitate the traffic into and out of the proposed location. By utilizing the existing gas well access road, the number of wetlands and streams impacted by the project are significantly reduced.

01/09/2026