



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 S-7H
47-041-05785-00-00

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 S-7H
Farm Name: GARNETT A. GUM
U.S. WELL NUMBER: 47-041-05785-00-00
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

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 S-7H 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: 31,995'
- 11) Proposed Horizontal Leg Length: 24,515'
- 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: _____

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Environmental Protection

WW-6B
(04/15)

4704105785
API NO. 47-
OPERATOR WELL NO. Gum 1217 S-7H
Well Pad Name: Gum 1217

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	7000'	7000' ✓	40% Excess Tail, CTS
Production	5 1/2"	NEW	P-110 HP	23	31995'	31995' ✓	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 10:55:36 -0500

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 Lead
Production	5 1/2"	8 1/2"	.415	16240		Type 1/Class A	20% excess yield = 1.15, tail yield 1.54
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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Environmental Protection

WW-6B
(10/14)

4704105785
API NO. 47- -
OPERATOR WELL NO. Gum 1217 S-7H
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 24,515' lateral length, 31,995' 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.

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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% Excess/Yield=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 VS/WOB 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 / B647 - 0.35% BWOB GasBLOC / D013 - 0.3% BWOB Retarder / D47 - 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.

4704105785

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

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


Submitted


JOSH HINTON
HG ENERGY II Appalachia, LLC

DATE

12/17/2024

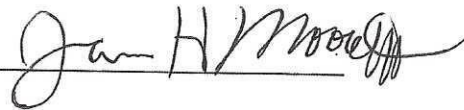
Approved


MATTHEW GORALLCZYK
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

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HG Energy II Appalachia, LLC
Gum 1217 Well Pad (N-1H to S-7H)
Cement Additives

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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Magnesium oxide	1 - 5	1309-48-4																			
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											
Ingredient name	%	CAS number																			
No hazardous ingredient																					
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																
			Calcium magnesium oxide	90 - 100	37247-91-9																
			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>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																			
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>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.												
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			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>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.
Ingredient name	%	CAS number																			
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Alkylarylsulfonate amine salt	1 - 5	Trade secret.																			
Polyoxyalkylenes	0.1 - 1	Trade secret.																			
S-5	Surfactant																				

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 S-7H
 Marcellus Shale Horizontal
 Lewis County, WV



Ground Elevation			1187'			1217 S-7H SHL			14198950.09N 1759190.64E			
Azm			160.519°			1217 S-7H LP			14198196.22N 1758819.71E			
WELLBORE DIAGRAM			160.519°			1217 S-7H BHL			14175086.59N 1766966.76E			
			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
			17.5"	13-3/8" 68# J-55 BTC	Little Lime	1707	1727	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 <i>*will also be running ACP for isolating storage zone*</i>	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
					Big Lime	1752	1832					
					Injun / Gantz (Storage)	1832 / 2102	1917 / 2160					
					Intermediate 1	0	2260					
			12.25"	9-5/8" 40# N / L-80 BTC & GBCD	Thirty Foot	2306	2321	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
					Gordon	2382	2457					
					5th Sand	2607	2632					
					Bayard	2672	2687					
					Speechley	3305	3321					
					Benson	4635	4675					
					Alexander / Elk	5145 / 5300	5214 / 5475					
					Rhinestreet	6103	6338					
					Cashaqua / W. River	6338 / 6609	6531 / 6691					
					Burkett	6691	6723	AIR / 9.0ppg SOBM				
					Tully Limestone	6723	6800					
					Intermediate 2	0	TVD: 6800' MD: 7000' Inc: 61 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 of 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	11.5ppg-12.5ppg SOBM				
					Marcellus	6870	6934					
					TMD / TVD (Production)	31995	6900					
					Onondaga	6934						
LP @ 6900' TVD / 7480' MD			8.5" Hole - Cemented Long String 5-1/2" 23# P-110 HP TXP / W461			+/-24515' ft Lateral			TD @ +/-6900' TVD +/-31995' MD			
									X=centralizers			

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

4704105785

4704105785

WW-9
(4/16)

API Number 47 - _____ - _____

Operator's Well No. Gum 1217 S-7H

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

RECEIVED
Office of Oil and Gas

DEC 01 2025

WV Department of
Environmental Protection

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy II Appalachia, LLCOP Code 494501907Watershed (HUC 10) Fink CreekQuadrangle 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: NAWill 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. SyntheticAdditives to be used in drilling medium? Water, Soap, KCl, Barite, Base Oil, Wetting AgentsDrill 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

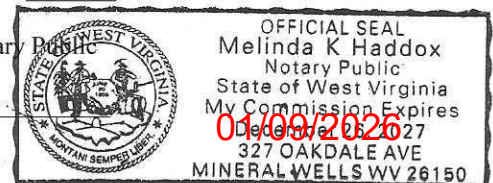
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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 WhiteCompany Official (Typed Name) Diane WhiteCompany Official Title AgentSubscribed and sworn before me this 14th day of November, 2025Melinda K Haddox

Notary Public

My commission expires December 26, 2027

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Form WW-9

Operator's Well No. Gum 1217 S-7HHG 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 10:59:22 -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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JAN 30 2025

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Environmental Protection

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DEC 01 2025

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

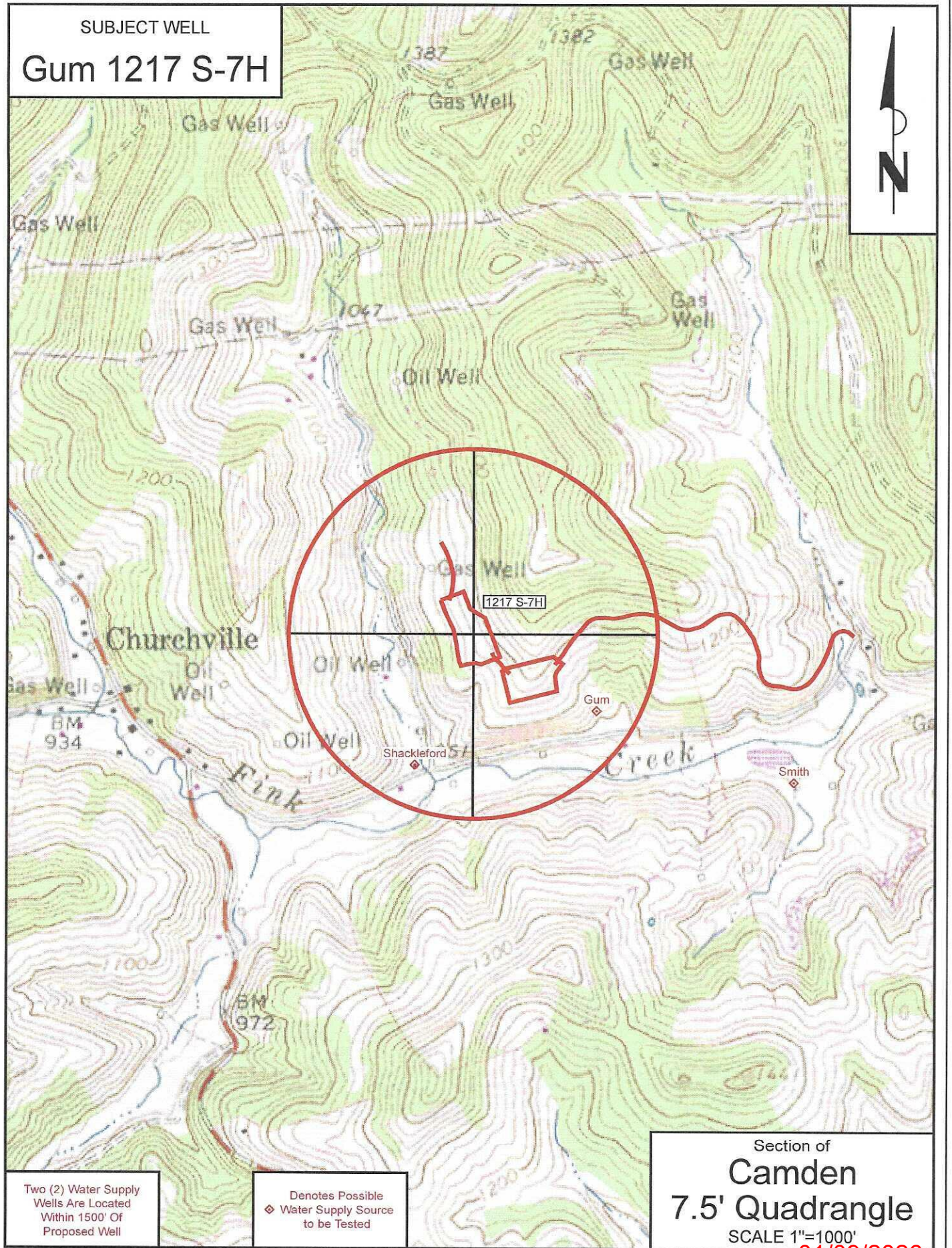
**5260 Dupont Road
Parkersburg, WV 26101**

Kenneth Greynolds
By: Kenneth Greynolds, President
HG Energy II Appalachia, LLC
Date: 11/09/2024

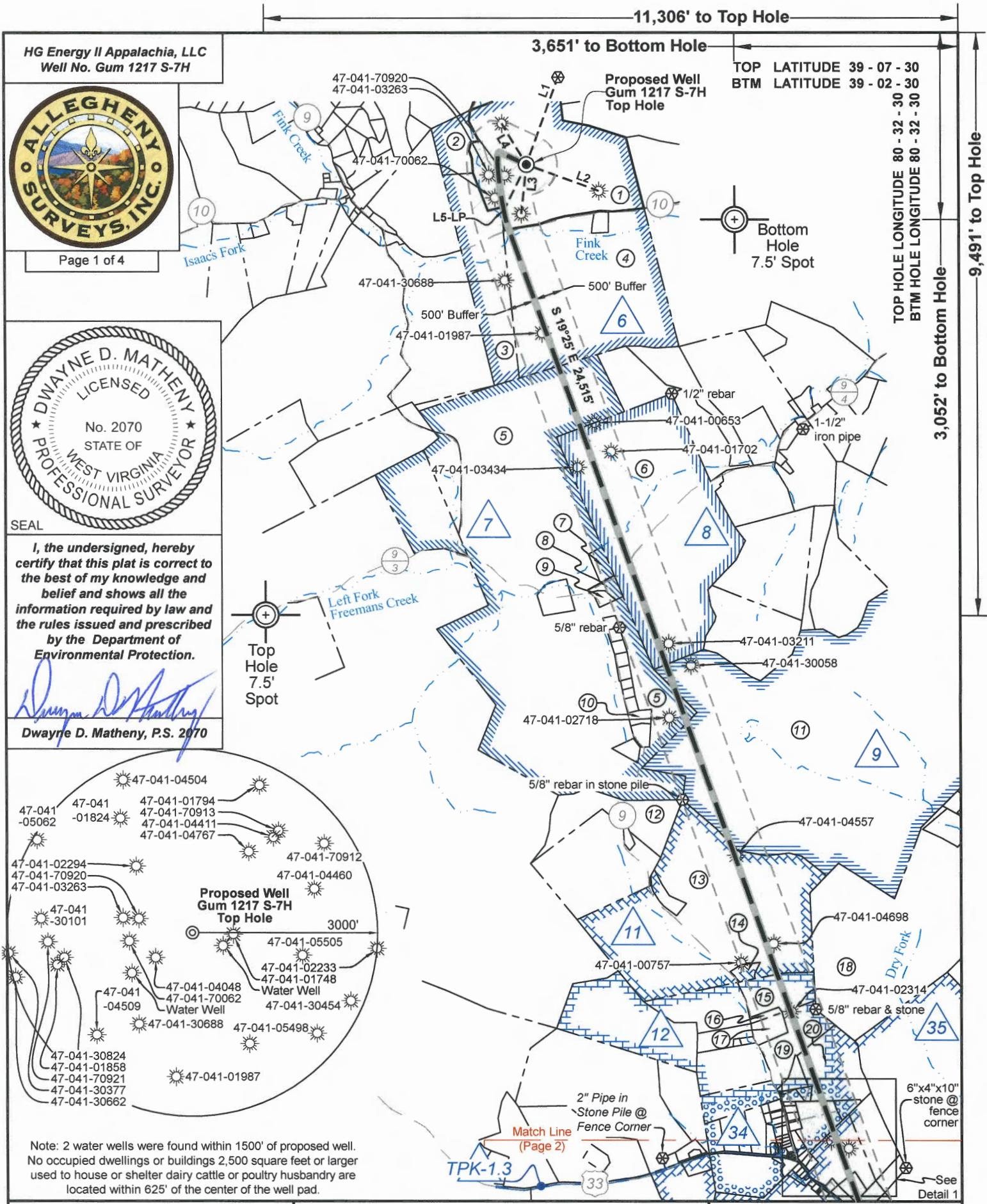
01/09/2026

SUBJECT WELL

Gum 1217 S-7H



01/09/2026



HG Energy II Appalachia, LLC
Well No. Gum 1217 S-7H

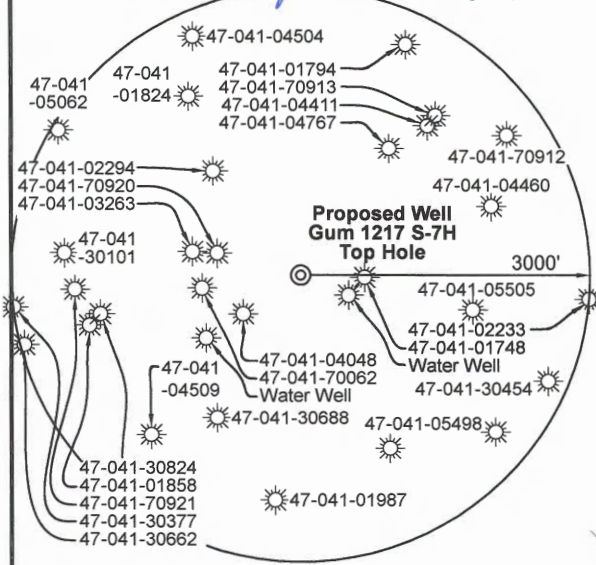
Page 1 of 4

DWAYNE D. MATHENY
LICENSED
No. 2070
STATE OF
WEST VIRGINIA
PROFESSIONAL SURVEYOR

SEAL

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Dwayne D. Matheny
Dwayne D. Matheny, P.S. 2070



Note: 2 water wells were found within 1500' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

FILE NO: 100-12-FC-21
DRAWING NO: Gum 1217 S-7H 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

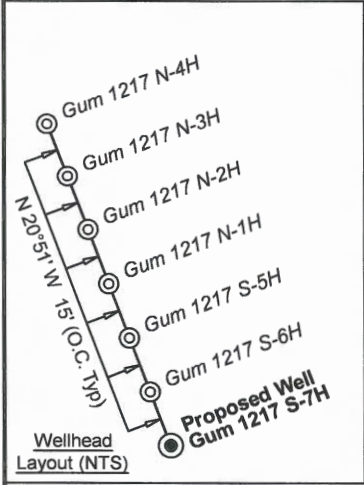
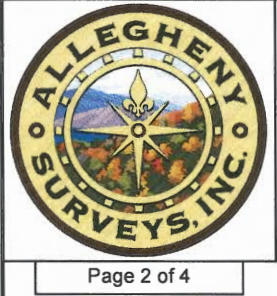
DATE: December 17 20 25
OPERATOR'S WELL NO. Gum 1217 S-7H
API WELL NO
47 - 041 - 05785
STATE COUNTY PERMIT

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 LEASE NO: ACREAGE: 305.49

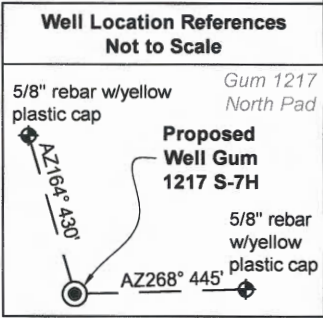
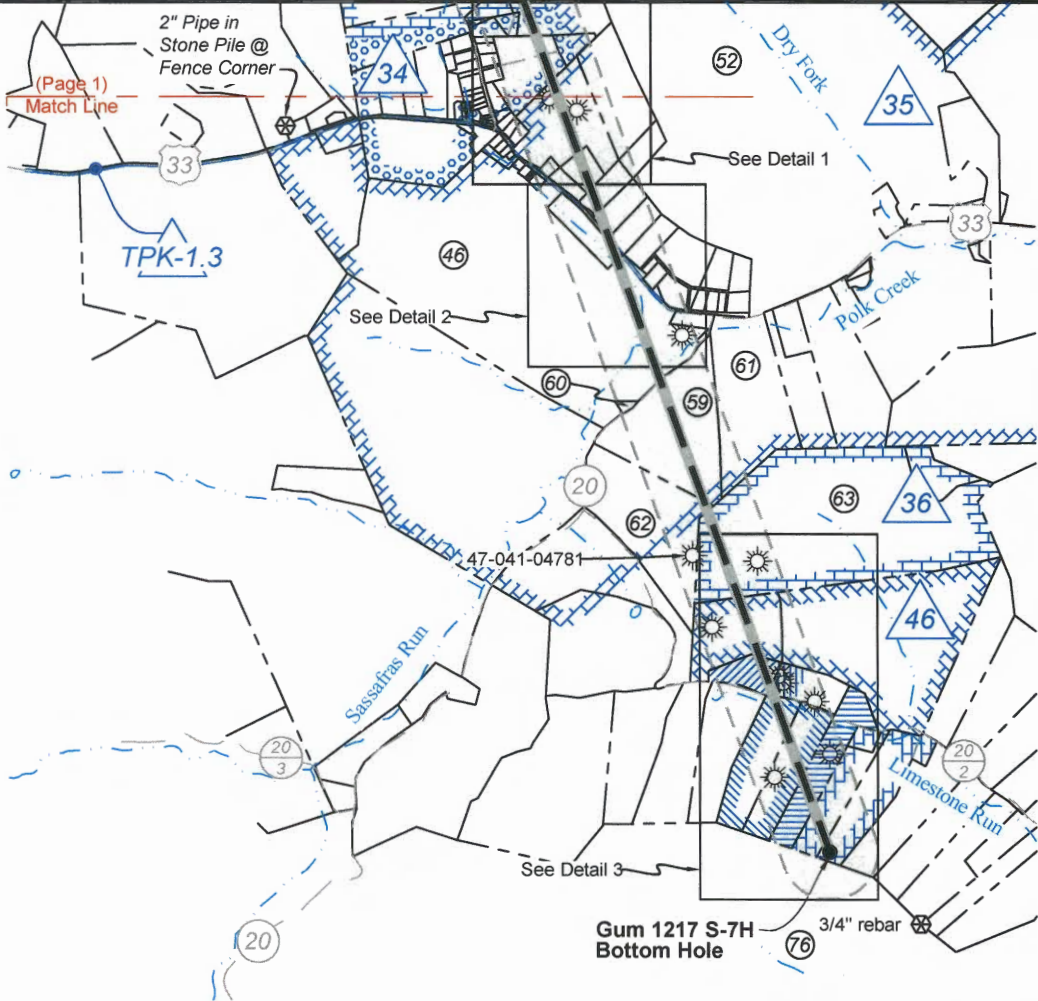
PROPOSED WORK: ☒ DRILL ☐ CONVERT ☒ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☒ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,900' TVD 31.995' MD

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



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 19°52' W	1,519.3'	4x8x12 planted stone (chisel mark)
L2	N 69°48' W	1,246.9'	47-041-01748
L3	N 06°13' E	815.4'	47-041-04048
L4	S 30°32' E	781.8'	47-041-02294
L5	S 26°12' W	840.2'	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 S-7H WVCS 1927, North Zone Top Hole Coordinates Lat: 39°05'56.15" Lon: 80°34'53.46" Landing Point Coordinates Lat: 39°05'48.71" Lon: 80°34'58.21" Bottom Hole Coordinates Lat: 39°01'59.83" Lon: 80°33'16.28"	Notes: Well No. Gum 1217 S-7H UTM NAD 1983 (USSF) Top Hole Coordinates N: 14,198,950.09' E: 1,759,190.64' Landing Point Coordinates N: 14,198,196.22' E: 1,758,819.71' Bottom Hole Coordinates N: 14,175,086.59' E: 1,766,966.76'	Notes: Well No. Gum 1217 S-7H UTM NAD 1983 (Meters) Top Hole Coordinates N: 4,327,848.643m E: 536,202.379m Landing Point Coordinates N: 4,327,618.863m E: 536,089.320m Bottom Hole Coordinates N: 4,320,575.034m E: 538,572.546m

FILE NO: 100-12-FC-21
 DRAWING NO: Gum 1217 S-7H 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 2025
 OPERATOR'S WELL NO. Gum 1217 S-7H
 API WELL NO
 47 - 041 - 05785
 STATE COUNTY PERMIT

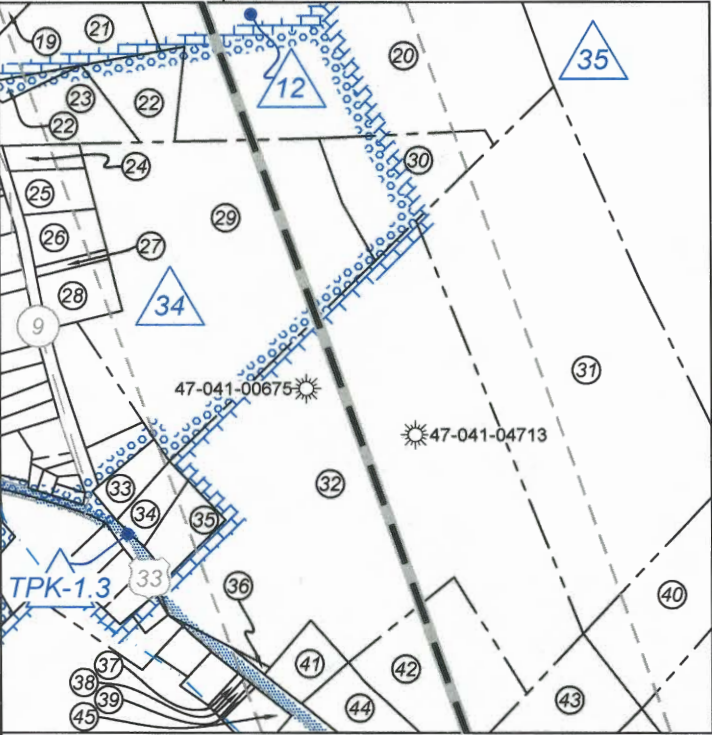
WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL
 (IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW

LOCATION: ELEVATION: 1,162.0' WATERSHED: Fink Creek
 DISTRICT: Freemans Creek
 SURFACE OWNER: Garnett A. Gum
 ROYALTY OWNER: Joseph Gum, et al 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 31,995' MD

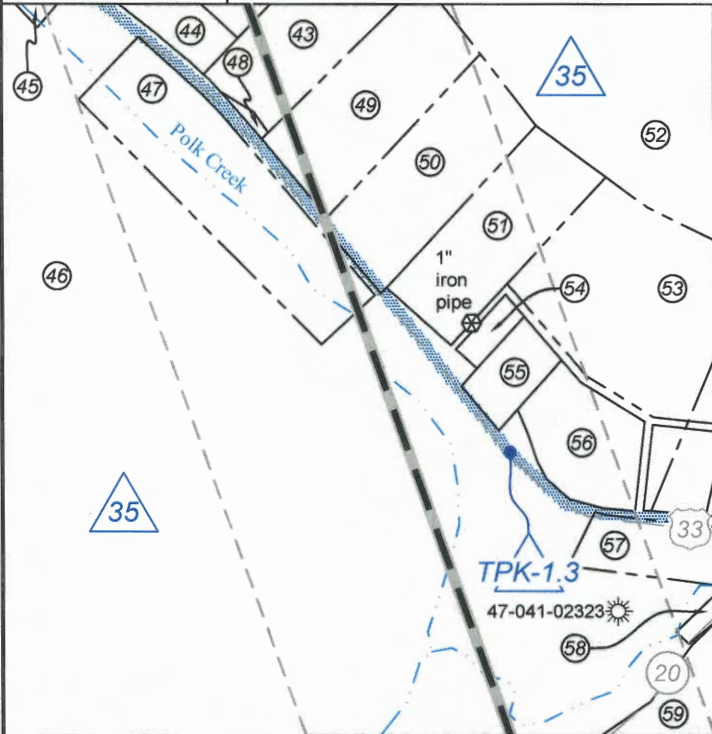
WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White
 ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road
 Parkersburg, WV 26101 Parkersburg, WV 26101



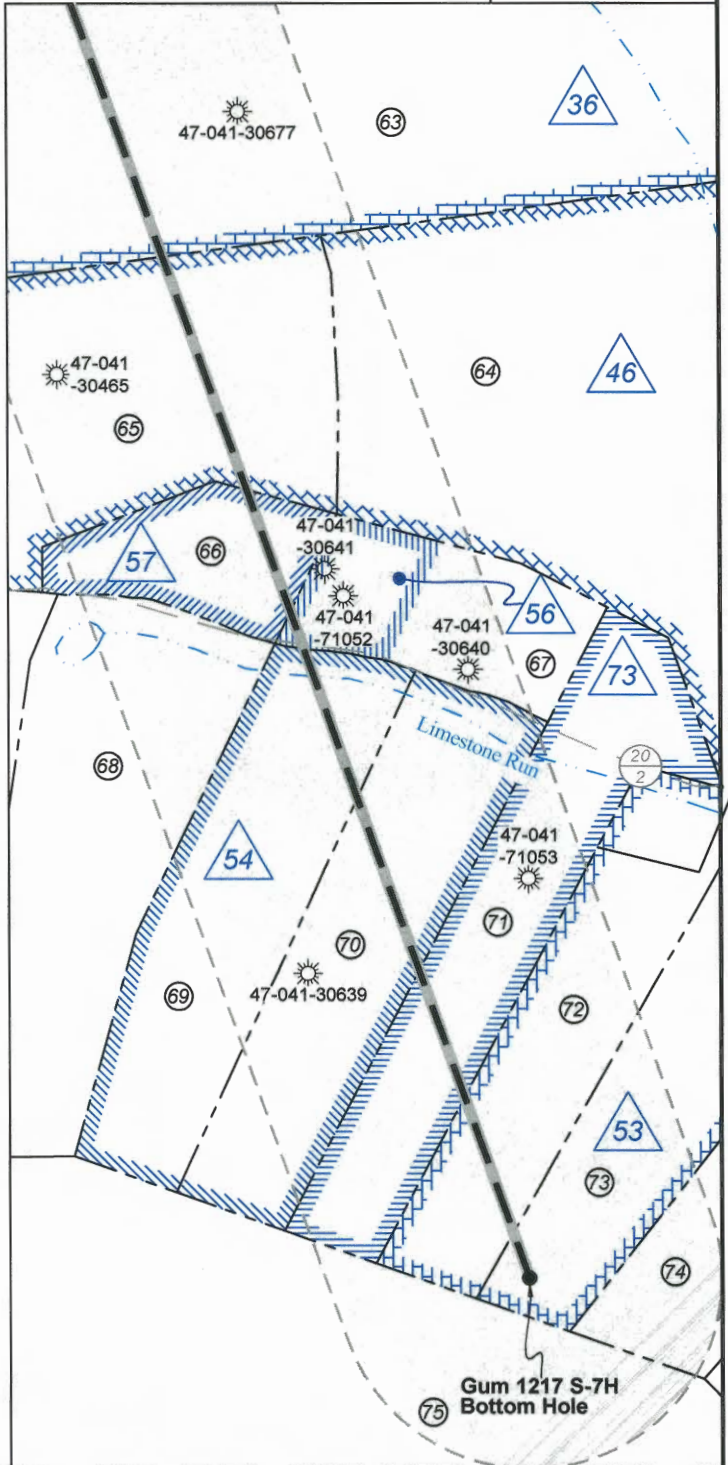
Detail 1 (Scale 1"=500')



Detail 2 (Scale 1"=500')



Detail 3 (Scale 1"=500')



FILE NO: 100-12-FC-21

DRAWING NO: Gum 1217 S-7H 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 S-7H

API WELL NO

47 - 041 - 05785
 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

LEASE NO: ACREAGE: 305.49

PROPOSED WORK: ☒ DRILL ☐ CONVERT ☒ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
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WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

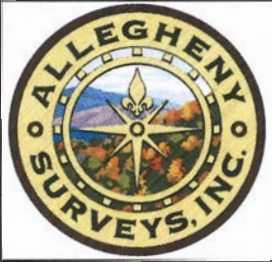
ADDRESS: 5260 Dupont Road
 Parkersburg, WV 26101

ADDRESS: 5260 Dupont Road
 Parkersburg, WV 26101

QUADRANGLE: Camden


COUNTY: 01/00/2026

ACREAGE: 101.00

HG Energy II Appalachia, LLC Well No. Gum 1217 S-7H				<table><tr><td>ID</td><td>Lease</td></tr><tr><td>6</td><td>Joseph Gum & Margaret Gum, his wife, et al</td></tr><tr><td>7</td><td>A.P. White & E.L. White, his wife</td></tr><tr><td>8</td><td>Pitt F. White & Elizabeth White, his wife</td></tr><tr><td>9</td><td>Robert T. Harrison & Sheila Harrison, his wife</td></tr><tr><td>11</td><td>Michael Eachus, single</td></tr><tr><td>12</td><td>P.E. Fetty & Lummie Fetty, his wife</td></tr><tr><td>34</td><td>F. White</td></tr><tr><td>35</td><td>S.D. Camden & Flora Camden</td></tr><tr><td>36</td><td>Norma Jaeger</td></tr><tr><td>46</td><td>Jonathan Burke Sumpter, II</td></tr><tr><td>53</td><td>Elizabeth A. Bailey</td></tr><tr><td>54</td><td>HG Energy II Appalachia, LLC</td></tr><tr><td>56</td><td>Robert A. Parker, Jr.</td></tr><tr><td>57</td><td>Beverly K. Posey, aka Beverly Posey</td></tr><tr><td>73</td><td>Mike Ross, Inc.</td></tr><tr><td>TPK-1.3</td><td>WVDOH</td></tr></table>		ID	Lease	6	Joseph Gum & Margaret Gum, his wife, et al	7	A.P. White & E.L. White, his wife	8	Pitt F. White & Elizabeth White, his wife	9	Robert T. Harrison & Sheila Harrison, his wife	11	Michael Eachus, single	12	P.E. Fetty & Lummie Fetty, his wife	34	F. White	35	S.D. Camden & Flora Camden	36	Norma Jaeger	46	Jonathan Burke Sumpter, II	53	Elizabeth A. Bailey	54	HG Energy II Appalachia, LLC	56	Robert A. Parker, Jr.	57	Beverly K. Posey, aka Beverly Posey	73	Mike Ross, Inc.	TPK-1.3	WVDOH
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Page 4 of 4																																							

Lewis Co. (Freemans Creek Dist.)				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	4D / 43	Garnett A. Gum	W11 / 74	101.00
2	4D / 43.2	William L. & Martha S. Gum	385 / 534	12.00
3	4D / 43.1	Jesse & Amber Shackelford	670 / 280	46.00
4	4D / 42	Garnett A. Gum	W11 / 74	138.25
5	4E / 19	Charles J. Miller	505 / 697	397.73
6	4D / 62	Stephen R. Ferstermann	562 / 547	172.16
7	4E / 19.15	Charles J. Miller	505 / 697	3.00
8	4E / 19.6	William E. & Brenda K. Riley	372 / 68	1.96
9	4E / 19.14	Thomas E. & Patricia A. Snyder	639 / 370	1.63
10	4E / 19.7	Geoffrey L. Harrison	725 / 150	1.79
11	5E / 1	Edwin A. & Ann K. Linger	315 / 369	412.38
12	4E / 23	Diane L. Walker, et al	W23 / 693	31.00
13	4E / 24	Lee Ann & John A. Cole, Jr.	557 / 595	165.04
14	4E / 24.1	Marjorie A. Mick & Rodney G. Burr	627 / 610	2.14
15	4E / 25	James J. & Wilma J. Montgomery	259 / 397	14.76
16	4E / 25.1	Terry Benson	637 / 648	1.50
17	4F / 53	Terry Benson	637 / 648	5.00
18	5E / 4.1	Elizabeth A. Porter, et al	W34 / 516	159.31
19	4E / 27	Darrell B. Talbott	W42 / 108	10.23
20	4F / 27	Darrell B. Talbott	W42 / 108	18.95
21	4F / 27.3	Zachary W. Woodson	735 / 42	3.70
22	4F / 28.1	Shannon K. Cunningham	F32 / 126	1.13
23	4F / 28	Sylvia E. Mallion	526 / 328	1.19
24	7 / 5	Sylvia E. Mallion	526 / 328	0.84
25	7 / 5.1	Dameon L. Wolfe	817 / 569	0.55
26	7 / 6	William T. & Joyce E. Gum	713 / 874	0.57
27	7 / 7	William T. & Joyce E. Gum	713 / 874	0.25
28	7 / 8	William T. & Joyce E. Gum	713 / 874	0.62
29	7 / 9	James H. Kemper	W34 / 544	9.55
30	4F / 27.2	James H. Kemper	W34 / 544	1.90
31	5F / 1	James H. & Carolyn L. Kemper	260 / 571	13.00
32	4F / 35	James H. & Carolyn L. Kemper	260 / 571	16.59
33	7 / 29	Charles J. Ocheltree, Jr.	617 / 669	0.43
34	7 / 30	Charles J. Ocheltree, Jr.	617 / 669	0.25
35	7 / 31	Les a L. Keith	App1 / 781	0.25
36	7 / 38	James H. & Carolyn L. Kemper	260 / 571	0.06
37	4F / 36.3	Jewell W. Carson	641 / 180	0.05
38	4F / 36.5	Jewell W. Carson	641 / 180	0.06

Lewis Co. (Freemans Creek Dist.)				
No.	TM / Par	Owner	Bk / Pg	Ac.
39	4F / 36.6	Jewell W. Carson	641 / 180	0.03
40	5F / 2	Dennis Foster (L/E), et al	W49 / 234	3.00
41	7 / 39	Connor L. & Lindsay McCormack	744 / 761	0.50
42	7 / 40	Daniel Eakle	F31 / 658	2.50
43	8 / 1	Dennis Foster (L/E), et al	W49 / 234	3.29
44	7 / 41	Daniel Eakle	F31 / 658	1.50
45	4F / 36.1	Mekanie J. Workman & Ryan P. Donahue	798 / 925	0.40
46	4F / 36	Samuel L. Garrett	502 / 510	132.03
47	4F / 36.4	Melissa K. Garrett	641 / 224	4.56
48	8 / 2	Dennis Foster (L/E), et al	W49 / 234	3.07
49	8 / 3	Brenda P. Freshour	F29 / 273	3.23
50	8 / 4	Buzzie Groah Trust, dated Oct. 17, 2024	818 / 426	3.25
51	8 / 5	Buzzie Groah Trust, dated Oct. 17, 2024	818 / 426	3.02
52	5F / 15	Joseph G. & Jason S. Davis	716 / 430	312.51
53	8 / 9	Andrew & Lisa Darby	673 / 695	8.27
54	8 / 6	Bernard F. Smith, Jr.	621 / 441	0.34
55	8 / 7	Adam & Roxanne Evans	753 / 384	0.61
56	8 / 8	Andrew & Lisa Darby	673 / 695	2.02
57	5F / 52	Samuel L. & Kathy J. Garrett	390 / 256	1.59
58	5F / 53	Kenneth L. Nicholas, Jr.	562 / 232	0.19
59	5F / 6	Catherine J. Farley, et al	659 / 511	27.86
60	5F / 51	Clavel S. & Barbara M. Queen	496 / 136	0.32
61	5F / 12	Ann Marie Riley Zirkle	W34 / 678	23.75
62	5F / 7	Catherine J. Farley, et al	659 / 511	27.86
63	5F / 1	Robin's Nest Farms, LLC	552 / 65	82.44
64	5F / 5	Robin's Nest Farms, LLC	552 / 65	54.00
65	5F / 2	Janet S. Elliott	W31 / 68	17.50
66	5F / 3	Janet S. Elliott	W31 / 68	4.38
67	5F / 4	Robert A. Parker, Jr.	790 / 824	5.63
68	5G / 1.1	Debra L. Gum	621 / 47	14.20
69	5G / 2	Nellie Wright	527 / 3	14.50
70	5G / 3	Nellie Wright	527 / 3	12.25
71	5G / 4	Nellie Wright	527 / 3	7.25
72	5G / 5	Jerene M. Sprouse	423 / 551	8.61
73	5G / 6	Jerene M. Sprouse	423 / 551	13.40
74	5G / 7	William H. & Mary L. Donaldson (L/E)	672 / 539	17.00
75	5G / 16	John L. & Connie M. Metheny	678 / 631	435.70

FILE NO: 100-12-FC-21	 <div>STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION</div>	DATE: December 17 20 25
DRAWING NO: Gum 1217 S-7H Well Plat		OPERATOR'S WELL NO. Gum 1217 S-7H
SCALE: 1" = 2000'		API WELL NO
MINIMUM DEGREE OF ACCURACY: Submeter		47 — 041 — 05785
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV		STATE COUNTY PERMIT

WELL TYPE: <input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> WASTE DISPOSAL	
(IF GAS) PRODUCTION : <input type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input checked="" type="checkbox"/> SHALLOW	
LOCATION: ELEVATION: 1,162.0'	WATERSHED: Fink Creek
DISTRICT: Freemans Creek	QUADRANGLE: Camden
SURFACE OWNER: Garnett A. Gum	COUNTY: 01/09/2026
ROYALTY OWNER: Joseph Gum, et al	ACREAGE: 101.00
PROPOSED WORK: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> CONVERT <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION	ACREAGE: 305.49
<input checked="" type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____	6,900' TVD
<input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> CLEAN OUT AND REPLUG	TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 31,995' 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
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See Attached Sheets

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

HG Energy II Appalachia, LLC
Gum 1217 S-7H Lease Chain

4704105785

1217S Tract	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
6	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	
						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	CNX053240 CNXDVO11656	03-004E-0019-0000 03-004E-0019-0002 thru 03-004E-0019-0016 03-004D-0030-0000 03-004D-0066-0000 03-004E-0028-0000		A. P. WHITE AND E. L. WHITE, HIS WIFE	RESERVE GAS COMPANY	NOT LESS THAN 1/8	68	274
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	202
				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.	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	318
				CONSOL ENERGY HOLDINGS LLC XVI	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9	471
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	659	521
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
						NOT LESS THAN 1/8	259	71
				PITT F. WHITE AND ELIZABETH WHITE, HIS WIFE	ALLEGHENY LAND AND MINERAL COMPANY	MERGER/NAME CHANGE	457	667
				ALLEGHENY LAND AND MINERAL COMPANY	ALAMCO INC	DEED	554	184
8	SWN738759-000	p/o 03-004D-0062-0000	SWN738759-000	ALAMCO INC	COLUMBIA NATURAL RESOURCES INC	MERGER/NAME CHANGE	WVSOS	
				COLUMBIA NATURAL RESOURCES INC	COLUMBIA NATURAL RESOURCES LLC	CONFIRMATORY DEED	603	285
				COLUMBIA NATURAL RESOURCES LLC	CHESAPEAKE APPALACHIA LLC	PARTIAL ASSIGNMENT (32.5%)	632	50
				CHESAPEAKE APPALACHIA LLC	STATOI LHYDRO USA ONSHORE PROPERTIES INC	MERGER/NAME CHANGE	WVSOS	
				STATOI LHYDRO USA ONSHORE PROPERTIES INC	STATOIL HYDRO USA ONSHORE PROPERTIES INC			
				STATOIL HYDRO USA ONSHORE PROPERTIES INC	STATOIL USA ONSHORE PROPERTIES INC			
				CHESAPEAKE APPALACHIA LLC AND WINTER MOON ENERGY CORPORATION	SWN PRODUCTION COMPANY LLC	ASSIGNMENT, BILL OF SALE	684	333
				CHESAPEAKE APPALACHIA LLC AND WINTER MOON ENERGY CORPORATION	SWN EXCHANGE TITLEHOLDER LLC	PARTIAL ASSIGNMENT (20%)	687	407
				STATOIL USA ONSHORE PROPERTIES INC	SWN EXCHANGE TITLEHOLDER LLC	MERGER/NAME CHANGE	9	637
				SWN EXCHANGE TITLEHOLDER LLC	SWN PRODUCTION COMPANY LLC			
				SWN PRODUCTION COMPANY LLC & EQUINOR USA ONSHORE PROPERTIES INC.	SWN PRODUCTION COMPANY LLC			
				PROPERTIES INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	818	373
				ROBERT T. HARRISON AND SHEILA HARRISON, HIS WIFE	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8	577	709
				REVA J. HARRISON, WIDOW	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8	577	704
				PERRY SCOTT KNEPPER	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8	577	820
				ALICE MAY BOOKOUT AND GARY D. BOOKOUT, HER HUSBAND	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8	577	825
				ELIZABETH ANN FIKE AND J. ROGERS FIKE, HER HUSBAND	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8	577	830
				JOHN P. HARRISON AND ANN HARRISON, HIS WIFE	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8	577	835
				SABRA LEE DONNELL, UNMARRIED	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8	578	550
				CONSTANCE W. FURIATE, WIDOW	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8	579	181

9		03-005E-0001-0000	MARGARET H. SCHREIBER (MARRIED PERSON ACTING IN HER OWN RIGHT)	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8	579	186
			SYLVIA DEBINION	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8	583	169
			JEFFREY PHILLIP WHITE, AN INDIVIDUAL DEALING IN THEIR SOLE AND SEPARATE PROPERTY	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8	585	341
			ERICA W. CLARY, MARRIED AND DEALING IN HER SOLE AND SEPARATE PROPERTY	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8	592	294
			FAITH E. ROBERTS, MARRIED AND DEALING IN HER SOLE AND SEPARATE PROPERTY	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8	595	429
			LISA G. BLACKWELL, MARRIED AND ACTING IN HER SOLE AND SEPARATE PROPERTY	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8	595	434
			LAURA K. TAYLOR, MARRIED AND ACTING IN HER SOLE AND SEPARATE PROPERTY	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8	595	439
			VATHINEE SENIVONGS WHITE, WIDOW	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8	612	491
			EVELYN H. WHITE, WIDOW	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8	613	208
			DOMINION EXPLORATION & PRODUCTION INC	DOMINION TRANSMISSION, INC.	ASSIGNMENT	651	137
			DOMINION TRANSMISSION, INC.	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	318
			CONSOL ENERGY HOLDINGS LLC XVI	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9	471
			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (50%)	659	521
			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
			NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
11		03-004E-0024-0000 03-004E-0024-0001 03-004E-0024-0002	MICHAEL EACHUS, SINGLE	EDWARD MULLOOLY	NOT LESS THAN 1/8	567	333
			FRANK HINZMAN & PATRICIA HINZMAN, HIS WIFE	EDWARD MULLOOLY	NOT LESS THAN 1/8	567	419
			WILMA LOUISA MCCLUNG, WIDOW	EDWARD MULLOOLY	NOT LESS THAN 1/8	567	545
			LOUISA STEINBECK, WIDOW	EDWARD MULLOOLY	NOT LESS THAN 1/8	568	8
			ROBERT P. HECKERT & JOYCE HECKERT, HIS WIFE	EDWARD MULLOOLY	NOT LESS THAN 1/8	570	289
			NAN HALL, WIDOW BY MARY CONNOLE, HER ATTORNEY-IN-FACT	EDWARD MULLOOLY	NOT LESS THAN 1/8	571	63
			ALVIN E. HALL, BY DOUGH HALL, HIS ATTORNEY-IN-FACT, AND SUE HALL, HIS WIFE	EDWARD MULLOOLY	NOT LESS THAN 1/8	572	187
			EDWARD MULLOOLY	PETROLEUM RESOURCES INC	ASSIGNMENT	572	485
			PETROLEUM RESOURCES INC	MBM INTERESTS INC	ASSIGNMENT	611	910
			MBM INTERESTS INC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	795	159
			THE OIL AND GAS CONSERVATION COMMISSION OF WEST VIRGINIA	HG ENERGY II APPALACHIA, LLC	REPORT AND ORDER OF THE COMMISSION	808	810
12	CNX053108	03-004E-0014-0000 03-004E-0016-0000 03-004E-0025-0000 03-004E-0025-0001 03-004E-0027-0000 03-004F-0026-0000 p/o 03-004F-0027-0000 p/o 03-004F-0027-0003 p/o 03-004F-0029-0000 03-004F-0046-0000 03-004F-0047-0000 03-004F-0048-0000 03-004F-0052-0000 03-004F-0053-0000	P. E. FETTY AND LUMMIE FETTY, HIS WIFE	THE SOUTHERN OIL COMPANY	NOT LESS THAN 1/8	40	24
			T.N. BARNSDALL, SOUTHERN OIL COMPANY, FRED S. RICH AND W.S. MOWRIS	RESERVE GAS COMPANY	ASSIGNMENT	85	106
			RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	155	202
			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.	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	318
			CONSOL ENERGY HOLDINGS LLC XVI	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9	471
			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	659	521
			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
			NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
		p/o 03-004F-0027-0000 p/o 03-004F-0027-0002 p/o 03-004F-0027-0003 03-004F-0028-0000 03-004F-0028-0001 p/o 03-004F-0029-0000 03-004F-0030-0000 03-004F-0031-0000 03-004F-0032-0000 03-004F-0033-0000 03-004F-0034-0001 03-004F-0034-0002	F. WHITE	FRED S. RICH	NOT LESS THAN 1/8	40	92
			FRED S. RICH	SOUTHERN OIL CO	ASSIGNMENT	46	189
			T.N. BARNSDALL, SOUTHERN OIL COMPANY, FRED S. RICH AND W.S. MOWRIS	RESERVE GAS COMPANY	ASSIGNMENT	85	106
			SOUTHERN OIL COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79	235

34	CNX053116	p/o 03-0007-0034-0000 03-0007-0001-0000 03-0007-0002-0000 03-0007-0002-0001 03-0007-0003-0000 03-0007-0004-0000 03-0007-0005-0000 03-0007-0005-0001 03-0007-0006-0000 03-0007-0007-0000 03-0007-0008-0000 03-0007-0009-0000 03-0007-0011-0000 03-0007-0012-0000 03-0007-0013-0000 03-0007-0014-0000 03-0007-0015-0000 03-0007-0016-0000 03-0007-0017-0000 03-0007-0018-0000 03-0007-0019-0000 03-0007-0020-0000 03-0007-0021-0000 03-0007-0022-0000 03-0007-0022-0001 03-0007-0022-0002 03-0007-0023-0000 03-0007-0024-0000 03-0007-0025-0000 03-0007-0026-0000 03-0007-0027-0000 03-0007-0028-0000 03-0007-0029-0002		RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	202
				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.	DOMINION EXPLORATION & PRODUCTION INC	ASSIGNMENT	579	161
				DOMINION TRANSMISSION, INC.	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	318
				DOMINION EXPLORATION & PRODUCTION INC, CONSOL ENERGY HOLDINGS LLC XVI, ET AL	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9	471
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	659	521
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				S. D. CAMDEN AND FLORA CAMDEN	SOUTHERN OIL COMPANY	NOT LESS THAN 1/8	40	561
				T. N. BARNSDALL AND SOUTHERN OIL COMPANY, FRED S. RICH, AND W. S. MOWRIS	RESERVE GAS COMPANY	ASSIGNMENT	85	106
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	202
				HOPE NATURAL GAS COMPANY	UNITED FUEL GAS COMPANY	ASSIGNMENT	171	18
				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.	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	318
				CONSOL ENERGY HOLDINGS LLC XVI	CNX GAS COMPANY	MERGER/NAME CHANGE	9	471
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (50%)	659	521
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
35	CNX053120	03-005E-0029-0000 etal		NORMA JAEGER	DOMINION EXPLORATION & DEVELOPMENT COMPANY	NOT LESS THAN 1/8	581	254
				JONATHAN BURK SUMPTER II	DOMINION EXPLORATION & DEVELOPMENT COMPANY	NOT LESS THAN 1/8	581	259
				RACHEL WILLIAMSON	DOMINION EXPLORATION & DEVELOPMENT COMPANY	NOT LESS THAN 1/8	582	410
				DOMINION EXPLORATION & DEVELOPMENT COMPANY	CONSOL GAS COMPANY	MERGER/NAME CHANGE	9	471
				CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9	471
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT (50%)	659	521
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				Jonathan Burke Sumpter II	HG Energy II Appalachia, LLC		800	134
						NOT LESS THAN 1/8		
				E. Leslie Hoffman III	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	809	753
				Thomas Scott Hoffman	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	801	921
				William Henry Lively, Jr.	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	799	520
				Sidney Davis Lively	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	800	247
36	L023643001 L023643002 L023643003	02-005F-0001-0000 03-005F-0059-0000 (formerly 02-005F-0001-0001)		Anne Lively Nixon	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	800	83
				Garnet Gas Corporation	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	801	354

46	HGII03374 et al	02-005F-0002-0000 02-005F-0005-0000	HGII03374 et al	Standard Land Co., LLC	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	800	132
				Karen Cather Helms	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	812	746
				Alicia Linn Lineberry	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	812	234
				Kenneth R. Kurtz	HG Energy II Appalachia, LLC	MINERAL DEED	734	399
				Laura K. Kuhns, Trustee	HG Energy II Appalachia, LLC	MINERAL DEED	734	410
				Joseph D. Gartrell	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	804	487
				EIGG Land Limited	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	803	816
				Mike Ross, Inc.	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	802	327
				Jonathan Burke Sumpter II	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	800	134
				William R. Pratt	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	806	681
				JoAnn Forrest, Dec 2001		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Elizabeth Clayton aka Sarah Elizabeth Clayton Smartwood		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Julia Taylor		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				M.C. Minshall aka Mamie Koblegard Minshall aka Mamie C. Minshall				
						Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Rupert Neis Koblegard aka R.N. Koblegard		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Eugene R. Minshall		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Christine K. Haynes		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Jared L. Zehring		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				JoAnn Forrest		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
53	HGII04901 et al	02-005G-0005-0000 02-005G-0005-0001 02-005G-0006-0000	HGII04901 et al	Elizabeth A. Bailey	HG Energy II Appalachia, LLC		815	935
						NOT LESS THAN 1/8		
				Linda Kemper Vance	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	815	939
				Dolores Townsend	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	799	952
				Barbara Shuler, aka, Barbara Jo Shuler	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	820	788
				John Clem	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	820	782
				Connie S. Riffle	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	804	444
				Jamie Breen	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	804	493
				Charles B. Clem	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	804	446
				Kimberly E. Gayheart	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	TBD	TBD
				Tammy J. Phillips	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	TBD	TBD
				Steven R. Sawyer	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	TBD	TBD
				Sherri L. Lamlein	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	TBD	TBD
				Tresa Faye Clem aka Tresa Faye James aka Tresa Faye Heckert aka Tresa Faye Wayne nka Tresa Faye Dean aka Tresa Dean aka Tresa F. Dean	HG Energy II Appalachia, LLC		TBD	TBD
						NOT LESS THAN 1/8		
				Rick Clem aka Ricky Ray Clem	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	820	464
				Donald E. Ferrell, II aka Donald Eugene Ferrell	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	820	786
				Kyle Ferrell aka Kyle Richard Ferrell	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	820	466
				Darrell K. Clem	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	806	917
				Joe Denver Posey aka Joe D. Posey aka Joe Posey	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	801	923
				Larry Darrell Posey aka Larry D. Posey aka Larry Posey	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	802	347
				Gary Delaine Posey aka Gary D. Posey aka Gary Posey	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	801	925
				Larry D. Posey	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	802	347
				Joe D. Posey	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	801	923
				Gary D. Posey	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	801	925
				Sharon Lee Bailey Jaynes	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	800	89
				Harvey R. Lowry aka Harvey Lowry	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	821	697
				Amanda J. Bowling aka Amanda Jo Bowling	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	819	96
				Jessica A. Lowry	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	819	642
				Jennifer Sue Lowry	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	819	644
				Steven C. Sager AKA Steven Craig Sager	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	820	320
				Lewis Garfield Sager, III AKA L. Garfield Sager, III AKA Lewis G. Sager, III	HG Energy II Appalachia, LLC		820	156
				Karen Ann Petrey aka Karen A. Petrey	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	818	817
				Unknown heirs of Eva Yates Butcher		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				The Estate of Agnes Rexroad Sigley, Executor E. Edward Rexroad aka Emery Rexroad		Horizontal Lease Order, Hearing Scheduled 11/03/2025		

				E. Edward Rexroad AKA Emery Rexroad		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Connie Sutphin		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Sarah Bosley, aka, Sarah J. Clem, aka, Sarah Clem; Jennifer A. Nicoski, aka, Jennifer Nicoski, POA		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Linda Gale Clem nka Linda Gale James		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Vickie Beedy, aka, Vickie L. Beedy		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Kista Ferrel aka Kista Marie Ferrell		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Roger Clem aka Roger Lee Clem, Jr.		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Braylynn M. Clem aka Braylynn Melody Lee Clem c/o Kayla Bleigh		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				The Estate of Ina M. Clem		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Betty L. Davis		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Andrea L. Nelson FKA Andrea L. Fidler		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Michael L. Fidler		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Bridgette L. Chicotel AKA Bridgette L. Fidler AKA Bridgette L. Overstreet		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Jared L. Fidler AKA Jared Gregory Lynn Fidler		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Latasha M. Lowry aka Latasha Marie Lowry		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Theresa Lou Ann Bloomfield aka Theresa L. Bloomfield		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Sara Beth Gillespie		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Sue Angela Crawford		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Robert B. Gillespie, DOD: 3/27/2020 in Boyd County, KY.		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Mildred Virginia Marlow Harvey aka Mildred Virginia Harvey		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
54	CNXFO25674	02-005G-0002-0000 02-005G-0003-0000	CNXF025674	Noble Energy Inc	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	722	293
				Estate of Willard Lee Herron, Executor Stephen Lee Herron		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Robert A. Parker, Jr.	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	806	687
				Stephen J. Cullen	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	796	892
56	HGII04093 et al	p/o 02-005F-0004-0000	HGII04093 et al	Christopher Bailey	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	809	387
				Unknown heirs and assigns of Edwin Bush		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Paul Michael Fulks		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Melody Lu Fulks Bennett		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Beverly K. Posey AKA Beverly Posey	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	820	784
				Paul Wesley Butcher	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	820	468
				Sherry Lynn Butcher	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	821	693
				Karen Marie Tyler	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	820	930
				Kevin Mark Butcher	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	820	778
				Matha D. Byrd	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	TBD	TBD
				Harold David Posey	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	821	695
				Janette L. Byrd	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	821	758
				Nancy J. Cornell	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	807	721
				William R. Lovett	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	807	717
				Darin O. Osborn and Cynthia D. Osborn, JTWROS	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	803	283
				Hard Rock Land Company, LLC	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	804	69
				Jim's Oil and Gas	HG Energy II Appalachia, LLC	Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Patricia A. Posey, Executrix, David M. Posey Estate		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Rodney L. Hawkins		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Betty J. Hawkins		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Shari Weaver aka Shari L. Weaver aka Shari Lynn Weaver		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Brenda Weaver aka Brenda K. Weaver aka Brenda Kay Weaver		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Juanita Butcher		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				William Paul Lindsay aka William P. Lindsay		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
57	HGII05542 et al	02-005F-0003-0000	HGII05542 et al	Paula Jean Leichter aka Paula Jean Lindsay aka Paula J. Lindsay		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Charles Ronald Halterman		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				John R. Cullen		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Stephen J. Cullen		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				William J. Cullen		Horizontal Lease Order, Hearing Scheduled 11/03/2025		

				Michael N. Cullen		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Christopher Cullen		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Angela Lewis		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Carol Moran AKA Margaret C. Moran		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				James Floyd Carder		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Estate of Mary Laverne Lewis, Brian T. Lewis, Executor		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Joshua Ray Halterman		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				John Joseph Halterman, II		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Patrick W. Halterman		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Travis Halterman		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Michelle Adkins NKA Michelle Pasquale		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Linda K. Halterman		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Johnny Helmick		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Keithia Helmick		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Debra A. Markey AKA Debra Ann Markey		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
				Cathy Lee Stark		Horizontal Lease Order, Hearing Scheduled 11/03/2025		
/ 73	HGII03582	02-005G-0004-0000	HGII03582	Mike Ross Inc.	HG Energy II Appalachia, LLC	NOT LESS THAN 1/8	802	349
SRC1.3		Historic Turnpike (Weston-West Union)		State of West Virginia, Department of Transportation		Horizontal Lease Order, Hearing Scheduled 11/03/2025		



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

4704.105785

RECEIVED
Office of Oil and Gas

DEC 01 2025

WV Department of
Environmental Protection

November 14, 2025

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

RE: Drilling Under Roads – Gum 1217 S-7H
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)

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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 S-7H

Address: 5260 Dupont Road
Parkersburg, WV 26101

Business Conducted: Natural gas production.

Location –

State: West Virginia County: Lewis
District: Freemans Creek Quadrangle: Camden 7.5'
UTM Coordinate NAD83 Northing: 4327848.6
UTM coordinate NAD83 Easting: 536202.4
Watershed: Fink Creek

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

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

Date of Notice Certification: 11/13/2025

API No. 47- _____ - _____

Operator's Well No. Gum 1217 S-7H

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

UTM NAD 83 Easting: 536361.7
Northing: 4327725.1
Public Road Access: SR10 @ SR16
Generally used farm name: Gum Farm

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <div style="display: flex; justify-content: space-between;"><div style="width: 45%;"><p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p><p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p><p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p><p style="margin-left: 40px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p><p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p><p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p><p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p></div><div style="width: 45%; text-align: center; vertical-align: bottom;"><p>RECEIVED Office of Oil and Gas</p><p style="font-size: 1.2em; font-weight: bold;">DEC 01 2025</p><p>WV Department of Environmental Protection</p></div></div>
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OOG OFFICE USE ONLY

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NOT REQUIRED

☐ RECEIVED

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NOT REQUIRED

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☐ 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

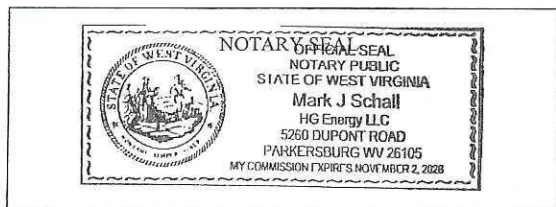
Telephone: 304-420-1119

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.

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Office of Oil and Gas

DEC 01 2025

WV Department of
Environmental Protection

01/09/2026

WW-6A
(9-13)

API NO. 47-4105785
OPERATOR WELL NO. Gum 1217 N1H to S7H
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:

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

RECEIVED
Office of Oil and Gas

DEC 01 2025

WV Department of
Environmental Protection

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

01/09/2026

DEC 01 2025

WV Department of
Environmental Protection

API NO. 47-4704105785
OPERATOR WELL NO. Gum 1217 N1H to S7H
Well Pad Name: Gum 1217

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

01/09/2026

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

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Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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WW-6A
(8-13)

API NO. 47-4704105785
OPERATOR WELL NO. Gum 1217 N1H to S7H
Well Pad Name: Gum 1217

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

Telephone: 304-420-1119

Email: dwhite@hgenergyllc.com

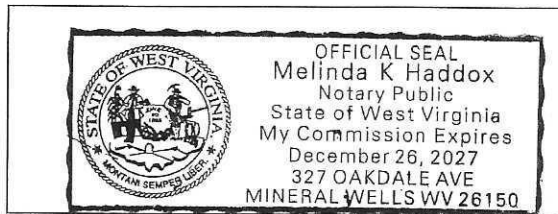
Address: 5260 Dupont Road

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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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

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DEC 01 2025

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

WV Department of
Environmental Protection

☐ HAND DELIVERY ☒ CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

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

Name: 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.

01/09/2026

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

DEC 01 2025

WV Department of
Environmental Protection

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

☒ CERTIFIED MAIL
RETURN RECEIPT REQUESTED

☐ HAND
DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

Name: 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

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01/09/2026



**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

4704105705

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Environmental Protection**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	

01/09/2026

WW-6A7
(6-12)

OPERATOR: HG Energy II Appalachia, LLC WELL NO: Gum 1217 S-7H

PAD NAME: Gum 1217

REVIEWED BY: Diane White SIGNATURE: _____

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

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

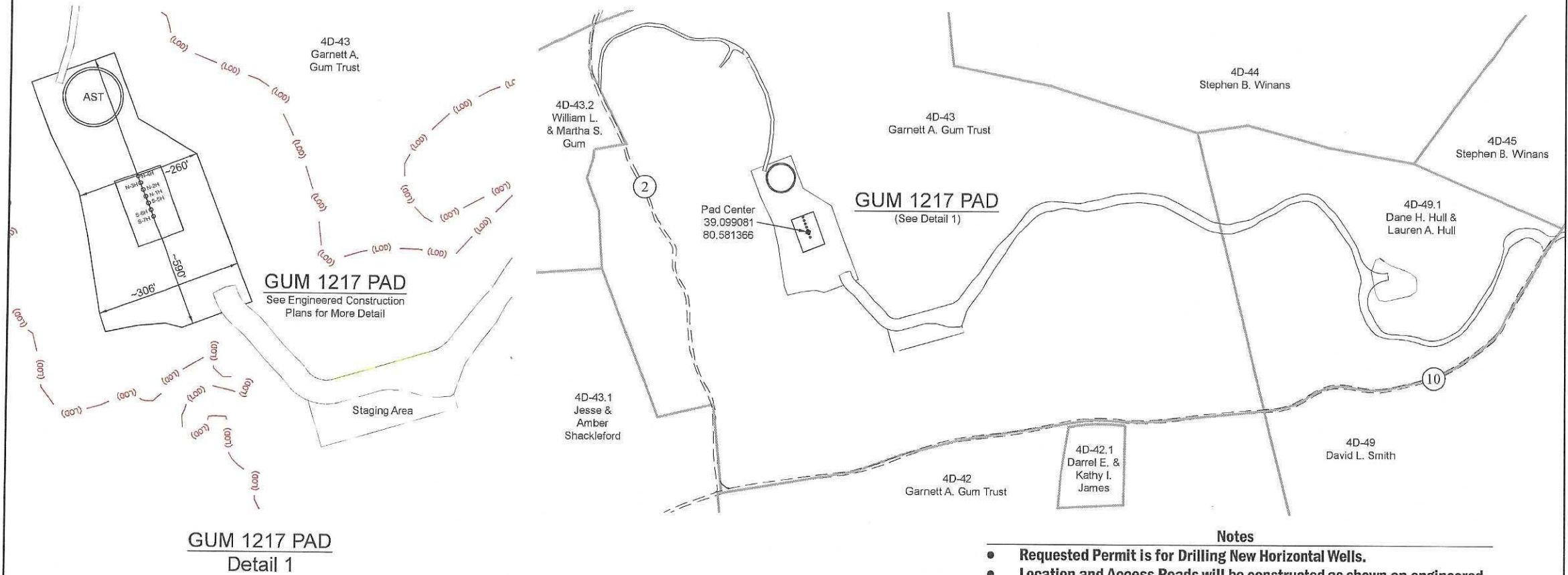
01/09/2026



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Reclamation Plan for: GUM 1217 PAD

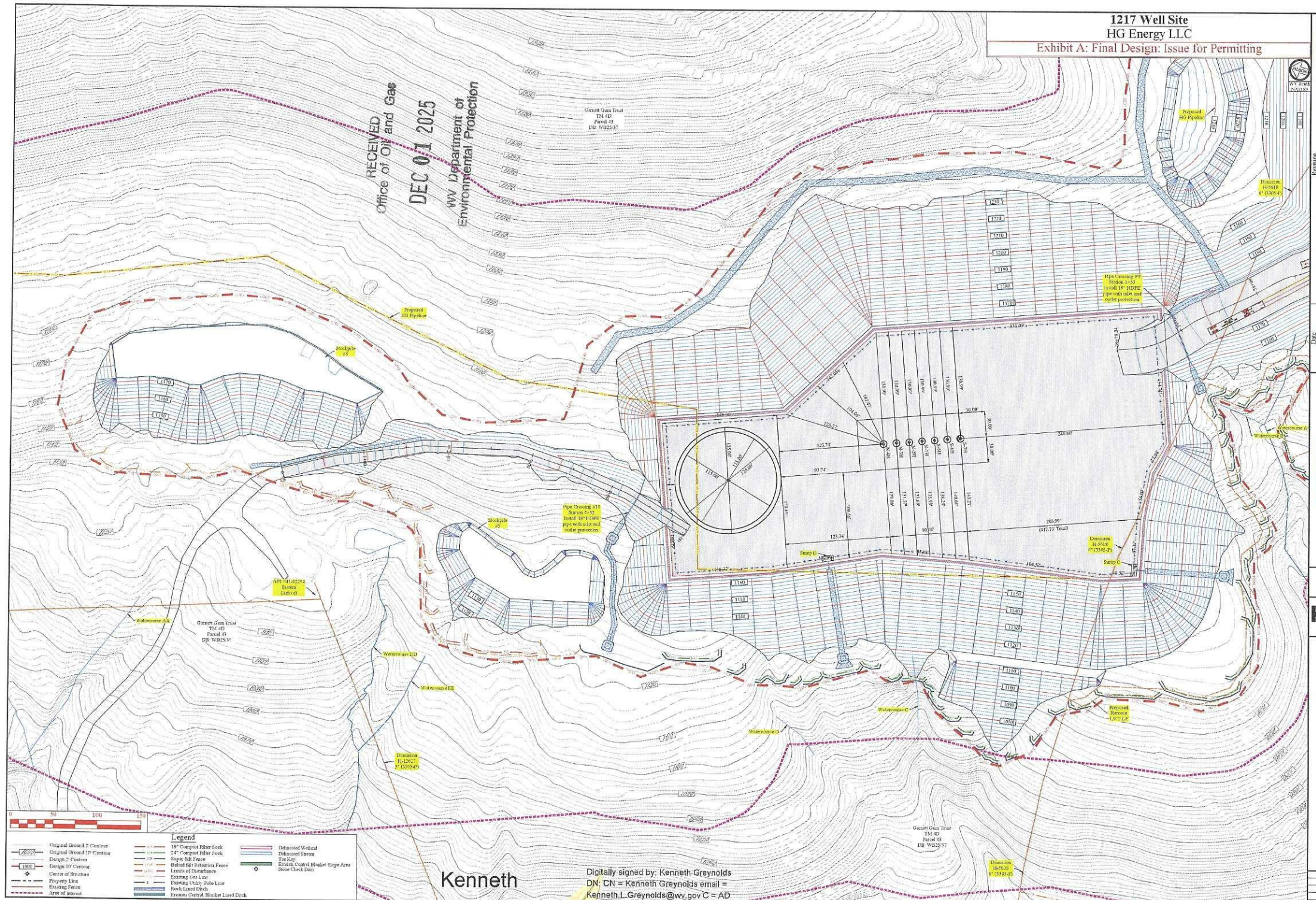
NOTE
Refer to the WVDEP Erosion and Sediment
Control Field Manual ver. May 2012 for BMPs
controlling erosion and sediment from
soil-disturbing operations.



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'

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



THIS DOCUMENT
PREPARED FOR
HG ENERGY LLC

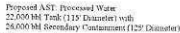
Kelly Surveying
Professional Surveyors
1000 1st Street
Martinsburg, WV 26001

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

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 09:01:33 -05'00'



Pertinent Site Information
1217 Well Site
Emergency Number: 504-269-8243
Freemans Creek District, Lewis County, WV
Watershed: Leading Creek Watershed
Site 911 Address:

HG Energy Contact Number: 304-420-1100

Property Owner Information - 1217 Well Site							
Freemans Creek District - Lewis County							
Owner	T.M. - Parcel	Well Pad	Storage	Access Road	Stockpiles	Add. Clearing	Total Disturbed
Eane Hall	4D-19.1	0.60	0.65	1.92	0.60	3.87	7.02
Garnett Grant Trust	4D-43	1.75	1.09	4.12	2.65	10.58	21.09
Site Totals (Ac)	3.38	2.62	0.01	3.25	14.45	Ad 11	

Disturbed Area		
Well Pad Construction	7.75 Acres	
Staging Area Construction	2.92 Acres	
Access Road Construction	6.94 Acres	
Stockpile Material	1.25 Acres	
Additional Access	1.00 Acres	
Total Disturbed Area	24.11 Acres	
Additional Information		
Total Wooded Acres Disturbed	16.32 Acres	
Total Linear Feet of Access Road	3,439.34'	

Access Road		
IM-1 Paved	Road Length	Type
4D-19.1	2,075.02'	East Well Pad Access Road
4D-19.1	120.40'	Staging Area Access Road
4D-19.1	1,257.92'	Well Pad Access Road
4D-19.1	289.54'	West Well Pad Access Road
4D-19.1	334.08'	Existing Well Access Road
4D-19.1	520.91'	Existing Access Road Tie

1217 Well Site - 10-24-2025 REV Design				
	Cut (CY)	Fill (CY)	Export (CY)	Import (CY)
West Well Pad	103,139.26	87,125.52	16,013.74	-
East Well Staging	19,344.87	11,944.65	7,399.22	-
Staging Area	1,397.26	417.04	980.22	-
East Access Road	20,819.25	16,547.22	4,272.03	-
Existing Road Tie	495.33	412.74	82.59	-
Stockpile #1	-	350.00	-	(350.00)
Stockpile #2	-	1,500.00	-	(1,500.00)
Stockpile #3	-	4,300.00	-	(4,300.00)
Stockpile #4	-	12,900.00	-	(12,900.00)
Stockpile #5	-	4,500.00	-	(4,500.00)
Stockpile #6	-	10,000.00	-	(10,000.00)
Stockpile #7	-	5,003.00	-	(5,003.00)
Stockpile #8	-	4,000.00	-	(4,000.00)
Total	145,194.87	158,300.17	28,747.80	(41,853.00)

Perennial Stream Impact (Linear Feet)					
Stream and Impact Cause	Conduit (LF)	Inter-Outlet Structures Fill (LF)	Slope Fill (LF)	Cost: Disturb to LOD (LF)	Total Impact (LF)
Watercourse JS (Access Road)	67.25	7.65	-	-	74.90
				Total Stream Impacts	74.90

Intermittent Stream Impact (Linear Feet)					
Stream and Impact Cause	Culvert (LF)	Inlet/Outlet Streamers Fill (LF)	Slope Fill (LF)	Const. Disturb. to LOD (LF)	Total Impact (LF)
Watercourse A (Access Road)	-	-	19.80	24.72	44.52
				Total Stream Impacts	44.52

Ephemeral Stream Impact (Linear Feet)					
Stream and Impact Cause	Odvert (LF)	Inlet/Outlet Structures Fill (LF)	Slope Fill (LF)	Coast. Disturb to LOD (LF)	Total Impact (LF)
Watercourse C (Access Road)	-	-	25.92	5.14	31.06
Total Stream Impacts					31.06

Wetland Impact (Square Feet)			
Wetland (Impact Cause)	Fill (SF)	Const. Disturb to LOD (SF)	Total Impact (SF)
Wetland Q (Access Road)	4.0	218.5	218.5
		Total Impacts	218.5
		Total Impacts (Acres)	0.005

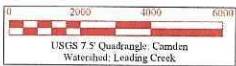
Sheet	Description
	Cover Sheet
N1-N4	Site Notes
3	Pre-Construction Site Conditions
4	Site Soil Map
5	Clearing Exhibit
40	Overall Plan View
	E&S Plan View
	Two Key Exhibit
11-14	Plan View
15-16	Cross Sections - East Pad Staging Area
17-20	Cross Sections - West Wall Pad
21-23	Cross Sections - West Pad Access Road
24	Cross Sections - Stockpiles
G1-G3	Geotechnical Exhibit
	Site Distribution Area Exhibit
S1	Site Reclamation
M1-M3	Production Exhibit
D1-D2	Frostion and Sediment Control Details
	Access Road Details
P1	Pad Details

Cover Sheet

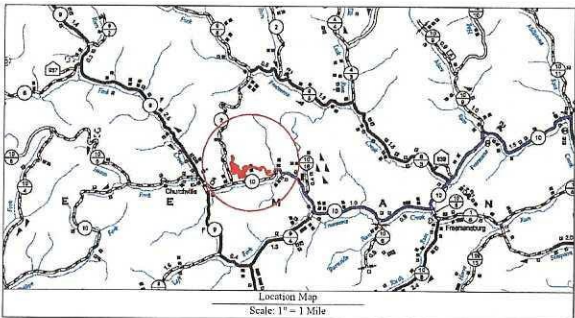
1217 Well Site

Freemans Creek District
Lewis County, WV

Date: 10/24/2023
Scale: As Shown
Designed By: ZS
File No.
Sheet 1 of 24

[illegible]

From I-79 North near Jane Lew, WV. Take Exit 105 towards Jane Lew. Turn Left onto Co Rt 7, Hackers Creek Rd. Follow Co Rt 7 for 0.9 mi. Turn Left onto US Rt 19 South, Follow US Rt 19 South for 4.9 mi. Turn Right onto Co Rt 12, Jacksons Mill Rd. Follow Co Rt 12 for 3.0 mi. Turn Left onto Co Rt 1, Old Mill Rd. Follow Co Rt 1 for 0.1 mi. Turn Right onto Co Rt 10, Valley Chapel Rd. Follow Co Rt 10 for 2.7 mi. Turn Right onto Co Rt 16, Freemans Creek Rd. Follow Co Rt 10 for 2.7 mi. The site entrance will be on the Right (North) side of the road.



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The drawings, construction notes and reference diagrams attached in accordance with the West Virginia Code of State Rules, Division Oil and Gas 25.5000.

All Plans, Sheets, and/or Reference Diagrams included in this deal a complete set of plans is necessary to construct the well in accordance with the approved plans.

Zachary C. Summerfield
RPE 22214
Kelly Surveys, PLLC
COA: 00122-00

Zachary C. Summerfield

_____ Date: 11/07/2025

[illegible][illegible]

HG Energy LLC
Jared Steple - Construction Manager
310-336-2477

HG Energy, LLC
3260 Dupont Road
Parkersburg, WV 26101
PH: 304-426-1100
Fax: 304-863-3175

Wetland Delineations as provided by Palustris Environmental
dated June 18, 2024

The topographic information shown herein is based on aerial photography by Blue Mountain Aerial Mapping, Butler, WV

**MISS UTILITY OF
WEST VIRGINIA**
1-800-245-4848
West Virginia State Law
Section XIV, Chapter 24-C requires
that you call two business days
before
you dig in the state of West Virginia.
IT'S THE LAW



Know what's below.
Call before you dig.

Kenneth Kelly
404-338-6985 Off.

Zachary Summerfield
104-138 4087 Off

Experimental

S. Burton, WV

811



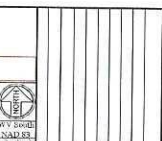
Call before.

IG Energy LLC will obtain an Encroachment Permit (Form MM-109) from the WV Department of Transportation, Division of Highways, prior to the commencement of any construction activities.

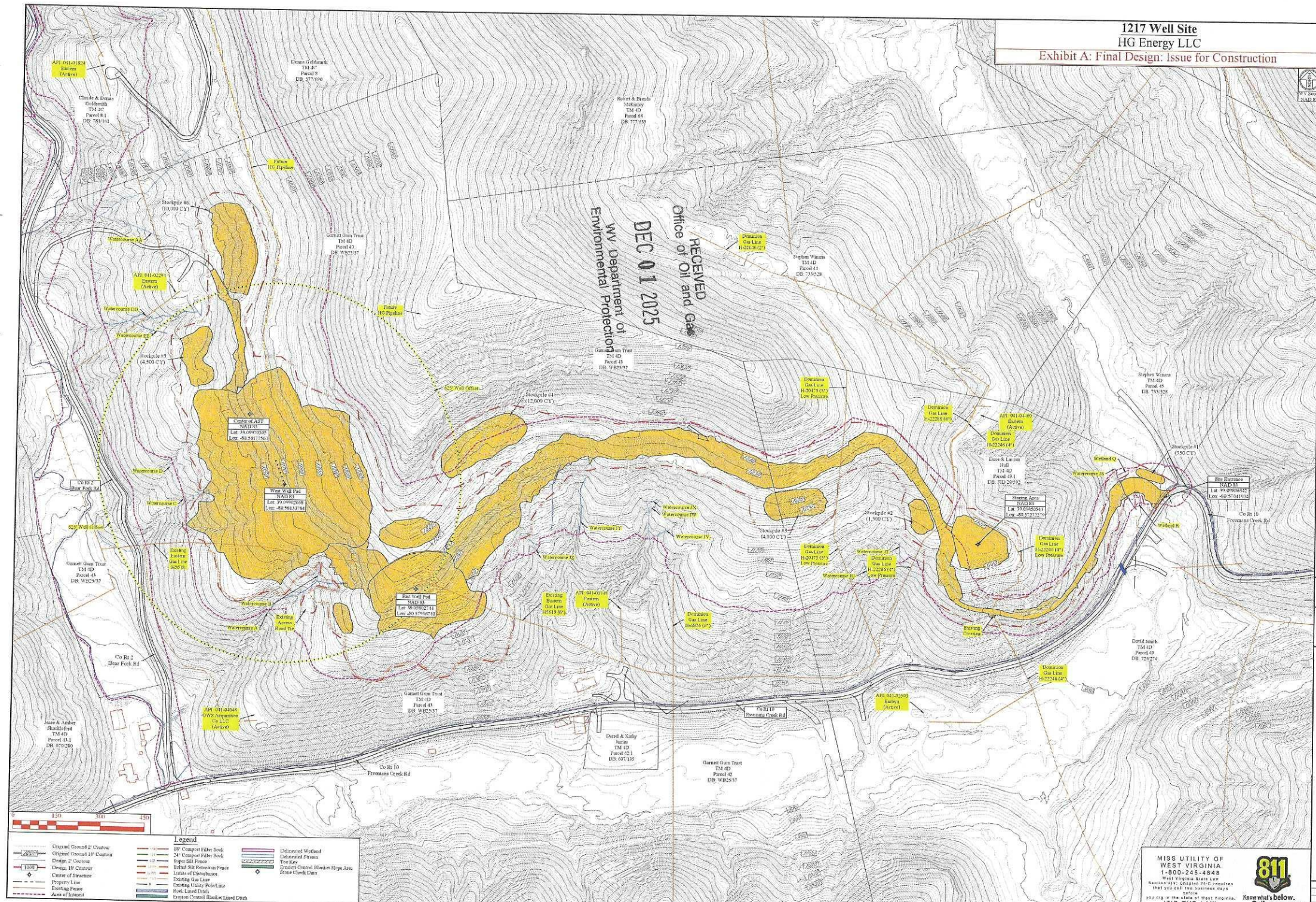
WVDEP Website files show that there are active and/or abandoned gas wells within the AOI.

Floodplain Conditions	
Do site construction activities take place in a floodplain?	NO
Permit needed from county floodplain coordinator:	NO
Flood Hazard Zone	X
HEC-RAS Study completed	N/A
Floodplain shown on drawings	N/A
FIRM Map Number for site:	54051(C) 25E
Acquisition of construction in floodplain	N/A

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



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THIS DOCUMENT
PREPARED FOR
HG ENERGY LLC



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

MISS UTILITY OF
WEST VIRGINIA
1-800-245-4848
West Virginia State Line
Section 11E, Chapter 24C, Paragraphs
1101-1104 and 1105-1108
1109-1110 in the State of West Virginia
IT'S THE LAW



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

4704105785

11/3/14

Wetland and Perennial Stream Waiver Request

API Number:

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

Well Operator: HG ENERGY LLC

Well Number: Gum 1217 N-4H

Well Pad Name: Gum 1217 WELL SITE

County, 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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01/09/2026

11/3/14

Wetland and Perennial Stream Waiver Request

4704105785

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

01/09/2026

11/3/14

Wetland and Perennial Stream Waiver Request

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.