



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, March 3, 2025
WELL WORK PERMIT
Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC
5260 DUPONT ROAD


PARKERSBURG, WV 26101

Re: Permit approval for GUM 1217 N-4H
47-041-05773-00-00

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

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

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


James A. Martin
Chief

Operator's Well Number: GUM 1217 N-4H
Farm Name: GARRETT A. GUM
U.S. WELL NUMBER: 47-041-05773-00-00
Horizontal 6A: New Drill
Date Issued: 3/3/2025

Promoting a healthy environment.

03/07/2025

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.

03/07/2025

WW-6B
(04/15)

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Office of Oil and Gas

JAN 30 2025

WV Department of
Environmental Protection

4704105773

API NO. 47-

OPERATOR WELL NO. Gum 1217 N-4H /

Well Pad Name: Gum 1217

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

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

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

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

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

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

(b) If Gas Shallow x Deep _____
Horizontal x

6) Existing Pad: Yes or No No

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

8) Proposed Total Vertical Depth: 6,900'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 28,972'

11) Proposed Horizontal Leg Length: 21,389'

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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API NO. 47-

OPERATOR WELL NO. Gum 1217 N-4H

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	5800'	5800' /	40% Excess Tail, CTS
Production	5 1/2"	NEW	P-110 HP	23	28972'	28972' /	20% Excess Tail, CTS
Tubing							
Liners							

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	12500	Type 1/Class A	20% excess yield = 1.18, tail yield 1.04
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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Environmental Protection

WW-6B
(04/15)

API NO. 47- _____
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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: 2025.01.23 14:10:22 -0500

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PACKERS

Kind:				
Sizes:				
Depths Set:				

WW-6B
(10/14)

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Environmental Protection

API NO. 47-**4704105773**

OPERATOR WELL NO. Gum 1217 N-4H

Well Pad Name: Gum 1217

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

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 6900'. Drill horizontal leg to estimated 21,389' lateral length, 28,972' TMD. Hydraulically fracture, stimulate and be capable of producing from the Marcellus Formation. Should we encounter an unanticipated void in the coal, we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface. We plan to run an ACP above the Gantz/Dominion Storage interval to aid in sealing off and isolating the storage interval.

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

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

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

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

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing.
Freshwater/Coal - centralized every 3 joints to surface.
Intermediate 1 - Bow Spring on every joint, will also be running ACP for isolating storage zone
Intermediate 2 - Bow Spring on first 2 joints then every third joint to 100' from surface.
Production - Vertical - Run 1 spiral centralizer every 5 joints from the top of the curve to surface, Curve - Run 1 spiral centralizer every 3 joints from the 1st 5.5" long joint to the top of the curve.

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

Conductor -N/A, Casing to be drilled in w/ Dual Rotary Rig.
Fresh Water/Coal - "15.6 ppg PNE-1 + 3% bwoc CaCl40% ExcessYield=1.20 / CTS"
Intermediate 1 - "" Storage String "" CTS ""15.4 ppg Lead - Yield 1.24 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)B348 - 0.5% BWOB Fluid Loss / D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / sack VBWOB Anti Foam / D202 - 0.15% BWOB Dispersant / D095 1.5 lb per BBL CemNET* - 60% Excess15.9 ppg Tail - Yield 1.17 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)B160A - 0.15% BWOB Dispersant / B547 - 0.35% BWOB GasBLOK / D013 - 0.3% BWOB Retarder / D047 - 0.02 gal / sack Anti Foam / D601 - 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.

JAN 30 2025

WV Department of
Environmental Protection

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 border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <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> </tbody> </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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Bentonite	Extender	Commonly called gel, it is a clay material used as a cement extender and to control excessive free water.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <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> </tbody> </table>	Ingredient name	%	CAS number	bentonite	90 - 100	1302-78-9	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7									
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Calcium Chloride	Accelerator	A powdered, flaked or pelletized material used to decrease thickening time and increase the rate of strength development	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Calcium chloride</td> <td>90 - 100</td> <td>10043-52-4</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Calcium chloride	90 - 100	10043-52-4												
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Cello Flake	Lost Circulation	Graded (3/8 to 3/4 inch) cellophane flakes used as a lost circulation material.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>No hazardous ingredient</td> <td></td> <td></td> </tr> </tbody> </table>	Ingredient name	%	CAS number	No hazardous ingredient														
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FP-13L	Foam Preventer	FP-13L is a clear liquid organic phosphate antifoaming agent used in cementing operations. It is very effective minimizing air entrapment and preventing foaming tendencies of latex systems.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Tributyl phosphate</td> <td>90 - 100</td> <td>126-73-8</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Tributyl phosphate	90 - 100	126-73-8												
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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 border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Sucrose</td> <td>90 - 100</td> <td>57-50-1</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Sucrose	90 - 100	57-50-1												
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MPA-170	Gas Migration	Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>No hazardous ingredient</td> <td></td> <td></td> </tr> </tbody> </table>	Ingredient name	%	CAS number	No hazardous ingredient														
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Poz (Fly Ash)	Base	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 border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <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> </tbody> </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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R-3	Retarder	A low temperature retarder used in a wide range of slurry formulations to extend the slurry thickening time.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Organic acid salt</td> <td>40 - 50</td> <td>Trade secret.</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Organic acid salt	40 - 50	Trade secret.												
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S-5	Surfactant	Used to water wet casing and formation to facilitate cement bonding.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <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> </tbody> </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.	Polyoxyalkylenes	0.1 - 1	Trade secret.
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03/07/2025

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

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

1217 N-4H
 Marcellus Shale Horizontal
 Lewis County, WV



Environmental Protection
 W / L / P / S / T / R / O / N
 JAN 30 2025

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Ground Elevation		1217 N-4H SHL					14198992.12N 1759174.63E					
Azm		1217 N-4H LP					14199233.53N 1758453.89E					
WELLBORE DIAGRAM		1217 N-4H BHL					14219394.66N 1751340.06E					
		HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS	
	30"	30" 157.5# LS	Conductor	0	120		AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5" wall thickness	
	26"	20" 94# J-55	Coal	506, 747, 1047			AIR	15.6 ppg PNE-1 + 3% bwoc CaCl 40% Excess Yield=1.20 / CTS	Centralized every 3 joints to surface	Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.	Surface casing = 0.438" wall thickness Burst=2110 psi	
			Fresh Water Protection	0	1150							
	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	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	Bow Spring on first 2 joints then every third joint to 100' form surface	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
			Gordon	2382	2457							
			5th Sand	2607	2632							
			Bayard	2672	2687							
			Speechley	3305	3321							
			Benson	4635	4675							
			Alexander / Elk	5145 / 5300	5214 / 5475							
	Intermediate 2	0		TVD: 5650' MD: 5800' Inc: 25 deg.								
8.75"	5-1/2" 23# P-110 HP TXP / W461						AIR / 9.0ppg 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.	Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.	Production casing = 0.415" wall thickness Burst=16240 psi Note: Actual centralizer schedules may be changed due to hole conditions	
8.5" Curve		Rhinestreet	6103	6338			11.5ppg-12.5ppg SOBM					
		Cashaqua	6338	6531								
		Middlesex	6531	6609								
		West River	6609	6691								
		Burkett	6691	6723								
		Tully Limestone	6723	6800								
		Hamilton	6800	6870								
		Marcellus	6870	6934								
8.5" Lateral		TMD / TVD (Production)	28972	6900			11.5ppg-12.5ppg SOBM					
	Onondaga	6934										

LP @ 6900' TVD / 7583' MD
 8.5" Hole - Cemented Long String
 5-1/2" 23# P-110 HP TXP / W461
 +/-21389' ft Lateral
 TD @ +/-6900' TVD +/-28972' MD

X=centralizers

JAN 30 2025

WV Department of
Environmental Protection

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
MATTHEW GORALLCZYK
BHE GT&S

DATE 12/17/2024

Approved Jan H. Moore
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

WW-9
(4/16)

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Office of Oil and Gas

JAN 30 2025

WV Department of
Environmental Protection

API Number 47- 4704105773

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

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy II Appalachia, LLC OP Code 494501907

Watershed (HUC 10) Fink Creek Quadrangle Camden 7.5'

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: NA

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

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

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

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

-Landfill or offsite name/permit number? See Attached

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

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

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

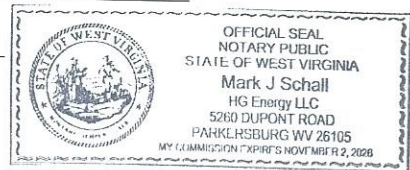
Company Official Signature Diane White

Company Official (Typed Name) Diane White

Company Official Title Agent

Subscribed and sworn before me this 17th day of January, 2025
[Signature] Notary Public

My commission expires 11/2/2026



03/07/2025

JAN 30 2025

WV Department of
Environmental Protection

Form WW-9

HG Energy II Appalachia, LLC

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

Proposed Revegetation Treatment: Acres Disturbed 30.31 Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
Tall Fescue	<u>40</u>
Ladino Clover	<u>5</u>

Seed Type	lbs/acre
Tall Fescue	<u>40</u>
Ladino Clover	<u>5</u>

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 G = WVDEP OU = Oil and Gas
Date: 2025.01.23 14:58:59 -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

HG Energy II Appalachia, LLC

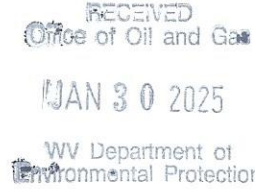
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Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay 2 Tons/acre



Seed Mixtures

Temporary		Permanent	
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.

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Upgrade E&S if needed per WV DEP E&S manual.

Title: DEP State Oil & Gas Inspector

Date:

Field Reviewed? () Yes () No

HG Energy II Appalachia, LLC

Site Safety Plan

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Office of Oil and Gas

JAN 30 2025

WV Department of
Environmental Protection

**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

4704105773

RECEIVED
Office of Oil and Gas

JAN 30 2025

WV Department of
Environmental Protection

HG Energy II Appalachia, LLC

Site Safety Plan

**Gum 1217 Well Pad
2686 Freemans Creek Road, Camden
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5260 Dupont Road

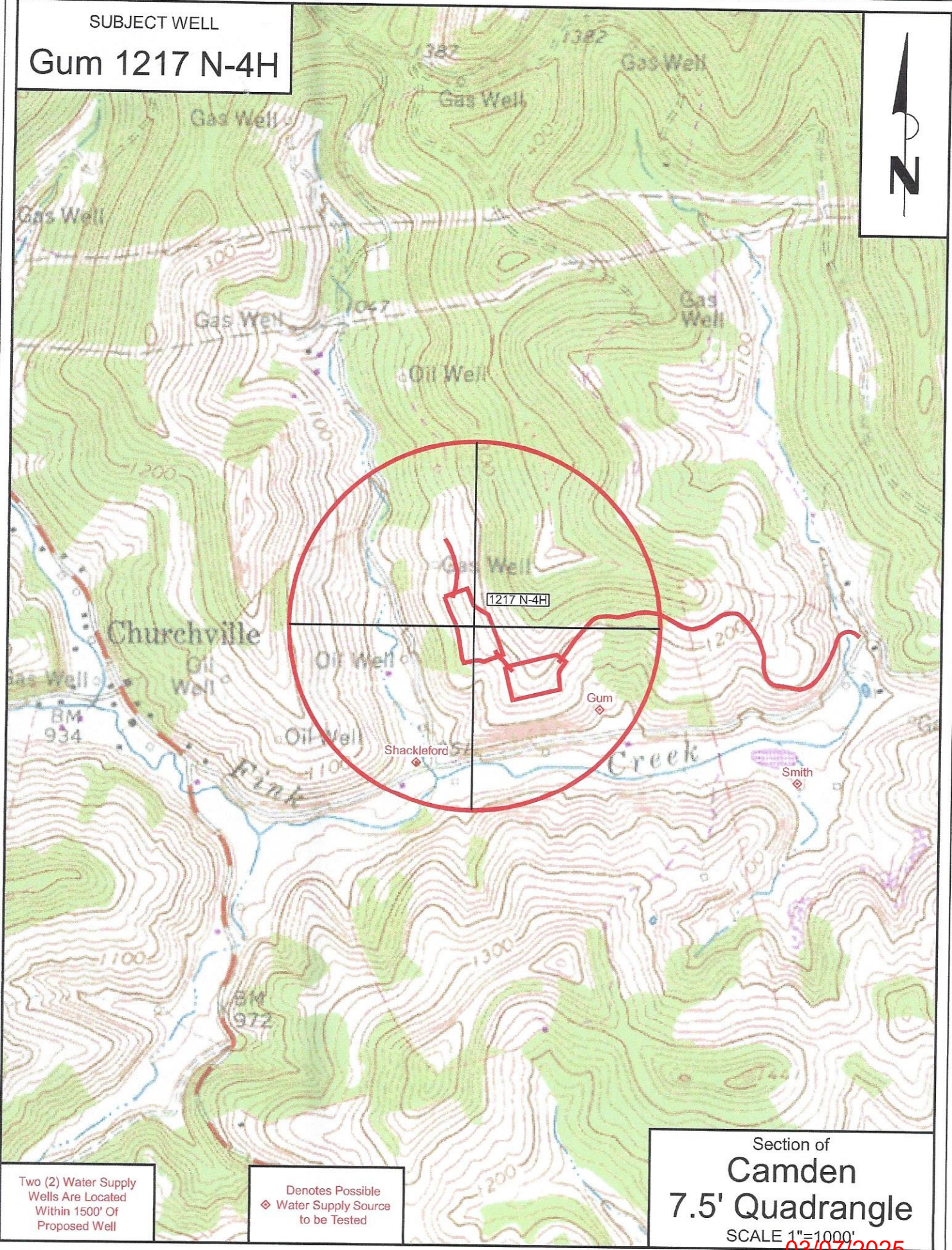
Parkersburg, WV 26101

Kenneth Greynolds
Digitally signed by Kenneth Greynolds
DN: cn = Kenneth Greynolds email = Kenneth.L.
Greynolds@wv.gov, c = AD O = WDEP OU = OI and
OU =
Date: 2025.01.23 14:11:15 -0500

03/07/2025

SUBJECT WELL

Gum 1217 N-4H



Two (2) Water Supply Wells Are Located Within 1500' Of Proposed Well

Denotes Possible Water Supply Source to be Tested

Section of Camden 7.5' Quadrangle

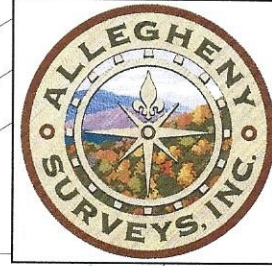
SCALE 1"=1000'

03/07/2025

11,322' to Top Hole

7,241' to Bottom Hole

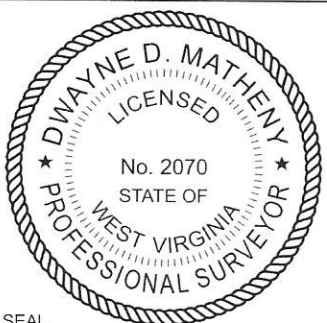
TOP LATITUDE 39 - 07 - 30
BTM LATITUDE 39 - 10 - 00



TOP HOLE LONGITUDE 80 - 32 - 30
BTM HOLE LONGITUDE 80 - 35 - 00

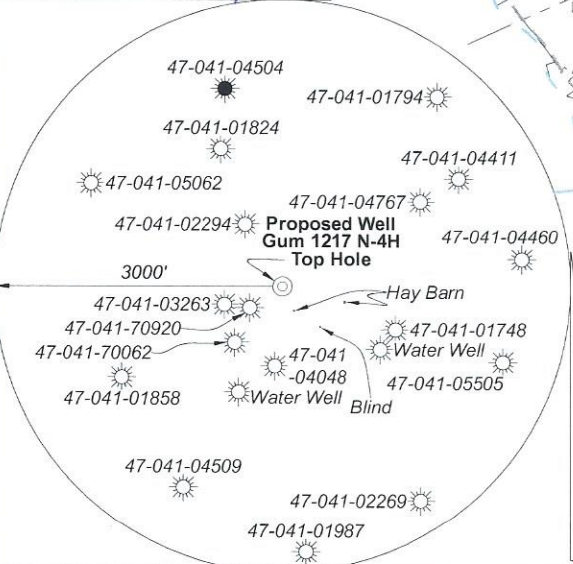
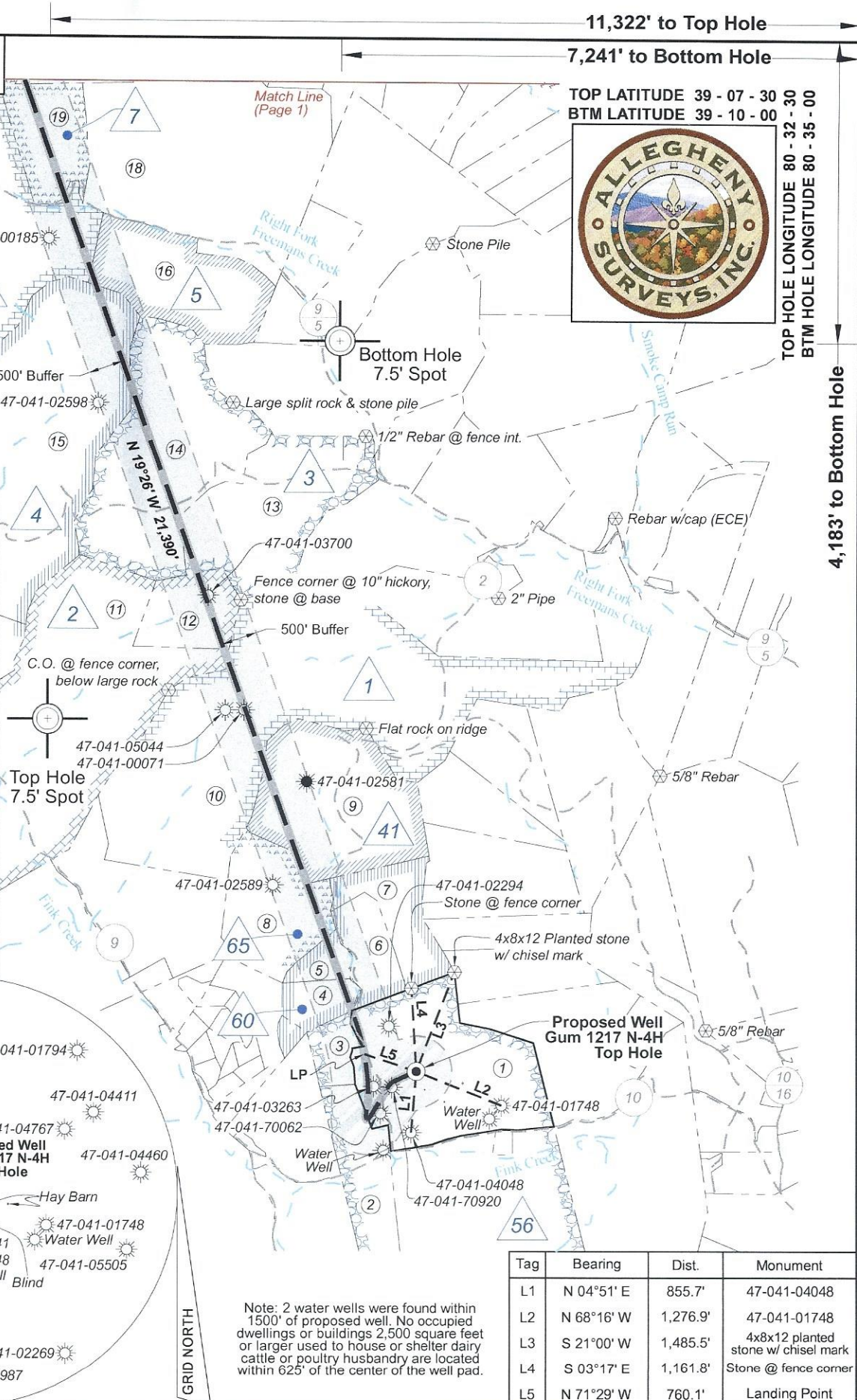
9,449' to Top Hole

4,183' to Bottom Hole



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



Tag	Bearing	Dist.	Monument
L1	N 04°51' E	855.7'	47-041-04048
L2	N 68°16' W	1,276.9'	47-041-01748
L3	S 21°00' W	1,485.5'	4x8x12 planted stone w/ chisel mark
L4	S 03°17' E	1,161.8'	Stone @ fence corner
L5	N 71°29' W	760.1'	Landing Point

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 N-4H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

DATE: February 5 20 25
OPERATOR'S WELL NO. Gum 1217 N-4H
API WELL NO
47 - 041 - 05773
STATE COUNTY PERMIT

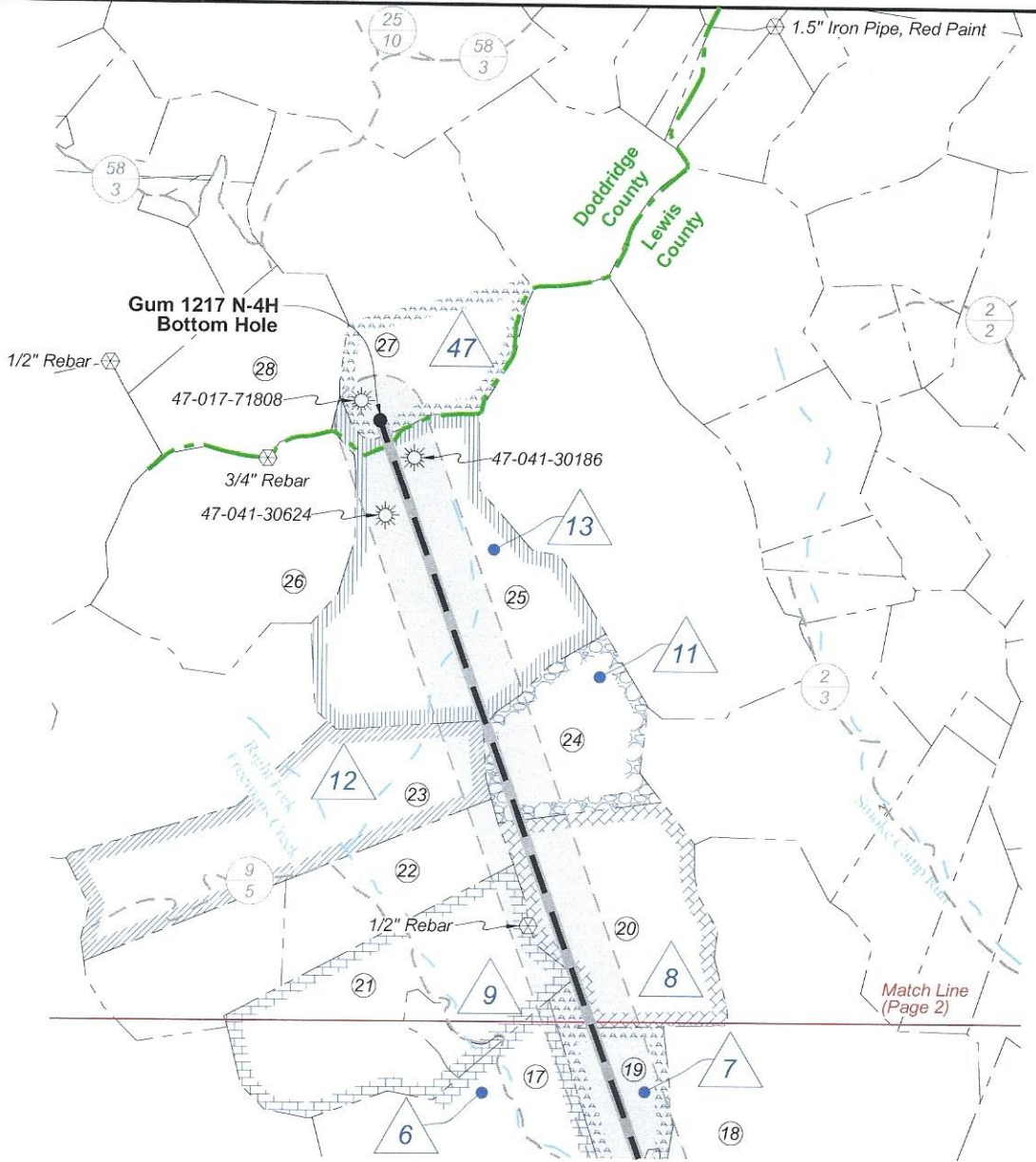
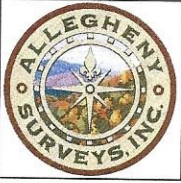
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1,162.0' WATERSHED: Fink Creek
DISTRICT: Freemans Creek / Greenbrier / New Milton
SURFACE OWNER: Garrett A. Gum
ROYALTY OWNER: Joseph Gum, et al LEASE NO: ACREAGE: 305.49

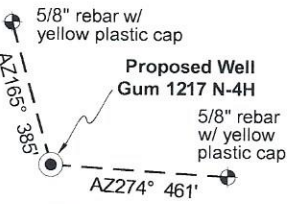
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,972' MD 6,900' TVD

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

03/07/2025



**Well Location References
Not to Scale**



Wellhead Layout (NTS)



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.)

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. Van Wie 1217 N-4H WVCS 1927, North Zone Top Hole Coordinates Lat: 39°05'56.57" Lon: 80°34'53.66" Landing Point Coordinates Lat: 39°05'58.99" Lon: 80°35'02.80" Bottom Hole Coordinates Lat: 39°09'18.65" Lon: 80°36'31.96"	Notes: Well No. Van Wie 1217 N-4H UTM NAD 1983 (USSF) Top Hole Coordinates N: 14,198,992.12' E: 1,759,174.63' Landing Point Coordinates N: 14,199,233.53' E: 1,758,453.89' Bottom Hole Coordinates N: 14,219,394.66' E: 1,751,340.06'	Notes: Well No. Van Wie 1217 N-4H UTM NAD 1983 (Meters) Top Hole Coordinates N: 4,327,861.454m E: 536,197.500m Landing Point Coordinates N: 4,327,935.036m E: 535,977.818m Bottom Hole Coordinates N: 4,334,080.161m E: 533,809.518m

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

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

DATE: February 5 20 25
OPERATOR'S WELL NO. Gum 1217 N-4H
API WELL NO
47 — 041 — 05773
STATE COUNTY PERMIT

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

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

QUADRANGLE: Top: Camden Btm: Big Issac

DISTRICT: Freemans Creek / Greenbrier / New Milton

COUNTY: Putnam

SURFACE OWNER: Garrett A. Gum

ACREAGE: 101.00

ROYALTY OWNER: Joseph Gum, et al LEASE NO: ACREAGE: 305.49

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

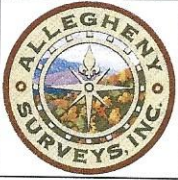
PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,972' MD 6,900' TVD

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



ID	Lease
1	William J. Woofler
2	The Union National Bank of Clarksburg, as Trustee of S.A. Smith & Burke Morris Trust, et al
3	A.H. Kemper, et al
4	Perry Gum, et al
5	Jemima Cumpston, et vir
6	Edward Foley
7	George C. Fahey, Jr., et al
8	Trustee of the John J. Fahey, Jr. Trust, et al
9	Joseph P. Fahey, et al
11	T.J. & Mary Fahey, et al
12	T.J. & Mary Fahey
13	Edward Foley & Thomas T. Groves, et al
41	Henry Snyder, et al
47	Edward Foley, et al
56	Joseph Gum
60	P.L. Hull
65	A.W. Priest, et al

Lewis County (Freemans Dist.)				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	4D / 43	Garnett A. Gum	W11 / 74	101.00
2	4D / 43.1	Jesse & Amber Shackelford	670 / 280	46.00
3	4D / 43.2	William L. & Martha S. Gum	385 / 534	12.00
4	4D / 40.2	William L. & Martha S. Gum	332 / 226	15.10
5	4D / 40.1	William L. & Martha S. Gum	332 / 226	14.00
6	4C / 8.1	Donna J. Goldsmith	577 / 690	21.39
7	4C / 8	Donna J. Goldsmith	577 / 690	32.60
8	4C / 7	William L. & Martha S. Gum	320 / 568	52.00
9	4C / 9	Betty Arbogast, et al	740 / 849	84.00
10	4C / 10	Ricky Barnes, et al	598 / 747	294.98
11	4C / 3	Donna M. Walls	498 / 388	244.00
12	4C / 11	Donna M. Walls	498 / 388	32.50
13	4C / 13	Shirley Taylor, et al	383 / 503	79.04
14	4C / 12	Randell L. White, et al	547 / 426	118.00
15	4C / 1	Randell L. White, et al	547 / 421	237.00
16	4B / 5	Maryalla D. Hitt Trust	674 / 383	67.25
17	4B / 4	Allen M. & Diana J. Jerden	571 / 507	262.09
18	4B / 6	Jacob & Laura K. Johnson	622 / 33	240.15
19	4B / 3	Thomas J. Fahey Heirs	WB K / 65	34.75
20	4B / 2	Thomas J. Fahey, et al	WB K / 65	109.50
21	3B / 23	Dominion Transmission, Inc.	591 / 761	131.22
22	3B / 22	John H. & Stephanie A. Smith	578 / 434	52.50
23	3B / 21	Joseph Fahey, et al	751 / 390	120.00
24	4B / 1	Thomas J. Fahey, et al	WB K / 65	60.00
25	3A / 2	State of WV, Bureau of Commerce, DNR	531 / 663	148.75
26	3A / 1	State of WV, Bureau of Commerce, DNR	531 / 663	103.00

Doddridge County (Greenbrier Dist.)				
No.	TM / Par	Owner	Bk / Pg	Ac.
27	17 / 5	Wayne A. Gorby	436 / 333	158.46

Doddridge County (New Milton Dist.)				
No.	TM / Par	Owner	Bk / Pg	Ac.
28	21 / 8	Herbert & Betty Bickford	363 / 488	77.57

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

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

DATE: February 5 20 25
OPERATOR'S WELL NO. Gum 1217 N-4H
API WELL NO
47 - 041 - 05773
STATE COUNTY PERMIT

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

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

QUADRANGLE: Top: Camden
Btm: Big Issac

DISTRICT: Freemans Creek / Greenbrier / New Milton

COUNTY: **03/07/2025**

SURFACE OWNER: Garrett A. Gum

ACREAGE: 101.00

ROYALTY OWNER: Joseph Gum, et al

LEASE NO: ACREAGE: 305.49

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,900' TVD
28,972' 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
----------------------	-----------------------	-----------------------	---------	-----------

RECEIVED
Office of Oil and Gas

JAN 30 2025

WV Department of
Environmental Protection

****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 N-4H Lease Chains**

JAN 30 2025

1217N Tract	WV Department of Environmental Protection LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
56	FK014331	03-004D-0042-0000 03-004D-0042-0001 03-004D-0043-0001 03-004D-0043-0002	Q100421000	JOSEPH GUM AND MARGARET GUM, HIS WIFE; A. F. GUM AND M. L. GUM, HIS WIFE; AND MARY SIMMONS AND LOIS SIMMONS	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	68	209
				HOPE CONSTRUCTION & REFINING COMPANY	HOPE NATURAL GAS COMPANY	MERGER/NAME CHANGE	169	2
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220				
60	FK013958	03-004C-0008-0000 03-004C-0008-0001 03-004D-0040-0002 03-004D-0040-0001 03-004D-0040-0003	Q100460000	P. L. HULL AND M. E. HULL, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	68	97
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
65	FK013957	03-004D-0049-0000 03-004D-0049-0001	Q100908000	A.W. PRIEST ET AL	TRI STATE GAS COMPANY	NOT LESS THAN 1/8	44	412
				TRI STATE GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	73	70
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499

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				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
41	FK002648	03-004C-0009-0000	Q100419000	HENRY SNYDER AND MARGARET SNYDER, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	39	209
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	127
				SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS COMPANY	ASSIGNMENT	156	570
				SOUTH PENN NATURAL GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	166	494
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9	628
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
1	FK051503	p/o 03-004C-0010-0000 03-004C-0010-0001	Q100270000	W. J. WOOFER AND SUSAN WOOFER, HIS WIFE	E. W. BOYD	NOT LESS THAN 1/8	35	240
				E. W. BOYD	S. E. BARRETT	ASSIGNMENT	36	369
				S. E. BARRETT	LOUIS BENNETT	ASSIGNMENT	30	609
				S. E. BARRETT AND LOUIS BENNETT	LEWIS OIL COMPANY	DEED	36	438
				LEWIS OIL COMPANY	J. M. GUFFEY AND JOHN H. GALEY	ASSIGNMENT	44	562
				LEWIS OIL COMPANY	J. M. GUFFEY	ASSIGNMENT	46	399
				LOUIS BENNETT	J. M. GUFFEY AND JOHN H. GALEY	ASSIGNMENT	44	571
				J. M. GUFFEY AND JOHN H. GALEY	PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	73	318
				PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	85	141
				PITTSBURGH AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY	DEED	216	185
				EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY	HOPE NATURAL GAS COMPANY	DEED	246	192
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220				
	FK002511 FEEHG10048	03-004C-0002-0000 03-004C-0003-0000		A. F. GUM AND M. L. GUM, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	33	215
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	127
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				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				

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2	FEEHGII0049 FEEHGII0057 FEEHGII0059	03-004C-0011-0000 p/o 03-003C-0028-0000 p/o 03-003C-0028-0001	Q100417000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				A. H. KEMPER AND SARAH KEMPER, HIS WIFE	E. W. BOYD	NOT LESS THAN 1/8	35	247
				E. W. BOYD	S. E. BARRETT	ASSIGNMENT	30	369
				S. E. BARRETT AND LOUIS BENNETT	LEWIS OIL COMPANY	DEED	36	438
S. E. BARRETT AND LOUIS BENNETT	LEWIS OIL COMPANY	DEED	36	479				
S. E. BARRETT	J. M. GUFFY AND JOHN H. GALEY	ASSIGNMENT	44	569				
LOUIS BENNETT	J. M. GUFFY AND JOHN H. GALEY	DEED	44	571				
LOUIS BENNETT	CRUDE OIL COMPANY	ASSIGNMENT	92	155				
LEWIS OIL COMPANY	J. M. GUFFY AND JOHN H. GALEY	ASSIGNMENT	44	562				
LEWIS OIL COMPANY	J. M. GUFFY AND JOHN H. GALEY	ASSIGNMENT	46	399				
J. M. GUFFY AND JOHN H. GALEY	THE PHILADELPHIA COMPANY	ASSIGNMENT	44	583				
THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	DEED	125	371				
THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	379				
PITTSBURGH AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY	DEED	216	185				
EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	246	192				
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89				
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127				
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS					
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154				
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57				
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848				
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1				
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170				
DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220				
3	FK051504 FEEHGII0442	03-004C-0012-0000 03-004C-0013-0000 03-004C-0013-0001	Q100428000	PERRY C. GUM AND DORA GUM, HIS WIFE; AND MARGARET GUM	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	74	515
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				4	FK024898	03-004C-0001-0000	Q100658000	DOMINION TRANSMISSION, INC.
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684					57
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712					848
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717					1
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722					170
DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723					499
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734					558
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736					220
JEMIMA K. CUMPSTON AND W. C. CUMPSTON, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	142					277

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5	FK047029	03-004B-0005-0000	Q100466000	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, INC.	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9	628
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				6	FK047104 FK085625 FEE	03-004B-0004-0000	Q100659000	EDWARD FOLEY AND ELLEN A. FOLEY, HIS WIFE; R. S. KEMPER AND FANNIE KEMPER, HIS WIFE; A. J. KEMPER AND PEARL S. KEMPER, HIS WIFE
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294					89
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425					127
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS					
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672					154
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684					57
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712					848
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717					1
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722					170
DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723					499
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734					558
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736					220
7	FK051055	03-004B-0003-0000	Q100265000	THOMAS J. FAHEY AND MARY E. FAHEY, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	153	45
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				MARY FAHEY; T. J. FAHEY AND MARY E. FAHEY, HIS WIFE; MARY A. FAHEY; AND GEORGE C. FAHEY AND ANNIE A. FAHEY, HIS WIFE (1/2)	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	485
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	DEED	92	358
				T. J. FAHEY AND MARY E. FAHEY, HIS WIFE (1/2)	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	153	93
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127

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8	FK032953 (FEE) FK051166	03-004B-0002-0000	Q100915000 Q101156000	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	NOT LESS THAN 1/8	692	570
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746
9	FK051247 FK085628 FEE FK094186 FEE	03-003B-0023-0000 p/o 03-004B-0004-0000	Q100470000	JOSEPH P. FAHEY, ATTORNEY-IN-FACT FOR JOHN J. FAHEY, WIDOWER; MARTIN W. FAHEY, WIDOWER; MARY M. FAHEY, WIDOW; ANNIE FAHEY, WIDOW; P. WILLIAM FAHEY AND RUTH S. FAHEY, HIS WIFE; T. BERNARD FAHEY AND HELEN R. FAHEY, HIS WIFE; LEOCADIA FAHEY, SINGLE; ALFONSE FAHEY, SINGLE; MARY LORETTA CONLEY AND THOMAS A. CONLEY, HER HUSBAND; GRACE WANSTREET AND S. L. WANSTREET, HER HUSBAND; CECELIA NIGGEMYER AND JOE NIGGEMYER, HER HUSBAND; ELIZABETH EBBERT AND LAURENCE EBBERT, HER HUSBAND; MYRTLE F. BEISWENGER AND ROBERT E. BEISWINGER, HER HUSBAND; GEORGE F. FAHEY AND BLANCHE FAHEY, HIS WIFE; AND MARTIN J. FAHEY, SINGLE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8		
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
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				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
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DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220				
11	FK051167 FK054806 FEE	03-004B-0001-0000	Q100753000	T. J. FAHEY AND MARY E. FAHEY, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	153	95
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
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				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499

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				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
12	FK051168 FK054806 FEE	03-003B-0021-0000	Q100468000	T. J. FAHEY AND MARY E. FAHEY, HIS WIFE (1/2)	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	153	97
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
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				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
13	FK088092 (FEE) FK055520 (FEE)	p/o 03-003A-0002-0000	Q100774000	EDWARD FOLEY, SR. AND CATHERINE FOLEY, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	484
				SOUTH PENN OIL COMPANY	HOPE CONSTRUCTION AND REFINING COMPANY	DEED (50%)	142	187
				HOPE CONSTRUCTION AND REFINING COMPANY	HOPE NATURAL GAS COMPANY	DEED	169	2
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
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DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220				
47	FK088092 (FEE) FK055520 (FEE)	p/o 03-003A-0002-0000	Q100774000	EDWARD FOLEY, SR. AND CATHERINE FOLEY, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	484
				SOUTH PENN OIL COMPANY	HOPE CONSTRUCTION AND REFINING COMPANY	DEED (50%)	142	187
				HOPE CONSTRUCTION AND REFINING COMPANY	HOPE NATURAL GAS COMPANY	DEED	169	2
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
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				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
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DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220				

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

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Department of

January 15, 2025

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

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

Dear Mr. Blevins -

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

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

Very truly yours,

Diane White

Diane C. White

Enclosures

03/07/2025

WW-PN
(11-18-2015)

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

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, October 16th, 2024 and Wednesday, October 23rd, 2024

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

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

Address: 5260 Dupont Road
Parkersburg, WV 26101

Business Conducted: Natural gas production.

Location –

State: West Virginia County: Lewis
District: Freemans Creek Quadrangle: Camden 7.5'
UTM Coordinate NAD83 Northing: 4327861.5
UTM coordinate NAD83 Easting: 536197.5
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

03/07/2025

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

Date of Notice Certification: 01/23/2025

API No. 47- _____

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

Well Pad Name: Gum 1217

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

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

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:		OOG OFFICE USE ONLY
*PLEASE CHECK ALL THAT APPLY		
<input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	<input type="checkbox"/> RECEIVED/ NOT REQUIRED	
<input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED	<input type="checkbox"/> RECEIVED	
<input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	<input type="checkbox"/> RECEIVED/ NOT REQUIRED	
<input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION	<input type="checkbox"/> RECEIVED	
<input checked="" type="checkbox"/> 5. PUBLIC NOTICE	<input type="checkbox"/> RECEIVED	
<input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION	<input type="checkbox"/> 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.

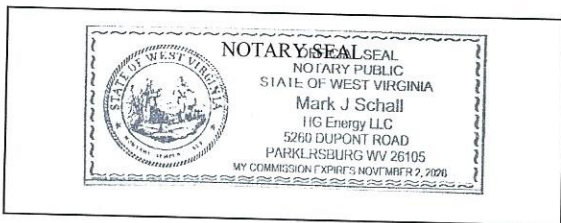
03/07/2025

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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:	<u>HG II Appalachia, LLC</u>	Address:	<u>5260 Dupont Road</u>
By:	<u>Diane White</u>		<u>Parkersburg, WV 26101</u>
Its:	<u>Agent</u>	Facsimile:	<u>304-863-3172</u>
Telephone:	<u>304-420-1119</u>	Email:	<u>dwhite@hgenergyllc.com</u>



Subscribed and sworn before me this 23rd day of January, 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 deprivacyofficer@wv.gov.

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 12/03/2024 Date Permit Application Filed: 12/17/2024

Notice of:

- [X] PERMIT FOR ANY WELL WORK
- [] CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

- [] PERSONAL SERVICE
- [] REGISTERED MAIL
- [X] 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.

[X] Application Notice [X] WSSP Notice [X] E&S Plan Notice [X] Well Plat Notice is hereby provided to:

[X] 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

[] COAL OWNER OR LESSEE
Name: Western Pocahontas Properties, LP
Address: 5260 Irwin Road
Huntington, WV 25705

[] COAL OPERATOR
Name: NA
Address:

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

Name:
Address:

Name:
Address:

[] SURFACE OWNER(s) (Impoundments or Pits)

Name:
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

[X] 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

JAN 30 2025

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

Office of Oil and Gas

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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. 47-4704105773
OPERATOR WELL NO. Gum 1217 N1H to S7H
Well Pad Name: Gum 1217

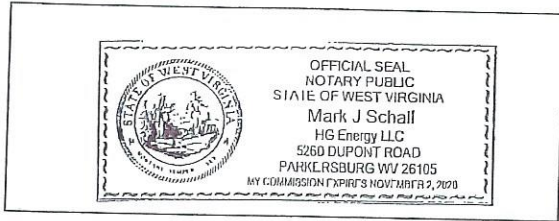
Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC
Telephone: 304-420-1119
Email: dwhite@hgenergyllc.com *Diane White*

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 26th day of November, 2024.

[Signature]

Notary Public

My Commission Expires 11/2/2026

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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: 11/22/2024 **Date Permit Application Filed:** 12/17/2024

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

HAND DELIVERY CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RECEIVED
Office of Oil and Gas
JAN 30 2025

WV Department of
Environmental Protection

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

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

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

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

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

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

This Notice Shall Include:

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

Notice is hereby given by:

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

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

Oil and Gas Privacy Notice:

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

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 11/25/2024 **Date Permit Application Filed:** 12/17/2024

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Environmental Protection

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

- CERTIFIED MAIL HAND
- RETURN RECEIPT REQUESTED DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

Name: 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: <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(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 *Diane White*

Address: 5260 Dupont Road
Parkersburg, WV 26101
Facsimile: 304-863-3172

Oil and Gas Privacy Notice:

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

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Office of the District Engineer/Manager
District Four

Post Office Box 4220 · Clarksburg, West Virginia 26302 · (304) 842-1500

Alanna J. Keller, P.E.
Deputy Secretary of Transportation
Deputy Commissioner of Highways

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

October 30, 2024

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

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

JAN 30 2025

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

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

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

PAD NAME: Gum 1217 N-4H

REVIEWED BY: Diane White SIGNATURE: Diane White

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

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API Number: _____

Operator's Well Number: Gum 1217 N1H - S7H

11/3/14

Wetland and Perennial Stream Waiver Request

Well Operator: HG ENERGY LLC

Well Number: Gum 1217 N1H - S7H

Well Pad Name: 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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11/3/14

Wetland and Perennial Stream Waiver Request

API Number: _____

Operator's Well Number: Gum 1217 N1H - S7H

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.

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

See Attached

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11/3/14

Wetland and Perennial Stream Waiver Request

API Number: _____

Operator's Well Number: Gum 1217 N1H - S7H

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'.

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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

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WV Department of
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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.

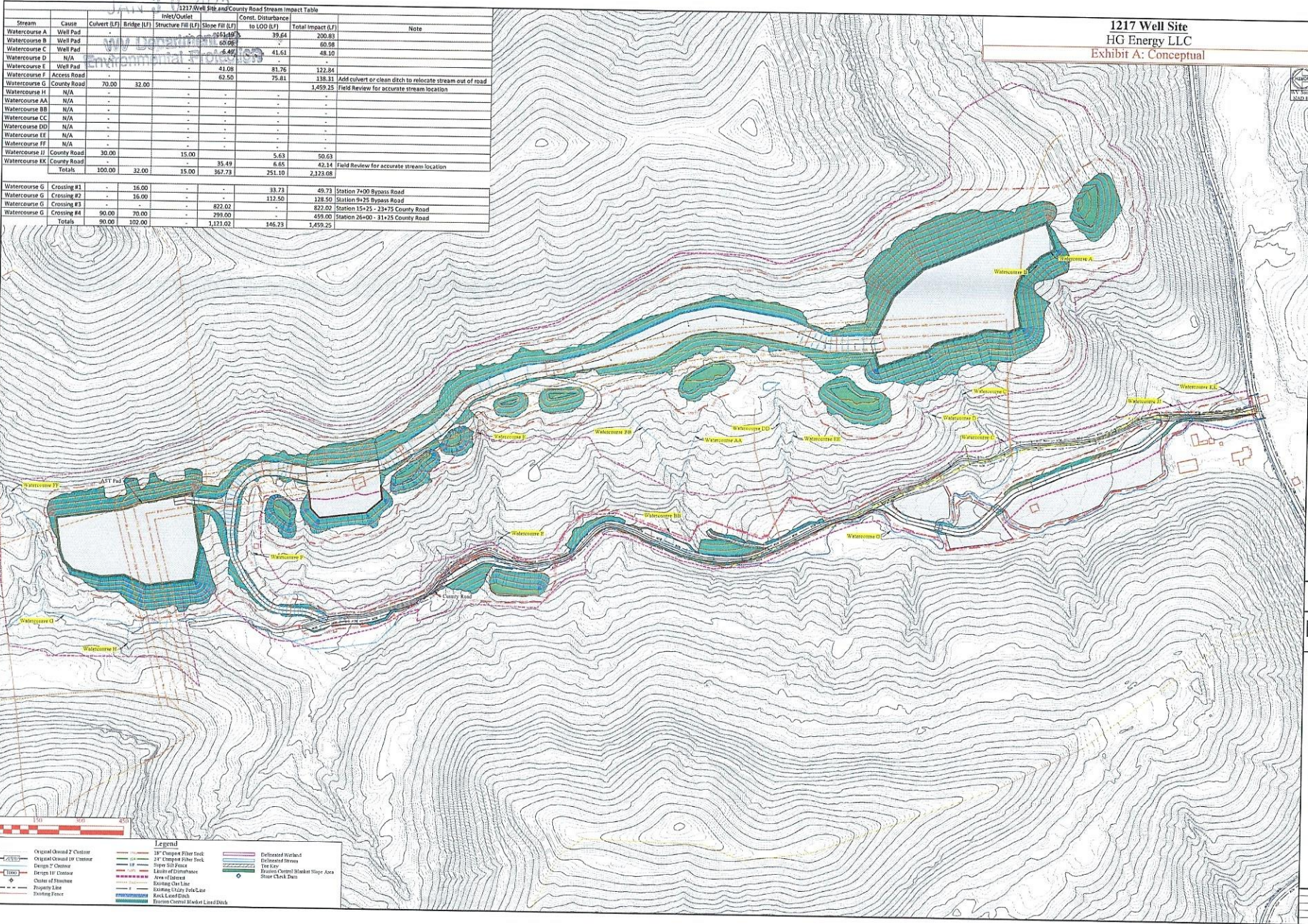
03/07/2025

JAN 28 2025

Stream	Cause	Culvert (LF)	Bridge (LF)	Structure Fill (LF)	Slope Fill (LF)	to LOD (LF)	Total Impact (LF)	Note
Watercourse A	Well Pad	-	-	215.49	-	39.64	200.83	
Watercourse B	Well Pad	-	-	60.98	-	-	60.98	
Watercourse C	Well Pad	-	-	5.42	-	-	41.61	
Watercourse D	N/A	-	-	-	-	-	-	
Watercourse E	Well Pad	-	-	41.08	-	81.76	122.84	
Watercourse F	Access Road	-	-	62.50	-	75.81	138.31	Add culvert or clean ditch to relocate stream out of road
Watercourse G	County Road	70.00	32.00	-	-	-	1,459.25	Field Review for accurate stream location
Watercourse H	N/A	-	-	-	-	-	-	
Watercourse AA	N/A	-	-	-	-	-	-	
Watercourse BB	N/A	-	-	-	-	-	-	
Watercourse CC	N/A	-	-	-	-	-	-	
Watercourse DD	N/A	-	-	-	-	-	-	
Watercourse EE	N/A	-	-	-	-	-	-	
Watercourse FF	N/A	-	-	-	-	-	-	
Watercourse JJ	County Road	30.00	-	15.00	-	5.63	50.03	Field Review for accurate stream location
Watercourse KK	County Road	-	-	-	35.49	6.65	42.14	Field Review for accurate stream location
Totals		100.00	32.00	15.00	367.73	251.10	2,123.08	

Watercourse G	Crossing #1	-	16.00	-	-	33.73	49.73	Station 7+00 Bypass Road
Watercourse G	Crossing #2	-	16.00	-	-	112.50	128.50	Station 9+25 Bypass Road
Watercourse G	Crossing #3	-	-	-	822.02	-	822.02	Station 15+25 - 23+75 County Road
Watercourse G	Crossing #4	90.00	70.00	-	-	299.00	459.00	Station 26+00 - 31+25 County Road
Totals		90.00	102.00	-	1,121.02	146.23	1,459.25	

1217 Well Site
HG Energy LLC
Exhibit A: Conceptual



Legend

Original Channel 2' Channel	18' Compact Filter Bed	Delimited Wetland
Original Channel 10' Channel	24' Compact Filter Bed	Delimited Stream
Design 2' Channel	Shore Soil Fence	Shore Line
Design 10' Channel	Limit of Embankment	Station (Point) Shaker Slope Area
Outlet of Shrub	Area of Impact	Shore Check Dam
Property Line	Existing Clean Line	
System Fence	Existing Utility Hole Line	
	Rock Landfill	
	Stream Channel Shaker Landfill	

Revision
1
2/28/24
3/20/24



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HG ENERGY LLC



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

Date: 05/17/2024
Scale: As Shown
Designed by: ZS
File No:
Sheet 1 of 7

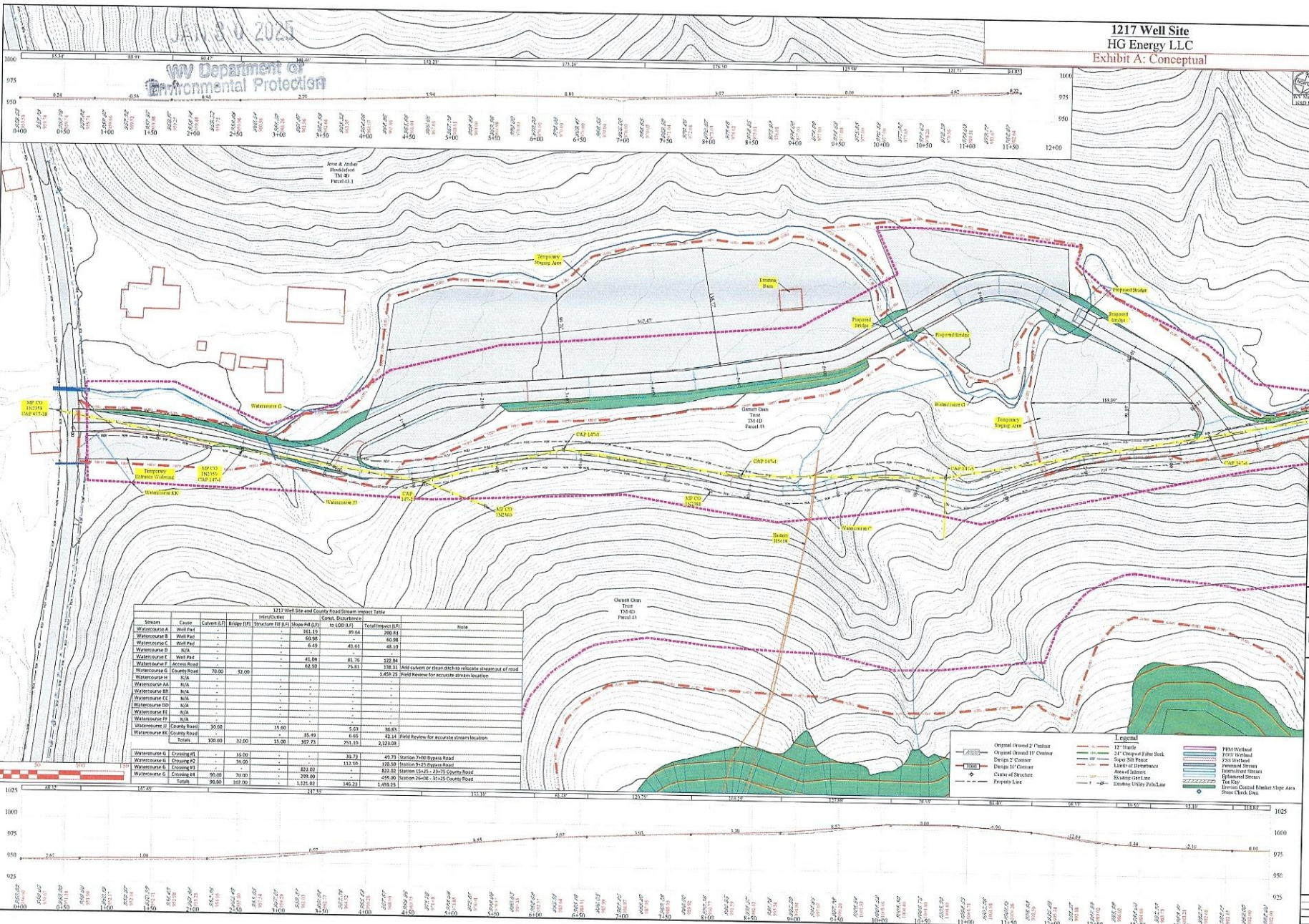
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Environmental Protection

1217 Well Site
HG Energy LLC
Exhibit A: Conceptual



1217 Well Site and County Road Stream Impact Table

Stream	Class	Column A (F)	Bridge (F)	Structure (F) (A)	Slope (F) (B)	Const. Discharge	Final Impact (B)	Note
Watercourse A	Well Pad	-	-	161.19	20.100 (A)	39.64	200.83	
Watercourse B	Well Pad	-	-	60.98	-	60.98	60.98	
Watercourse C	Well Pad	-	-	6.48	-	6.48	6.48	
Watercourse D	WPA	-	-	41.08	-	81.76	122.84	
Watercourse E	Well Pad	-	-	62.50	-	79.81	142.31	
Watercourse F	Access Road	70.00	32.00	-	-	-	1,400.75	Add culvert or clean ditch to relocate stream out of road
Watercourse G	County Road	-	-	-	-	-	-	Field Review for accurate stream location
Watercourse H	R/A	-	-	-	-	-	-	
Watercourse IA	R/A	-	-	-	-	-	-	
Watercourse IB	R/A	-	-	-	-	-	-	
Watercourse IC	R/A	-	-	-	-	-	-	
Watercourse ID	R/A	-	-	-	-	-	-	
Watercourse IE	R/A	-	-	-	-	-	-	
Watercourse IF	R/A	-	-	-	-	-	-	
Watercourse IG	R/A	-	-	-	-	-	-	
Watercourse IH	R/A	-	-	-	-	-	-	
Watercourse II	County Road	30.00	15.00	-	-	5.63	56.63	
Watercourse IJ	County Road	90.00	33.00	-	-	6.65	62.14	Field Review for accurate stream location
Watercourse IK	County Road	100.00	33.00	15.00	827.73	251.95	2,123.08	
Watercourse G	Crossing #1	-	16.00	-	-	33.73	49.73	Station 7+00 Bypass Road
Watercourse G	Crossing #2	-	16.00	-	-	132.00	148.00	Station 7+15 Bypass Road
Watercourse G	Crossing #3	-	16.00	-	-	822.00	838.00	Station 15+15 - 23+75 County Road
Watercourse G	Crossing #4	90.00	33.00	-	-	426.00	546.00	Station 20+00 - 31+25 County Road
Totals		96.00	102.00	-	-	1,121.03	1,451.31	

Legend

- Original Ground Position
- Original Ground Elevation
- Design 2' Contour
- Design 10' Contour
- Center of Structure
- Property Line
- 12" Invert
- 24" Concrete Filter Sock
- Super Silt Fence
- Line of Interference
- Area of Interest
- Excavation Cut Line
- Existing Utility P&L Line
- P&L Wetland
- PSS Wetland
- Perennial Stream
- Intermittent Stream
- Regulated Stream
- Non-Regulated Stream
- Stream Channel
- Stream Check Dam
- Stream Check Dam

1217 Well Site
Freemans Creek District
Lewis County, WV

Site Plan

47074105773

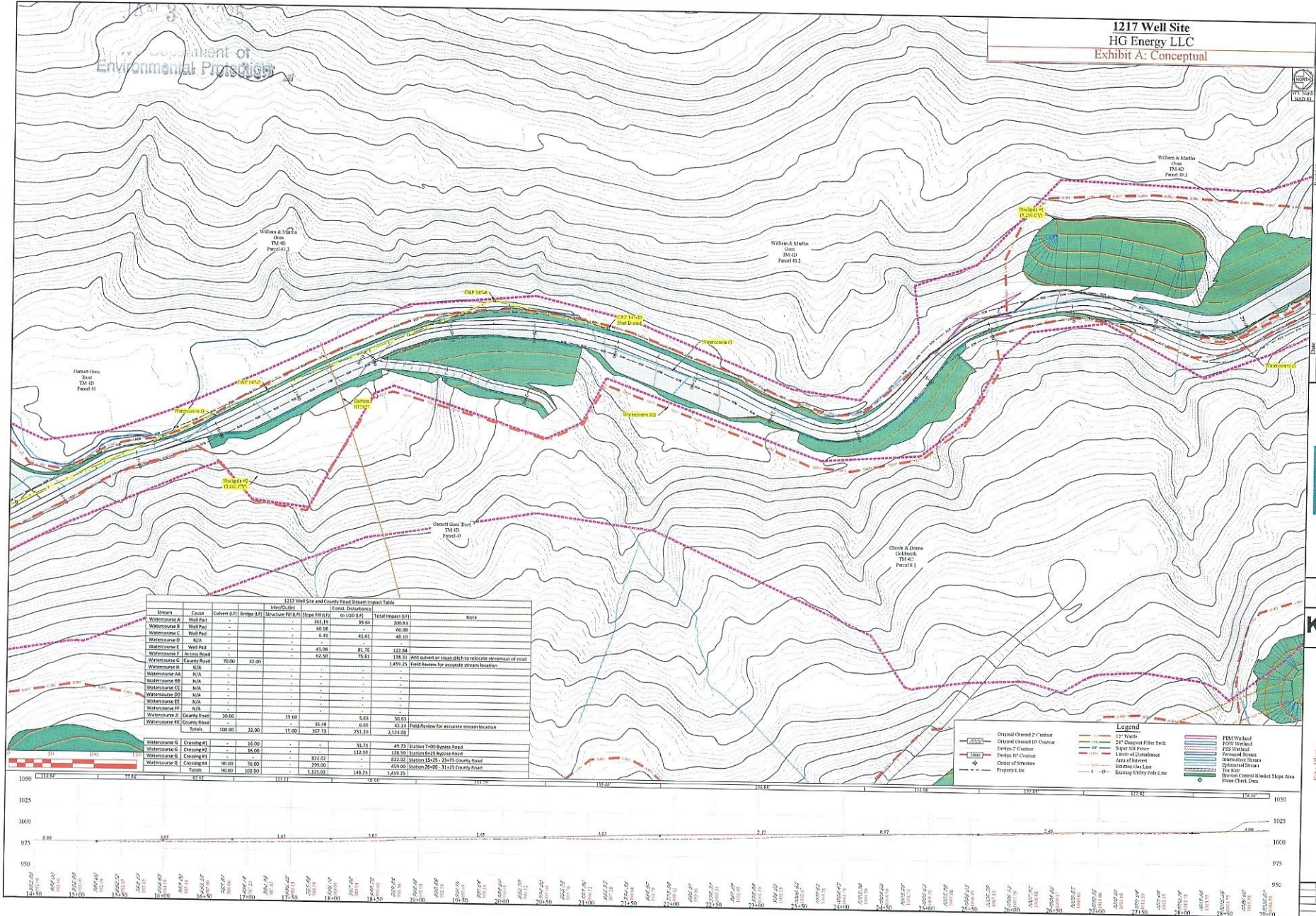
HG ENERGY LLC

THIS DOCUMENT PREPARED FOR HG ENERGY LLC

Kelly Surveying

Date: 03/17/2024
Scale: As Shown
Designed by: JSS
File No:
Sheet 2 of 7

1217 Well Site
HG Energy LLC
Exhibit A: Conceptual

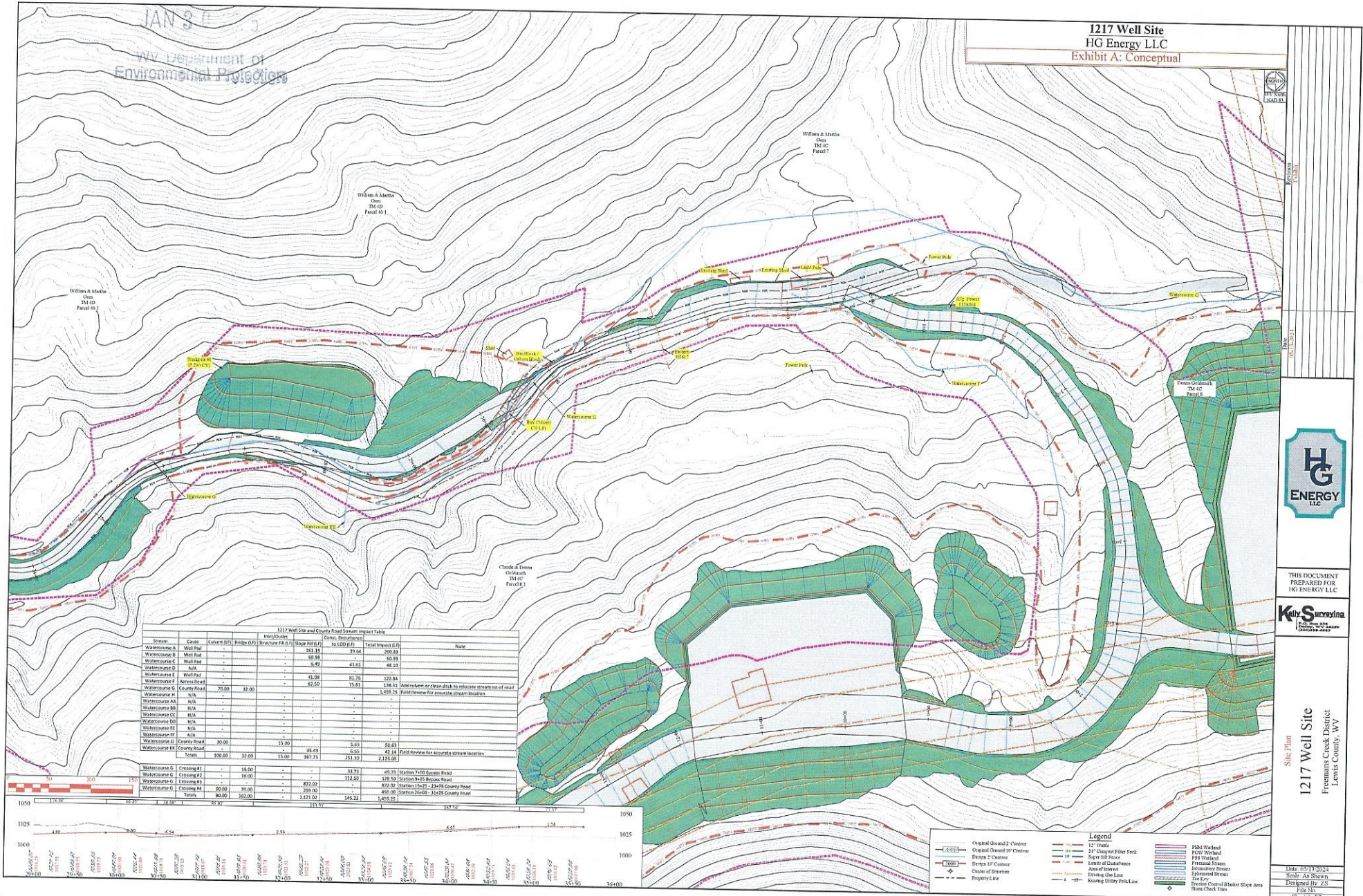


1217 Well Site and County Road Stream Impact Table

Stream	Cause	Colvert (L/F)	Structure (L/F)	Slope Fill (L/F)	Const. Disturbance	Total Impact (L/F)	Notes
Watercourse A	Well Pad	-	-	161.19	39.64	200.83	None
Watercourse B	Well Pad	-	-	61.56	46.08	107.64	
Watercourse C	Well Pad	-	-	6.49	43.61	50.10	
Watercourse D	Well Pad	-	-	43.08	81.76	124.84	
Watercourse E	Access Road	-	-	67.50	75.83	143.33	ADD culvert or clean ditch to relocate stream out of road
Watercourse F	County Road	70.00	32.00	-	-	1,430.25	Field Review for accurate stream location
Watercourse H	R/A	-	-	-	-	-	
Watercourse I	R/A	-	-	-	-	-	
Watercourse J	R/A	-	-	-	-	-	
Watercourse K	R/A	-	-	-	-	-	
Watercourse L	R/A	-	-	-	-	-	
Watercourse M	R/A	-	-	-	-	-	
Watercourse N	R/A	-	-	-	-	-	
Watercourse O	R/A	-	-	-	-	-	
Watercourse P	R/A	-	-	-	-	-	
Watercourse Q	R/A	-	-	-	-	-	
Watercourse R	R/A	-	-	-	-	-	
Watercourse S	R/A	-	-	-	-	-	
Watercourse T	R/A	-	-	-	-	-	
Watercourse U	R/A	-	-	-	-	-	
Watercourse V	R/A	-	-	-	-	-	
Watercourse W	R/A	-	-	-	-	-	
Watercourse X	R/A	-	-	-	-	-	
Watercourse Y	R/A	-	-	-	-	-	
Watercourse Z	R/A	-	-	-	-	-	
Watercourse AA	R/A	-	-	-	-	-	
Watercourse AB	R/A	-	-	-	-	-	
Watercourse AC	R/A	-	-	-	-	-	
Watercourse AD	R/A	-	-	-	-	-	
Watercourse AE	R/A	-	-	-	-	-	
Watercourse AF	R/A	-	-	-	-	-	
Watercourse AG	R/A	-	-	-	-	-	
Watercourse AH	R/A	-	-	-	-	-	
Watercourse AI	R/A	-	-	-	-	-	
Watercourse AJ	R/A	-	-	-	-	-	
Watercourse AK	R/A	-	-	-	-	-	
Watercourse AL	R/A	-	-	-	-	-	
Watercourse AM	R/A	-	-	-	-	-	
Watercourse AN	R/A	-	-	-	-	-	
Watercourse AO	R/A	-	-	-	-	-	
Watercourse AP	R/A	-	-	-	-	-	
Watercourse AQ	R/A	-	-	-	-	-	
Watercourse AR	R/A	-	-	-	-	-	
Watercourse AS	R/A	-	-	-	-	-	
Watercourse AT	R/A	-	-	-	-	-	
Watercourse AU	R/A	-	-	-	-	-	
Watercourse AV	R/A	-	-	-	-	-	
Watercourse AW	R/A	-	-	-	-	-	
Watercourse AX	R/A	-	-	-	-	-	
Watercourse AY	R/A	-	-	-	-	-	
Watercourse AZ	R/A	-	-	-	-	-	
Watercourse BA	R/A	-	-	-	-	-	
Watercourse BB	R/A	-	-	-	-	-	
Watercourse BC	R/A	-	-	-	-	-	
Watercourse BD	R/A	-	-	-	-	-	
Watercourse BE	R/A	-	-	-	-	-	
Watercourse BF	R/A	-	-	-	-	-	
Watercourse BG	R/A	-	-	-	-	-	
Watercourse BH	R/A	-	-	-	-	-	
Watercourse BI	R/A	-	-	-	-	-	
Watercourse BJ	R/A	-	-	-	-	-	
Watercourse BK	R/A	-	-	-	-	-	
Watercourse BL	R/A	-	-	-	-	-	
Watercourse BM	R/A	-	-	-	-	-	
Watercourse BN	R/A	-	-	-	-	-	
Watercourse BO	R/A	-	-	-	-	-	
Watercourse BP	R/A	-	-	-	-	-	
Watercourse BQ	R/A	-	-	-	-	-	
Watercourse BR	R/A	-	-	-	-	-	
Watercourse BS	R/A	-	-	-	-	-	
Watercourse BT	R/A	-	-	-	-	-	
Watercourse BU	R/A	-	-	-	-	-	
Watercourse BV	R/A	-	-	-	-	-	
Watercourse BW	R/A	-	-	-	-	-	
Watercourse BX	R/A	-	-	-	-	-	
Watercourse BY	R/A	-	-	-	-	-	
Watercourse BZ	R/A	-	-	-	-	-	
Watercourse CA	R/A	-	-	-	-	-	
Watercourse CB	R/A	-	-	-	-	-	
Watercourse CC	R/A	-	-	-	-	-	
Watercourse CD	R/A	-	-	-	-	-	
Watercourse CE	R/A	-	-	-	-	-	
Watercourse CF	R/A	-	-	-	-	-	
Watercourse CG	R/A	-	-	-	-	-	
Watercourse CH	R/A	-	-	-	-	-	
Watercourse CI	R/A	-	-	-	-	-	
Watercourse CJ	R/A	-	-	-	-	-	
Watercourse CK	R/A	-	-	-	-	-	
Watercourse CL	R/A	-	-	-	-	-	
Watercourse CM	R/A	-	-	-	-	-	
Watercourse CN	R/A	-	-	-	-	-	
Watercourse CO	R/A	-	-	-	-	-	
Watercourse CP	R/A	-	-	-	-	-	
Watercourse CQ	R/A	-	-	-	-	-	
Watercourse CR	R/A	-	-	-	-	-	
Watercourse CS	R/A	-	-	-	-	-	
Watercourse CT	R/A	-	-	-	-	-	
Watercourse CU	R/A	-	-	-	-	-	
Watercourse CV	R/A	-	-	-	-	-	
Watercourse CW	R/A	-	-	-	-	-	
Watercourse CX	R/A	-	-	-	-	-	
Watercourse CY	R/A	-	-	-	-	-	
Watercourse CZ	R/A	-	-	-	-	-	
Watercourse DA	R/A	-	-	-	-	-	
Watercourse DB	R/A	-	-	-	-	-	
Watercourse DC	R/A	-	-	-	-	-	
Watercourse DD	R/A	-	-	-	-	-	
Watercourse DE	R/A	-	-	-	-	-	
Watercourse DF	R/A	-	-	-	-	-	
Watercourse DG	R/A	-	-	-	-	-	
Watercourse DH	R/A	-	-	-	-	-	
Watercourse DI	R/A	-	-	-	-	-	
Watercourse DJ	R/A	-	-	-	-	-	
Watercourse DK	R/A	-	-	-	-	-	
Watercourse DL	R/A	-	-	-	-	-	
Watercourse DM	R/A	-	-	-	-	-	
Watercourse DN	R/A	-	-	-	-	-	
Watercourse DO	R/A	-	-	-	-	-	
Watercourse DP	R/A	-	-	-	-	-	
Watercourse DQ	R/A	-	-	-	-	-	
Watercourse DR	R/A	-	-	-	-	-	
Watercourse DS	R/A	-	-	-	-	-	
Watercourse DT	R/A	-	-	-	-	-	
Watercourse DU	R/A	-	-	-	-	-	
Watercourse DV	R/A	-	-	-	-	-	
Watercourse DW	R/A	-	-	-	-	-	
Watercourse DX	R/A	-	-	-	-	-	
Watercourse DY	R/A	-	-	-	-	-	
Watercourse DZ	R/A	-	-	-	-	-	
Watercourse EA	R/A	-	-	-	-	-	
Watercourse EB	R/A	-	-	-	-	-	
Watercourse EC	R/A	-	-	-	-	-	
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Watercourse EI	R/A	-	-	-	-	-	
Watercourse EJ	R/A	-	-	-	-	-	
Watercourse EK	R/A	-	-	-	-	-	
Watercourse EL	R/A	-	-	-	-	-	
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Watercourse EO	R/A	-	-	-	-	-	
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Watercourse EQ	R/A	-	-	-	-	-	
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Watercourse ES	R/A	-	-	-	-	-	
Watercourse ET	R/A	-	-	-	-	-	
Watercourse EU	R/A	-	-	-	-	-	
Watercourse EV	R/A	-	-	-	-	-	
Watercourse EW	R/A	-	-	-	-	-	
Watercourse EX	R/A	-	-	-	-	-	
Watercourse EY	R/A	-	-	-	-	-	
Watercourse EZ	R/A	-	-	-	-	-	
Watercourse FA	R/A	-	-	-	-	-	
Watercourse FB	R/A	-	-	-	-	-	
Watercourse FC	R/A	-	-	-	-	-	
Watercourse FD	R/A	-	-	-	-	-	
Watercourse FE	R/A	-	-	-	-	-	
Watercourse FF	R/A	-	-	-	-	-	
Watercourse FG	R/A	-	-	-	-	-	
Watercourse FH	R/A	-	-	-	-	-	
Watercourse FI	R/A	-	-	-	-	-	
Watercourse FJ	R/A	-	-	-	-	-	
Watercourse FK	R/A	-	-	-	-	-	
Watercourse FL	R/A	-	-	-	-	-	
Watercourse FM	R/A	-	-	-	-	-	
Watercourse FN	R/A	-	-	-	-	-	
Watercourse FO	R/A	-	-	-	-	-	
Watercourse FP	R/A	-	-	-	-	-	
Watercourse FQ	R/A	-	-	-	-	-	
Watercourse FR	R/A	-	-	-	-	-	
Watercourse FS	R/A	-	-	-	-	-	
Watercourse FT	R/A	-	-	-	-	-	
Watercourse FU	R/A	-	-	-	-	-	
Watercourse FV	R/A	-	-	-	-	-	
Watercourse FW	R/A	-	-	-	-	-	
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Watercourse GJ	R/A	-	-	-	-	-	
Watercourse GK	R/A	-	-	-	-	-	
Watercourse GL	R/A	-	-	-	-	-	
Watercourse GM	R/A	-	-	-	-	-	
Watercourse GN	R/A	-	-	-	-	-	
Watercourse GO	R/A	-	-	-	-	-	
Watercourse GP	R/A	-	-	-	-	-	
Watercourse GQ	R/A	-	-	-	-	-	
Watercourse GR	R/A	-	-	-	-	-	
Watercourse GS	R/A	-	-	-	-	-	
Watercourse GT	R/A	-	-	-	-	-	
Watercourse GU	R/A	-	-	-	-	-	
Watercourse GV	R/A	-	-	-	-	-	
Watercourse GW	R/A	-	-</				

JAN 24 2024
WV Department of
Environmental Protection

1217 Well Site
HG Energy LLC
Exhibit A: Conceptual



1217 Well Site and County Road Stream Impact Table

Stream	Cross	Culvert (ft)	Bridge (ft)	Structure Fill (ft)	Conc. Embankment to LOD (ft)	Total Impact (ft)	Note
Watercourse A	Well Pad	-	-	363.19	39.64	200.83	
Watercourse B	Well Pad	-	-	60.94	-	60.94	
Watercourse C	Well Pad	-	-	6.49	-	48.10	
Watercourse D	N/A	-	-	-	-	-	
Watercourse E	Well Pad	-	-	41.08	81.76	122.84	
Watercourse F	Access Road	-	-	-	-	-	
Watercourse G	County Road	70.00	33.00	62.50	75.81	136.11	Asse culvert or clean ditch to relocate stream out of road
Watercourse H	N/A	-	-	-	-	-	Field review for accurate stream location
Watercourse AA	N/A	-	-	-	-	-	
Watercourse BB	N/A	-	-	-	-	-	
Watercourse CC	N/A	-	-	-	-	-	
Watercourse DD	N/A	-	-	-	-	-	
Watercourse EE	N/A	-	-	-	-	-	
Watercourse FF	N/A	-	-	-	-	-	
Watercourse JJ	County Road	30.00	-	15.00	5.63	50.63	
Watercourse KK	County Road	-	-	-	6.65	43.14	Field Review for accurate stream location
Totals	100.00	33.00	-	35.49	21.83	1,455.25	
Watercourse G	Crossing #1	-	18.00	-	33.73	48.73	Station 2100 Bypass Road
Watercourse G	Crossing #2	-	18.00	-	112.50	128.50	Station 2123 Bypass Road
Watercourse C	Crossing #3	-	-	-	-	-	Station 15423-23-75 County Road
Watercourse H	Crossing #4	90.00	30.00	-	822.02	892.02	Station 15423-23-75 County Road
Watercourse KK	County Road	-	-	-	495.00	495.00	Station 20028-31-28 County Road
Totals	90.00	30.00	-	1,371.02	146.33	1,455.25	

Legend

- Original Ground 2' Contour
- Original Ground 10' Contour
- Design 2' Contour
- Design 10' Contour
- Chain of Station
- Property Line
- 12" Water
- 24" Clay-on Fiber Stock
- Sign Bit Stone
- Limit of Disturbance
- Area of Interest
- Existing Old Line
- Existing Utility Pole Line
- PSM Method
- PSM Method
- PSM Method
- Personal Stream
- Intermittent Stream
- Perennial Stream
- 1st-2nd
- Stream Control Blanket Slope Area
- Bank Check Dam

1217 Well Site
Fremans Creek District
Lewis County, WV

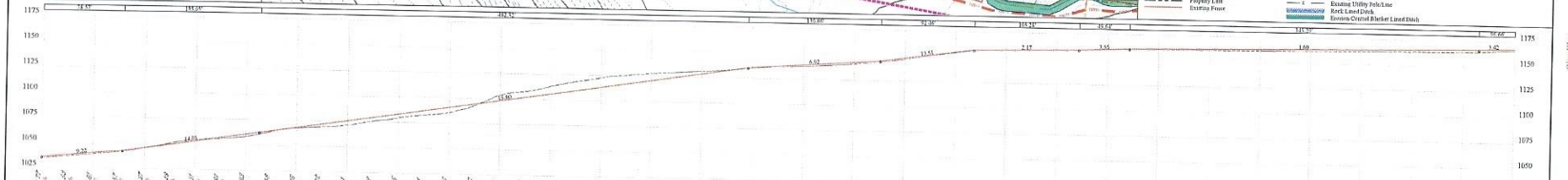
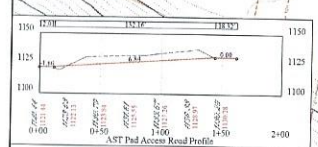
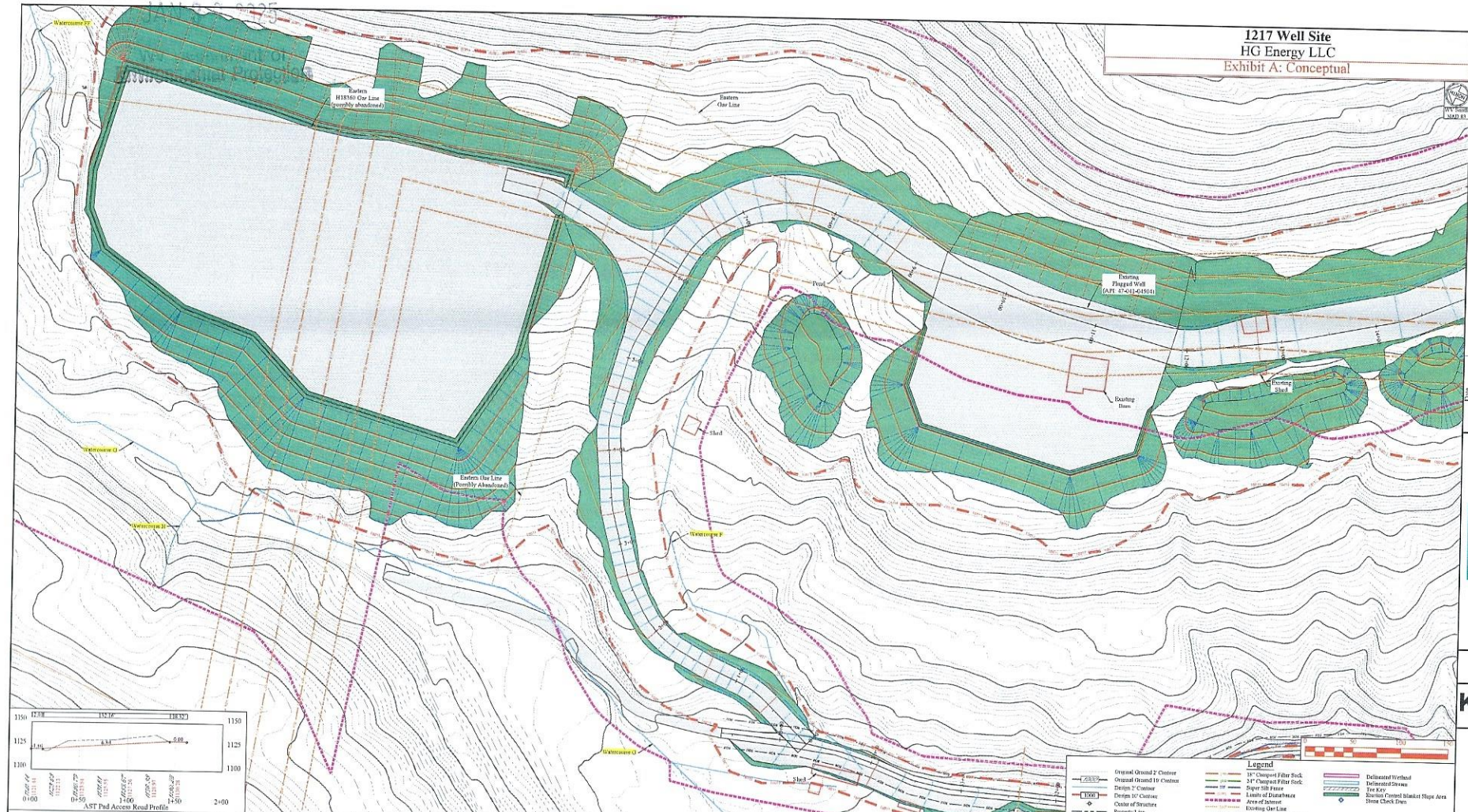
Site Plan

THIS DOCUMENT
PREPARED FOR
HG ENERGY LLC

Kelly Surveying
INCORPORATED
1000 1st Street
Martinsburg, WV 26150
304-261-1111

Ulna 05192024
Scale: As Shown
Designed by: ZS
File No:
Sheet 4 of 7

1217 Well Site
HG Energy LLC
Exhibit A: Conceptual



THIS DOCUMENT
PREPARED FOR
HG ENERGY LLC



Kelly Surveina
 Surveying & Mapping
 1000 1st Street
 Lewisburg, TN 37078

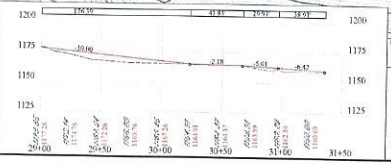
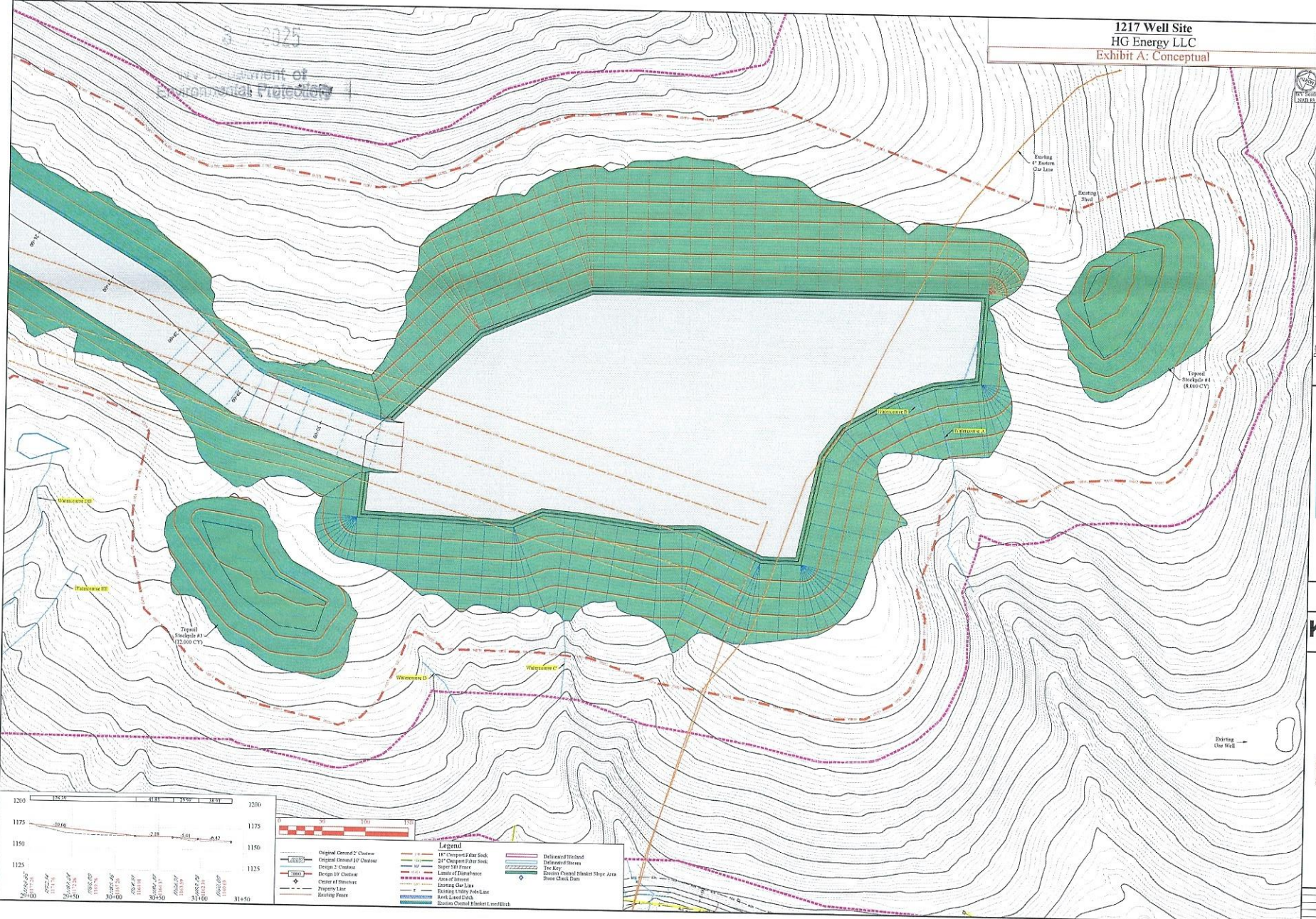
Site Plan
 1217 Well Site
 Freemans Creek District
 Lewis County, WV

Date: 01/13/2024
 Scale: As Shown
 Designed by: GS
 File No: 24-001
 Sheet 5 of 7

3 2025

Department of
Environmental Protection

1217 Well Site
HG Energy LLC
Exhibit A: Conceptual



Legend		
Original 20' Contour	18" Diameter Fiber Sock	Delimited Wellhead
Original 40' Contour	24" Diameter Fiber Sock	Delimited Stream
Design 2' Contour	Superfill Slope	The Sky
Design 10' Contour	Limit of Disturbance	Existing Protected Shaded Slope Area
Center of Stream	Area of Interest	Stream Channel
Property Line	Existing One Line	
Existing Fence	Existing Utility Trench for Bank Line Check	
	Existing Channel Bank Line Check	



THIS DOCUMENT
PREPARED FOR
HG ENERGY LLC



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

Date: 05/13/2024
Scale: As Shown
Designed By: ZS
File No:
Sheet 7 of 7



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 Ward, Cabinet Secretary
dep.wv.gov

**ORDER
ISSUED UNDER
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A**

TO: HG Energy, LLC
5260 Dupont Circle
Parkersburg, WV 26101

DATE: March 3, 2025
ORDER NO.: 2025-W-2

INTRODUCTION

This Order (hereinafter “Order”) is issued by the Office of Oil and Gas (hereinafter “OOG”), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq.* to HG Energy, LLC (hereinafter “HG” or “Operator”), collectively the “Parties.”

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.
2. HG is a “person” as defined by W. Va. Code §22-6-1(n), with a corporate address as 5260 Dupont Circle, Parkersburg, WV 26101.
3. On January 30, 2025, HG submitted a well work permit application identified as API# 47-041-05773. The well is located on the Gum 1217 Pad in the Freemans Creek District of Lewis County, West Virginia.
4. On January 30, 2025, HG requested a waiver for Wetland R and a Farm Pond as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-041-05773. Wetland R is outside the LOD limits of the 100’ buffer of the pad area and will not be included in this waiver.

CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that “in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to... (3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing.”
2. West Virginia Code §22-6A-2(a)(6) requires, in part, that “Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter.”
3. West Virginia Code §22-6A-12(b) requires, in part, that “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 Office of Oil and Gas 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 Office of Oil and Gas 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.”

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that “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. The Office of Oil and Gas grants the request for a waiver for the Farm Pond from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-041-05773. The Office of Oil and Gas hereby **ORDERS** that HG shall meet the following site construction and operational requirements for the Gum 1217 Well Pad:

- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24”) in height.
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs.
- c. The Farm Pond shall be protected by a layer of Belted Silt Retention Fence and Super Silt Fence. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetland.
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual.
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill.
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill.
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls.
- h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs.
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½”) rain within any twenty-four (24) hour period.
- j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies.
- k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 3rd day of March 2025.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By: 
JAMES A. MARTIN, CHIEF

4704115773

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.

03/07/2025

11/3/14

Wetland and Perennial Stream Waiver Request

4704115773

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.

- 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

03/07/2025

11/3/14

Wetland and Perennial Stream Waiver Request

4704115773

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'.

- 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'.

03/07/2025

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

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.