

#### 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

Thursday, November 7, 2024 WELL WORK PERMIT Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re:

Permit approval for VAN WIE 1221 S-12H

47-041-05771-00-00

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

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

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

Operator's Well Number: VAN WIE 1221 S-12H

Farm Name: HG ENERGY II APPALACHIA

U.S. WELL NUMBER: 47-041-05771-00-00

Horizontal 6A New Drill

Date Issued: 11/7/2024

Promoting a healthy environment.

API Number: 4704105771

#### 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.

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

		-		
1) Well Operator: HG Energy	II Appalachia,		Lewis	Freeman Vadis 7.5'
		Operator ID	County	District Quadrangle
2) Operator's Well Number: Va	n Wie 1221 S-1	2H / Well Pa	ad Name: Var	n Wie 1221
3) Farm Name/Surface Owner:	HG Energy II Appalac	hia, LLC Public Ro	oad Access: C	R 11/3 aka Straight Run Road
4) Elevation, current ground:	<b>1256'</b> E	levation, proposed	d post-construc	tion: 1251.7'
5) Well Type (a) Gas x Other	Oil	Un	derground Stor	age
(b)If Gas Sha	ıllow <u>x</u>	Deep		
Hor	rizontal x			
6) Existing Pad: Yes or No No				
7) Proposed Target Formation(s Marcellus at 7002' / 7049' and	Account to the contract of the		***************************************	Pressure(s):
8) Proposed Total Vertical Dept	h: 7,035'	/		
9) Formation at Total Vertical D	epth: Marcellu	is /		
10) Proposed Total Measured D	epth: 16,721'	/		
11) Proposed Horizontal Leg Le	ngth: 7,596'	/		
12) Approximate Fresh Water S	trata Depths:	150', 181', 826	/	
13) Method to Determine Fresh	Water Depths:	Nearest offset w	ell data, (47-0	17-02906, 2480, 4233, )
14) Approximate Saltwater Dep	ths: NA			
15) Approximate Coal Seam De	pths: 220' - 225', 42	.8'-438', 495'-501' (Surf	ace casing is being	extended to cover the coal in the DTI Field)
16) Approximate Depth to Possi	ble Void (coal m	ine, karst, other):	None	
17) Does Proposed well location directly overlying or adjacent to		ms Yes	N	o X
(a) If Yes, provide Mine Info:	Name:			
	Depth:		RECEIVED Office of Oil and G	200
	Seam:			
	Owner:		OCT 0 7 202	4
		F	WV Department	of stien

WW-6B (04/15) 4704105771

API NO. 47-\_\_

OPERATOR WELL NO. Van Wie 1221 S-12H
Well Pad Name: Van Wie 1221

18)

#### CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	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'	CTS
Fresh Water/Coal	20"	NEW	J-55	94	1225'	1225'	40% Excess, CTS
Intermediate 1	13 3/8"	NEW	J-55 BTC	68	2760'	2760'	40% Excess, CTS
Intermediate 2	9 5/8"	NEW	N/L-80 BTC	40	6750'	6750' /	40% Excess Tail, CTS
Production	5 1/2"	NEW	P-110 HP	23	16721'	16721'	20% Excess Tail, CTS
Tubing							
Liners							

Kenneth Greynolds Distribly signed by: Kenneth Greynolds Enail - Kenneth Greynolds email - Kenneth L. Greynolds eway gov C = AD O = WVDEP OU = Oil and Gas Date: 2024.09.23.13/41:39-0400°

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	Load 40% excess, Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	5750		Type 1/Class A	Load 40% excess, Tall 0% Excess
Production	5 1/2"	8 1/2"	.415	16240 /	12500	Type 1/ClassA	20% excess yield = 1.19, tail yield 1.94
Tubing							
Liners							

#### **PACKERS**

Kind:	RECEIVED Office of Oil and Gas
Sizes:	OCT 0 7 2024
Depths Set:	WV Department of Environmental Protection

Well Pad Name: Van Wie 1221

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 7035'. Drill horizontal leg to estimated 7,596' lateral length, 16,721' 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): 24.95 acres

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

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing.

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

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

Conductor -N/A, Casing to be drilled in W Dual Rolary Rig.

Fresh Water/Coal - \*15.5 ppg PNE-1 + 3% bwoc CaCl40% ExcessYield=1.20 / CTS

slate 1 - \*\*\* Storage String \*\* CTS \*\*\*15.4 ppg Load - 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 India Loss / D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / sack VBWOB Anti Foam / D202 - 0.15% BWOB GasBLOR\* / D013 - 0.75% BWOB Retarder / D047 - 0.02 gal / sack with a company of sack Retarder / D047 - 0.02 gal / sack Retarder / D047 - 0.02 gal / sack with a company of sack Retarder / D047 - 0.02 gal / sack with a company of sack Retarder / D047 - 0.02 gal / sack with a company of sack Retarder / D047 - 0.02 gal / sack with a company of sack Retarder / D047 - 0.02 gal / sack with a

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

Production - "Lead: 14.5 ppg POZ PNE-1 + 0.3% blvoc R3 + 1% blvoc EC1 + 0.75 galvsk FP13L + 0.3% blvoc R3 + 0.75 galvsk FP13L + 50% blvoc ASCA1 + 0.5% blvoc ASCA1 + 0.5% blvoc R3 + 0.76 galvsk FP13L + 50% blvoc ASCA1 + 0.5% blvoc ASCA1 + 0.5% blvoc R3 + 0.76 galvsk FP13L + 0.3% blvoc R3 + 0.75 galvsk FP13L + 0.75 galvsk FP13L + 0.3% blvoc R3 + 0.75 galvsk FP13L + 0.3% blvoc R3 + 0.75 galvsk FP13L + 0.75 galvsk FP13

25) Proposed borehole conditioning procedures:

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

ate 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 bettem/TD with casing, circulate at max silewable 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 cament

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WV Department of Environmental Protection

\*Note: Attach additional sheets as needed.

## HG Energy II Appalachia, LLC Van Wie 1221 Well Pad (N-1H to S-12H) Cement Additives

Material Name	Material Type	Material Description	CAS#		
		Premium NE-1 is a	Ingredient name	%	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide	1-5	1305-78-8
	and the second	strength properties.	Magnesium oxide Crystalline silica: Quartz (SiO2)	1 - 5	1309-48-4 14808-60-7
emium NE-1	Portland Cement			1277	1 100000
		Commonly called gel, it is a clay material used as a	Ingredient name	%	CAS number
		cement extender and to	bentonite	90 - 100	1302-78-9
		control excessive free	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
		water.			
tonite	Extender				
		A powdered, flaked or	E	122	[20]
		pelletized material used	Ingredient name	%	CAS number
		to decrease thickening time and increase the rate	Calcium chloride	90 - 100	10043-52-4
		of strength development			
ium Chloride	Accelerator				
		Graded (3/8 to 3/4 inch)	Ingredient name	%	CAS number
		cellophane flakes used as	No hazardous ingredient	70	OAD HUMBER
		a lost circulation material.			
Flake	Lost Circulation				
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in cementing operations. It			
		is very effective	Ingredient name	9/2	CAS number
		minimizing air	Tributyl phosphate	90 - 100	126-73-8
		entrapment and		100000	35.55
		preventing foaming			
		tendencies of latex			
12)	Face Decree	systems.			
13L	Foam Preventer		To the second se		
		Used to retard cement	Ingredient name	%	CAS number
nulated Sugar	Retarder	returns at surface.	Sucrose	90 - 100	57-50-1
		A proprietary product that			
		provides expansive			
		properties and improves			
		bonding at low to	Ingredient name	%	CAS number
		moderate	Calcium magnesium oxide	90 - 100	37247-91-9
1		temperatures.			
		Multi-purpose polymer			
		additive used to control	Ingredient name	%	CAS number
		free fluid, fluid loss,	No hazardous ingredient	-	
A-170	Gas Migration	rheology, and gas migration.	1		- 1
. 4. 4	Sas , rigianon	,g. 2.,.011,			
		A synthetic pozzolan,			
		(primarily Silicon Dioxide).  When blanded with			
		When blended with cement, Pozzolan can be	9		
		used to create	Ingredient name	%	CAS number
		lightweight cement	Crystalline silica: Quartz (SiO2) Calcium oxide	5 - 10 1 - 5	14808-60-7 1305-78-8
		slurries used as either a	- Sandari Value	13	1303-76-6
		filler slurry or a sulfate	RECEIVED		
		resistant completion cement.	Office of Oil and Gas		
Fly Ash)	Base				
		A laure consume	OCT <b>0 7</b> 2024		
		A low temperature retarder used in a wide		Tax	
		retarder used in a wide range of slurry	Ingredient name Organic acid salt  WW Department of	%	CAS number
		formulations to extend	Organic acid salt  WW Department of  Environmental Protection	40 - 50	Trade secret.
		the slurry thickening time.	Environmental Protection	1	
	Retarder				
			Ingredient name	%	CAS number
			- Control of the cont	14	SAG Humber
			2-Butoxyethanol	20 - 30	111-76-2
			2-Butoxyethanol Proprietary surfactant	20 - 30 10 - 20	111-76-2 Trade secret.
		Used to water wet casing	Proprietary surfactant D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	10 - 20 5 - 10	Trade secret. 110615-47-9
		Used to water wet casing and formation to facilitate	Proprietary surfactant	10 - 20	Trade secret.

15.4 ppg Lead - Yield 1.24 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements) 8048 - 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 pg Tall - 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 /

## 1221 S-12H Marcellus Shale Horizontal Doddridge County, WV



-4

DB01 = 0.03 gal / sack Rétarder - 0% Excess 14197274.35N 1734313.86E 1221 S-12H SHL 14198017.96N 1738201.6E 1221 S-12H LP 1251.77 Ground Elevation 14190862.53N 1740725.1E 1221 S-12H BHL 160.021° Azm CEMENT CENTRALIZERS CONDITIONING COMMENTS BASE MUD CASING GEOLOGY TOP WELLBORE DIAGRAM HOLE Ensure the hole is clean at Conductor casing = 0.5" wall N/A, Casing to be drilled 30" 157.5# N/A AIR 30" thickness in w/ Dual Rotary Rig LS 120 Conductor Once casing is at setting 15.6 ppg PNE-1 + 3% depth, circulate a minimum Surface casing = 0.438" Wall bwoc CaCl Centralized every 3 20" AIR of one hole volume with thickness 746 26" Coal 740 40% Excess joints to surface 94# J-55 Fresh Water prior to Burst=2110 psi Yield=1.20 / CTS Fresh Water pumping cement. 1225 0 Protection Once casing is at setting Little Lime 2167 2187 See above (LEFT) for Bow Spring on every depth, Circulate and AIR / KCL Storage String Cement Intermediate casing = 0.480" 2216 2265 joint Big Lime condition at TD. Circulate 13-3/8" 68# will also be running wall thickness Blend to Meet DTI Salt 17.5" minimum of one hole 2361 / 264 J-55 BTC 2265 / 2597 Injun / Gantz (Storage) ACP for isolating Burst=3450 psi Requirements for Gas Polymer volume prior to pumping Storage Field Isolation storage zone 2760 0 Intermediate 1 cement 2799 Thirty Foot 2789 Gordon 2837 2915 3066 3102 Once casing is at setting 5th Sand Lead: 15.4 ppg PNE-1 depth, Circulate and 2.5% bwoc CaCl Bow Spring on first 2 3161 3174 Intermediate casing = 0.395' Bayard AIR / KCI 40% Excess / Tail: 15.9 joints then every third condition mud at TD. 9-5/8" 40# wall thickness Salt 12.25" Speechley 3634 3866 ppg PNE-1 + 2.5% bwoc joint to 100' form Circulate a minimum of one N / L-80 BTC Burst=5750 psi Polymer CaCl surface hole volume prior to 5038 5072 Benson zero% Excess. CTS pumping cement. 5444 5324 Alexander TVD: 5675 0 MD: 6750' Inc: Intermediate 2 44 dea. Run 1 spiral centralizer AIR / WV Department of Environmental Protection every 5 joints from the 9.0ppg RECEIVED Office of Oil and 8.75" top of the curve to Lead: 14.5 ppg SOBM surface POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc 6303 6591 EC1 + 0.75 gal/sk FP13L Once on bottom/TD with Rhinestreet + 0.3% bwoc MPA170 casing, circulate at max Production casing = 0.415" 6591 6736 Cashagua allowable pump rate for at Tail: 14.8 ppg PNE-1+ wall thickness 5-1/2" least 2x bottoms up, or until Middlesex 6736 6815 0.35% bwoc R3 + 0.75 11.5ррр Burst=16240 psi 23# returns and pump pressures gal/sk FP13L + 50% Gas Note: Actual centralizer 6884 12.5ppg 8.5" Curve West River 6815 P-110 HP bwec ASCA1 + 0.5% indicate the hole is clean. schedules may be changed SOBM Run 1 spiral centralizer TXP / W461 6884 6925 bwoc MPA170 Circulate a minimum of one Burkett due to hole conditions every 3 joints from the 20% Excess hole volume prior to 1st 5.5" long joint to the Tully Limestone 6925 8952 Lead Yield=1.19 pumping cement. top of the curve. 6952 7002 Hamilton Tall Yield=1.94 CTS Marcellus 7002 7049 11.5ppg-TMD / TVD 7035 16721 12.5ppg 8.5" Lateral (Production) SOBM Onondaga 7049 X X X X X X TD @ +/-7035' TVD 8.5" Hole - Cemented Long String LP @ 7035' TVD / 9125' +/-7596' fl Lateral ±/-16721 MD 5-1/2" 23# P-110 HP TXP / W461 MD X X=cerntralizers X X X X X

### 4704105771

API Number 47 - \_\_\_\_ - Operator's Well No. Van Wie 1221 S-12H

### 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 Q	uadrangle Vadis 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the	proposed well work? Yes V No 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 Numb	
Reuse (at API Number TBD - At next anticipated  Off Site Disposal (Supply form WW-9 for a	
Other (Explain_	
Will closed loop system be used? If so, describe:Yes, cuttings and fluids will be compared to the compa	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)? Ai	r, freshwater, oil based, etc
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Water, Soap, KCl, Barite, Base C	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 an	ny load of drill outtings or associated waste rejected at any
West Virginia solid waste facility. The notice shall be provided within where it was properly disposed.	
I certify that I understand and agree to the terms and conditio on August 1, 2005, by the Office of Oil and Gas of the West Virginia I provisions of the permit are enforceable by law. Violations of any te law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally exami application form and all attachments thereto and that, based on mobtaining the information, I believe that the information is true, acceptable for submitting false information, including the possibility of forcement Official Signature	Department of Environmental Protection. I understand that the rm or condition of the general permit and/or other applicable ned and am familiar with the information submitted on this y inquiry of those individuals immediately responsible for curate, and complete. I am aware that there are significant
But the latest the lat	OCT 0 7 2024
company official (Typed Fame)	WV Department of
Company Official Title Agent	Environmental Protection
Subscribed and sworn before me this 19th day of September	20.24
Subscribed and sworn before me this 19th day of September	OFFICIAL SE
- Uning	Notary Public Notary Public Slate Of West V
My commission expires 11/2/2026	UG Energy LI Szeri Dupron R PARKI PSPI Ibro

## Cuttings Disposal/Site Water

Cuttings -Haul off Company:

Eap Industries, Inc. DOT # 0876278 1875 Smith Two State Rd. Atlasburg, PA 15004 1-888-294-5227

Waste Management 200 Rangos Lane Washington, PA 15301 724-222-3272

Environmental Coordination Services & Recycling (ECS&R) 8287 US Highway 19 Cochranton, PA 16814 814-425-7778

Disposal Locations:

Apex Environnemental, LLC Permit # 06-08488 11 County Road 78 Amsterdam, OH 48908 740-548-4889

Westmoreland Waste, LLC Permit # 100277 111 Conner Lane Belle Vernon, PA 15012 724-929-7694

Sycamore Landfill Inc., Permit #R80-079001, 05-2010 4301, Sycamore Ridge Road Hurricane, WV 25526 304-562-2611.

Max Environnemental Technologies, Inc. Facility Permit # PAD004835146 / 901071, 283 Max Lane Yukon, PA 25968 724-722-8500

Max Environnemental Technologies, Inc. Facility Permit # PAD05087072 / 301359 200 Max Driva Bulgar, PA 15019 724-796-1571

Waste Management Kelly Run Permit # 100563 1901 Park Side Drive Elizabeth, PA 15037 412-384-7569

Waste Management South Hills (Arnoni) Permit # 100592 3100 Hill Road Library, PA 15129 724-348-7013 412-384-7569

Waste Management Arden Permit # 100172 200 Rangos Lane Washington, PA 15801 724-222-3272

Waste Management Meadowill Permit # 1032 1,488 Dawson Drive Bridgeport, WV 26330

Brooke County Landfill Permit # SWF-103-87 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 304-748-0014 RECEIVED
Office of Oil and Gas

OCT 0 7 2024

WV Department of Environmental Protection

11/08/2024

Wetzel County Landfill Permit # SWF-1021-97 / WV 0109186 Rt 1 Box 156A New Martinsville, WV 26035 804-456-8800

Energy Solutions, LLC Permit # UT 2800249 425 West 200 South Suite 200 Salt Lake City, UT 84101

Energy Solutions Services, Inc. Permit # R-73006-L24 1560 Bear Creek Road Oak Ridge, TN 37880

Northern A-1 Environnemental Services Permit ID MID020906814 8947 US 131 North, PO Box 1030 Kalkaska, MI 49646 281-258-9961

### Water Haul off Companies:

Dynamic Structures, Clear Creek DOT # 720485 3790 State Route 7 New Waterford, OH 44445 330-892-0164

Nabors Completion & Production Services Co. PO Box 975682 Dallas, TX 75397-5682

Select Energy Services, LLC PQ Box 203997 Dallas, TX 75320-3997

Nuverra Environmental Solutions 1.1942 Veterans Memorial Highway Masontown, WV 26542

Mustang Olifield Services LLC PO Box 739 St. Claireville, OH 48950

Wilson's Outdoor Services, LLC 456 Cracraft Road Washington, PA 15801

### Disposal Locations:

Solidification
Waste Management, Arden Landfill Permit # 100172
200 Rangos Lane
Washington, PA 15301
724-225-1589

Solidification/Incineration Soil Remediation, Inc. Permit # 02-20753 6065 Arrel-Smith Road Lowelville, OH 44436 830-536-6825

Adams #1 (Buckeye Brine, LLC) Permit # 34-031-2-7177 28986 Airport Road Coshocion, OH 48812 740-575-4484 512-478-6545 CMS of Dalaware Inc. DBA CMS Ollfleid Serv 301 Commerce Drive Moorestown, NJ 08057

Force, inc. 1380 Rte. 286 Hwy. E, Sulte 203 Indiana, PA 15701

salo Construction P.O. Box 544 St. Mary's, WV 26170

Equipment Transport 1 Tyler Court Carlisie, PA 17015

Myers Well Service, \_\_\_ 2001 Belipark Court Export, PA 15632

Burns Drilling & Excavating 618 Crabapple Road P.O. Box Wind Ridge, PA 16980

Nichlos 1-A (SWIW #18) Permit # 3862 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-829-7275

Grosella (SWIW #34) Permit # 4096 Rt. 88 Garrattsvilla, CH 713-275-4816

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 48767 614-648-8898 740-786-6495

11/08/2024

Adams #2 (Buckeye Brine, LLC) 2205 Westover Road Austin TX 78703 Permit # 34-031-2-7178 740-575-4484 612-478-6545

Adams #2 (Buckeye Brine, LLC) Permit #34-081-2-7241-00-00 2680 Exposition, Suite 117 Austin, TX 78703 512-478-6545

Mozena #1 Well (SWIW # 18) Permit # 84-157-2-5511-00-00 5367 E. State Street Newcomerstown, OH 48832 740-763-3966

Goff SWD #1 (SWIW # 27)
Fermit # 84-119-2-8776-000
300 Cherrington Pkwy, Sulte 200
Coraopolis, PA 15108
412-829-7275

SOS D#1 (SWIW #12)
Permit # 84-059-2-4202-00-00
Silcor Oilfield Services, Inc.
2939 Hubbard Road
Youngstown, PH 44505

Dudley #1 UIC (SWIW #1)
Permit # 34-121-2-2459-00-00
Select Energy Services, LLC
7994 S. Pleasants Hwy
St. Marys, WV 26170
304-665-2652

OH UIC #1. Bu keya UIC Barnesville 1 & 2 CNX Gas Con...iany, LLC 1000 Consol Energy Drive Permit # 84-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 804-828-6668

US Staele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15780 304-828-6568

Chapin #7 UIC (SWIW #7)
Permit # 34-083-2-4187-00-00
Elkhead Gas& Oil Company
12163 Marne Rd. NE
Newark, OH 43055
740-763-3966

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Office of Oil and Gas

OCT 0 7 2024

Form WW-9

Operator's Well No. Van Wie 1221 S-12H

Proposed Revegetation Treat	ment: Acres Disturb	bed 51.82 Prevege	tation pH
Lime	3 Tons/acre or to	correct to pH 6.5	
Fertilizer type10	-20-20		
Fertilizer amount_		500 lbs/acre	
MulchHay		Z Tons/acre	
		Seed Mixtures	
Te	mporary		Permanent
Seed Type Tall Fescue	lbs/acre	Seed Type Tall Fescue	lbs/acre 40
Ladino Clover	5	Ladino Clover	5
Attach: Maps(s) of road, location, pit provided). If water from the pacreage, of the land application	and proposed area to bit will be land applition area.	e drilling and completion processor for land application (unless engineered placed, include dimensions (L x W x D) of the esheet.	ns including this info have been
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involv	and proposed area to bit will be land applition area. ved 7.5' topographic	for land application (unless engineered pla ied, include dimensions (L x W x D) of the	ns including this info have been
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involve Plan Approved by:  Processor	and proposed area to bit will be land applion area. wed 7.5' topographic	for land application (unless engineered platied, include dimensions (L x W x D) of the sheet.  Sheet.  Digitary signed by, Kenneth Greynolds  Sign C x = Kenneth Greynolds emile   Kenneth L. Greynolds@ww.  Bold Sign C x = D or = WDEP Out = Cit and Gas  Gast. 2024 08-23 134-500-04007	ns including this info have been pit, and dimensions (L x W), and
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involv Plan Approved by: Comments: Pre-seed	and proposed area to bit will be land applion area.  ved 7.5' topographic nneth Greynod/mulch as so	for land application (unless engineered pla ied, include dimensions (L x W x D) of the sheet.	ns including this info have been pit, and dimensions (L x W), and
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involv Plan Approved by: Comments: Pre-seed	and proposed area to bit will be land applion area.  ved 7.5' topographic nneth Greynod/mulch as so	for land application (unless engineered plaided, include dimensions (L x W x D) of the set.  Sheet.  Didson CN = Kanneth Greynolds Sheet & Book CN = Kanneth Greynolds Sheet &	ns including this info have been pit, and dimensions (L x W), and
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involv Plan Approved by: Comments: Pre-seed	and proposed area to bit will be land applion area.  ved 7.5' topographic nneth Greynod/mulch as so	for land application (unless engineered plaided, include dimensions (L x W x D) of the set.  Sheet.  Didson CN = Kanneth Greynolds Sheet & Book CN = Kanneth Greynolds Sheet &	ns including this info have been pit, and dimensions (L x W), and
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involv Plan Approved by: Comments: Pre-seed	and proposed area to bit will be land applion area.  ved 7.5' topographic nneth Greynod/mulch as so	for land application (unless engineered plaided, include dimensions (L x W x D) of the set.  Sheet.  Didson CN = Kanneth Greynolds Sheet & Book CN = Kanneth Greynolds Sheet &	ns including this info have been pit, and dimensions (L x W), and
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involv Plan Approved by: Comments: Pre-seed	and proposed area to bit will be land applion area.  ved 7.5' topographic nneth Greynod/mulch as so	for land application (unless engineered plaided, include dimensions (L x W x D) of the set.  Sheet.  Didson CN = Kanneth Greynolds Sheet & Book CN = Kanneth Greynolds Sheet &	ns including this info have been pit, and dimensions (L x W), and
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involv Plan Approved by: Comments: Pre-seed	and proposed area to bit will be land applion area.  ved 7.5' topographic nneth Greynod/mulch as so	for land application (unless engineered plaided, include dimensions (L x W x D) of the set.  Sheet.  Didson CN = Kanneth Greynolds Sheet & Book CN = Kanneth Greynolds Sheet &	ns including this info have been pit, and dimensions (L x W), and le per regulation.  nual.

### HG Energy II Appalachia, LLC

### Site Safety Plan

Van Wie 1221 Well Pad 2891 Straight Run Road, Alum Bridge Doddridge County, WV 26321

January 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

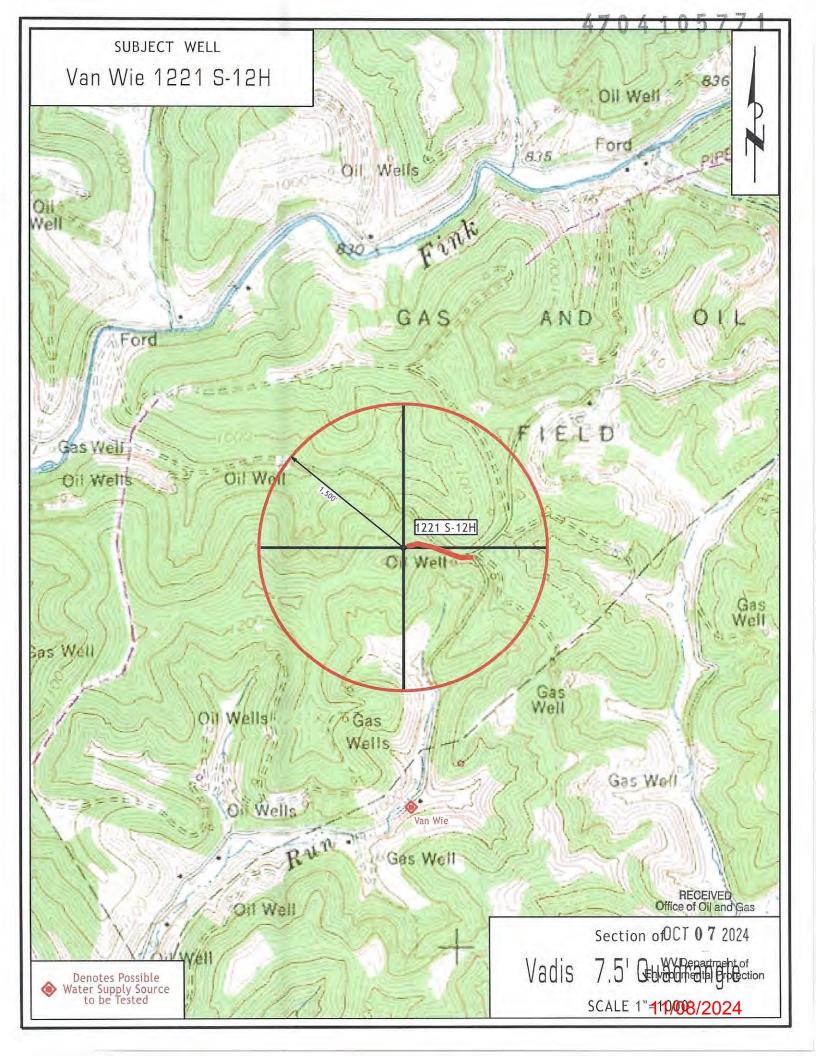
Parkersburg, WV 26101

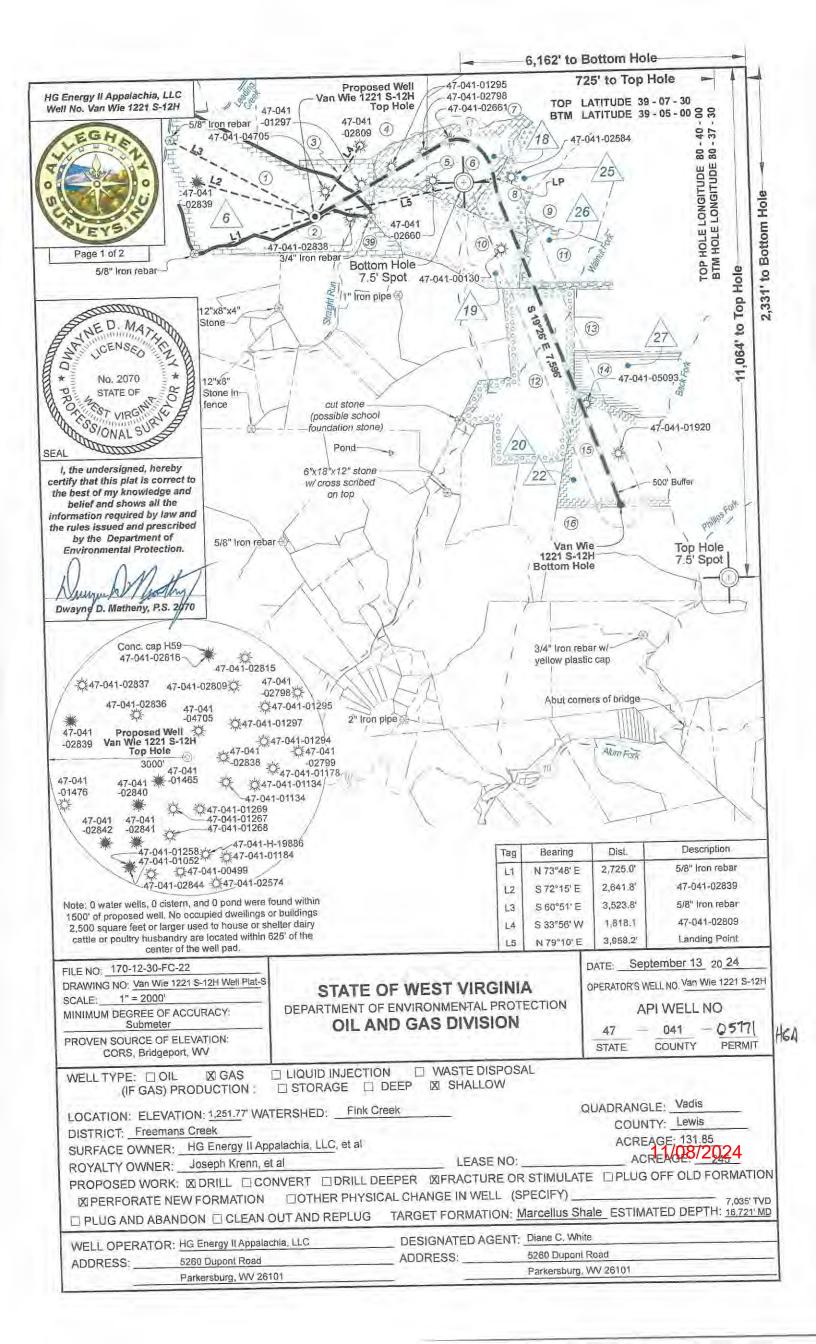
Renneth Greynold Spic of Favor Departs and Favor Departs.

Kenneth Greynold Spic of Favor Departs early Favor Departs early Favor Departs and Favor Departs

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HG Energy II Appalachia, LLC Well No. Van Wie 1221 S-12H



Page 2 of 2

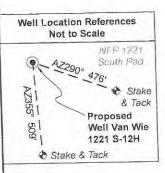
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements. UTM Zone 17, NAD 1983

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 1221 S-12H
WVCS 1927, North Zone
Top Hole Coordinates
Lat: 39°05'40.60"
Lon: 80°40'09.20"
Landing Point Coordinates
Lat: 39°05'47.81"
Lon: 80°39'19.84"
Bottom Hole Coordinates
Lat: 39°04'36.96"
Lon: 80°38'48.17"

Notes: Well No.
Van Wie 1221 S-12H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,197,274.35'
E: 1,734,313.86'
Landing Point Coordinates
N: 14,198,017.96'
E: 1,738,201.60'
Bottom Hole Coordinates
N: 14,190,862.53'
E: 1,740,725.10'

Notes: Well No.
Van Wie 1221 S-12H
UTM NAD 1983 (Meters)
Top Hole Coordinates
N: 4,327,337.877m
E: 528,619.922m
Landing Point Coordinates
N: 4,327,564.529m
E: 529,804.907m
Bottom Hole Coordinates
N: 4,325,383.550m
E: 530,574.072m



		Legend
	•	Proposed gas well
	0	Well Reference, as noted
	$\Leftrightarrow$	Monument, as noted
	*	Existing Well, as noted
	*	Existing Plugged Well, as noted
	禁	Digitized Well, as noted
-	-	- Creek or Drain
-1		- Existing Road
_	_	Surface boundary (approx.)

D	Lease
6	Joseph Krenn, et ux
18	HG Energy II Appalachia, LLC.
19	J.C. & A.C. Starcher
20	HG Energy II Appalachia, LLC.
22	Michael N. Cullen, et ux, et al
25	J.C. Starcher
26	Harmon Lunsford
27	James W. Hines, et ux, et al

(46. O.C.)	J'san	OO SE MEI
1 43	-	OR SEA WELL TO STAN
	6 1227 S. 10x	CATE A
, 55-76.	L'OX	
	Lande Tonk	Jan Me 127 S. O. Jan Me 127 S. O. J. S.

		Lewis Co. (Freemans Creek Dist.)		
No.	TM / Par	Owner	Bk / Pg	Ac.
1	2D/3	HG Energy II Appalachia, LLC	800 / 637	131.85
2	2D / 29	Anthony S. & Dawn H. VanWie	732 / 622	26.63
3	2D / 3.1	HG Energy II Appalachia, LLC	800 / 637	20.00
4	2C/7	James R. & Shelia A. Gum, II	721/350	350.78
5	2D / 38	William J. & Ann McCutchan	793 / 173	26.96
6	2D/40	Judith A. Rioch	403 / 270	63.89
7	2D / 42	Frances McCutchan, et al	726 / 561	124.30
8	2D / 45	Matthew D. & Linda S. Richards	553 / 117	54.00
9	2D / 50	Charles H. & Mabel L. Rastle	431 / 650	73.76
10	2D / 37	Jacob R. Straley Heirs	728 / 53	97.00
11	2D/46	Turia King, et al	254 / 19	63.50
12	2D / 47	Frances McCutchan, et al	726 / 551	151.00
-	3D/6	Richard & Debra A. Bonfig	582 / 116	40.00
13		Veronica T. & Francis A. Brumley, Jr.	652 / 474	65.50
14	3D / 9.1	David B. Lang	620 / 45	110.00
15	3E/1	Thomas Quinn, et al	W46 / 21	95.50
16	3E/2		ber 13 20	

STATE

QUADRANGLE: Vadis
COUNTY: Lewis

FILE NO:	170-12-30-FC-22
DRAWING	NO: Van Wie 1221 S-12H Well Plat-S
	1" = 2000'
MINIMUN	DEGREE OF ACCURACY: Submeter
PROVEN	SOURCE OF ELEVATION:

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

OPERATOR'S WELL NO. Van Wie 1221 S-12H

API WELL NO

47 — 041 — 05771

COUNTY

CORS, Bridgeport, WV			
WELL TYPE: ☐ OIL			WASTE DISPOSAL SHALLOW
LOCATION: ELEVATION: 1,251.77	" WATERSHE	D: Fink Creek	
DISTRICT: Freemans Creek			
SURFACE OWNER: HG Energy	Il Appalachia,	LLC, et al	
ROYALTY OWNER: Joseph Kre	enn, et al		LEASE NO:
PROPOSED WORK: XI DRILL	and the second s	☐ DRILL DEEPER	XIFRACTURE OR STIMU

USTRICT: Freemans Creek URFACE OWNER: HG Energy II Appalachia, LLC, et al		ACREAGE: 131.85 ACREA 08/2024
locoph Kronn et al	LEASE NO:	ACREASE OLD FORMATION
ROYALTY OWNER:	CHANGE IN WELL (SPECIFY)	7 035' TVD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TA	ARGET FORMATION: Marcellus Sha	
	DESIGNATED AGENT. Diane C. White	

WELL OPERATOR: HG Energy II Appalachia, LLC

ADDRESS: 5260 Dupont Road

Parkersburg, WV 26101

DESIGNATED AGENT: Diane C. White

5260 Dupont Road

Parkersburg, WV 26101

H6A

PERMIT

WW-6A1 (5/13)

Operator's Well No. Van Wie 1221 SA2H

#### 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
The state of the s	C i		20.00	

\*\*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 cotenants will be secured pursuant to the Co-Tenancy Act

Horizontal Well Unit Utilization - Subjet to unitilization filing with te 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

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OCT 0 7 2024

WV Department of **Environmental Protection** 

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 A	Appalachia, LLC
By:	Diane White	Diane White
Its:	Agent	

#### HG Energy II Appalachia, LLC Van Wie 1221 S12H Lease Chain

221S Tract	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE		
2215 Tract	NOMBER	Truction		JOSEPH KRENN AND EMILY E. KRENN, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42			
				WILLIAM A. LOUWTHER	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	156	570+F64		
				SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	ASSIGNMENT	156	3701104		
				SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	294			
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	425			
			11	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT				
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos			
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9			
		03-002D-0003-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672			
		03-002D-0003-0001		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684			
	FK054825	03-002D-0003-0003	0.400000000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY INC	NOT LESS THAN 1/8	692			
/ 6	FK079440 FEE	03-002D-0028-0000	Q100903000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712			
	FK0734401 CC	03-002D-0029-0000			NOBLE ENERGY, INC.	ASSIGNMENT	717			
		03-002D-0030-0000		CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722			
			NOBLE ENERGY, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS				
			DOMINON TRANSMISSION, INC.	DOMINION ENERGY (WAREAUTER)	SECOND AMENDMENT TO MEMORANDUM OF					
				DIAL MODERN CONTRACTOR AND	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723			
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF				
				A STATE OF THE STA	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734			
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736			
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740			
				DOMINION ENERGY TRANSMISSION, INC.	TIO ENERGY IN THE TOTAL OF THE PERSON OF THE			11		
		03-002D-0038-0000	EV070442 FFF		and the state of t		740			
/ 18	FK079442 FEE	03-002D-0040-0000	FK079442 FEE	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPÁLACHIA, LLC	MINERAL DEED				
	A	p/o 03-002D-0042-0000		J. C. STARCHER AND A. C. STARCHER	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	39			
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	52			
					SOUTH PENN NATURAL GAS CO	ASSIGNMENT	156			
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	166			
						SOUTH PENN NATURAL GAS CO	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
1	FK002931		FK002931	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425			
19	FK002931 FK079469 FEE	03-002D-0037-0000	FK079469 FEE	CONSOLIDATED GAS SUPPLY CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51			
	FK0/9469 FEE		111073 100 7.22	CONSOLIDATED GAS TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9			
				CNG TRANSMISSION CORPORATION	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS			
				DOMINION TRANSMISSION, INC.	EASTERN GAS TRANSMISSION AND STORAGE, INC.	MERGER/NAME CHANGE	WVSOS			
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	798	3		
		Щ		EASTERN GAS TRANSMISSION AND STORAGE, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740			
20	FK079443	03-002D-0047-0500-	F\$\$\\00079443	DOMINION ENERGY TRANSMISSION, INC.	ING ENERGY II AFFADACINA, LEC					
.20	111075139	9 2	C		LIGHT HAT CAS COMPANY	NOT LESS THAN 1/8	68	3		
		W Department of gonmental Protec	T ee	THOMAS CULLEN; MICHAEL CULLEN AND NANCY CULLEN, HIS WIFE	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	294	1		
		en en	0 00 m	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	ASSIGNMENT	425	_		
		自計	RECEIVED of Oil and	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51			
		Pr	2 5 5	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION		9	9		
		0.3	ED Ga	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	3	1		

	i i	1		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672 684						
100	(J)			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	712						
2	0.612449	03-003E-0001-0000	Q100909000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	717						
/22	FK015004	03-003E-0029-0000	Q100303000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	722						
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	WVSOS						
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	***************************************						
				DOMINION, THE REAL PROPERTY OF THE PROPERTY OF		SECOND AMENDMENT TO MEMORANDUM OF	723						
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT THIRD AMENDMENT TO MEMORANDUM OF	71						
							734						
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT ASSIGNMENT (68%)	736						
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	COTAL COLUMN COL	39						
				J. C. STARCHER	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	85						
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	156						
				SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	ASSIGNMENT	166						
				SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	294						
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	425	_					
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	51						
		V III		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	9						
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	672						
		V		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	684						
	5.00000000	03-002D-0045-0000	Q100418000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	712						
25	FK002518		03-002D-0045-0000	03-002D-0045-0000	(100419000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	717				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	722	_					
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	WVSOS						
		1		DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	***************************************	_					
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				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	123	_					
				BOWING A CHERCY THE WASHINGTON		THIRD AMENDMENT TO MEMORANDUM OF	734						
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	736	_					
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	142	_					
				HARMON LUNSFORD, WIDOWER	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	294						
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	425						
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	51	_					
	1			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	31						
		10		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	672						
		l I		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	684						
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	712	_					
<b>/</b> 26				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	717	_					
	FK047010	03-002D-0046-0000	Q100424000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	722						
20	1110 17 025	03-0020 0040 0000	03-0020-0040-0000	22 2002 22 14 442	33 0020 0310 0000	03 0000 0010 0000	29 9000 5234 6455		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	WVSOS	_
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WV303						
				DOMINION TRANSMISSION, INC.		SECOND AMENDMENT TO MEMORANDUM OF	722						
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723						
				DOMINION ENERGY TWINDINGSTON, ITSE		THIRD AMENDMENT TO MEMORANDUM OF	734						
		Enviro		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	736	-					
		virc	0 9	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	730	_					
		ohmental Protection	RECEIVED Ga	JAMES W. HINES AND MARY A. HINES, HIS WIFE; CATHERINE S. POPE AND R. V. POPE, HER HUSBAND; ELLA G. HINES, SINGLE; EDWARD J. HINES AND CLARA E. HINES, HIS WIFE; ANNA M. RUPPERT AND W. E. RUPPERT, HER HUSBAND; AND MARY A. BROWN, WIDOW	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	196						

712	848
717	1
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'SOS	
723	499
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736	220

	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
Q100287000	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

WV Department of Environmental Protection OCT 0 7 2024

03-003D-0009-0000 03-003D-0009-0001 03-003D-0010-0000

1 27

FK060307



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

September 29, 2024

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

RE:

Drilling Under Roads - Van Wie 1221 S-12H

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 Van Wie 1221 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 Van Wie 1221 laterals will drill through, including, all roads crossed under as identified on the attached survey plat.

Should you have any questions or desire further information, please contact me at <a href="mailto:dwhite@hgenergyllc.com">dwhite@hgenergyllc.com</a> or 304-420-1119.

Very truly yours,

Diane White

Diane C. White

RECEIVED Office of Oil and Gas

OCT 07 2024

WV Department of Environmental Protection

Enclosures

WW-PN (11-18-2015)

#### 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 Newspape	<u> </u>			
Public Notice Date: Wednesday, June 5th & Wednesday	sday, June 12th, 2024			
The following applicant intends to apply for surface excluding pipelines, gathering lines any thirty day period.	or a horizontal nat s and roads <b>or</b> util	ural well wor	k permit which d n two hundred ter	isturbs three acres or more on thousand gallons of water in
Applicant: HG Energy II Appalachia, LLC		Well Nun	ıber: Van Wie 1	221 S-12H
Address: 5260 Dupont Road Parkersburg, WV 26101				
Business Conducted: Natural gas produc	tion.			
Location –				
State: West Virginia		County:	Lewis /	
District: Freemans Creek /		Quadrangle:	Vadis 7.5'	RECEIVED
UTM Coordinate NAD83 Northin	g: 4327337.9			Office of Oil and Gas
UTM coordinate NAD83 Easting: Watershed: Fink Creek	528619.9			OCT 0 7 2024
Coordinate Conversion				WV Department of Environmental Protection

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

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

Date of Noti	ce Certification: 09/29/2024	API No. 47	
		Operator's Well I	√o. Van Wie 1221 S-12H
		Well Pad Name:	Van Wie
Notice has			
Pursuant to the	ne provisions in West Virginia Code	§ 22-6A, the Operator has provided the required p	arties with the Notice Forms listed
below for the	tract of land as follows:		
State:	West Virginia	UTM NAD 83 Easting: 528619	9
County:	Lewis	Northing: 432733	7.9
District:	Freemans Creek	Public Road Access: CR 11 /	3 via Straight Run Road
Quadrangle:	Vadis WV 7.5's	Generally used farm name: Van Wie	3
Watershed:	Fink Creek		
information r of giving the requirements Virginia Cod	equired by subsections (b) and (c), so surface owner notice of entry to su of subsection (b), section sixteen of	bed in subdivisions (1), (2) and (4), subsection ection sixteen of this article; (ii) that the requirementarize pursuant to subsection (a), section ten of this article were waived in writing by the surrender proof of and certify to the secretary that the at.	ent was deemed satisfied as a result his article six-a; or (iii) the notice face owner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY	perator has attached proof to this Notice Certificated parties with the following:	OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or ☐ NO PLAT SURVEY WAS CONDUC	CTED RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OF	☐ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY SURFACE OW (PLEASE ATTACH)	NER
■ 4. NO	TICE OF PLANNED OPERATION	DECENTED	☐ RECEIVED
■ 5. PUI	BLIC NOTICE	RECEIVED Office of Oil and Ga	I RECEIVED
■ 6. NO	TICE OF APPLICATION	OCT 0 7 2024	☐ RECEIVED
		WV Department of	

#### 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.

Environmental Protection

Telephone:

#### 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.

Address:

Well Operator: HG II Appalachia, LLC

By: Diane White Diane White

Its: Agent

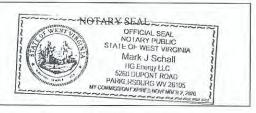
Agent 304-420-1119

5260 Dupont Road

Parkersburg, WV 26101

Facsimile: 304-863-3172

Email: dwhite@hgenergyllc.com



Subscribed and sworn before me this 29th day of June, 2024

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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

RECEIVED
Office of Oil and Gas

OCT 0 7 2024

WW-6A (9-13) PI NO. 47- 470 4 1 0 5 7 7 1

OPERATOR WELL NO. Van Was 1221 NIH to 512H
Well Pad Name: Van Wie 1221

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

	otice Time Requirement: notice shall be provided no later	Communication of the second section of the secti	
D	ate of Notice: 12/10/23 Date Permit Application Filed:	12/13/23	
	otice of:		
V	PERMIT FOR ANY CERTIFICATE OF A	APPROVAL FOR THE	
	WELL WORK CONSTRUCTION C	DF AN IMPOUNDMENT OR PIT	
n	alivorary worth ad account to Want Visualia Code \$ 22.64	10/1-)	
D	elivery method pursuant to West Virginia Code § 22-6A	-10(D)	
	PERSONAL REGISTERED ME	THOD OF DELIVERY THAT REQUIRES A	
	SERVICE MAIL REG	CEIPT OR SIGNATURE CONFIRMATION	
re, se the oil de op me we im	gistered mail or by any method of delivery that requires a receif diment control plan required by section seven of this article, are surface of the tract on which the well is or is proposed to be land gas leasehold being developed by the proposed well work scribed in the erosion and sediment control plan submitted purserator or lessee, in the event the tract of land on which the well one coal seams; (4) The owners of record of the surface tract or ell work, if the surface tract is to be used for the placement, corpoundment or pit as described in section nine of this article; (5 we a water well, spring or water supply source located within o	or pit as required by this article shall deliver, by personal service or by the or signature confirmation, copies of the application, the erosion and and the well plat to each of the following persons: (1). The owners of record of located; (2) The owners of record of the surface tract or tracts overlying the k, if the surface tract is to be used for roads or other land disturbance as resuant to subsection (0), section seven of this article; (3) The coal owner, all proposed to be drilled is located [sic] is known to be underlain by one or tracts overlying the oil and gas leasehold being developed by the proposed instruction, enlargement, alteration, repair, removal or abandonment of any 5) Any surface owner or water purveyor who is known to the applicant to one thousand five hundred feet of the center of the well pad which is used to	
pro sul rec pro Co	oposed well work activity is to take place. (c)(1) If more than the beection (b) of this section hold interests in the lands, the applicants of the sheriff required to be maintained pursuant to section of this article to the contrary, notice to a lien holder is re-	and (6) The operator of any natural gas storage field within which the hree tenants in common or other co-owners of interests described in icant may serve the documents required upon the person described in the on eight, article one, chapter eleven-a of this code. (2) Notwithstanding any not notice to a landowner, unless the lien holder is the landowner. W. Va. o provide the Well Site Safety Plan ("WSSP") to the surface owner and any ng as provided in section 15 of this rule.	
pre sul rec pro Co wa	posed well work activity is to take place. (c)(1) If more than the beetion (b) of this section hold interests in the lands, the application of this article to the contrary, notice to a lien holder is roughed. Supplication or surface owner subject to notice and water testing the place of the contrary. The contrary of this article to the contrary, notice to a lien holder is roughed. Supplication when the contrary of the operator shall also the purveyor or surface owner subject to notice and water testing the contrary of th	hree tenants in common or other co-owners of interests described in icant may serve the documents required upon the person described in the on eight, article one, chapter eleven-a of this code. (2) Notwithstanding any not notice to a landowner, unless the lien holder is the landowner. W. Va. or provide the Well Site Safety Plan ("WSSP") to the surface owner and any ng as provided in section 15 of this rule.  ICE Well Plat Notice is hereby provided to:	the
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WW-6A (8-13) API NO. 47- 4704105771

API NO. 47-OPERATOR WELL, NO. VIAWAS 1221 NUMBER 2011 Well Pad Name; Van Wie 1221

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 <a href="https://www.dep.ww.gov/oil-and-gas/pages/default.aspx.">www.dep.ww.gov/oil-and-gas/pages/default.aspx.</a>

#### 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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WW-6A (8-13) API NO. 47
OPERATOR WELL NO. Voc IVE 1221 NIH ID S12H
Well Pad Name: Van Wie 1221

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

#### Written Comment:

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

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

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.

Office of Oil and Gas

OCT 0 7 2024

WW-6A (8-13) API NO. 47OPERATOR WELL NO. Van Web 1521 NIH 10 5 7 7 1
Well Pad Name: Van Wie 1221

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 <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> 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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Notary Public

WW-6A (8-13)

Email:

API NO. 47-OPERATOR WELL NO. Von Wie 1221 NIH to S12H Well Pad Name: Van Wie 1221

Notice is hereby given by: Well Operator: HG Energy II Appalachia, LLC

Telephone: 304-420-1119

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.



OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Cassidy Boardman
5280 Durport Rd
Parkesburg, WW 25101
My Commission Expires July 31, 2027

Subscribed and swom before me this 11th day of December, 2023

My Commission Expires

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OCT 0 7 2024

WW-6A3 (1/12) Operator Well No. Van Wee 1221 MIN DEW STEH

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

Notice Time Requi	rement: Notice shall be pro	vided at least SE	EVEN (7) days	but no more than I	FORTY-FIVE (45	i) days prior to
entry		anned Entry: Ja				
Date of Notice: Jan	pary 5, 2024 Date 01 1	anneu Butt.j.				*
Delivery method p	ursuant to West Virginia	Code § 22-6A-10	)a			
¬	REGISTERED	III METH	OD OF DELL	VERY THAT REQ	UIRES A	
PERSONAL		RECEI	PT OR SIGNA	ATURE CONFIRM	IATION	
SERVICE	MAIL .					C 1 J
on to the surface tra out no more than for peneath such tract the owner of minerals used Sediment Contra-	irginia Code § 22-6A-10(a) to to conduct any plat surve rty-five days prior to such e hat has filed a declaration p underlying such tract in the rol Manual and the statutes atement shall include contact owner to obtain copies from	entry to: (1) The source pursuant to section county tax record and rules related at information, in	surface owner on thirty-six, art is. The notice to oil and gas cluding the ad-	of such tract; (2) to icle six, chapter two shall include a state	any owner or less enty-two of this co ement that copies o duction may be ob e on the Secretary	ee of coal seams de; and (3) any of the state Erosion stained from the 's web site, to
Notice is hereby pr	royided to: * Notice	was not 5	ent to The	cord		
Montes as man-ad F.	are t	he Opera-				9
SURFACE OV	WNER(s)		_ OOI.	OWNER OR LES	SEE	
	I Dawn Van Wie		Name: NA			-
Address: 2700 Jones			Address: _			-
Dunkirk, Mi	20754					-
Vame: HG Energy	Il Appalachia, LLC *		Tall a server	DATE ON TERMS		
Address: 5260 Dupor				RAL OWNER(s)		
	rg, WV 25101	_	Name:	Same as Surface Owners		<b>→</b>
Vame:			Address: _			-
Address:				additional forms if nece	neces rat	- 1
			"please auacu	Zeninonai totina ii ticci	J.J. J.	
a plat survey on the	Virginia Code § 22-6A-10(a e tract of land as follows: tvirginia		Approx. Latitu Public Road A	ide & Longitude:	39.094644 / 60.668480 CR11 / 3 via Straight Rus	
October 1	mans Creek		Watershed:		Fink Creek	
Quadrangle: Vadis			Generally used	farm name:	Van Wie	
may be obtained fr	Erosion and Sediment Con on the Secretary, at the W 5304 (304-926-0450). Cop Secretary by visiting www.	ies of such docur	ments or additi	onal information re	l and gas exploration exters, located at 6 elated to horizontal	on and production 01 57 <sup>th</sup> Street, SE, drilling may be
Notice is hereby		¥	Aum cos.	OLOG D DP atter		
Notice is hereby Well Operator:	HG Appalachia, LLC	* ·	Audi ws.	Parkersburg, WV 26101		
Notice is hereby Well Operator:	HG Appalachia, LLC	e White	Facsimile:			

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

RECEIVED
Office of Oil and Gas

OCT 0 7 2024

WW-6A4 (1/12)

## 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 Date of Notic	ce: 01/05/2024	tice shall be provided at  Date Per	mit Application File	d: 01/15/2024	point approactor.
Delivery met	thod pursuant to	West Virginia Code § 2	2-6A-16(b)		
☐ HAND	■ Ci	ERTIFIED MAIL			
DELIVE		ETURN RECEIPT REQ	UESTED		
receipt request drilling a hor of this subsect subsection mand if availab	sted or hand delive rizontal well: Prove ction as of the date hay be waived in with the facsimile number	ry, give the surface own ided, That notice given the notice was provided iting by the surface own	pursuant to subsection to the surface owner. The notice, if redddress of the operator.  /NER(s):	to enter upon ton (a), section to the content of th	a, an operator shall, by certified mail retains the surface owner's land for the purpose en of this article satisfies the requirements wever, That the notice requirements of talude the name, address, telephone number's authorized representative.
1 (4411)	G Energy II Appalachia, LL	<u>; •                                     </u>	Name:	Anthony and Da 2700 Jones Road	
radioso.	260 Dupont Road arkersburg, WV 26101		Address	Dunkirk, MD 207	
	arehv given				
Notice is he	ereby given: West Virginia Code wner's land for the	§ 22-6A-16(b), notice purpose of drilling a ho	is hereby given that rizontal well on the t	the undersigned ract of land as f	I well operator has an intent to enter up follows:
Notice is he	West Virginia Code	§ 22-6A-16(b), notice purpose of drilling a ho	rizontal well on the t	ract of land as I Easting:	528668.6
Notice is he Pursuant to V the surface or	West Virginia Code wner's land for the	§ 22-6A-16(b), notice purpose of drilling a ho	rizontal well on the t  UTM NAD 8	Easting: Northing:	0110WS: 528668.6 4327353.9
Notice is he Pursuant to V the surface or State:	West Virginia Code wner's land for the West Virginia	§ 22-6A-16(b), notice purpose of drilling a ho	rizontal well on the t  UTM NAD 8  Public Road A	Easting: Northing: Access:	528668.6 4327353.9 CR11 / 3 vla Straight Run Road
Notice is he Pursuant to V the surface of State: County: District: Quadrangle:	West Virginia Code wner's land for the West Virginia Lewis	§ 22-6A-16(b), notice purpose of drilling a ho	rizontal well on the t  UTM NAD 8  Public Road A	Easting: Northing:	0110WS: 528668.6 4327353.9
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed:	West Virginia Code wner's land for the West Virginia Lewis Freemans Creek Vadis WV 7.5' Fink Creek	§ 22-6A-16(b), notice purpose of drilling a ho	rizontal well on the t  UTM NAD 8  Public Road A	Easting: Northing: Access:	528668.6 4327353.9 CR11 / 3 vla Straight Run Road
Notice is he Pursuant to V the surface or State: County: District: Quadrangle: Watershed: This Notice Pursuant to V the State or State: Pursuant to V the State of State or St	West Virginia Code wner's land for the West Virginia Lewis Freemans Creek Vadis WV 7.5' Fink Creek  e Shall Include: West Virginia Comber and electron	purpose of drilling a ho	Public Road A Generally use notice shall include operator and the operator at the W	Easting: Northing: Access: d farm name: the name, adderator's authoriz	528668.6 4327353.9 CR11 / 3 vla Straight Run Road
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Notice is he Pursuant to Verthe surface of State: County: District: Quadrangle: Watershed:  This Notice Pursuant to facsimile nurrelated to ho located at 60  Notice is he Well Operator	West Virginia Code wner's land for the West Virginia Lewis Freemans Creek Vadis WV 7.5' Fink Creek  E Shall Include: West Virginia Comber and electron orizontal drilling m of 57th Street, SE, Combereby given by: Or: HG Energy II Appa	purpose of drilling a ho	rizontal well on the to UTM NAD 8 Public Road A Generally use notice shall include operator and the operator and the W 304-926-0450) or by Authorized	Easting: Northing: Access: d farm name: the name, adderator's authoriz	52868.6  4327353.9  CR11/3 via Straight Run Road  Van Wie  dress, telephone number, and if availal azed representative. Additional informat of Environmental Protection headquarted the control of Environmental Protection headqu
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A5 (1/12)

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

Notice Time Date of Noti	Requirement: notice shace: 01/05/2024	all be provided no  Date Permit A	o later than the filing pplication Filed: 01/	date of permit	application.
Delivery me	thod pursuant to West V	irginia Code § 2	22-6A-16(c)		
CERTI	FIED MAIL		HAND		,
	RN RECEIPT REQUEST	ED	DELIVERY		
return receipt the planned of required to be drilling of a damages to the (d) The notice of notice.	requested or hand delived operation. The notice re- e provided by subsection horizontal well; and (3) he surface affected by oil es required by this section weby provided to the SUI	ry, give the surfar quired by this surface (b), section ten on A proposed surface and gas operation a shall be given the RFACE OWNE	ace owner whose land absection shall incluse this article to a surface use and compens to the extent the dot of the surface owner of the surface owner.	d will be used for de: (1) A copy face owner whose sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the of containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	s listed in the records of t mergy II Appalachia, LLC	he sheriff at the t	time of notice): Name:	Anthony and Day	wn Van Wie
Address: 526			Addres		
	cersburg, WV 26101		2 2000 70	Dunkirk, MD 207	54
Notice is her Pursuant to V operation on State: County: District: Quadrangle:	Vest Virginia Code § 22-6 the surface owner's land West Virginia Lewis Freemans Creek Vadis WV 7.5	A-16(c), notice i for the purpose c	of drilling a horizonta  UTM NAD 8  Public Road	al well on the tra Easting: Northing:	well operator has developed a planned act of land as follows:  528688.6  4327353.9  CR 11/3 via Straight Run Road  Van Wie
Watershed:	Fink Creek			ou min manner	1
This Notice	Shall Include:		=		
Pursuant to V to be provid horizontal we surface affect information a	Vest Virginia Code § 22- ed by W. Va. Code § 2: ell; and (3) A proposed st ted by oil and gas operat related to horizontal drill located at 601 57 <sup>th</sup> Str	2-6A-10(b) to a surface use and co ions to the extention may be obta	surface owner whose impensation agreement the damages are continued from the Secre	e land will be on the containing are compensable und tary, at the WV	code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting <a href="https://www.dep.wv.gov/oil-and-december-19">www.dep.wv.gov/oil-and-december-19</a>
Pursuant to V to be provid horizontal we surface affect information the headquarters gas/pages/de	Vest Virginia Code § 22- ed by W. Va. Code § 2: ell; and (3) A proposed su ted by oil and gas operativelated to horizontal drill, located at 601 57 <sup>th</sup> Str fault.aspx.	2-6A-10(b) to a surface use and co- ions to the extending may be obta- eet, SE, Charl	surface owner whose impensation agreement the damages are co- ined from the Secre- eston, WV 25304	e land will be unt containing an ompensable und tary, at the WV (304-926-0450)	used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting <a href="https://www.dep.wv.gov/oil-and-noffer-new-color: blue by the www.dep.wv.gov/oil-and-new-color: blue by t&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Pursuant to V&lt;br&gt;to be provid&lt;br&gt;horizontal we&lt;br&gt;surface affect&lt;br&gt;information the&lt;br&gt;headquarters&lt;br&gt;gas/pages/de&lt;/td&gt;&lt;td&gt;Vest Virginia Code § 22-&lt;br&gt;ed by W. Va. Code § 22-&lt;br&gt;ell; and (3) A proposed st&lt;br&gt;ted by oil and gas operat&lt;br&gt;related to horizontal drill,&lt;br&gt;located at 601 57&lt;sup&gt;th&lt;/sup&gt; Str&lt;br&gt;fault.aspx.&lt;/td&gt;&lt;td&gt;2-6A-10(b) to a surface use and co-&lt;br&gt;ions to the extending may be obta-&lt;br&gt;eet, SE, Charl&lt;/td&gt;&lt;td&gt;surface owner whose&lt;br&gt;impensation agreement&lt;br&gt;the damages are continued from the Secre&lt;/td&gt;&lt;td&gt;e land will be unt containing an ompensable unctary, at the WV (304-926-0450)&lt;/td&gt;&lt;td&gt;used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting &lt;a href=" https:="" oil-and-office-of-oil-and-office-oil-and-office-oil-and-office-oil-and-office-oil-and-office-oil-and-office-oil-and-office-oil-and-office-oil-and-office-oil-and-oil-<="" td="" www.dep.wv.gov=""></a>
Pursuant to V to be provid horizontal we surface affect information the headquarters. gas/pages/de	Vest Virginia Code § 22- ed by W. Va. Code § 2: ell; and (3) A proposed su ted by oil and gas operativelated to horizontal drill, located at 601 57 <sup>th</sup> Str fault.aspx.	2-6A-10(b) to a surface use and co- ions to the extending may be obta- eet, SE, Charl	surface owner whose impensation agreement the damages are continued from the Secret eston, WV 25304  Address:	e land will be unt containing an ompensable und tary, at the WV (304-926-0450)	used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting

Oil and Gas Privacy Notice:

WV Department of The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as particular pry 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.



#### 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

December 04, 2023

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 Van Wie 1221, Lewis County S-12H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit 07-2023-0352 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 11/3 SLS MP 2.941.

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,

Stephen G. Johnson Director of Operations RECEIVED Office of Oil and Gas

OCT 0 7 2021

WV Department of Environmental Protection

Cc: Diane White

HG Energy II Appalachia, LLC

CH, OM, D-7

File

# HG Energy II Appalachia, LLC List of Frac Additives by Chemical Name and CAS # Van Wie 1221 Well Pad (N-1H thru S-12H)

Chemical Name	CAS#	Multiple CAS #'s	
Pro Shale Slik 405	Mixture	68551-12-2	
Tro shale olik 700		7647-14-5	
		12125-02-9	
		64742-47-8	
Pro Hib II	Mixture	68412-54-4	-
Tre the h		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	RECEIVED Office of Oil and Gas
		107-21-1	OCT <b>0 7</b> 2024
Sulfamic Acid	5329-14-6		WV Department of Environmental Protection
PRO - Flow - 102-N	Mixture	67-63-0	
THO TIOW TOP IN		68439-45-2	
		2687-96-9	
PROGEL - 4	9000-30-0		

OPERATOR:_	HG Energy II Appalachia, LL	WELL NO: Van	Wie 1221 S-1	12H	-
PAD NAME:_	Van Wie 1221				
REVIEWED E	Y: Diane White	SIGNATURE:	Diane	White	

#### WELL RESTRICTIONS CHECKLIST

#### HORIZONTAL 6A WELL

l Resti	rictions	
	At Least 100 Feet from Pad and LOD (including any E&S Control Featu Perennial Stream, Lake, Pond, Reservoir or Wetland; OR	are) to any
	DEP Waiver and Permit Conditions	
1	At Least 300 Feet from Pad and LOD (including any E&S Control Featu Naturally Producing Trout Stream; OR	re) to any
	DEP Waiver and Permit Conditions	
<b>√</b>	At Least 1000 Feet from Pad and LOD (including any E&S Control Feat Groundwater Intake or Public Water Supply; OR	ture) to any
	DEP Waiver and Permit Conditions	
$\checkmark$	At Least 250 Feet from an Existing Water Well or Developed Spring to Villed; OR	Well Being
	Surface Owner Waiver and Recorded with County Clerk, OR	RECEIVED Office of Oil and Gas
	DEP Variance and Permit Conditions	OCT 0 7 2024
1	At Least 625 Feet from an Occupied Dwelling Structure to Center of the	WV Department of PathyloRmental Protection
	Surface Owner Waiver and Recorded with County Clerk, OR	
	DEP Variance and Permit Conditions	
<b>√</b>	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square of the Pad; OR	Feet to the Center
	Surface Owner Waiver and Recorded with County Clerk, OR	
	DEP Variance and Permit Conditions	

