

west virginia department of environmental protection

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

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

Monday, September 30, 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 N-3H 47-041-05762-00-00

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 N-3H Farm Name: HG ENERGY II APPALACHL U.S. WELL NUMBER: 47-041-05762-00-00 Horizontal 6A Date Issued: 9/30/2024

Promoting a healthy environment.

## **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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

#### 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.



WW-6B (04/15)

# API NO. 47-04 105762 OPERATOR WELL NO. Van Wie 1221 N-3H Well Pad Name: Van Wie 1221

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION
1) Well Operator: HG Energy II Appalachia, H 494519932 Lewis Freeman Vadis 7.5'
Operator ID County District Quadrangle
2) Operator's Well Number: Van Wie 1221 N-3H / Well Pad Name: Van Wie 1221
3) Farm Name/Surface Owner: HG Energy II Appalachia, LLC Public Road Access: CR 11/3 aka Straight Run Road
4) Elevation, current ground: <u>1256'</u> Elevation, proposed post-construction: <u>1251.7'</u>
5) Well Type (a) Gas X Oil Underground Storage
Other
(b)If Gas Shallow X Deep
Horizontal ×
6) Existing Pad: Yes or No No
7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s): Marcellus at 7002' / 7049' and 47' in thickness. Anticipated pressure at 4314#.
8) Proposed Total Vertical Depth: 7,035'
9) Formation at Total Vertical Depth: Marcellus
10) Proposed Total Measured Depth: 19,249'
11) Proposed Horizontal Leg Length: 11,749'
12) Approximate Fresh Water Strata Depths: 150', 181', 826'
13) Method to Determine Fresh Water Depths: Nearest offset well data, (47-017-02906, 2480, 4233, )
14) Approximate Saltwater Depths: NA
15) Approximate Coal Seam Depths: 220' - 225', 428'-438', 495'-501' (Surface casing is being extended to cover the coal in the DTI Field)
16) Approximate Depth to Possible Void (coal mine, karst, other): None
17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes <u>No</u> X
(a) If Yes, provide Mine Info: Name:
Depth:
Seam: AUG 26 2024
Owner: WV Department of Environmental Protection

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API NO. 4-704105762

OPERATOR WELL NO. Van Wie 1221 N-3H

Well Pad Name: Van Wie 1221

WW-6B (04/15)

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## CASING AND TUBING PROGRAM

TYPE	<u>Size</u> (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	<u>Weight per ft.</u> <u>(lb/ft)</u>	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (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	5750'	5750'	40% Excess Tail, CTS
Production	5 1/2"	NEW	P-110 HP	23	19249'	19249'	20% Excess Tail, CTS
Tubing							
Liners							

Kenneth Greynolds Str. Cu + Keneth Greynolds Child + Keneth Greynolds Child + Keneth Corrols amail + Keneth L Child + Keneth Corrols amail + Keneth L Child + Keneth Child + Keneth Child + Ch

TYPE	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	26"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate 1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Lead 40% excess, Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	5750		Type 1/Class A	Lood 40% excess, Toil 0% Excess [40
Production	5 1/2"	8 1/2"	.415	16240 🧹	12500	Type 1/ClassA	20% excess yield = 1.19, tall yield 1.94 (
Tubing							in the second
Liners			_				

### PACKERS

Kind:	RECEIVED
Sizes:	AUG 26 2024
Depths Set:	WV Department of Environmental Protection

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#### 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 11,749' lateral length, 19,249' 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
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22) Area to be disturbed for well pad only, less access road (acres): 9.53 acres

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing. Freshwater/Coal - centralized every 3 joints to surface

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

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

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

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

Conductor -N/A, Casing to be drilled in w/ Dual Rotary Rig. Fresh Water/Coal - \*15.6 pog PNE-1 + 3% bwoc CaCl40% ExcessYield=1 20 / CTS\*

Intermediate 1 - \*\*\*\* Storage String \*\*\* CTS \*\*\*15.4 ppg Lead - Yield 1.24 - D896 Surface Set 100 Ib / sack (Mix of Class A and Gypsum to meet Dominion Requirements)B1349 - 0.5%, BWOB Fluid Loss / D013 - 0.75%, BWOB Retarder / D47 - 0.02 gal / sack VBWOB Anil Foam / D202 - 0.15% Dispersant / D095 1.5 lb per BBL, CemNET\* - 05% Excess15.9 ppg Tail - Yield 1.17 - D896 Surface Set 100 Ib / 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 / D47 - 0 Anil Foam / D801 - 0.03 gal / sack Retarder - 0%, Excess1\* Intermediate 2 - "Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCld%, Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero%, Excess."

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

#### 25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD.	
Fresh Water/Coal - Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.	RECEIVED Office of Oil and Gas
Intermediate 1 - Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.	Office of Oil and Gas
Intermediate 2 - Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.	
Production - Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cament.	AUG 26 2024
	WV Department of Environmental Protection
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*Note: Attach additional sheets as needed.	



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#### 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
		strength properties.	Magnesium oxide	1 - 5	1309-48-4
remium NE-1	Portland Cement		Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7
		C			
		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.			
entonite	Extender				
		A powdered, flaked or			
		pelletized material used	Ingredient name	%	CAS number
		to decrease thickening	Calcium chloride	90 - 100	10043-52-4
		time and increase the rate			
		of strength development			
llcium Chloride	Accelerator				
		Graded (3/8 to 3/4 inch)			
		cellophane flakes used as	Ingredient name	%	CAS number
		a lost circulation material.	No hazardous ingredient		
lo Flake	Lost Circulation				
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in			
		cementing operations. It	Ingredient name	a a a a a a a a a a a a a a a a a a a	040
		is very effective		%	CAS number
		minimizing air entrapment and	Tributyl phosphate	90 - 100	126-73-8
		preventing foaming			
		tendencies of latex			
		systems.			
-13L	Foam Preventer				
			Ingredient name	%	CAS number
		Used to retard cement	Sucrose	90 - 100	57-50-1
anulated Sugar	Retarder	returns at surface.	Sucose	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
2-1		temperatures.		·	
1		Multi-purpose polymer			
		additive used to control			
		free fluid, fluid loss,	Ingredient name	%	CAS number
		rheology, and gas	No hazardous ingredient		
PA-170	Gas Migration	migration.			
		A synthetic pozzolan,			
		(primarily Silicon Dioxide).			
		When blended with cement, Pozzolan can be			
		used to create	Ingredient name	%	CAS number
		lightweight cement	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
		slurries used as either a	Calcium oxide	REPENCED	1305-78-8
		filler slurry or a sulfate		Office of Oil and	Gao
		resistant completion			
		cement.		AUG 26 20	104
oz (Fly Ash)	Base			nuu 20 20	124
		A 1			
		A low temperature		WV Departmeni	t of
		retarder used in a wide range of slurry	Ingredient name	Environmental Prot	ection CAS number
		formulations to extend	Organic acid salt	40 - 50	Trade secret.
		the slurry thickening time.		1	
3	Retarder	, indicating affer			
			Ingredient name	%	CAS number
				00 00	111-76-2
			2-Butoxyethanol	20 - 30	
			Proprietary surfactant	10 - 20	Trade secret.
		Used to water wet casing		20 - 30 10 - 20 5 - 10 1 - 5	
ŝ	Surfactant	Used to water wet casing and formation to facilitate cement bonding.	Proprietary surfactant D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	10 - 20 5 - 10	Trade secret. 110615-47-9

Ground Elevation					1221 N	-3H SH	1	1/	197346.51N 17344	06 225
		1251.7	71							
						N-3H LF			197937.95N 17350	
Azm		340.37			1	I-3H BH	1		209011.21N 17311	
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
X	30"	30" 157.5# LS	Conductor	0	120 -	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5" wa thickness
	26"	20"	0	740	740	AIR	15.6 ppg PNE-1 + 3% bwoc CaCl	Centralized every 3	Once casing is at setting depth, circulate a minimum of one hole volume with	Surface casing = 0.438" wa
X	20	94# J-55	Coal Fresh Water	740	746	AIR	40% Excess Yield=1.20 / CTS	joints to surface	Fresh Water prior to	thickness Burst=2110 psi
XXXX			Protection	0	1225 🧹		160-1.20 / 010		pumping cement.	2
			Little Lime	2167	2187	12	See above (LEFT) for	Bow Spring on every	Once casing is at setting	Intermediate casing = 0.480"
	17.5"	13-3/8" 68#	Big Lime	2216	2265	AIR / KCL Salt Polymer	Blend to Meet DTI	t joint *will also be running ACP for isolating	depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.	
X	17.5	J-55 BTC	Injun / Gantz (Storage)	2265 / 2597	2361 / 2647					wall thickness Burst=3450 psi
			Intermediate 1	0	2760 🦯		Storage Field Isolation			
XXXX		9-5/8" 40# N / L-80 BTC	Thirty Foot	2789	2799	AIR / KCL Salt Polymer	40% Excess / Tail: 15.9	Bow Spring on first 2 joints then every third	condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.	
			Gordon	2837	2915					Intermediate casing = 0.395" wall thickness Burst=5750 psi
			5th Sand	3066	3102					
X	12.25"		Bayard	3161	3174					
			Speechley	3634	3666					
			Benson	5038	5072					
			Alexander	5324	5444 TVD: 5675'					
			Intermediate 2	0	MD: 5750' Inc. 10 dea.					
X					T	AIR /		Run 1 spiral centralizer		
	8.75"					9.0ppg		every 5 joints from the top of the curve to surface.		
		-				SOBM	Lead: 14.5 ppg POZ:PNE-1 + 0.3%			
			Rhinestreet	6303	6591		bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L		Once on bottom/TD with	
Office of X AUG S Environmen			Cashaqua	6591	6736		+ 0.3% bwoc MPA170		casing, circulate at max	Production casing = 0.415
Office of ( AUG 2 MV Depe		5-1/2" 23#	Middlesex	6736	6815	11.5ppg-	Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75		allowable pump rate for at least 2x bottoms up, or until	wall thickness
PEC. e of C Depa	8.5" Curve	P-110 HP	West River	6815	6884	12.5ppg	gal/sk FP13L + 50%- bwoc ASCA1 + 0.5%		returns and pump pressures indicate the hole is clean.	Burst=16240 psi Note:Actual centralizer
FOIL 26		TXP / W461	Burkett	6884	6925	SOBM	bwoc MPA170	Run 1 spiral centralizer every 3 joints from the	Circulate a minimum of one	schedules may be change due to hole conditions
			Tully Limestone	6925	6952		20% Excess Lead Yield=1.19	1st 5.5" long joint to the	hole volume prior to pumping cement.	que to note conditions
ED and Ga 2024 Totech			Hamilton	6952	7002		Tail Yield=1.94	top of the curve.	Farrien 2 contone	
Gas 24 edion			Marcellus	7002	7049	11.5ppg-	CTS			
	8.5" Lateral	.eral	TMD / TVD (Production)	19248	7035	12.5ppg		2		
x x			Onondaga	7049 🦯	1	SOBM				
	X	X	X	X		X	X	X	X	X

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WV	N-9
(4/]	16)

API Number 47 - \_\_\_\_

Operator's Well No. Van Wie 1221 N-3H

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

#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_HG Energy II Appalachia, LLC OP Code _494501907	
Watershed (HUC 10) Fink Creek Quadrangle Vadis 7.5'	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes	No
Will a pit be used? Yes No 🗸	
If so, please describe anticipated pit waste:NA	
Will a synthetic liner be used in the pit? Yes No If so, what ml.?	
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number	)
<ul> <li>Reuse (at API Number <u>TBD - At next anticipated well site</u></li> <li>Off Site Disposal (Supply form WW-9 for disposal location)</li> </ul>	)
Other (Explain	
Will closed loop system be used? If so, describe:Yes, cuttings and fluids will be collected in a closed loop system, re-used or hauled to a	an approved disposal site or landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc	Air, Air/KCL, Air/SOBM, Horizontal - SOBM
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Water, Soap, KCI, Barite, Base Oil, Wetting Agents	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etcApproved Landfill	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA	
-Landfill or offsite name/permit number? See Attached	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associat West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the perm where it was properly disposed.	ed waste rejected at any ittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERAL WATER PO on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Prote provisions of the permit are enforceable by law. Violations of any term or condition of the general per law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the infa application form and all attachments thereto and that, based on my inquiry of those individuals in obtaining the information, I believe that the information is true, accurate, and complete. I am awar penalties for submitting false information, including the possibility of fine or imprisonment.	ection. I understand that the rmit and/or other applicable formation submitted on this nmediately responsible for re that there are significant
Company Official Signature Diane White	RECEIVED Office of Oil and Gas
Company Official (Typed Name) Diane White	AUG 26 2024
Company Official Title Agent	WV Department of
	Environmental Protection
Subscribed and sworn before me this 13th day of June , 20 24	
<u> </u>	OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRG Mark J Schall U/C Encoded
My commission expires $11/2/2326$	HG Energy LLC 52660 DUPONT ROAD PARKLRSBURG WV 26 MY COMMISSION FXPIRES NOVEMBEL

## **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) 8237 US Highway 19 Cochranton, PA 16314 814-425-7773

Disposal Locations:

Apex Environnemental, LLC Permit # 06-08438 11 County Road 78 Amsterdam, OH 48903 740-543-4889

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 / 301071, 233 Max Lane Yukon, PA 25968 724-722-3500 Max Environnemental Technologies, Inc. Facility Permit # PAD05087072 / 301359

200 Max Drive Bulger, PA 15019 724-796-1571

Waste Management Kelly Run Permit # 100663 1901 Park Side Drive Elizabeth, PA 15037 412-384-7569

Waste Management South Hills (Arnoni) Permit # 100592 B100 Hill Road Library, PA 15129 724-348-7013 412-384-7569 Waste Management Arden Permit # 100172 200 Rangos Lane

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

Waste Management Meadowfill Permit # 1032 1488 Dawson Drive Bridgeport, WV 26330

Brooke County Landfill Permit # SWF-103-97 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 304-748-0014 RECEIVED Office of Oil and Gas

AUG 26 2024

WV Department of Environmental Protection

Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martinsville, WV 26035 304-455-3800

Energy Solutions, LLC Permit # UT 2300249 423 West 300 South Suite 200 Salt Lake City, UT 84101

Energy Solutions Services, Inc. Permit # R-72006-L24 1560 Bear Creek Road Oak Ridge, TN 37830

Northern A-1 Environnemental Services Permit ID MID020906814 3947 US 131 North, PO Box 1030 Kalkaska, MI 49646 231-258-9361

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 FQ Box 201997 Dallas, TX 75320-8997

Nuverra Environmental Solutions 1,1942 Veterans Memorial Highway Masontown, WV 26542

Mustang Ollfield Services LLC PO Box 739 St. Clairsville, OH 43950

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 380-536-6825

Adams #1 (Buckeye Brine, LLC) Permit # 34-031-2-7177 23986 Airport Road Coshocton, OH 43812 740-575-4484 512-478-6545 CMS of Dalaware Inc. DBA CMS Olifield Serv 301 Commerce Drive Moorestown, NJ 08057

Force, Inc. 1380 Rts. 286 Hwy. E, Suite 203 Indians, PA 15701

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

Equipment Transport 1 Tyler Court Carlisie, PA 17015

Myers Well Service, ..... 2001 Ballpark Court Export, PA 15682

Burns Drilling & Excavating 618 Crabapple Road P.O. Box Wind Ridge, PA 15380

Nichlos 1-A (SWIW #18) Permit # 3862 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-329-7275

Grosella (SWIW #34) Permit # 4096 RL 88 Garrettsville, OH 719-275-4816

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Ch 48767 614-648-8898 740-786-6495 RECEIVED Office of Oil and Gas

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Adams #2 (Buckeye Brine, LLC) 2205 Westover Road Austin Tx 78703 Permit # 34-031-2-7178 740-575-4484 512-478-6545

Adams #3 (Buckeye Brine, LLC) Permit #24-031-2-7241-00-00 2620 Exposition, Suite 117 Austin, TX 78703 512-478-6545

Mozena #1, Well (SWIW # 13) Permit # 84-157-2-5511-00-00 5867 E. State Street Newcomerstown, OH 48882 740-768-3966

Goff SWD #1 (SWIW # 27) Permit # 84-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Corappolis, FA 15108 412-829-7275

SOS D#1 (SWIW #12) Permit # 34-059-2-4202-00-00 Silcor Olifield 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...;any, LLC 1000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-323-6563

US Steele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15730 304-323-6568

· 1. ....

Chapin #7 UIC (SWIW #7) Permit # 34-083-2-4197-00-00 Elkhead Gas& Oil Company 12163 Marne Rd. NE Newark, OH 43055 740-763-3966

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C. 7.1

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Form	W	W	-9

#### HG Energy II Appalachia III C

Operator's Well No.	Van Wie 1221 N-3H

Proposed Revegetation Treatment:	Acres Disturbed51.82	2 Prevegetatio	n pH
Lime 3	Tons/acre or to correct to p	<sub>0H</sub> _6.5	
Fertilizer type10-20-2	20		
Fertilizer amount	500	lbs/acre	
<sub>Mulch</sub> Hay	2 <sub>Tons</sub>	s/acre	
	Se	ed Mixtures	
Tempor	ary	Pe	rmanent
Seed Type	lbs/acre	Seed Type	Ibs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Maintain E&S controls t	hrough the drilling	and completion process	3
acreage, of the land application are Photocopied section of involved 7. Plan Approved by:		ds Kanneth L. Greynolds@ew. d Gas	
Comments: Pre-seed/mu	ulch as soon as r	reasonably possible p	per regulation.
Upgrade E&	S if needed per	WV DEP E&S manua	al.
<sub>Title:</sub> Oil & Gas Inspect	or	Dete	RECEIVED Office of Oil and Ga
		Date:	AUG 26 2024
Field Reviewed?	) Yes (	) No	WV Department of Environmental Protection

## HG Energy II Appalachia, LLC

## Site Safety Plan

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

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January 2024: Version 1

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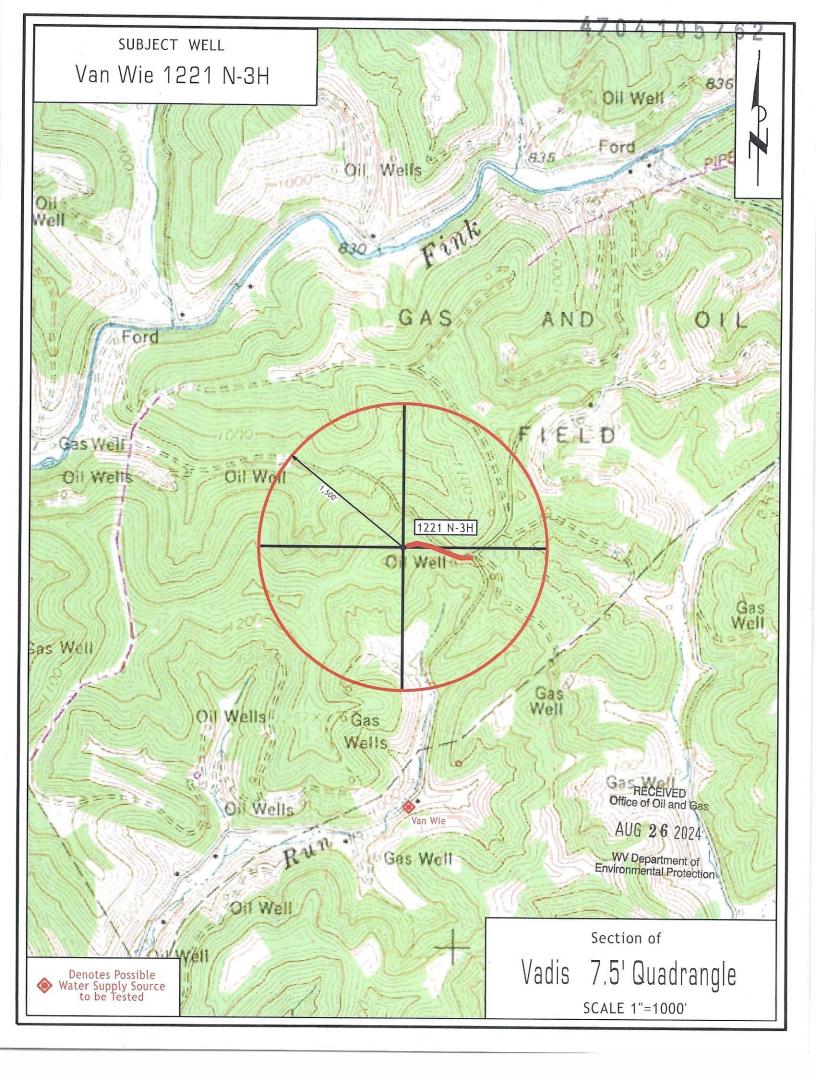
For Submission to West Virginia Department of Environmental Protection, Office of Oil and Gas

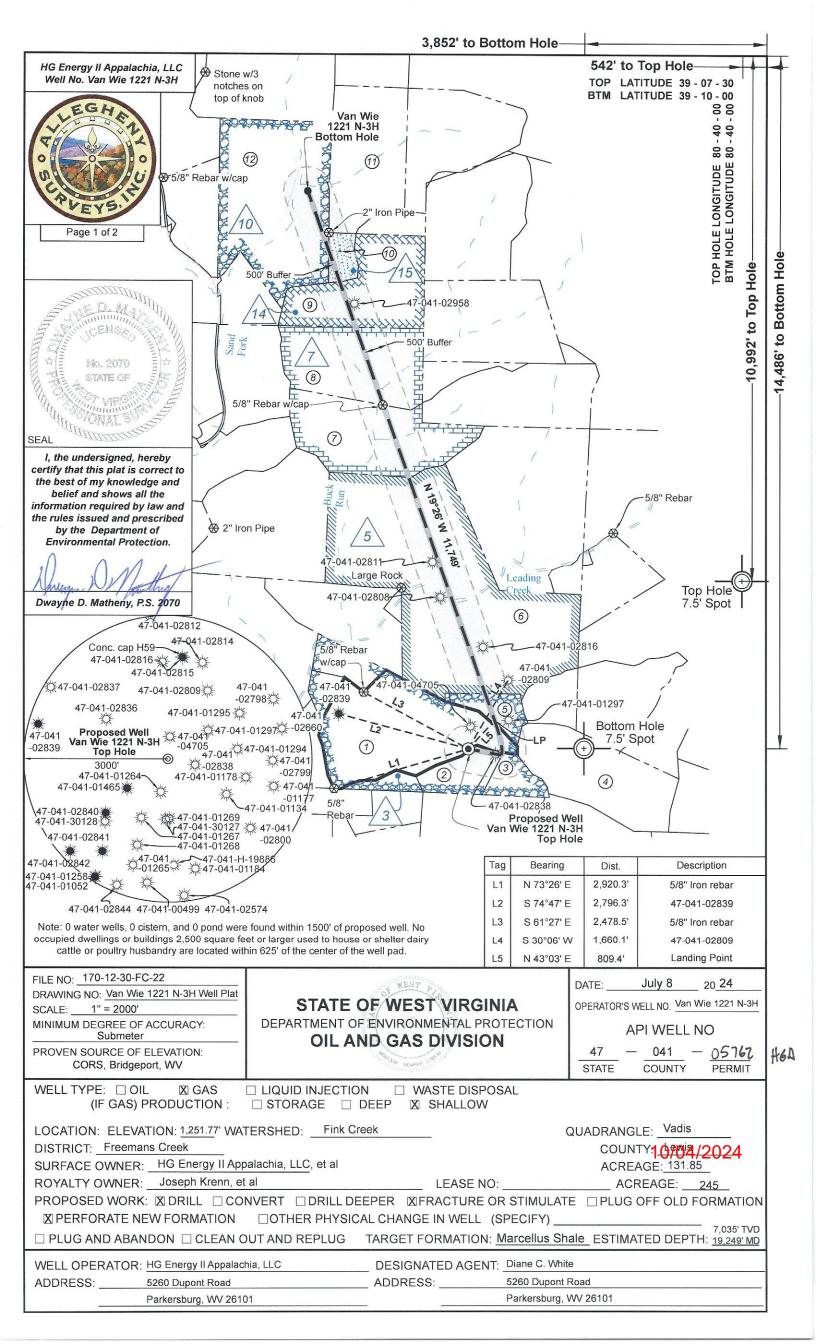
HG Energy II Appalachia, LLC

5260 Dupont Road

Parkersburg, WV 26101

Dipaty signed by Kenneth Greynolds Kenneth Greynold Streynold Greynolds (maint Kenneth L. Streynolds Greynold Greynold Control to Ling and Control





HG Energy II Appalachia, LLC Well No. Van Wie 1221 N-3H			
THE GHENNE			
Page 2 of 2			
Well Location References Not to Scale Van Wie 1221 North Pad Van Wie 1221 North Pad Stake & Tack Well Van Wie 1221 N-3H Stake & Tack	ID 3 5 7 10 14 15	Joseph F John William E. Fonce Brow HG Energy II	ease Krenn, et ux Tierney Ruppert, et al n & Rita Brown Appalachia, LLC urces, Inc., et al
Legend         ●       Proposed gas well         ●       Well Reference, as noted         ⊗       Monument, as noted         ☆       Existing Well, as noted         ★       Existing Plugged Well, as noted         ★       Digitized Well, as noted         ★       Digitized Well, as noted         ★       Surface boundary (approx.)	No.         TM / Par           1         2D / 3         HG           2         2D / 29         Ani           3         2D / 30         Ani           4         2D / 37         5           5         2D / 3.1         HG           6         2C / 7         Ja           7         2C / 4         8           8         2C / 3         9	Owner G Energy II Appalachia, LLC athony S. & Dawn H. VanWi Jacob R. Straley Heirs G Energy II Appalachia, LLC ames R. & Shelia A. Gum, II Susanne Seccurro Stephen Ruppert Clarence D. Brown Doddridge Co. (Cove Dist.) Owner Clarence D. Brown Scott Flanagan, et al Clarence D. Brown	Bk / Pg         Ac.           2         800 / 637         131.85           e         732 / 622         26.63           e         732 / 622         19.00           728 / 53         97.00           2         800 / 637         20.00
Wellhead Layout (NTS) 0.C.) 0 Lan une 10.1 Not 5 A 0 Lan une 10.1 No	based upon Differential GPS upo Measurements. <u>Notes:</u> Well No. Van Wie 1221 N-3H <u>WVCS 1927, North Zone</u> <u>UT</u> Top Hole Coordinates Tri Lat: 39°05'41.31" Lon: 80°40'06.88" Landing Point Coordinates Lan Lat: 39°05'47.14" Lon: 80°39'59.84"	Top Hole Coordinates N: 14,197,346.51' E: 1,734,496.23' nding Point Coordinates N: 14,197,937.95' E: 1,735,048.73'	well references are based Vell location references are
FILE NO:       170-12-30-FC-22         DRAWING NO:       Van Wie 1221 N-3H Well Plat         SCALE:       1" = 2000'         MINIMUM DEGREE OF ACCURACY:       D         Submeter       PROVEN SOURCE OF ELEVATION:         CORS, Bridgeport, WV	STATE OF WEST VIRGINIA EPARTMENT OF ENVIRONMENTAL PROTEC OIL AND GAS DIVISION	OPERATOR'S WE	July 8 20 24 ELL NO. Van Wie 1221 N-3H PI WELL NO 041 — 05762 COUNTY PERMIT
(IF GAS) PRODUCTION : LOCATION: ELEVATION: <u>1,251.77</u> ' WATER: DISTRICT: <u>Freemans Creek</u> SURFACE OWNER: <u>HG Energy II Appalac</u> ROYALTY OWNER: <u>Joseph Krenn, et al</u>	hia, LLC, et al LEASE NO:	ACREA ACR IMULATE □ PLUG C	E: <u>Vadis</u> Y:1 <mark>0/094/2024</mark> GE: <u>131.85</u> EAGE: 245
PROPOSED WORK: 🛛 DRILL 🗆 CONVE 🖾 PERFORATE NEW FORMATION 🔹 PLUG AND ABANDON 🗆 CLEAN OUT /	OTHER PHYSICAL CHANGE IN WELL (SPEC		7,035' TVD ED DEPTH: <u>19,249' MD</u>
☑ PERFORATE NEW FORMATION □	OTHER PHYSICAL CHANGE IN WELL (SPEC AND REPLUG TARGET FORMATION: <u>Marc</u>	cellus Shale_ESTIMAT	7,035' TVD ED DEPTH: <u>19,249' MD</u>

Operator's Well No. Van Wie 1221 N-33H

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

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

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

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

\*\*See Attached Sheets\*\*

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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

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

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

Page 1 of \_\_\_\_\_

#### HG Energy II Appalachia, LLC Van Wie 1221 N-3H Lease Chain

	LEGACY LEASE						_	_
1221N Tract	NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
				JOSEPH KRENN AND EMILY E. KRENN, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	33	3 23
				WILLIAM A. LOUWTHER	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	40
				SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	ASSIGNMENT	156	5 57
				SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	166	i 49
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	8
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	12
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
		02 0020 0002 0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9	62
		03-002D-0003-0000 03-002D-0003-0001		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	15
	FK054825	03-002D-0003-0001		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	and the second se
3	FK079440 FEE	03-002D-0028-0000	Q100903000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY INC	NOT LESS THAN 1/8	692	57
	FK079440 FEE	03-002D-0029-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	84
		03-002D-0030-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
		03 0020 0030 0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
						SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
						THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	
				JOHN TIERNEY	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	39	29
				SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	ASSIGNMENT	156	570
				SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	166	494
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	8
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
15	FK082810	02 0020 0007 0000	Q100341000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	5
10	FK056828	03-002C-0007-0000	Q100341000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	84
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
						SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	49
						THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	55
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	22

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17	FK064782 FK079376 FEE	03-002C-0003-0000 03-002C-0004-0000 p/o 03-002C-0002-0000 p/o 03-002C-0007-00001	Q100598000	WILLIAM E. RUPPERT, WIDOWER; ROY F. RUPPERT, WIDOWER; AGNI RILEY AND MARTIN J. RILEY, HER HUSBAND; CHARLES F. RUPPERT AN W. E. RUPPERT, ATTORNEY IN FACT FOR CLARA RUPPERT HUNKLER; I A. MAYBURY, HENRY MAYBURY, FRED MAYBURY, GILBERT MAYBURY NORA KESSEN, NORA MAYBURY, FRED MAYBURY, GILBERT MAYBURY NORA KESSEN, NORA MAYBURY, BEN KESSEN, JOHN RUPPERT, CATHERINE RUPPERT, JOE RUPPERT, MARIAH RUPPERT, ADELINE ROUGH, LEE ROUGH, CLARA HUNKLER, EDWARD HUNKLER, LEWIS RUPPERT, NORA RUPPERT; NORA MAYBURY, GUARDIAN FOR HERMA J. MAYBURY; ANDREW B. MAYBURY, MARCELLA C. MAYBURY, JOSEP A. MAYBURY; EDWARD C. MAYBURY AND MAY E. MAYBURY; JOSEP A. MAYBURY; EDWARD C. MAYBURY AND MAY E. MAYBURY; JOSEP A. MAYBURY; EDWARD C. MAYBURY AND MAY E. MAYBURY; MAYBELLE RUPPERT; SINGLE; MAYBELLE RUPPERT, GUARDIAN FOR MICHAEL RUPPERT; C. O. DENNISON AND DAISY I. DENNISON, HIS WI HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. COX GAS COMPANY LLC DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC.	id B. K	NOT LESS THAN 1/8 CONFIRMATORY DEED ASSIGNMENT MERGER/NAME CHANGE MERGER/NAME CHANGE MEMORANDUM OF FARMOUT AGREEMENT LIMITED PARTIAL ASSIGNMENT (50%) NOT LESS THAN 1/8 PARTIAL ASSIGNMENT (32%) ASSIGNMENT ASSIGNMENT MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	223 294 425 WVSOS WVSOS 672 684 692 712 717 722 WVSOS 723 723 734	178 89 127 154 570 848 1 170 499 558
				DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. FONCE BROWN AND RITA BROWN, BROTHER AND SISTER, BOTH SINGLE FONCE BROWN, SINGLE, AND RITA B. BROWN, SINGLE GLENN LOCKHART DBA CAPITAL PETROLEUM COMPANY FOSSIL PETROLEUM COMPANY	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC CAPITAL PETROLEUM ROCKWELL PETROLEUM COMPANY FOSSIL PETROLEUM COMPANY GLENN LOCKHART DBA CAPITAL PETROLEUM COMPANY	ASSIGNMENT (68%) MINERAL DEED NOT LESS THAN 1/8 NOT LESS THAN 1/8 ASSIGNMENT ASSIGNMENT	736 740 100 107 100 101	220 746 462 672 672 134
				GLENN LOCKHART DBA CAPITAL PETROLEUM COMPANY STONESTREET LANDS COMPANY ABARTA OIL AND GAS CO INC CPC ENERGY SBS (B) LP, SUCCESSOR PARTNERSHIP TO GLENVILLE 197	STONESTREET LANDS COMPANY ROCKWELL PETROLEUM COMPANY ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT ASSIGNMENT ASSIGNMENT ASSIGNMENT	101 107 261	131 717 463
		Env	- 0	ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION CPC 78-F, LTD	PARTIAL ASSIGNMENT PARTIAL ASSIGNMENT	275 108 109	83 349 18
		ironme	Office of Oil and Gas	CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION ROCKWELL PETROLEUM COMPANY	CPC 78-F, LTD HS I-A, LTD CARSON PETROLEUM CORPORATION	PARTIAL ASSIGNMENT PARTIAL ASSIGNMENT PARTIAL ASSIGNMENT	109 109 110	20 143
		ental F	of Oil and	ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM CORPORATION	CARSON PETROLEUM CORPORATION ROYAL W. CARSON, JR.	PARTIAL ASSIGNMENT PARTIAL ASSIGNMENT PARTIAL ASSIGNMENT	110 112 112	553 441 229
		rotect	2024	CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION	HS II-B, LTD ROYAL W. CARSON, JR.	PARTIAL ASSIGNMENT PARTIAL ASSIGNMENT	112 112	225 230
		tion		CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION	THOMAS E. EVANS CPC 79-G LTD CPC 79-H LTD	PARTIAL ASSIGNMENT PARTIAL ASSIGNMENT PARTIAL ASSIGNMENT	112 112 112	283 290
				CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION	ROYAL W. CARSON, III ROYAL W. CARSON, III	PARTIAL ASSIGNMENT PARTIAL ASSIGNMENT PARTIAL ASSIGNMENT	112 112 112	296 308 310
	1	I		CARSON PETROLEUM CORPORATION	ROYAL W. CARSON, III	PARTIAL ASSIGNMENT	112	311

r		T.	T	т	-			
				ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	PARTIAL ASSIGNMENT	112	443
				ROCKWELL PETROLEUM COMPANY	EMILY E. CARSON	PARTIAL ASSIGNMENT	114	575
				ROCKWELL PETROLEUM COMPANY	ROYAL W. CARSON, JR.	PARTIAL ASSIGNMENT	114	579
				ROCKWELL PETROLEUM COMPANY, ROBERT R. JONES, AND MARK R.				
				WORL	CARSON PETROLEUM CORPORATION	ASSIGNMENT	123	820
/10	FK090212	02-0010-0014-0000	Q093121001	CARSON PETROLEUM CORPORATION; ROYAL W. CARSON, III; MACK R.				
/10	TROJUZIE	02 0010 0011 0000	Q093121002	WORL; ROYAL W. CARSON, JR.; AND EMILY CARSON	DEVON ENERGY CORPORATION (NEVADA)	ASSIGNMENT	126	434
				THOMAS E. EVANS, AN INDIVIDUAL	DEVON ENERGY CORPORATION	ASSIGNMENT	127	670
				CARSON PETROLEUM CORPORATION	GLENVILLE 1979	PARTIAL ASSIGNMENT	128	181
				CARSON PETROLEUM CORPORATION	GLENVILLE 1979	PARTIAL ASSIGNMENT	128	183
				CARSON PETROLEUM CORPORATION	CANDID COLOR SYSTEMS INC	PARTIAL ASSIGNMENT	138	707
				CANDID COLOR SYSTEMS INC	CANDID OIL & GAS INC	ASSIGNMENT	139	16
				DEVON ENERGY CORPORATION AND DEVON RESOURCE INVESTORS, A			105	10
				LIMITED PARTNERSHIP	DEVON INVESTORS LTD	MERGER/NAME CHANGE	WVSOS	
		1		HS I-A	HS CONSOLIDATED GROWTH PARTNERSHIP	PARTIAL ASSIGNMENT	139	447
				HS CONSOLIDATED GROWTH PARTNERSHIP	HS RESOURCES, INC	ASSIGNMENT	153	467
				HS CONSOLIDATED GROWTH PARTNERSHIP	HS RESOURCES, INC	PARTIAL ASSIGNMENT	153	407
				HS CONSOLIDATED ASSET PARTNERSHIP	HS RESOURCES, INC	PARTIAL ASSIGNMENT	153	500
				DEVON INVESTORS LTD	DEVON ENERGY CORPORATION (DELAWARE)	ASSIGNMENT	155	436
				HS RESOURCES, HS CONSOLIDATED ASSET PARTNERSHIP, HS CONSOLIDATED GROWTH PARTNERSHIP, AND HG/SHB JOINT VENTURE		ASSIGNMENT	158	408
				DEVON ENERGY CORPORATION (NEVADA)	ABARTA OIL AND GAS COMPANY INC (90%) ALLEGHENY INTERESTS INC (10%)	ASSIGNMENT	178	682
				ABARTA OIL AND GAS CO INC	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	261	463
				GLENVILLE 1979	CPC ENERGY SBS (B) LP	MERGER/NAME CHANGE	275	83
		5		CPC ENERGY SBS (B) LP, SUCCESSOR PARTNERSHIP TO GLENVILLE 1979	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	275	83
				ANTERO RESOURCES APPALACHIAN CORPORATION	ANTERO RESOURCES CORPORATION	MERGER/NAME CHANGE	WVSOS	
				ANTERO RESOURCES CORPORATION	CNX GAS COMPANY LLC AND NOBLE ENERGY INC	PARTIAL TERM ASSIGNMENT	411	478
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	377	212
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	388	34
				ANTERO RESOURCES CORPORATION	HG ENERGY II APPALACHIA, LLC	PARTIAL ASSIGNMENT	508	442
				CP LEASE HOLDINGS & ROBERT R JONES II	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	520	563
				HAL MCKINGHT	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	AB 8	722
				LOCATOR'S OIL AND GAS, INC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	511	291
				PATSY HAMMERT	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	511	282
/ 14	FK079362 FEE	p/o 03-002C-0002-0000	FK079362 FEE	DOMINION ENERGY TRANSMISSION, INC.				
/					HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746
15	HGII02609; HGII02920	02-0010-0013-0000	HGII02609; HGII02920	Tygart Resources, Inc., a West Virginia Corporation Thomas E Blandford, III, President The Board of Trustees of Davis & Elkins College	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	508	440
	HG1102320		2.0	The board of Hustees of Davis & Eikins College	1			

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

June 19, 2024

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

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WV Department of Environmental Protection

RE: Drilling Under Roads – Van Wie 1221 N-3H 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, any and all, roads crossed under as identified on the attached survey plat.

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

Very truly yours,

Diane White

Diane C. White

Enclosures

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

#### Notice is hereby given:

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

Paper: The Weston Democrat Newspaper

Public Notice Date: Wednesday, May 22nd & Wednesday, May 29th, 2024

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

Applicant: HG Energy II Appalachia, LLC

Well Number: Van Wie 1221 N-3H

Address:	5260 Dupont Road		
	Parkersburg, WV 26101		

Business Conducted: Natural gas production.

#### Location -

State:	West Virginia	County:	Lewis		
District:	Freemans Creek		Quadrangle:	Vadis 7.5'	1
UTM Coo	ordinate NAD83 Northing:	4327359.9			
UTM coor	rdinate NAD83 Easting:	528675.5			
Watershee	1: Fink Creek				

#### **Coordinate Conversion:**

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

#### **Electronic notification:**

Electronic notification: To receive an email when applications have been received or issued by the Office of Oil and Gas, visit Office of Oil and Gas 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 57<sup>th</sup> 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 <u>DEP.comments@wv.gov</u>.

#### **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

10/04/2024

AUG 26 2024

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE CERTIFICATION</u>

Date of Notice Certification: 06/05/2023

API No. 47-	
<b>Operator's Well No</b>	Van Wie 1221 N-3H
Well Pad Name: V	an Wie

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

State:	West Virginia	Easting:	528675.5	
County:	Lewis	UTM NAD 83 Northing	g: 4327359.9	
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	
Watershed:	Fink Creek			

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:	
*PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	□ RECEIVED/ NOT REQUIRED
■ 2. NOTICE OF ENTRY FOR PLAT SURVEY or □ NO PLAT SURVEY WAS CONDUCTED	□ RECEIVED
■ 3. NOTICE OF INTENT TO DRILL or □ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	□ RECEIVED/ NOT REQUIRED
□ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION     RECEIVED	□ RECEIVED
5. PUBLIC NOTICE     AUG 26 2024	□ RECEIVED
6. NOTICE OF APPLICATION     WV Department of     Environmental Protection	□ RECEIVED

#### **Required Attachments:**

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

#### Certification of Notice is hereby given:

#### THEREFORE, I Diane White

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

Well Operator:	rator: HG II Appalachia, LLC		5260 Dupont Road
By:	Diane White Diane White		Parkersburg, WV 26101
Its:	Agent	Facsimile:	
Telephone:	304-420-1119	Email:	dwhite@hgenergyllc.com
	OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Mark J Schall HG Energy LLC	cribed and swo Commission Ex	orn before me this $\frac{5th}{day}$ day of $\frac{June, 2024}{Notary}$ Public xpires $11/2/2026$

#### Oil and Gas Privacy Notice:

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

> RECEIVED Office of Oil and Gas AUG 26 2024

WV Department of Environmental Protoction

4704105762

## 4704105762

API NO. 47-OPERATOR WELL NO. Van Web 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

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

Date of Notice: 12/10/23	Date Permit Application Filed: 12/13/23
Notice of:	0
PERMIT FOR ANY WELL WORK	CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

 PERSONAL
 REGISTERED
 METHOD OF DELIVERY THAT REQUIRES A

 SERVICE
 MAIL
 RECEIPT OR SIGNATURE CONFIRMATION

 SERVICE
 MAIL
 RECEIPT OR SIGNATURE CONFIRMATION

 Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is no

□ Application Notice □ WSSP Notice □ E&S Plan Notice □ Well Plat Notice is hereby provided to: ★★ HG Energy I Appalachia is not being htticed as they are the Operator of the □ SURFACE OWNER(s) well pad. □ COAL OWNER OR LESSEE

Name:	HG Energy II Appalachia, LLC **	Name: N	A	
Address:				
	Parkersburg, WV 26101			
Name:	Anthony and Dawn Van Wie	T COAL	OPERATOR	
Address:	2700 Jones Road	Name: N		
Manual Addition	Dunkirk, MD 20754	Address:		
□ SURFA	CE OWNER(s) (Road and/or Other Disturbance)			
Name:		SURFA	CE OWNER OF WATER WELL	22523
Address:		AND/OR	WATER PURVEYOR(s)	
		Name:	NA	
Name:		Address:		
Address:				
		OPERA	TOR OF ANY NATURAL GAS STORA	GE FIELD
D SURFA	CE OWNER(s) (Impoundments or Pits)	Name:	BHE GT&S - Attn: Jamie Moore	
Name:		Address:	925 White Oaks Blvd	
Address:			Bridgeport, WV 26330	
		*Please at	tach additional forms if necessary	

Office of Oil and Gas

AUG 26 2024

WV Department of Environmental Protection

#### 04 105762 API NO. 47 OPERATOR WELL NO W

Well Pad Name: Van Wie 122

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

Well Location Restrictions Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing Pursuant to W. Va. Code § 22-0A-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 than the surface owner of the target the twe developed is the reacted in the section ten of the date to the developed in the surface owner than the date to the developed of the date the date to the developed in the reacted measure that the date to the developed of the date date. This limitation may be waived by written consent of the surface owner transmitted to the developed of the date date. 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. water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. 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, (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 on a flowing stream, 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 who permitted prior to the effective date of this article. 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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AUG 26 2024

WV Department of Environmental Protection

#### 4704105762 API NO. 47-704105762 OPERATOR WELL NO. VAR WAR 1221 NITH IS ST2H 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

#### 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

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WV Department of Environmental Protection

#### 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 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

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

## Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-

Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

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

- The proposed well work will constitute a hazard to the safety of persons;
   The plan for soil erosion and sediment control is not adequate or effective;
   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 A permit may also be denied under west Virginia Code  $\S$  22-6A-/(k), the secretary shall deny the issuance of a permit it 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 neuron submitted concerning the permit as issued or a copy of the permit secretary accesses of the written comments submitted concerning the neuron submitted concerning the permit secretary accesses of the secretary accesses of the written comments submitted concerning the neuron secretary accesses of the secret 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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OPERATOR WELL NO. Van Wie 1221 NIH to \$12H

Well Pad Name: Van Wie 122

API NO. 47-

AUG 26 2024

WV Department of Environmental Protection

WW-6A (8-13)

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4 API NO. 47-	7	0	4	canadar	0	5	7	6	2
OPERATOR W	ELLI	NO.	Van Wie	1221 N1	H to \$12H	•			
Well Pad Name	: Van V	Vie 1	221			70) -			

Notice is hereby given by: Well Operator: HG Energy II Appalachia, Telephone: 304-420-1119 Email: dwhite@hgenergyllc.com a, LLC Diane White

Address: 52	260 Dupont Road	
P	arkersburg, 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 <u>depprivacyofficer@wv.gov</u>.

NOTARY PUBLIC
STATE OF WEST VIRGINIA
Cassidy Boardman
5260 Dunpont Rd
Parkersburg, WV 26101 My Commission Expires July 31, 2027

Subscribed and sworn before me this	11th	day of Docomber	,2023
(and	Roo	dm-	Notary Public

My Commission Expires 7 31 2027

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WV Department of Environmental Protection

WW-6A3 (1/12)	4704 105762 Operator Well No. View We 1221 MIN # 00 5 7 6 2
DEPARTMENT OF ENVIRONMENTAL	/EST VIRGINIA PROTECTION, OFFICE OF OIL AND GAS <u>Y FOR PLAT SURVEY</u>
Notice Time Requirement: Notice shall be provided at least SE entry Date of Notice: January 5, 2024 Date of Planned Entry: Jan	
Delivery method pursuant to West Virginia Code § 22-6A-10	
	D OF DELIVERY THAT REQUIRES A T OR SIGNATURE CONFIRMATION
on to the surface tract to conduct any plat surveys required pursua but no more than forty-five days prior to such entry to: (1) The su- beneath such tract that has filed a declaration pursuant to section owner of minerals underlying such tract in the county tax records and Sediment Control Manual and the statutes and rules related to Secretary, which statement shall include contact information, inc	. The notice shall include a statement that copies of the state Erosion oil and gas exploration and production may be obtained from the uding the address for a web page on the Secretary's web site, to
Notice is hereby provided to: * Notice was not se are the Operation	nt to HG Energy 11. Appalachia LLC as they
SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name:     Anthony and Dawn Van Wie       Address:     2700 Jones Road       Dunkirk, MD 20754	Name:Address:
Name: HG Energy II Appalachia, LLC • Address: 5260 Dupont Road	MINERAL OWNER(s)
Parkersburg, WV 26101	Name: Same as Surface Owners

Name:

Address:

Notice is hereby given: Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: Approx. Latitude & Longitude: 39.034844 / 80.558480

Address:

\*please attach additional forms if necessary

State:	West Virginia	Approx. Latitude & Longitude:	39.094844 / 80.668480	
County:	Lewis	Public Road Access:	CR11 / 3 via Straight Run Road	
District:	Freemans Creek	Watershed:	Fink Creek	
Quadrangle:	Vadis	Generally used farm name:	Van Wie	
<b>`</b>			•	

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

#### Notice is hereby given by:

Well Operator:	HG Appalachia, LLC		Address:	5260 Dupont Red	
Telephone:	304-420-1119			Parkersburg, WV 26101	
Email:	dwhite@hgenergyllc.com	Diane White	Facsimile:	304-863-2752	

#### 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 <u>depprivacyofficer@wv.gov</u>.

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## AUG 26 2024

WV Department of Environmental Protection

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 01/05/2024 Date Permit Application Filed: 01/15/2024

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

HAND	CERTIFIED MAIL
DELIVERY	RETURN RECEIPT REQUESTED

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

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

Name:	HG Energy II Appalachia, LLC *	Name:	Anthony and Dawn Van Wie
Address:	5260 Dupont Road	Address:	2700 Jones Road
	Parkersburg, WV 26101		Dunkirk, MD 20754

#### Notice is hereby given:

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

State:	West Virginia	UTMANAD 00	Easting:	528668.6	
County:	Lewis	UTM NAD 83	Northing:	4327353.9	
District:	Freemans Creek	Public Road Ac	cess:	CR11 / 3 via Straight Run Road	
Quadrangle:	Vadis WV 7.5'	Generally used	farm name:	Van Wie	
Watershed:	Fink Creek	-			

#### This Notice Shall Include:

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

#### Notice is hereby given by:

Well Operator:	HG Energy II Appalachia, LLC	Authorized Representative:	Diane White	
Address:	5260 Dupont Road	Address:	5260 Dupont Road	
	Parkersburg, WV 26101		Parkersburg, WV 26101	
Telephone:	304-420-1119	Telephone:	304-420-1119	RECEIVED
Email:	dwhite@hgenergyllc.com Diane White	Email:	dwhite@hgenergyllc.com	RECEIVED Office of Oil and Gas
Facsimile:	304-863-3172	Facsimile:	304-863-3172	AUG 26 2024

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

#### STATE OF WEST VIRGINIA

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF PLANNED OPERATION</u>

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

 Date of Notice:
 01/05/2024

 Date Permit Application Filed:
 01/12/2024

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

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

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

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

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

Name:	HG Energy II Appalachia, LLC	Name:	Anthony and Dawn Van Wie	
Address	5260 Dupont Road	Address:	2700 Jones Road	
	Parkersburg, WV 26101		Dunkirk, MD 20754	

#### Notice is hereby given:

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

State:	West Virginia	Easting	528668.6
County:	Lewis	- UTM NAD 83 Northir	
District:	Freemans Creek	Public Road Access:	CR 11 / 3 via Streight Run Road
Quadrangle:	Vadis WV 7.5'	Generally used farm nam	
Watershed:	Fink Creek		

#### This Notice Shall Include:

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

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

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WV Department of Environmental Protection



## 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 N-3H 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,

Stop &

Stephen G. Johnson Director of Operations

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WV Department of Environmental Protection

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

E.E.O./AFFIRMATIVE ACTION EMPLOYER

## 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 CAC #
chemical Maine	CAS #	Multiple CAS #'s
Pro Shale Slik 405	Mixture	68551-12-2
		7647-14-5
		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
		68607-28-3
		107-21-1
		111-76-2
		67-56-1
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
		1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
BIO CLEAR 2000	Mixture	25322-68-3
		10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
		107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67.62.0
110 110W - TOT-IN		67-63-0 68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	
	19000-30-0	

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WV Department of Environmental Protection

OPERATOR: HG Energy II Appalachia, LL WELL NO: Van Wie 1221 N-3H

PAD NAME: Van Wie 1221

REVIEWED BY: Diane White

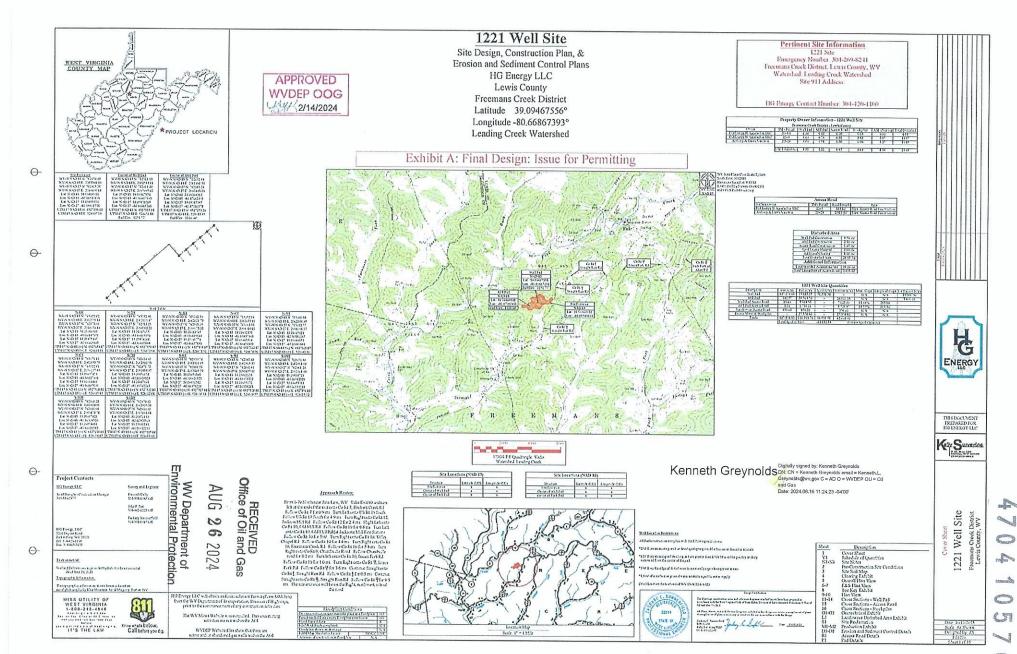
\_\_\_\_ SIGNATURE: \_\_\_\_ Diane White

### WELL RESTRICTIONS CHECKLIST

#### HORIZONTAL 6A WELL

### Well Restrictions

	At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to Perennial Stream, Lake, Pond, Reservoir or Wetland; OR	any
	DEP Waiver and Permit Conditions	
$\checkmark$	At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to Naturally Producing Trout Stream; OR	any
	DEP Waiver and Permit Conditions	
$\checkmark$	At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to Groundwater Intake or Public Water Supply; OR	o any
	DEP Waiver and Permit Conditions	
$\checkmark$	At Least 250 Feet from an Existing Water Well or Developed Spring to Well E Drilled; OR	Being
	Surface Owner Waiver and Recorded with County Clerk, OR	
	DEP Variance and Permit Conditions	
$\checkmark$	At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; (	OR
	Surface Owner Waiver and Recorded with County Clerk, OR	RECEIVED Office of Oil and Gas
	DEP Variance and Permit Conditions	AUG 26 2024
$\checkmark$	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet <b>E</b> of the Pad; OR	WV Department of witoencental Protection
	Surface Owner Waiver and Recorded with County Clerk, OR	
	DEP Variance and Permit Conditions	



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