

west virginia department of environmental protection

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

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

Monday, 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-4H 47-041-05763-00-00

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-4H

Farm Name: HG ENERGY II APPALACHIA

U.S. WELL NUMBER: 47-041-05763-00-00

Horizontal 6A New Drill

Date Issued: 9/30/2024

API Number: 47-041-05763

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Also, 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

APINO. 44704105763

OPERATOR WELL NO. Van Wie 1221 N-4H
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, 494519932 Lewis Freeman Vadis 7.5'
Operator ID County District Quadrangle
2) Operator's Well Number: Van Wie 1221 N-4H / 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: 1256' Elevation, proposed post-construction: 1251.7'
5) Well Type (a) Gas X Oil Underground Storage
Other
(b)If Gas Shallow X Deep
Horizontal X
6) Existing Pad: Yes or No No
7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s): Marcellus at 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: 28,038'
11) Proposed Horizontal Leg Length: 20,126'
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 No X
(a) If Yes, provide Mine Info: Name:
Depth:
Seam: RECEIVED Office of Oil and Gas
Owner: AUG 26 2024
WV Department of Environmental Protection

Page 1 of 3

4704105763 API NO. 47-____

OPERATOR WELL NO. Van Wie 1221 N-4H
Well Pad Name: Van Wie 1221

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120'	CTS
Fresh Water/Coal	20"	NEW	J-55	94	1225'	1225'	40% Excess, CTS
Intermediate 1	13 3/8"	NEW	J-55 BTC	68	2760'	2760'	40% Excess, CTS
Intermediate 2	9 5/8"	NEW	N/L-80 BTC	40	5900'	5900'	40% Excess Tail, CTS
Production	5 1/2"	NEW	P-110 HP	23	28038'	28038'	20% Excess Tail, CTS
Tubing					**************************************		
Liners							

Kenneth Greynolds DN: CN = Kenneth Greynolds SDN: CN = Kenneth Greynolds email = Kenneth L. Greynolds gww.gov C = AD O = WVDEP OU = Oil and Gas Date: 2024.08.16 11:19:20 -0400′

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	.500		•		Drilled In
Fresh Water/Coal	20"	26"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate 1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Load 40% excess, Tall 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	5750		Type 1/Class A	Lead 40% excess, Tall 0% Excess Lea
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% excess yield = 1.19, tall yield 1.940
Tubing							
Liners							

PACKERS

Kind:	
Sizes:	Office of Oil and Gas
Depths Set:	AUG 26 2024
	WV Department of Environmental Protection

Page 2 of 3

Well Pad Name: Van Wie 1221

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

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 7035'. Drill horizontal leg to estimated 20,126' lateral length, 28,038' 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

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.

reshwater/Coal - centralized every 3 joints to surface

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

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

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

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

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

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

Intermediate 1 - ***** Slorage String **** CTS **** (5.4 ppg Load - Yield 1.24 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements) B348 - 0.5% BWOB Fluid Loss / D013 - 0.75% BWOB Retarder / D47 - 0.92 gal / sack VBWOB Anti Foam / D202 - 0.15% BWOB Dispersant / D951 - 5.0 per FBL. CamNET* - 60% Excess15.9 ppg Tail - Yield 1.17 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements) B160A - 0.15% BWOB Dispersant / B547 - 0.35% BWOB GasBLOK* / D013 - 0.3% BWO

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

Production - "Lead: 14.5 ppg POZ:PNE-1 + 0.3% 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 ASCA1 + 0.5% bwoc MPA17020% ExcessLead Yield=1.19Tail Yield=1.94CTS"

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD.

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

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

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

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

RECEIVED Office of Oil and Gas

#

AUG 26 2024

WV Department of Environmental Protection

*Note: Attach additional sheets as needed.

Page 3 of 3

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	3000	CAS number
		portland cement with	Portland cement		65997-15-1
		early compressive	Calcium oxide Magnesium oxide		1305-78-8 1309-48-4
emium NE-1	Portland Cement	strength properties.	Crystalline silica: Quartz (SiO2)		14808-60-7
remium ive-1	Portiand Cement				
		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.			
ntonite	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		Liver and the second second	
		of strength development			
ium Chloride	Accelerator				
		Graded (3/8 to 3/4 inch)		Te	T
		cellophane flakes used as	Ingredient name	%	CAS number
		a lost circulation material.	No hazardous ingredient		
o Flake	Lost Circulation	a lost circulation material.			
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in			
		cementing operations. It	Instead on the name	9/	CAS number
		Is very effective	Ingredient name	%	126-73-8
		minimizing air	Tributyl phosphate	90 - 100	126-73-8
		entrapment and			
		preventing foaming tendencies of latex			
		systems.			
-13L	Foam Preventer	systems.			
130	Tourn Teventer				
		11 11 1 1	Ingredient name	%	CAS number
1.16	D. A. J.	Used to retard cement	Sucrose	90 - 100	57-50-1
anulated Sugar	Retarder	returns at surface. 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
		temperatures.	Calcium magnesium oxide	90 - 100	3/24/-91-9
-1					
		Multi-purpose polymer			
		additive used to control	Ingredient name	%	CAS number
		free fluid, fluid loss,	No hazardous ingredient		
		rheology, and gas			
PA-170	Gas Migration	migration.			
		A synthetic pozzolan,			
		(primarily Silicon Dioxide).			
		When blended with			
		cement, Pozzolan can be	[Tay	1000
		used to create	Ingredient name	%	CAS number
		lightweight cement	Crystalline silica: Quartz (SiO2) Calcium oxide	5 - 10 1 - 5	14808-60-7 1305-78-8
		slurries used as either a	Calcium Oxide		1303-76-6
		filler slurry or a sulfate		HECEIVED	
		resistant completion		RECEIVED Office of Oil and Gas	
		cement.		A TOP TO THE PARTY OF THE PARTY	
z (Fly Ash)	Base			AUG 26 2024	
		A law tomsture		20 2024	
		A low temperature retarder used in a wide		W// Dorl	
			Ingredient name	WV Department of	CAS number
		range of slurry formulations to extend	Organic acid salt	Environmental-Protection	Trade secret.
		the slurry thickening time.		-3371	
	Retarder	orany androning airie.			
3				- Edit solves	
3				l ac	
3			Ingredient name	%	CAS number
3			2-Butoxyethanol	20 - 30	111-76-2
3			2-Butoxyethanol Proprietary surfactant	20 - 30 10 - 20	111-76-2 Trade secret.
3		Used to water wet casing	2-Butoxyethanol Proprietary surfactant D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	20 - 30 10 - 20 5 - 10	111-76-2 Trade secret. 110615-47-9
3		Used to water wet casing and formation to facilitate	2-Butoxyethanol Proprietary surfactant	20 - 30 10 - 20	111-76-2 Trade secret.

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

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

15.9 ppg Tail - Yield 1.17 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)
B160A - 0.15% BWOB Dispersant / B547 - 0.35% BWOB GasBLOK* / D013 - 0.3% BWOB Retarder / D047 - 0.02 gal / sack Anti Foam / D801 - 0.03 gal / sack Retarder - 0% Excess

1221 N-4H Marcellus Shale Horizontal Lewis County WV



801 – 0.03 gal / sack Reta									Lewis Co	unty, WV	as	
						1221 N	I-4H SH	L	14197356.34N 1734507.54E 20 0			
Ground Ele	Ground Elevation 1251.77'				1221 N-4H LP				1/1/08/2// 6/20/1/36/00/38/96			
Azm	Azm 340.6		340.60	1°		1221 N	I-4H BH	L	14	1217234.32N 17293	549 SE 07 18 EF	
WELLBORE DIA	AGRAM	HOLE	CASING	GEOLOGY	ТОР	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	8 COMMENTE E	
01501801801	ISSSESSESSESSESSESSESSESSESSESSESSESSESS										2 A 80	
(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 f wal	
		201	20"					15.6 ppg PNE-1 + 3% bwoc CaCl	Centralized every 3	Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" wal	
		26"	94# J-55	Coal	740	746	AIR	40% Excess	joints to surface	of one hole volume with Fresh Water prior to	thickness Burst=2110 psi	
x	x			Fresh Water Protection	0	1225 🗸		Yield=1.20 / CTS		pumping cement.	Buist-2110 psi	
				Little Lime	2167	2187		See above (LEFT) for	Bow Spring on every	Once casing is at setting		
		47.5"	13-3/8" 68#	Big Lime	2216	2265	AIR / KCL	Storage String Cement	joint	depth, Circulate and condition at TD. Circulate a	Intermediate casing = 0.480"	
X	X	17.5"	J-55 BTC	Injun / Gantz (Storage)	2265 / 2597	2361 / 2647	Salt Polymer	Blend to Meet DTI Requirements for Gas	*will also be running ACP for isolating	minimum of one hole	wall thickness Burst=3450 psi	
				Intermediate 1	0	2760		Storage Field Isolation	storage zone*	volume prior to pumping cement.		
×	×			Thirty Foot	2789	2799				every third condition mud at TD. W Circulate a minimum of one		
				Gordon	2837	2915]	40% Excess / Tail: 15.9	Bow Spring on first 2 joints then every third		Intermediate casing = 0.395"	
		27		5th Sand	3066	3102	AIR / KCL Salt Polymer					
x	x	(06) - 5-7 (0A)	9-5/8" 40#	Bayard	3161	3174						
		12.25"	N / L-80 BTC	Speechley	3634	3666					wall thickness Burst=5750 psi	
				Benson	5038	5072	1 Olymer				Burst=5750 psi	
				Alexander	5324	5444		Zerow Excess. 010				
				Intermediate 2	0	TVD: 5675' MD: 5900' Inc: 24 dea.						
×	X					2.22			Run 1 spiral centralizer			
		8.75"					AIR / 9.0ppg		every 5 joints from the			
							SOBM	<u>Lead</u> : 14.5 ppg	top of the curve to surface.			
								POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc	54114001			
				Rhinestreet	6303	6591		EC1 + 0.75 gal/sk FP13L		Once on bottom/TD with		
			5-1/2"	Cashaqua	6591	6736		+ 0.3% bwoc MPA170 <u>Tail</u> : 14.8 ppg PNE-1 +		casing, circulate at max allowable pump rate for at	Production casing = 0.415"	
×	X		23#	Middlesex	6736	6815	11.5ppg-	0.35% bwoc R3 + 0.75		least 2x bottoms up, or until	wall thickness Burst=16240 psi	
		8.5" Curve	P-110 HP TXP / W461	West River	6815	6884	12.5ppg SOBM	gal/sk FP13L + 50% bwoc ASCA1 + 0.5%	Due 4 spiral controllers	returns and pump pressures indicate the hole is clean.	Note:Actual centralizer	
			171 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Burkett	6884	6925	GODINI	bwoc MPA170	Run 1 spiral centralizer every 3 joints from the	Circulate a minimum of one	schedules may be changed due to hole conditions	
				Tully Limestone	6925	6952		20% Excess Lead Yield=1.19	1st 5.5" long joint to the top of the curve.	hole volume prior to pumping cement.	das to floic conditions	
				Hamilton	6952	7002		Tail Yield=1.94	top of the curve.			
				Marcellus TMD / TVD	7002	7049	11.5ppg-	CTS		8		
		8.5" Lateral		(Production)	28038	7035	12.5ppg SOBM					
×	X	alladoladadada (a.c.)		Onondaga	7049		34 7005WUJD 145XX					
		X	X		X ::::::::::::::::::::::::::::::::::::		X	X	X	X	X	
		TVD / 7912' ID			8.5" Hole - Cemente 5-1/2" 23# P-110 HF				+/-2012	26' ft Lateral	TD @ +/-7035' TVD +/-28038' MD	
184.0		X	×	X	X					X	X=centralizers	

4704105763

API Number 47 - ____ - Operator's Well No. Van Wie 1221 N-4H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy II Appalachia, LLC OP Code 494501907
Watershed (HUC 10) Fink Creek Quadrangle Vadis 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes
Will a pit be used? Yes No V
If so, please describe anticipated pit waste: NA
Will a synthetic liner be used in the pit? Yes No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:
Land Application
Underground Injection (UIC Permit Number)
Reuse (at API Number TBD - At next anticipated well site Off Site Disposal (Supply form WW-9 for disposal location)
Other (Explain
Will closed loop system be used? If so, describe: Yes, cuttings and fluids will be collected in a closed loop system, re-used or hauled to an approved disposal site or landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Vertical-Air, Air/KCL, Air/SOBM, Horizontal-SOBM
-If oil based, what type? Synthetic, petroleum, etc. Synthetic
Additives to be used in drilling medium? Water, Soap, KCI, Barite, Base Oil, Wetting Agents
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Approved Landfill
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA
-Landfill or offsite name/permit number? See Attached
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.
Company Official Signature Dione White
Company Official (Typed Name) Diane Write Gas
Company Official Title Agent AUG 26 2024
Subscribed and sworn before me this 13th day of June , 20 24
My commission expires 11/2/2026 Notary Public Notary Public Notary Public Notary Public SIATE OF WEST VIRGINIA Mark J Schall HG Energy LLC SEED DUPONI ROAD PARKLISBURG WV 26105 MY COMMISSION COPPERS NOTWERT 2, 7020

Cuttings Disposal/Site Water

Cuttings -Haul off Company:

Eap Industries, Inc. DOT # 0876278 1575 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 814-425-7778

Disposal Locations:

Apex Environnemental, LLC Permit # 06-08438 11 County Road 78 Amsterdam, OH 48903 740-548-4889

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

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

Max Environmental Technologies, Inc. Facility Permit # PAD004835146 / 901071, 235 Max Lane
Yukon, PA 25968
724-722-3500

Max Environnemental Technologies, Inc. Facility Permit # PAD05087072 / 301859 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 3100 Hill Road Library, PA 15129 724-348-7013 412-384-7569

Waste Management Arden Permit # 100172 200 Rangos Lane Washington, PA 15301 724-222-3272

Waste Management Meadowfill Permit # 1032 1488 Dawson Drive Bridgeport, WV 26380

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

10/04/2024

Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martinsville, WV 26035 804-455-2800

Energy Solutions, LLC Permit # UT 2800249 423 West 300 South Suite 200 Salt Lake City, UT 84101

Energy Solutions Services, Inc. Permit # R-73006-L24 1560 Bear Creek Road Oak Ridge, TN 37830

Northern A-1 Environmemental Services Permit ID MID020906814 8947 US 121 North, PO Box 1080 Kalkaska, MI 49646 221-258-9961

Water Haul off Companies:

Dynamic Structures, Clear Creek DCT # 720485 8790 State Route 7 New Waterford, OH 44445 880-892-0164

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

Select Energy Services, LLC PO Box 208997 Dallas, TX 75320-3997

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

Mustang Ollfield Services LLC PO Box 739 St. Clairsville, OH 48950

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

Disposal Locations:

Solidification Waste Management, Arden Landfill Permit # 100172 200 Rangos Lane Washington, PA 15801 724-225-1589

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

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

Force, inc. 1380 Rts. 286 Hwy. E, Suite 803 Indians, PA 15701

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

Equipment Transport 1 Tyler Court Carlisle, PA 17015

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

Burns Drilling & Excavating 618 Crabapple Road P.O. Box Wind Ridge, PA 16380

Office of Oil and Gas

AUG 26 2024

WV Department of Environmental Protection

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

Groselle (SWIW #34) Permit # 4096 Rt. 88 Garrettsville, OH 718-275-4816

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

10/04/2024

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 Brîne, LLC) Permit #84-031-2-7241-00-00 2680 Exposition, Suite 117 Austin, TX 78703 512-478-6545

Mozena #1 Well (SWIW # 13) Permit # 34-157-2-5511-00-00 5367 E. State Street Newcomerstown, OH 48832 740-768-3966

Goff SWD #1 (SWIW # 27) Permit # 84-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 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
804-665-2652

OH UIC #1. Bu keya UIC Barnesville 1 & 2 CNX Gas Corr..;any, LLC 1000 Consol Energy Drive Permit # 24-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-823-6568

US Steele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15780 304-823-6568

Chapin #7 UIC (SWIW #7)
Permit # 34-083-2-4187-00-00
Elkhead Gas& Oil Company
12168 Marne Rd. NE
Newark, OH 48055
740-768-8966

RECEIVED
Office of Oil and Gas
AUG 26 2024

WV Department of Environmental Protection

Form WW-9 Operator's Well No. Van Wie 1221 N-4H HG Energy II Appalachia, LLC Proposed Revegetation Treatment: Acres Disturbed 51.82 Prevegetation pH 3 Tons/acre or to correct to pH 6.5 Fertilizer type 10-20-20 500__lbs/acre Fertilizer amount Mulch Hay 2 Tons/acre Seed Mixtures Temporary Permanent Seed Type lbs/acre Seed Type lbs/acre Tall Fescue 40 Tall Fescue 40 Ladino Clover Ladino Clover 5 Maintain E&S controls through the drilling and completion process Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Pre-seed/mulch as soon as reasonably possible per regulation. Comments: Upgrade E&S if needed per WV DEP E&S manual.

Date:

Title: Oil & Gas Inspector

___) Yes

Field Reviewed?

10/04/2024

RECEIVED
Office of Oil and Gas

AUG 26 2024

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

January 2024: Version 1

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

HG Energy II Appalachia, LLC

5260 Dupont Road

Parkersburg, WV 26101

RECEIVED
Office of Oil and Gas

AUG 26 2024

WV Department of Environmental Protection

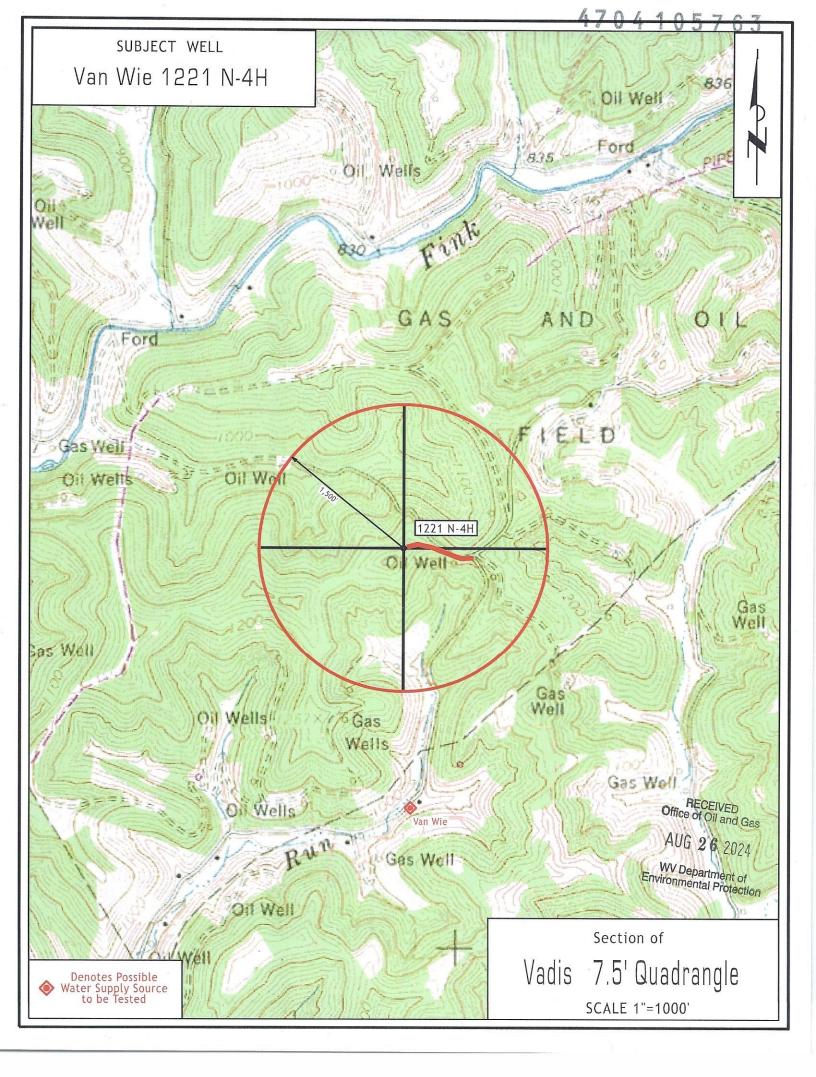
Objectly signed by: Kenneth Greynolds

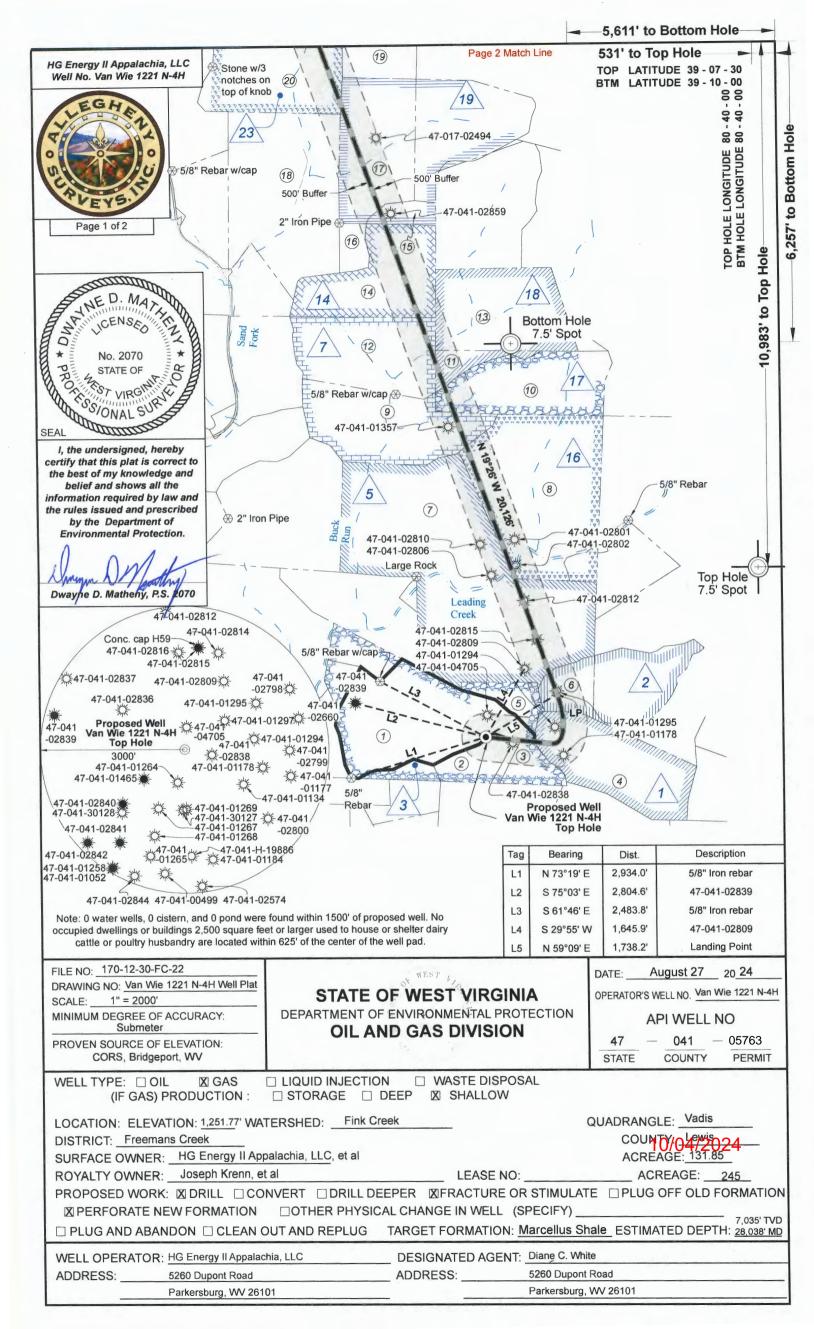
Kenneth Greynolds

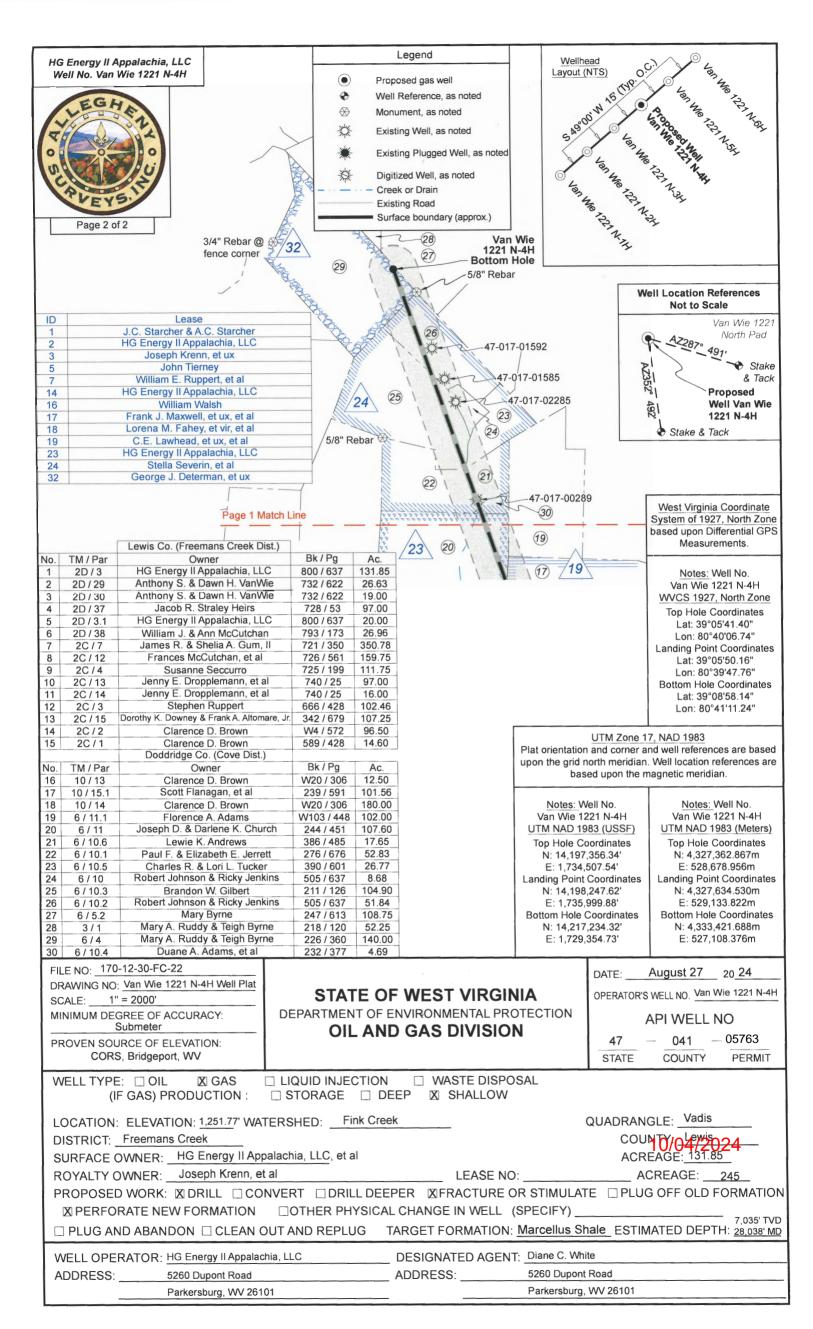
Spit Cut + Kenneth Carproble casual = Kenneth L.

Greynolds

Gr







WW-6A1 (5/13)

Operator's Well No. Van Wie 1221 N-4H

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

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 filling 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

RECEIVED Office of Oil and Gas

AUG 26 2024

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

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

HG Energy II Appalachia, LLC Van Nie 1221 N-4H

L221N Tract	NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE							
	NONDEK	TAX WAF	ELASE WOWNER	J. C. STARCHER AND A. C. STARCHER	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	39								
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	52								
,				SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	ASSIGNMENT	156								
,				SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	166								
		-		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294								
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425								
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51								
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9								
1				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672								
1	FK002931	03-002D-0037-0000	FK002931	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684								
, .		3 AMAN (1999) (1999) (1999) (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994)			CNX GAS COMPANY LLC AND NOBLE ENERGY INC	NOT LESS THAN 1/8	692								
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712								
				DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	ASSIGNMENT	717								
				CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722								
				NOBLE ENERGY, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS								
				DOMINION TRANSMISSION, INC.	EASTERN GAS TRANSMISSION AND STORAGE, INC.	MERGER/NAME CHANGE	wvsos								
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740								
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	798								
				DOMINION ENERGY TRANSMISSION, INC.	TIG ENERGY II ALT ALACTIIA, ELC										
12	FK079442 FEE	03-002D-0038-0000 03-002D-0040-0000	FK079442 FEE		HIG ENERGY II ARRALAGUIA LLC	MINERAL DEED	740								
		p/o 03-002D-0042-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC		33								
				JOSEPH KRENN AND EMILY E. KRENN, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42								
				WILLIAM A. LOUWTHER	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	156								
						SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	ASSIGNMENT	166						
				SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	294								
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	425								
			l .		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	WVSOS							
		e.		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WV3U3								
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	672								
/		03-002D-0003-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	Service Control							
		03-002D-0003-0001									CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
3	FK054825	03-002D-0003-0003	Q100903000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY INC	NOT LESS THAN 1/8	692								
3	FK079440 FEE	03-002D-0028-0000	Mark Accessory of Transport Co.	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712								
		03-002D-0029-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717								
		03-002D-0030-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722								
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS								
					HG ENEDGY II ADDALACHIA LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723								
		<u> </u>		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF	1								
		Virginia	~ 9		HC ENERGY II ARRALACHIA II C	FARMOUT AGREEMENT	734								
			Office o	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736								
		ne ne	4 CD 8 PR	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740								
		Environmenta	of C	DOMINION ENERGY TRANSMISSION, INC.		NOT LESS THAN 1/8	39								
	T	attment of tal Protection	Dil and	JOHN TIERNEY	SOUTH PENN OIL COMPANY		156								
		ro	2 3 1 1 1	SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	ASSIGNMENT	166								
		tec	ED and Ga 2024	SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	294								
	1	# # # # # # # # # # # # # # # # # # #	Gas 24	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	425								
	1	j š		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	WVSOS								
	1			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE MERGER/NAME CHANGE	WVSOS	-							

				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
F	FK082810	03-002C-0007-0000	Q100341000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	5
7	FK056828	03-0020-0007-0000	Q100541000	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	17
				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	723	
	1			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
7	FK064782 FK079376 FEE	03-002C-0003-0000 03-002C-0004-0000 p/o 03-002C-0002-0000 p/o 03-002C-0007-00001 Environmental Protection	Office of Oil and Ga AUG 26 2024	WILLIAM E. RUPPERT, WIDOWER; ROY F. RUPPERT, WIDOWER; AGNES RILEY AND MARTIN J. RILEY, HER HUSBAND; CHARLES F. RUPPERT AND W. E. RUPPERT, ATTORNEY IN FACT FOR CLARA RUPPERT HUNKLER; B. A. MAYBURY, HENRY MAYBURY, FRED MAYBURY, GILBERT MAYBURY, NORA KESSEN, NORA MAYBURY, GERTRUDE MAYBURY, CATHERINE MAYBURY, MARCELLA 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 HERMAN J. MAYBURY; ANDREW B. MAYBURY, MARCELLA C. MAYBURY, JOSEPH 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 WIFE HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.		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 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	178 89 127 154 57 570 848 170
		<u>ଫ</u> ୁ ଦୁ	Gas 24	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	558 220
		on	Ø	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746
/ 14	FK079362 FEE	p/o 03-002C-0002-0000	FK079362 FEE	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746
				WILLIAM WALSH	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	39	1
				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	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
1				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9	628
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
10	FK054831	03-002C-0008-0000	O101031000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
16	FK083808	03-002C-0012-0000	G101031000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
	50.000000000000000000000000000000000000			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1

m ca
-
(Married)
0
CI
0)
CN

	1 1			DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
				DOIVING I RANSIVISSION, INC.	DOMINION ENERGY WITHOUT STEEL, INC.	SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	ING ENERGY WANTABLESWAY 220	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.	THE EMERICAL PARAMETERS & CONTRACTOR OF THE EMERICAL PARAMETERS & CONTRACTOR OF THE EMPIRE OF THE EM			
17	FK057667	03-002C-0013-0000	Q100495000	FRANK J. MAXWELL AND CLARA G. MAXWELL, HIS WIFE; RUTH M. JOHNSON AND LOUIS A. JOHNSON, HER HUSBAND; W. BRENT MAXWELL, JR. AND MARGUERITE MAXWELL, HIS WIFE; EVERETT W. MAXWELL AND RUBY FARR MAXWELL, HIS WIFE; HARRIET M. JARVIS AND HUGH JARVIS, HER HUSBAND; EMMA M. LATHAM AND J. FRANK LATHAM, HER HUSBAND; ISAAC H. MAXWELL AND ELLA LOUISE MAXWELL, HIS WIFE; THE UNION BANK OF CLARKSBURG, GUARDIAN OF JAMES HORNER DAVIS III AND WILLIAM MAXWELL DAVIS, MINORS BY HUGH JARVIS, PRESIDENT; BLANCHE M. HARRISON AND S.R. HARRISON, JR., HER HUSBAND; CLAY MAXWELL AND BLANCHE S. MAXWELL, HIS WIFE; J.H. MAXWELL AND VIRGINIA E. MAXWELL, HIS WIFE; SUSIE P. KIGER AND L.E. KIGER, HER HUSBAND; INEZ WILSON, WIDOW; LEWIS M. WOLFE AND EDITH M. WOLFE, HIS WIFE; PEARL FLEMING AND A.W. FLEMING, HER HUSBAND; CHRISTINE M. THOMPSON AND CHARLES H. THOMPSON, HER HUSBAND; GRACE M. GAYLORD, WIDOW; MARY M. HARPER AND WILLIAM J. HARPER, HER HUSBAND; RUTH M. DAVIES, WIDOW; F.P. MAXWELL AND RETA MAXWELL, HIS WIFE; CARRIE V. MAXWELL AND HAYMOND MAXWELL SR., HER HUSBAND; SUSAN MAXWELL TUTENBERG AND CHARLES TUTENBERG, HER HUSBAND; CLAUDE D. MAXWELL AND WINIFRED L. MAXWELL, HIS WIFE; CAROLYN M. WILLIAMS AND DAVID WILLIAMS,	i,			
				HER HUSBAND, BY RETTA CARROLL, ATTORNEY-IN-FACT; AND A.F. MCCUE AND ALICE M. MCCUE, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	179	55
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
					CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS SUPPLY CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	i	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (30%)	712	848
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	The state of the s	717	1
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	170
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT		1/0
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
						THIRD AMENDMENT TO MEMORANDUM OF		5,0940-12
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
		I		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220

Office of Oil and Gas
AUG 26 2024

WV Department of Environmental Protection

					4	I I		
				LORENA M. FAHEY AND W. C. FAHEY, HER HUSBAND; JOHN			1	
				DROPPLEMAN; MARY MULLOOLY; JAMES P. DROPPLEMAN AND			- 1	'
				BERTHA F. DROPPLEMAN, HIS WIFE; J. P. DROPPLEMAN, COMMITTEE				·
				OF MARY LUNSFORD DROPPLEMAN AND GRACE M. DROPPLEMAN,				·
1				INCOMPETENT; CLARA G. DROPPLEMAN; CATHERINE B. GEARY AND	í de la companya de		l	'
1				ROLAND R. GEARY, HER HUSBAND; EDNA BRONUSHAS AND I. B.				
1				BRONUSHAS, HER HUSBAND; ELLA KEIHE AND CLARENCE FRANK				'
				KEIHE, HER HUSBAND; HELEN A. DROPPLEMAN; PAUL DROPPLEMAN				'
				AND SIGALEE DROPPLEMAN, HIS WIFE; HELEN M. TAYLOR AND L. W.			- 1	·
				TAYLOR, HIS WIFE; VIRGINIA ARMSTRONG; DONALD DROPPLEMAN;				·
1				JEAN DROPPLEMAN; AND JEAN DROPPLEMAN, TRUSTEE FOR				
				BERNARD DROPPLEMAN AND MARY DROPPLEMAN, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	228	365
		03-002C-0014-0000	0.101050000	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
18	FK065325	03-002C-0015-0000	Q101060000	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
		CONSTRUCT SEASON CONTROL SEASON CONT	1	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9	628
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
		1		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
						SECOND AMENDMENT TO MEMORANDUM OF	722	400
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
					1 =	THIRD AMENDMENT TO MEMORANDUM OF	724	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT ASSIGNMENT (68%)	734 736	220
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNIVIENT (00%)	730	220
				C. E. LAWHEAD AND ERMA R. LAWHEAD, HIS WIFE; AND LAURA				'
		1		LYDEN, WIDOW	A. T. CARR	NOT LESS THAN 1/8	61	379
		1		A. T. CARR	JAMES T. COX	ASSIGNMENT	61	438
				A. T. CARR	HOMER ROBINSON AND PHIL SHIPP	ASSIGNMENT	86	188
1	1			HOMER ROBINSON AND PHIL SHIPP	R. WAYNE CHRISTENSON	ASSIGNMENT	87	184
				JAMES T. COX, DECEASED	BRUGGERMAN	LAST WILL AND TESTAMENT	53	499
				J. JOSEPH COX, DECEASED	CLARA ANN MORAN AND MARY JO BRUGGEMAN [sic]	LAST WILL AND TESTAMENT	U	107
				ALTA SHIPP, SURVIVOR OF HERSELF AND PHIL SHIPP, DECEASED	ROCKWELL PETROLEUM COMPANY	ASSIGNMENT	111	21
	1		1	HOMER ROBINSON AND JEWEL ROBINSON HIS WIFE	ROCKWELL PETROLEUM COMPANY	ASSIGNMENT	111	19
			1	ROCKWELL PETROLEUM COMPANY	CPC 79-H LTD	ASSIGNMENT	112	316
				ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	ASSIGNMENT	112	440
				ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	ASSIGNMENT	112	442
			1	CARSON PETROLEUM COMPANY	ROYAL W. CARSON JR	ASSIGNMENT	112	228
				CARSON PETROLEUM COMPANY	CPC 79-H LTD	ASSIGNMENT	112	297
		m	1	CARSON PETROLEUM COMPANY	ROYAL W. CARSON III	ASSIGNMENT	112	309
		Env		GEORGE P. STUBBS AND R. WAYNE CHRISTENSON, TRUSTEE	ROCKWELL PETROLEUM COMPANY	ASSIGNMENT	123	98
1		338 :	≯	WORL, ROYAL W. CARSON JR, AND EMILY CARSON	DEVON ENERGY CORPORATION (NEVADA)	ASSIGNMENT	126	434
1		16	F 66 -	CARSON PETROLEUM COMPANY	GLENVILLE 1979	ASSIGNMENT	128	184
		9	1 2 1	CPC 79-H LTD, BY CARSON PETROLEUM, ITS GENERAL PATNER	MARY A. CALLAN AND R.C. GRAYSON: 1.6%	ASSIGNMENT	133	307
	1	art C	RECEIVED PRICE OF OIL &		ALICE E. MASON	ASSIGNMENT	135	354
1	1	l me	i alk	MASON	INLIGE E. MINDON	AUSTORITIETT	2331	551
		WV Department of	Office of Oil and Gas					

	I	1	1	Ĩ				
				DEVON ENERGY CORPORATION, A NEVADA CORPORATION; DEVON				
				ENERGY CORPORATION AS ATTORNEY-IN-FACT FOR VAN A. BARBER &			10	
				PAT BARBER; HENRY A. BITTNER; FRED J. AND L. DARLENE CASOTTI;			1	
				JOHN F. CHANEY; THOMAS E. CORSON; GOLSETH, YOUNG &YOUNG 79	-		1	
19		02-0010-0015-0000		H; MARY A. CALLAN AND R. C. GRAYSON; GREENS INDUSTRIAL PARK				
19	ARC-9707	02-0010-0015-0001	ARC-9707	COMPANY; JOHN HAMER AND GAYLE G. HAMER; JAMES C. HARRIS;				
		02 0010 0013 0001		JEANNE N. HOLLENBECK; GEORGE H. JENNINGS; GEORGE R. JOYCE;				
				JULIAN KELLY AND BARBARA KELLY; NEIL C. KING; ALICE E. MASON,				
				TRUSTEE; DALE W. MATTSON; HAROLD B. METCALF; DERLAND				
			1	MOORE; LYNN L. MEYERS; CLINTON B. NORTHCUTT; ROY SCHENK;			1	
				WESSON SCROGGIN AND BARBARA SCROGGIN; FREDERICK C.				
				STREICH; PETER B. TAYLOR; AND DONALD V. H. WALKER	DEVON INVESTORS LTD	ASSIGNMENT	144	488
				ALVIN REEVES, JR. AND PAM L. REEVES	DEVON INVESTORS LTD	ASSIGNMENT	148	519
			1	B. W. HAMMERT III AND LOIS M. HAMMERT, HIS WIFE	CONTINENTAL PETROLEUM COMPANY	ASSIGNMENT	147	258
				DISTRICT OF OKLAHOMA	LOCATOR'S OIL & GAS INC	ASSIGNMENT	157	628
			1	DEVON ENERGY CORPORATION (DELAWARE)	DEVON ENERGY CORPORATION (NEVADA)	ASSIGNMENT	163	69
				GLENVILLE 1979	CPC CONSOLIDATED PROGRAM	ASSIGNMENT	166	622
				DEVON ENERGY CORPORATION (NEVADA)	ABARTA OIL & GAS CO INC	ASSIGNMENT	178	682
				ROBERT R. JONES	ROBERT R. JONES II	ASSIGNMENT	179	383
		I .		CONTINENTAL PETROLEUM, AND ROBERT R. JONES	ABARTA OIL & GAS CO INC	ASSIGNMENT	180	7
		1		J. FRANK & PHILLIS PARMER	ABARTA OIL & GAS CO INC	ASSIGNMENT	180	168
				GWEN G. ROBERSON REINARZ	ABARTA OIL & GAS CO INC	ASSIGNMENT	180	191
		-	1	MERIDIAN EXPLORATION CORP AND ALLEGHENY INTERESTS INC	ABARTA OIL & GAS CO INC	ASSIGNMENT	184	434
				AND ROBERT R. JONES D/B/A CONTINENTAL PETROLEUM COMPANY	CONTINENTAL PETROLEUM LLC	ASSIGNMENT	191	128
			1	ABARTA OIL & GAS CO INC	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	261	463
			1	MARY JO BRUGGERMAN	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	271	568
				CLARA ANN MORAN	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	271	572
				1979	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	275	83
		1		ANTERO RESOURCES APPALACHIAN CORPORATION	ANTERO RESOURCES CORPORATION	MERGER/NAME CHANGE	WVSOS	
				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	795	485
				LOCATOR'S OIL AND GAS, INC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	794	808
				H.J. DROPPLEMAN	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	93	151
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
		1		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
	1			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		1		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY INC	NOT LESS THAN 1/8	692	570
/		Sec. Hassistan spread and a wrong terror programmen		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
23	FK108088	p/o 02-0006-0011-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	170
		m		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
	1	En .		DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF	WVSOS	
		l row	A Si	a a delivery free ov Franchick Cont. INC	LIC ENERGY II ARRAI ACHIA LLC	FARMOUT AGREEMENT	723	499
	1	0 77	AUG	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF	/23	499
		len	1、 3.00	DOMINION ENERGY TRANSMISSION INC	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
		ta ar	CEN FOIL	DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
		WV Departmen vironmental Prot	Office of Oil and AUG 26 20	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746
		O n		DOMINION EACHOT THATOMISSION, INC.				
		t of ection	Gas 124	STELLA SEVERIN, A WIDOW; AND ARDEN J. ASHCRAFT, A SINGLE MAN	DONALD S. GARVIN	NOT LESS THAN 1/8	93	344
	1	. 0	(2)	STEEL SETEMAN, A TIDOTI, AND PROBLETS TO THE TANKE		ASSIGNMENT		723

	1	1	1		_		
24	02-0006-0010-0000 02-0006-0010-0001 THRU 02-0006-0010-0006 (DODDRIDGE)		JOHN R. WARREN TOM G. YARBRO CHARLES PURCELL, JR STAN LITTLETON H. L. HODGES CLAUDE BARTON, JOHN CHIAF, JOE H. CUNNINGHAM, JR; DEVONSHIRE INVESTMENT CO., J. D. HODGES, N. R. LITTLETON, COLONEL H. NELSON, PETER G. PIERCE, H. E. RAINBOLT, HARRY SCHNITTGER, ROMAYNE WARREN, H. SETH WOOD CLAUDE BARTON, JOHN CHIAF, JOE H. CUNNINGHAM, JR; DEVONSHIRE INVESTMENT CO., J. D. HODGES, N. R. LITTLETON, COLONEL H. NELSON, PETER G. PIERCE, VIRGINIA PIERCE, H. E. RAINBOLT, HARRY SCHNITTGER, H. SETH WOOD JOHN R. WARREN, DBA WARREN DRILLING COMPANY ROCKWELL PETROLEUM COMPANY ROCKWELL PETROLEUM COMPANY ROCKWELL PETROLEUM COMPANY ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM COMPANY CARSON PETROLEUM COMPANY CARSON PETROLEUM COMPANY COKWELL PETROLEUM COMPANY ROCKWELL PETROLEUM COMPANY CORPORATION (NEVADA) ROBERT R. JONES, INDIVIDUALLY, JUDITH L. JONES, INDIVIDUALLY, AND ROBERT R. JONES D/B/A CONTINENTAL PETROLEUM COMPANY ROCKWELL PETROLEUM COMPANY; ROCKWELL PETROLEUM CORPORATION; ROCKWELL RESOURCES, LLC; MACKR. WORL; MARCIE WORL KIRCHBERG; AND RICHARD CRAIG WORL, AND THEIR AFFILIATES AND COMPANIES CONTINENTAL PETROLEUM, AND ROBERT R. JONES ROCKWELL RESOURCES LLC ANTERO RESOURCES APPALACHIAN CORPORATION	CLAUDE BARTON, JOHN CHIAF, JOE H. CUNNINGHAM, JR.; DEVONSHIRE INVESTMENT CO., H. L. HODGES, J. D. HODGES, STAN LITTLETON, COLONEL H. NELSON, PETER G. PIERCE, VIRGINIA PIERCE, CHARLES PURCELL, JR.; H. E. RAINBOLT, HARRY SCHNITTGER, H. SETH WOOD, TOM G. YARBRO JOHN R. WARREN, DBA, WARREN DRILLING COMPANY JOHN R. WARREN, DBA, WARREN DRILLING COMPANY N.R. LITTLETON JOHN R. WARREN JOHN R. WARREN JOHN R. WARREN JOHN R. WARREN DBA, WARREN DRILLING COMPANY CPC 78-E CPC 78-E ROBERT R. JONES MACK R. WORL DEVON ENERGY CORPORATION ROBERT R. JONES CONTINENTAL PETROLEUM LLC ROBERT R. JONES ANTERO RESOURCES APPALACHIAN CORPORATION ANTERO RESOURCES APPALACHIAN CORPORATION ANTERO RESOURCES CORPORATION	ASSIGNMENT ASSIGNMENT ASSIGNMENT ASSIGNMENT ASSIGNMENT ASSIGNMENT ASSIGNMENT	94 99 99 100 104 104 104 107 107 127 129 126 179 191	501 95 287 248 253 265 265 270 254 697 698 224 636 434 373 128
			ANTERO RESOURCES CORPORATION	HG ENERGY II APPALACHIA, LLC	PARTIAL ASSIGNMENT	531	124
			GEORGE J. DETERMAN AND JOSEPHINE F. DETERMAN, HIS WIFE	W.B. BERRY	NOT LESS THAN 1/8	105	309
			W.B. BERRY	J & J ENTERPRISES INC	ASSIGNMENT	112	245
			J & J ENTERPRISES INC	BENSON DRILLING JOINT VENTURE NO. 3	JOINT VENTURE AND ASSIGNMENT	112	251
		1	J & J ENTERPRISES INC	EASTERN AMERICAN ENERGY CORPORATION	CONFIRMATORY DEED	159	139
		1	BENSON DRILLING ASSOCIATES NO. 3	EASTERN AMERICAN ENERGY CORPORATION	ASSIGNMENT	166	499
		1	BENSON DRILLING JOINT VENTURE NO. 3	EASTERN AMERICAN ENERGY CORPORATION	ASSIGNMENT	167	288
		1	BENSON DRILLING JOINT VENTURE NO. 3	EASTERN AMERICAN ENERGY CORPORATION	ASSIGNMENT	167	292
		1	EASTERN AMERICAN ENERGY CORPORATION	ENERGY CORPORATION OF AMERICA	MERGER/NAME CHANGE	240	498
/22	02 0005 0004 0005	10000	ENERGY CORPORATION OF AMERICA	EASTERN ENERGY CORPORATION OF AMERICA	CONFIRMATORY DEED	240	498
32	02-0006-0004-0000	9	EASTERN AMERICAN ENERGY CORPORATION	ENERGY CORPORATION OF AMERICA	MERGER/NAME CHANGE	283	431
		\$ × C	ENERGY CORPORATION OF AMERICA	ANTERO RESOURCESAPPALACHIAN CORPORATION	ASSIGNMENT	272	307
		AUG WV De Wironme	ANTERO RESOURCES APPALACHIAN CORPORATION	ANTERO RESOURCES CORPORATION	MERGER/NAME CHANGE		
1	80	D G	THE TEST RESOURCES ALL ALACHIAN CORPORATION	SHAMPER AND THE TOTAL CONTROL OF THE SHAMPER AND THE STATE OF THE SHAMPER AND	IVIERGER/INAIVIE CHANGE	46	523
		%	ENERGY CORPORATION OF AMERICA	ANTERO RESOURCES CORPORATION FKA ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	328	648
		10 mm				529	0.10
		and 20 nent Prot	Susan Tamminga	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	535	136
					ASSIGNMENT	353	136
		Gas C4 of	ANTERO RESOURCES CORPORATION	HG ENERGY II APPALACHIA, LLC	PARTIAL ASSIGNMENT	531	136



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 57th Street Charleston, WV 25304

RE:

Drilling Under Roads - Van Wie 1221 N-4H

Freemans Creek District, Lewis County

West Virginia

Dear Mr. Blevins:

HG Energy II Appalachia, LLC, is submitting the attached application for a new well work permit for the 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 dwhite@hgenergyllc.com or 304-420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

RECEIVED
Office of Oil and Gas

AUG 26 2024

WW-PN (11-18-2015)

Horizontal Natural Gas Well Work Permit Application Notice By Publication

Notice is hereby given:

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

Paper: The Weston Democrat 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-4H Address: 5260 Dupont Road Parkersburg, WV 26101 Business Conducted: Natural gas production. Location -West Virginia State: Lewis County: Freemans Creek District: Quadrangle: Vadis 7.5' UTM Coordinate NAD83 Northing: 4327362.9 UTM coordinate NAD83 Easting: 528679.0 Watershed: Fink Creek

Coordinate Conversion:

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

Electronic notification:

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

Reviewing Applications:

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

AUG 26 2024

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

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

Date of Notic	ce Certification: 06/05/2023	AI	PI No. 47-	. 1. 1
		Op	erator's Well No.	/an Wie 1221 N-4H
		W	ell Pad Name: Van	Wie
Notice has l				
Pursuant to th	ne provisions in West Virginia Code	§ 22-6A, the Operator has provide	ed the required partie	es with the Notice Forms listed
below for the	tract of land as follows:			
State:	West Virginia		sting: 528679.0	
County:	Lewis	No	orthing: 4327362.9	
District:	Freemans Creek	Public Road Access:		Straight Run Road
Quadrangle:	Vadis WV 7.5's	Generally used farm	name: Van Wie	
Watershed:	Fink Creek			
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and seed the owners of the surface described and seed the owners of the surface described and (c), so surface owner notice of entry to surface owner notice of entry to surface owner notice of subsection (b), section sixteen on the seed of \$22-6A-11(b), the applicant shall the three been completed by the applicant	hall contain the following informa- bed in subdivisions (1), (2) and ection sixteen of this article; (ii) the arvey pursuant to subsection (a), if this article were waived in wri- ender proof of and certify to the s	ation: (14) A certific (4), subsection (b), at the requirement v section ten of this a ting by the surface	sation from the operator that (i) section ten of this article, the was deemed satisfied as a resultanticle six-a; or (iii) the notice owner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY	perator has attached proof to this I d parties with the following:	Notice Certification	OOG OFFICE USE ONLY
☐ 1. NOT	CICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED SEISMIC ACTIVITY WAS CO		☐ RECEIVED/ NOT REQUIRED
■ 2. NOT	TICE OF ENTRY FOR PLAT SURV	YEY or NO PLAT SURVEY	WAS CONDUCTED	P RECEIVED
■ 3. NOT	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLA WAS CONDUCTED or		☐ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY S (PLEASE ATTACH)	SURFACE OWNER	
■ 4. NOT	TICE OF PLANNED OPERATION		RECEIVED	☐ RECEIVED
5. PUB	LIC NOTICE		Office of Oil and Ga	L RECEIVED
■ 6. NOT	TICE OF APPLICATION		AUG 26 2024	│
			WV Department of	

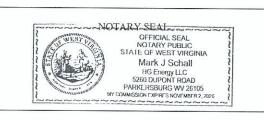
Required Attachments:

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

Certification of Notice is hereby given:

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

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



Subscribed and sworp before me this 5th day of June, 2024 ... Notary Public

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.

My Commission Expires

RECEIVED
Office of Oil and Gas

AUG 26 2024

WW-6A (9-13) 4704105763

API NO. 47-OPERATOR WELL NO. Van Wie 1221 N'1H 10 S12H 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 PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK 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 Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to Impoundment or pit as described in section fine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-57.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. □ Application Notice □ WSSP Notice □ E&S Plan Notice □ Well Plat Notice is hereby provided to:

** HG Energy II Appelachia is not being noticed as they are the operator of the □ SURFACE OWNER(s) well peak. □ COAL OWNER OR LESSEE ☐ COAL OWNER OR LESSEE HG Energy II Appalachia, LLC ** Name: NA Address: 5260 Dupont Road Address: Parkersburg, WV 26101 Anthony and Dawn Van Wi COAL OPERATOR Address: 2700 Jones Road Name: NA Dunkirk MD 20754 Address: SURFACE OWNER(s) (Road and/or Other Disturbance) ☐ SURFACE OWNER OF WATER WELL Address: AND/OR WATER PURVEYOR(s) Name: Name: Address: Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD SURFACE OWNER(s) (Impoundments or Pits) BHE GT&S - Attn: Jamie Moore Name: Address: 925 White Oaks Blvd Address: Bridgeport, WV 26330 *Please attach additional forms if necessary

> RECEIVED Office of Oil and Gas

AUG 26 2024

WW-6A (8-13) API NO. 47-__-OPERATOR WELL NO. Van Wie 1221 N1H ib \$12H
Well Pad Name: Van Wie 1221

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The dis

RECEIVED
Office of Oil and Gas

AUG 26 2024

WW-6A (8-13)

API NO. 47-OPERATOR WELL NO. Van Wie 1221 N1H to S12H Well Pad Name: Van Wie 1221

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

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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.

> RECEIVED Office of Oil and Gas

AUG 26 2024

4704105763

WW-6A (8-13)

API NO. 47 OPERATOR WELL NO. Von Wie 1221 NIH to \$124 Well Pad Name: Van Wie 1221

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

(1) The proposed well work will constitute a hazard to the safety of persons;

(2) The plan for soil erosion and sediment control is not adequate or effective;
(3) Damage would occur to publicly owned lands or resources; or

(4) The proposed well work fails to protect fresh water sources or supplies.

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

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

RECEIVED
Office of Oil and Gas

AUG 26 2024

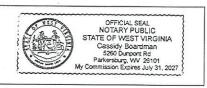
WW-6A (8-13)

API NO. 47-	-	
OPERATOR W	ELL NO.	Van Wie 1221 N1H to S12H
Well Pad Name	Van Wie 12	221

*	
Notice is hereby given by:	
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

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me th	is _11th _ day of _Decomber	,2023
(and	Roadm	Notary Public
My Commission Expires 7 31	2027	

RECEIVED Office of Oil and Gas

AUG 26 2024

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

Notice Time Requirement: Notice shall be provided at least SE entry Date of Notice: January 5, 2024 Date of Planned Entry: January 5, 2024	8, 33, 33, 33, 33, 33, 33, 33, 33, 33, 3
Delivery method pursuant to West Virginia Code § 22-6A-10a	a
☐ PERSONAL ☐ REGISTERED ☐ METHO	DD 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 subeneath 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, include the surface owner to obtain copies from the secretary.	ent to HG Energy II. Appalachia LLC as they
Notice is hereby provided to: * Notice Was not see are the Operation	or of Record
SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: Anthony and Dawn Van Wie	Name: N/A
Address: 2700 Jones Road	Address:
Dunkirk, MD 20754	
Name: HG Energy II Appalachia, LLC *	
Address: 5260 Dupont Road	■ MINERAL OWNER(s)
Parkersburg, WV 26101	Name: Same as Surface Owners
Name:	Address:
Address:	
	*please attach additional forms if necessary
a plat survey on the tract of land as follows: State: West Virginia A County: Lewis Pt	given that the undersigned well operator is planning entry to conduct pprox. Latitude & Longitude: 29.034844 / 80.558480 CR11 / 3 vin Straight Run Road
District: Freemans Creek W	Vatershed: Fink Creek
Quadrangle: Vadis G	enerally used farm name: Van Wie
may be obtained from the Secretary, at the WV Department of Er Charleston, WV 25304 (304-926-0450). Copies of such docume obtained from the Secretary by visiting www.dep.wv.gov/oil-and Notice is hereby given by: Well Operator: HG Appelachia, LLC	Address: 5260 Dupont Rad
Telephone: 304-420-1119	Parkersburg, WV 26101
Email: dwhite@hgenergylla.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 depprivacyofficer@wv.gov.

RECEIVED
Office of Oil and Gas

AUG 26 2024

WW-6A4 (1/12)

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

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

Notice Time Date of Notice	Requirement: Notice shall be provided at least ce: 01/05/2024 Date Permit A	t TEN (10) days p Application Filed	rior to filing a	a permit application.
Delivery met	hod pursuant to West Virginia Code § 22-6A	-16(b)		
☐ HAND DELIVE	CERTIFIED MAIL RETURN RECEIPT REQUES	TED		
drilling a hori of this subsec subsection ma	V. Va. Code § 22-6A-16(b), at least ten days pristed or hand delivery, give the surface owner notizental well: <i>Provided</i> , That notice given pursition as of the date the notice was provided to the day be waived in writing by the surface owner. The facsimile number and electronic mail address	or to filing a perm tice of its intent to ant to subsection e surface owner:	o enter upon to (a), section to Provided, howing ired, shall incomes	the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number
	reby provided to the SURFACE OWNE	R(s):		
	Energy II Appalachia, LLC *	Name:	Anthony and Da	wn Van Wie
	0 Dupont Road	Address: _	2700 Jones Road	
Par	kersburg, WV 26101	-	Dunkirk, MD 207	54
State: County:	Vest Virginia Code § 22-6A-16(b), notice is her wher's land for the purpose of drilling a horizont West Virginia Lewis	reby given that the tal well on the trac UTM NAD 83	e undersigned et of land as fo Easting: Northing:	well operator has an intent to enter upon ollows: 528668.6 4327353.9
District:	Freemans Creek	Public Road Ace	cess:	CR11 / 3 via Straight Run Road
Quadrangle:	Vadis WV 7.5'	Generally used	farm name:	Van Wie
Watershed:	Fink Creek			
Pursuant to V facsimile num related to horizontal	Shall Include: Vest Virginia Code § 22-6A-16(b), this notice the and electronic mail address of the operate izontal drilling may be obtained from the Secres 57 th Street, SE, Charleston, WV 25304 (304-9)	or and the operate etary, at the WV	or's authoriz Department o	ed representative. Additional information
	reby given by:			
Well Operator		Authorized Re	epresentative:	
Address:	5260 Dupont Road	Address:		5260 Dupont Road Office of Civil
	Parkersburg, WV 26101	77.	H. III	Parkersburg, WV 26101 Parkersburg, WV 26101
Telephone:	304-420-1119	Telephone:		304-420-1119 AUG 26 2024
Email:	dwhite@hgenergyllc.com Diane White	Email:		dwinte(winderleid/lic.com
Facsimile:	304-863-3172	Facsimile:		304-863-3172 WV Department of
Oil and Gas	Privacy Notice:			Source Separtment of Environmental Protection

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.

4704105763 Operator Well No. van Wie 1221 N-1H to 8-12H

WW-6A5 (1/12)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS $\frac{\text{NOTICE OF PLANNED OPERATION}}{\text{NOTICE OF PLANNED OPERATION}}$

Notice Time Date of Notic	Requirement: notice shall be provided notice: 01/05/2024 Date Permit Ap	o later than the filing oplication Filed: 01/1		application.	
Delivery met	thod pursuant to West Virginia Code § 2	22-6A-16(c)			
	FIED MAIL RN RECEIPT REQUESTED	HAND DELIVERY			a
return receipt the planned of required to be drilling of a damages to the	W. Va. Code § 22-6A-16(c), no later than a requested or hand delivery, give the surface operation. The notice required by this subsection (b), section ten of horizontal well; and (3) A proposed surface surface affected by oil and gas operation es required by this section shall be given to	ace owner whose land absection shall include this article to a surf- ace use and compens as to the extent the date	I will be used for de: (1) A copy ace owner whos sation agreemen amages are comp	or the drilling of of this code sec e land will be us t containing an pensable under a	a horizontal well notice of ction; (2) The information sed in conjunction with the offer of compensation for article six-b of this chapter.
	reby provided to the SURFACE OWNER				
	ss listed in the records of the sheriff at the t Energy II Appalachia, LLC	Name:	Anthony and Dav	vn Van Wie	
Address: 526		Address			
OCCUPATION AND ADDRESS OF THE STATE OF THE S	kersburg, WV 26101		Dunkirk, MD 207	54	
operation on State: County: District: Quadrangle:	the surface owner's land for the purpose of West Virginia Lewis Freemans Creek Vadis WV 7.5'	UTM NAD 8	Easting: Northing:	ct of land as foll 528668.6 4327353.9 CR 11 / 3 via Straigh Van Wie	2 E - R
Watershed:	Fink Creek	_		***	tt.
Pursuant to V to be provide horizontal we surface affect information 1	Shall Include: Vest Virginia Code § 22-6A-16(c), this not ed by W. Va. Code § 22-6A-10(b) to a sell; and (3) A proposed surface use and cotted by oil and gas operations to the extended to horizontal drilling may be obtain located at 601 57th Street, SE, Charlefault.aspx.	surface owner whose mpensation agreeme at the damages are co- ined from the Secret	e land will be unt containing are compensable und cary, at the WV	offer of competer article six-b of Department of	tion with the drilling of a nsation for damages to the of this chapter. Additional Environmental Protection
Well Operato	Dr: HG Energy II Appalachia, LLC	Address:	5260 Dupont Road		RECEIVED Office of Oil and Gas
Telephone:	304-420-1119	17 - 50	Parkersburg, WV 26	101	2
Email:	dwhite@hgenergyllc.com Diane Wh	ite Facsimile:	304-863-3172		AUG 26 2024
Oil and Gas The Office of	Privacy Notice: f Oil and Gas processes your personal info	rmation, such as nam	ne, address and t	elephone numbe	WV Department

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



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

December 04, 2023

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

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-4H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit 07-2023-0352 which has been issued to HG Energy II Appalachia, LLC for access to the State Road for a well site located off Lewis County Route 11/3 SLS MP 2.941.

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

Very Truly Yours,

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

AUG 26 2024

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 CAS #'s
Pro Shale Slik 405	Mixture	68551-12-2
The chare officeros	Wilkture	7647-14-5
		12125-02-9
		64742-47-8
		04742470
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	D.A.;	14000 00 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	
	017.12.007	
BIO CLEAR 2000	Mixture	25322-68-3
		10222-01-2
SCALE CLEAR SI 112	107-21-1	
JOINEE GEEFINGSTILE	107-21-1	
PROBREAK 4	Mixture	57-50-1
	IVIIXCUTC	107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
The second secon		
		2687-96-9

RECEIVED Office of Oil and Gas

AUG 26 2024

OPERATOR:_	HG Energy II Appalachia, LL	WELL NO: Van Wie 1221 N-4H	
PAD NAME:_	Van Wie 1221		
REVIEWED B	Y: Diane White	SIGNATURE:	Diane White

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Res	trictions	
	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	to any
	DEP Waiver and Permit Conditions	
\checkmark	At Least 250 Feet from an Existing Water Well or Developed Spring to Well I 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 _{Office} of Oil and Gas
	Surface Owner Waiver and Recorded with County Clerk, OR	AUG 26 2024
	DEP Variance and Permit Conditions	WV Department of Environmental Protection
\checkmark	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet t of the Pad; OR	
	Surface Owner Waiver and Recorded with County Clerk, OR	
	DEP Variance and Permit Conditions	

