

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-2H 47-041-05761-00-00

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-2H

Farm Name: HG ENERGY II APPALACHIA

U.S. WELL NUMBER: 47-041-05761-00-00

Horizontal 6A New Drill

Date Issued: 9/30/2024

API Number: 47-041-05761

PERMIT CONDITIONS

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

CONDITIONS

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

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

1) Well Operator: HG Energy	II Appalachia, 📙 4945	19932 Lewis	Freeman Vadis 7.5'
	Oper	ator ID County	District Quadrangle
2) Operator's Well Number: Val	n Wie 1221 N-2H	Well Pad Name: V	an 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-constr	ruction: 1251.7'
5) Well Type (a) Gas x	Oil	Underground St	torage
Other			
(b)If Gas Shal	llow x	Deep	
Hori	izontal X		
6) Existing Pad: Yes or No No		5	
7) Proposed Target Formation(s)	, Depth(s), Anticipated 7	Thickness and Expecte	ed Pressure(s):
Marcellus at 7002' / 7049' and 4	17' in thickness. Anticipat	ed pressure at 4314#.	
8) Proposed Total Vertical Depth	n: 7,035'		
9) Formation at Total Vertical De	epth: Marcellus		
10) Proposed Total Measured De	epth: 19,175'		
11) Proposed Horizontal Leg Ler	ngth: 11,717'	· · · · · · · · · · · · · · · · · · ·	
12) Approximate Fresh Water Str	rata Depths: 150', 1	181', 826'	
13) Method to Determine Fresh V	Water Depths: Nearest	offset well data, (47	-017-02906, 2480, 4233,)
14) Approximate Saltwater Deptl			
15) Approximate Coal Seam Dep	oths: 220' - 225', 428'-438', 49	5'-501' (Surface casing is be	ing extended to cover the coal in the DTI Field)
16) Approximate Depth to Possib	ole Void (coal mine, kars	t, other): None	
17) Does Proposed well location			N. V
directly overlying or adjacent to a	an active mine? You	es	No X
(a) If Yes, provide Mine Info:	Name:		RECEIVED
	Depth:		once of Oil and Gas
	Seam:		AUG 26 2024
	Owner:		WV Department of Environmental Protection
			- IUIECTION

API NO. 47-04 105761

OPERATOR WELL NO. Van Wie 1221 N-2H
Well Pad Name: Van Wie 1221

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120'	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	5700'	5700'	40% Excess Tail, CTS
Production	5 1/2"	NEW	P-110 HP	23	19175'	19175' /	20% Excess Tail, CTS
Tubing							
Liners							

Kenneth Greynolds Chief Care (Armeth Greynolds and Expended Spin Care (Armeth Greynolds and Expended Spin Care (Armeth Greynolds) (Armeth Greynold

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	26"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate 1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Load 40% excess, Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	5750		Type 1/Class A	Load 40% excess, Tall 0% Excess ca
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% excess yield = 1.19, tail yield 1.04.0
Tubing							#
Liners							

PACKERS

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AUG 26 2024
WV Department of Environmental Protection

WW-6B (10/14)

4704105761

API NO. 47-

OPERATOR WELL NO. Van Wie 1221 N-2H 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 11,717' lateral length, 19,175' 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.

Freshwater/Coal - centralized every 3 joints to surfa

ntermediate 1 - Bow Spring on every joint, will also be running ACP for isolating storag

diate 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% Exe

Intermediate 1 - **** Storage String *** CTS ****15.4 ppg Lead - Yield 1.24 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)B348 - 0.5% BWOB Fluid Loss / D013 – 0.75% BWOB Retarder / D47 – 0.02 gal / sack VBWOB And Foam / D020 – 0.15% BWOB And Foam / D020 – 0.15% BWOB And Foam / D020 – 0.03 gal / sack Retarder / D47 – 0.39% BWOB GaBL, OK */ D013 – 0.3% BWOB Retarder / D047 – 0.02 gal / sack NBWOB And Foam / D020 – 0.03 gal / sack Retarder / D047 – 0.39% BWOB GaBL, OK */ D013 – 0.3% BWOB Retarder / D047 – 0.02 gal / sack NBWOB And Foam / D020 – 0.15% BWOB Cash | D020 – 0.15

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

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

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD.

Fresh Water/Coal - Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to nume ntermediate 1 - Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cer

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

ction - 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 or

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WV Department of **Environmental Protection**

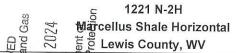
*Note: Attach additional sheets as needed.

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

Material Name	Material Type	Material Description	CAS#		
		Premium NE-1 is a	Ingredient name	%	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide	1 - 5	1305-78-8
200000000000000000000000000000000000000	1000 PM 10000	strength properties.	Magnesium oxide Crystalline silica: Quartz (SiO2)	1 - 5	1309-48-4
Premium NE-1	Portland Cement		Grystamine Sinca. Quartz (SIOZ)	0.1 - 1	14808-60-7
		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.		170000	
Bentonite	Extender				
		A powdered, flaked or			
		pelletized material used	Ingredient name	%	CAS number
		to decrease thickening	Calcium chloride	90 - 100	10043-52-4
		time and increase the rate			
		of strength development			
Calcium Chloride	Accelerator				
		Graded (3/8 to 3/4 inch)			
		cellophane flakes used as	Ingredient name	%	CAS number
		a lost circulation material.	No hazardous ingredient		
Cello Flake	Lost Circulation				
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in			
		cementing operations. It			
		is very effective	Ingredient name	%	CAS number
		minimizing air	Tributyl phosphate	90 - 100	126-73-8
		entrapment and			
		preventing foaming tendencies of latex			
		systems.			
FP-13L	Foam Preventer	systems.			
	1 Guill Heventer				
			Ingredient name	%	CAS number
Consulated Course	2	Used to retard cement	Sucrose	90 - 100	57-50-1
Granulated Sugar	Retarder	returns at surface.			
		A proprietary product that			
		provides expansive			
		properties and improves bonding at low to			
		moderate	Ingredient name	%	CAS number
		temperatures.	Calcium magnesium oxide	90 - 100	37247-91-9
EC-1		temperatures.			
		Multi-purpose polymer			
		additive used to control			
		free fluid, fluid loss,	Ingredient name	%	CAS number
		rheology, and gas	No hazardous ingredient		
MPA-170	Gas Migration	migration.			RECEIVED fice of Oil and Gas
				Of	fice of Oil and Gas
		A synthetic pozzolan,			*139
		(primarily Silicon Dioxide).		/	116 96 2000
		When blended with cement, Pozzolan can be		F	UG 26 2024
		used to create	Ingredient name	n.	Tara i
		lightweight cement	Crystalline silica: Quartz (SiO2)		V Department of
		slurries used as either a	Calcium oxide	1-5 Enviro	V Departmentrof
		filler slurry or a sulfate			TOTACHON
		resistant completion			
		cement.			
Poz (Fly Ash)	Base				
		A low temperature			
		retarder used in a wide	Ingredient name	%	CAS number
		range of slurry	Organic acid salt	40 - 50	Trade secret.
		formulations to extend		40 - 50	Trade Secret.
D 2		the slurry thickening time.			
R-3	Retarder				
			Ingredient name	%	CAS number
			2-Butoxyethanol Proprietary surfactant	20 - 30	111-76-2
		Used to water wet	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	10 - 20 5 - 10	Trade secret. 110615-47-9
		Used to water wet casing and formation to facilitate	Alkylarylsulfonate amine salt	1-5	Trade secret.
S-5	Surfactant	cement bonding.	Polyoxyalkylenes	0.1 - 1	Trade secret.
action (N	Januarunt	comenc bonding.			

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
bjpersant / 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)
bj 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-2H SH	C GEV	Lewis Co	4197336.67N 17344	84.91E												
Ground Elevat	tion		1251.7			1221	N-2H LF	9 E E		4197628.28N 17340	97.58E												
Azm			340.82	3°		1221 I	N-2H BH	7 Jilio AU		4208671.33N 17302	03.04E												
WELLBORE DIAGRA	AM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS												
<	×	30"	30" 157.5# LS	Conductor	0	120	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5" wal thickness												
	×	26"	20" 94# J-55	Coal Fresh Water	740	746	AIR	15.6 ppg PNE-1 + 3% bwoc CaCl 40% Excess Yield=1.20 / CTS	Centralized every 3 joints to surface	Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to	Surface casing = 0.438" wal thickness Burst=2110 psi												
X	X			Protection		1225		\$0000000 \$0000000 \$0000000		pumping cement.													
				Little Lime	2167	2187	NB (160)	See above (LEFT) for	Bow Spring on every	Once casing is at setting depth, Circulate and													
$ \mathbf{x} $	×	17.5"	13-3/8" 68# J-55 BTC	Big Lime Injun / Gantz (Storage)	2216	2265	AIR / KCL - Salt	Storage String Cement Blend to Meet DTI	joint *will also be running	condition at TD. Circulate a	Intermediate casing = 0.480 wall thickness												
			0.00 810	Intermediate 1	2265 / 2597	2361 / 2647	Polymer	Requirements for Gas Storage Field Isolation	ACP for isolating	minimum of one hole volume prior to pumping	Burst=3450 psi												
					0	2760		Storage Field Isolation	storage zone*	cement.													
		10	E .	Thirty Foot Gordon	2789 2837	2799 2915	-				Intermediate casing = 0.395" wall thickness Burst=5750 psi												
				5th Sand	3066	3102	-																
x	x			Bayard	3161	3174		Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl	Bow Spring on first 2	Once casing is at setting depth, Circulate and													
		12.25"	9-5/8" 40# N / L-80 BTC	Speechley	3634	3666	AIR / KCL - Salt	40% Excess / Tail: 15.9	joints then every third	condition mud at TD.													
			1172 00 210	Benson	5038	5072	Polymer	ppg PNE-1 + 2.5% bwoc CaCl	joint to 100' form surface	Circulate a minimum of one hole volume prior to													
				Alexander	5324	5444		zero% Excess. CTS		pumping cement.													
				Intermediate 2	0	TVD; 5675' MD: 5700' Inc: 5 dea.	/																
X X	9.75	8.75"	8.75"					AIR /		Run 1 spiral centralizer every 5 joints from the top of the curve to surface.													
				-				9.0ppg SOBM	<u>Lead</u> : 14.5 ppg POZ:PNE-1 + 0.3%														
				Rhinestreet	6303	6591		bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L	casing, allowable	Once on bottom/TD with													
			5 4 (0)1	Cashaqua	6591	6736		+ 0.3% bwoc MPA170						+	iil: 14.8 ppg PNE-1 + 35% bwoc R3 + 0.75 gal/sk FP13L + 50%							casing, circulate at max	Production casing = 0.415"
X X		50.5000000	5-1/2" 23#	Middlesex	6736	6815	11.5ppg-	0.35% bwoc R3 + 0.75										allowable pump rate for at least 2x bottoms up, or until	wall thickness				
		8.5" Curve	P-110 HP TXP / W461	West River	6815	6884	12.5ppg	bwoc ASCA1 + 0.5%	bwoc ASCA1 + 0.5% bwoc MPA170	bwoc MPA170	.5ppg gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170					returns and pump pressures indicate the hole is clean.	Burst=16240 psi Note:Actual centralizer						
			TAP / W401	Burkett	6884	6925		SOBM				Run 1 spiral centralizer every 3 joints from the	Circulate a minimum of one	schedules may be changed									
				Tully Limestone	6925	6952		20% Excess Lead Yield=1.19	1st 5.5" long joint to the	hole volume prior to pumping cement.	due to hole conditions												
	_			Hamilton	6952	7002		Tail Yield=1.94	top of the curve.	partipling certicits.													
			-	Marcellus TMD / TVD	7002	7049	11.5ppg-	CTS															
		8.5" Lateral	L	(Production)	19175	7035	12.5ppg SOBM																
× ×L				Onondaga	7049		SOBIM			73													
			X	×	X		X	Χ	X	X	Χ												
	LP @ 7035' 1 ME)			8.5" Hole - Cemente 5-1/2" 23# P-110 HP	TXP / W461			+/-1171 X	7' ft Lateral	TD @ +/-7035' TVD +/-19175' MD												

WW-9 (4/16)

API Number 47 - ___ - _ Operator's Well No. Van Wie 1221 N-2H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

FLUIDS/ CUTTINGS DISPUSAL & RECLAMAT	ION PLAN
Operator Name HG Energy II Appalachia, LLC OF	Code 494501907
Watershed (HUC 10) Fink Creek Quadrangle Vadi	s 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well w	vork? Yes ✓ No
Will a pit be used? Yes No✓	
If so, please describe anticipated pit waste: NA	
Will a synthetic liner be used in the pit? Yes No If so, w	hat 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 s	ystem, re-used or hauled to an approved disposal site or landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil	
-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 La	andfill
-If left in pit and plan to solidify what medium will be used? (cement, lime, sa	uwdust)_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 construction. West Virginia solid waste facility. The notice shall be provided within 24 hours of reject where it was properly disposed.	uttings or associated waste rejected at any tion and the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENEI on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of En provisions of the permit are enforceable by law. Violations of any term or condition law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am fam application form and all attachments thereto and that, based on my inquiry of the obtaining the information, I believe that the information is true, accurate, and compensatives for submitting false information, including the possibility of fine or imprisonment.	vironmental Protection. I understand that the of the general permit and/or other applicable williar with the information submitted on this pase individuals immediately responsible for plete. I am aware that there are significant
Company Official (Typed Name) Diane White	State of the state
(Typed Limite)	AUG 26 2024
Company Official Title Agent	WV Department of Environmental Protection
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 Notary Public Notary Public State OF West VIRGINIA Mark J Schall Hig Energy LLC Szeb Duppont Road PARKLESBURG WV 26105 MY COMMISSION TYPES NOWTMERR 2, 2000

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) 8297 US Highway 19 Cochranton, PA 16914 814-425-7778

Disposal Locations:

Apex Environnemental, LLC Permit # 06-08438 11 County Road 78 Amsterdam, OH 43903 740-543-4389

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 304-662-2611

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

Max Environnemental Technologies, Inc. Facility Permit # PAD05087072 / 301359 200 Max 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

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

Brooke County Landfill Permit # SWF-103-87 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 304-748-0014 RECEIVED
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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 304-455-3800

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

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

Northern A-1 Environmemental Services Permit ID MID020906814 3947 US 131 North, PO Box 1030 Kalkaska, Ml 49646 231-258-9961

Water Haul off Companies:

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

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

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

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masonitown, WV 26542

Mustang Oilfield 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 15301 724-225-1589

Solidification/Incineration Sail Remediation, Inc. Permit # 02-20753 6065 Arrel-Smith Road Lowelville, OH 44436 880-586-6825

Adams #1 (Buckeye Brine, LLC) Permit # 34-031-2-7177 23986 Airport Road Coshocton, OH 43812 740-575-4484 512-478-6545

CMS of Delaware Inc. DBA CMS Oilfield Serv 301 Commerce Drive Moorestown, NJ 08057

Force, Inc. 1380 Rte. 286 Hwy. E, Suite 203 Indiana, PA 15701

Salo Canstruction P.O. Box 544 St. Mary's, WV 26170

Equipment Transport 1 Tyler Court Carlisle, PA 17015

Myers Well Service, ____ 2001 Ballpark Court Export, PA 15632

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

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

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

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 43767 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 612-478-6545

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 6367 E. State Street Newcomerstown, OH 48832 740-763-3966

Goff SWD #1 (SWIW # 27) Permit # 84-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Corappolis, 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
304-665-2652

OH UIC #1 Bu keye UIC Barnesville 1 & 2 CNX Gas Con...;any, LLC 1000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 804-828-6568

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

- - 15 ---

Chapin #7 UIC (SWIW #7)
Permit # 84-083-2-4187-00-00
Elkhead Gas& Oil Company
12163 Marne Rd. NE
Newark, OH 48055
740-768-8966

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Form WW-9

HG Energy II Appa			
Proposed Revegetation Tre	atment: Acres Disturbed	51.82 Prevegetation I	Н
Lime	3 Tons/acre or to corre	ct to pH _ 6.5	
Fertilizer type1	0-20-20	Military and a second	
Fertilizer amount_	5	00 lbs/acre	
Mulch Hay	2	Tons/acre	
		Seed Mixtures	
T	emporary	Perm	anent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Attach: Maps(s) of road, location, pirovided). If water from the creage, of the land applicat	it and proposed area for land pit will be land applied, inc ion area.	ling and completion process I application (unless engineered plans included dimensions (L x W x D) of the pit, and	iding this info have been d dimensions (L x W), and are
Attach: Maps(s) of road, location, pirovided). If water from the creage, of the land applicat hotocopied section of invol	it and proposed area for land pit will be land applied, inc ion area. ved 7.5' topographic sheet.	d application (unless engineered plans inclu lude dimensions (L x W x D) of the pit, an	iding this info have been d dimensions (L x W), and are
Attach: Maps(s) of road, location, pirovided). If water from the creage, of the land applicat hotocopied section of involum Approved by: Ken	it and proposed area for land pit will be land applied, inc ion area. Ived 7.5' topographic sheet. Diskly speed neth Greynolds PACO = WD Chie Room with Chief Room with Chief 2024 Chief Room with Chief 2024 C	I application (unless engineered plans included dimensions (L x W x D) of the pit, and by Kennen Geynotics and a Kenneth L Greynolds@w gov C EP OU = O and Gase 8 1121 009-0400	d dimensions (L x W), and are
Attach: Maps(s) of road, location, pirovided). If water from the creage, of the land applicat chotocopied section of involutional lan Approved by: Comments: Pre-see	it and proposed area for land pit will be land applied, incident and applied, incident area. Ived 7.5' topographic sheet. The Greynolds Proposed area for land applied, incident applied, incident and applied, incident applied area.	I application (unless engineered plans included dimensions (L x W x D) of the pit, and by Kennen Greyrods and Exempth L Greyrolds (M count of the co	er regulation.
Attach: Maps(s) of road, location, pirovided). If water from the creage, of the land applicat hotocopied section of involunt Approved by: Pre-see	it and proposed area for land pit will be land applied, incident and applied, incident area. Ived 7.5' topographic sheet. The Greynolds Proposed area for land applied, incident applied, incident and applied, incident applied area.	I application (unless engineered plans included dimensions (L x W x D) of the pit, and by Kennen Geynotics and a Kenneth L Greynolds@w gov C EP OU = O and Gase 8 1121 009-0400	er regulation.
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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 office of Oil and Gas

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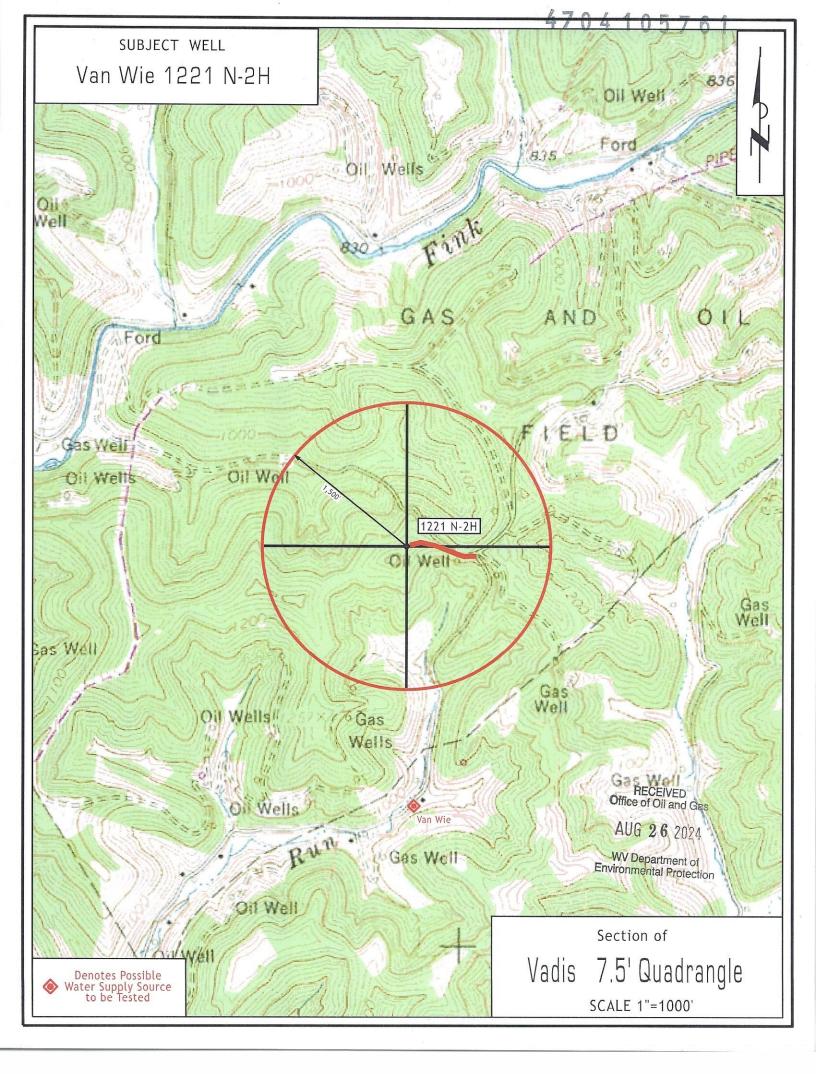
AUG 26 2024

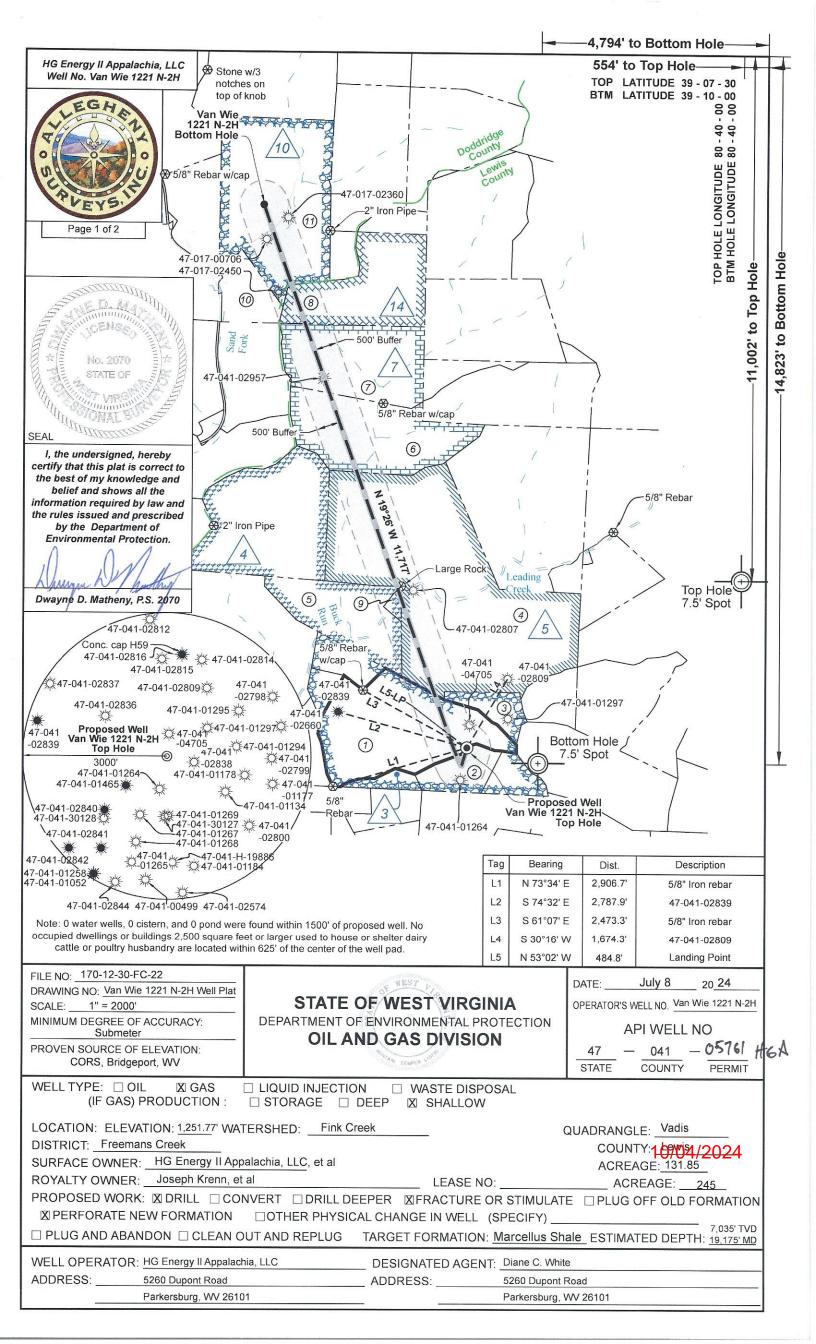
5260 Dupont Road

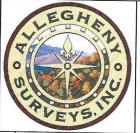
WV Department of **Environmental Protection**

Parkersburg, WV 26101

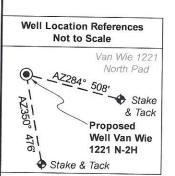
Kenneth Greynolds Solv. Cit - Kenneth Greynolds email - Kenneth L. Scieprolds Solv. Cit - Kenneth Greynolds email - Kenneth L. Scieprolds Solv. Cit - Kenneth Cit - Kennet



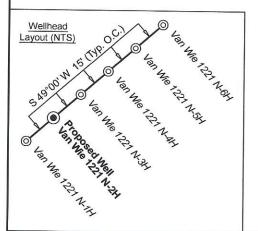




Page 2 of 2



		Legend
	•	Proposed gas well
	*	Well Reference, as noted
	\otimes	Monument, as noted
	禁	Existing Well, as noted
	**	Existing Plugged Well, as noted
	桊	Digitized Well, as noted
-		- Creek or Drain
		Existing Road
The other	in the same	Surface boundary (approx.)



FILE NO: _170-12-30-FC-22
DRAWING NO: Van Wie 1221 N-2H Well Plat
SCALE:1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter

PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

ID	Lease
3	Joseph Krenn, et ux
4	HG Energy II Appalachia, LLC
5	John Tierney
7	William E. Ruppert, et al
10	Fonce Brown & Rita Brown
14	HG Energy II Appalachia, LLC

		Lewis Co. (Freemans Creek Dist.)	1	
No.	TM / Par	Owner	Bk / Pq	Ac.
1	2D/3	HG Energy II Appalachia, LLC	800 / 637	131.85
2	2D / 29	Anthony S. & Dawn H. VanWie	732 / 622	26.63
3	2D / 3.1	HG Energy II Appalachia, LLC	800 / 637	20.00
4	2C/7	James R. & Shelia A. Gum, II	721 / 350	350.78
5	2D / 48	John M. Keely, et al	541 / 127	81.00
6	2C / 4	Susanne Seccurro	725 / 199	111.75
7	2C/3	Stephen Ruppert	666 / 428	102.46
8	2C/2	Clarence D. Brown	W4 / 572	96.50
9	2D/2	Calvin Stout	104 / 375	3.25
		Doddridge Co. (Cove Dist.)		0.20
No.	TM / Par	Owner	Bk / Pg	Ac.
10	10 / 12	John & Barbara Mayer	330 / 248	30.28
11	10 / 14	Clarence D. Brown	W20 / 306	180.00

West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.

Notes: Well No. Van Wie 1221 N-2H

Lon: 80°41'00.85"

Notes: Well No. Van Wie 1221 N-2H

WVCS 1927, North Zone UTM NAD 1983 (USSF) Top Hole Coordinates Top Hole Coordinates Lat: 39°05'41.21" Lon: 80°40'07.03" Landing Point Coordinates Lat: 39°05'44.11" Lon: 80°40'11.93" **Bottom Hole Coordinates** Lat: 39°07'33.44"

UTM Zone 17, NAD 1983

Plat orientation and corner and well references are based

upon the grid north meridian. Well location references are

based upon the magnetic meridian.

N: 14,197,336.67' E: 1,734,484.91' Landing Point Coordinates N: 14,197,628.28' E: 1,734,097.58' **Bottom Hole Coordinates** N: 14,208,671.33' E: 1,730,203.04'

Notes: Well No. Van Wie 1221 N-2H UTM NAD 1983 (Meters)

Top Hole Coordinates N: 4.327,356.872m E: 528,672.058m Landing Point Coordinates N: 4,327,445.755m E: 528,553.999m **Bottom Hole Coordinates** N: 4,330,811.683m E: 527,366.941m

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

WEST

OIL AND GAS DIVISION

DATE: _ July 8 20 24 OPERATOR'S WELL NO. Van Wie 1221 N-2H

API WELL NO

- 041 - **05761** 47 STATE COUNTY PERMIT

COUNTY:109094/2024

WELL TYPE: ☐ OIL	LIGOID II VOL	= " IN TO 12 DIGIT OOME
LOCATION: ELEVATION: 1,251	.77' WATERSHED: Fi	nk Creek

DISTRICT: Freemans Creek

SURFACE OWNER: HG Energy II Appalachia, LLC, et al

ROYALTY OWNER: __Joseph Krenn, et al PROPOSED WORK MIDRILL TOONVERT TRAIL DEEDER MI

ACREAGE: 131.85 ACREAGE: 245 LEASE NO:

QUADRANGLE: Vadis

NOT COLD WORK. MURILL LICON	VERI		XIFRACTURE	OR STIMULATE	☐ PLUG OFF OLD FO	RMATION
□ PERFORATE NEW FORMATION		ER PHYSICAL CHA	NGE IN WELL	(SPECIFY)		
				· /		7 0051 T) (D

WELL OPERATOR: HG Energy II Appalachi	ia, LLC	DESIGNATED AGENT	r Diane C. White			
☐ PLUG AND ABANDON ☐ CLEAN O	UT AND REPLUG	TARGET FORMATION:	Marcellus Shale	ESTIMATED	DEPTH:	7,035' TVD 19,175' MD
		CAL CHANGE IN WELL (

ADDRESS: 5260 Dupont Road _ ADDRESS: __ 5260 Dupont Road

Parkersburg, WV 26101 Parkersburg, WV 26101 #6A

Operator's Well No. Van Wie 1221 N-2H

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

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

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

Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See Attached Sheets

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WV Department of Environmental Protection

Co-Tenancy utilization - At least 75% of the royalty owners have consented to the lawful use or development of the natural gas mineral property on the tract. The interests of the remaining cotenants will be secured pursuant to the Co-Tenancy Act

Horizontal Well Unit Utilization - Subjet to unitilization filing with te WV Oil and Gas Conservation Commission

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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

Well Operator: HG Energy II Appalachia, LLC

By:

Diane White

Diane White

Its:

Agent

Page 1 of <u>4</u>

				HG Energy II Appalachia, LLC Van Nie 1221 N-2H Lease Chain	VED I and Gas 6 2024 timent of			
1221N Tract	LEGACY LEASE NUMBER	ТАХ МАР	LEASE NUMBER	GRANTOR/LESSOR	AUG 26 W Departmental Mental Market M	ROYALTY	DEED BOOK	PAGE
				JOSEPH KRENN AND EMILY E. KRENN, HIS WIFE	OUTH PENN OIL COMPANY	NOT LESS THAN 1/8	33	232
				WILLIAM A. LOUWTHER	SOUTH PENN OIL CONTRACT	NOT LESS THAN 1/8	42	401
				SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	ASSIGNMENT	156	570
32				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	WVSOS	
		00 0000 0000 0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9	628
		03-002D-0003-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
~	FK054825	03-002D-0003-0001		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
3	FK079440 FEE	03-002D-0003-0003 03-002D-0028-0000	Q100903000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY INC	NOT LESS THAN 1/8	692	570
1	FRU/9440 FEE	03-002D-0029-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
		03-002D-0029-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
		03-002D-0030-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
1				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746
4	FK054823 FEE FK079812 FEE	03-002C-0005-0000 03-002C-0048-0000 03-002D-0002-0000	FK054823 FEE FK079812 FEE	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746
				JOHN TIERNEY	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	39	29
				SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	ASSIGNMENT	156	570
				SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	166	494
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
1				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
5	FK082810	03-002C-0007-0000	Q100341000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
ā.	FK056828	00 0020 0007 0000	Q1005 / 1000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220

		03-002C-0003-0000		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, GIBERT 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, SONA RUPPERT, GUARDIAN FOR HERMAN J. MAYBURY; ANDREW B. MAYBURY, MARCELLA C. MAYBURY, JOSEPH A. MAYBURY, EDWARD C. MAYBURY AND MAY E. MAYBURY; MAYBURY, SUJARDIAN FOR MICHAEL RUPPERT, SINGLE; MAYBELLE RUPPERT, GUARDIAN FOR MICHAEL RUPPERT; C. O. DENNISON AND DAISY I. DENNISON, HIS WIFE	RECEIVE Office of Oil ar AUG 2.6 WW Departme	NOT LESS THAN 1/8	222	
17	FK064782	03-002C-0004-0000	Q100598000	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	223	
9	FK079376 FEE	p/o 03-002C- 0002-0000	Q100598000	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	294 425	
		p/o 03-002C-0007-00001		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE		
	1		1	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS WVSOS	
	I			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	
			11	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
				DOMINION TRANSMISSION, INC.	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	33
		1		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
				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	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	ţ
		I		DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	
					HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	
				FONCE BROWN AND RITA BROWN, BROTHER AND SISTER, BOTH SINGLE				
				FONCE BROWN, SINGLE, AND RITA B. BROWN, SINGLE	CAPITAL PETROLEUM	NOT LESS THAN 1/8	100	
				GLENN LOCKHART DBA CAPITAL PETROLEUM COMPANY	ROCKWELL PETROLEUM COMPANY	NOT LESS THAN 1/8	107	
1				FOSSIL PETROLEUM COMPANY	FOSSIL PETROLEUM COMPANY	ASSIGNMENT	100	
ļ				GLENN LOCKHART DBA CAPITAL PETROLEUM COMPANY	GLENN LOCKHART DBA CAPITAL PETROLEUM COMPANY	ASSIGNMENT	101	
ŀ				STONESTREET LANDS COMPANY	STONESTREET LANDS COMPANY	ASSIGNMENT	101	
,				ABARTA OIL AND GAS CO INC	ROCKWELL PETROLEUM COMPANY	ASSIGNMENT	107	
				ADARTA GILAND GAS CO INC	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	261	
				CPC ENERGY SBS (B) LP, SUCCESSOR PARTNERSHIP TO GLENVILLE 1979		ASSIGNMENT	275	
				ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	PARTIAL ASSIGNMENT	275 108	
Ų				ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM CORPORATION	CARSON PETROLEUM CORPORATION CPC 78-F, LTD	PARTIAL ASSIGNMENT PARTIAL ASSIGNMENT		
Ų				ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION	CARSON PETROLEUM CORPORATION CPC 78-F, LTD CPC 78-F, LTD	PARTIAL ASSIGNMENT	108	
				ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION	CARSON PETROLEUM CORPORATION CPC 78-F, LTD CPC 78-F, LTD HS I-A, LTD	PARTIAL ASSIGNMENT PARTIAL ASSIGNMENT	108 109	
				ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION CPC 78-F, LTD CPC 78-F, LTD HS I-A, LTD CARSON PETROLEUM CORPORATION	PARTIAL ASSIGNMENT PARTIAL ASSIGNMENT PARTIAL ASSIGNMENT PARTIAL ASSIGNMENT PARTIAL ASSIGNMENT	108 109 109	
				ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION ROCKWELL PETROLEUM COMPANY ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION CPC 78-F, LTD CPC 78-F, LTD HS I-A, LTD CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION	PARTIAL ASSIGNMENT PARTIAL ASSIGNMENT PARTIAL ASSIGNMENT PARTIAL ASSIGNMENT	108 109 109 109	
				ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION ROCKWELL PETROLEUM COMPANY ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION CPC 78-F, LTD CPC 78-F, LTD HS I-A, LTD CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION ROYAL W. CARSON, JR.	PARTIAL ASSIGNMENT	108 109 109 109 110	
				ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION ROCKWELL PETROLEUM COMPANY ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION	CARSON PETROLEUM CORPORATION CPC 78-F, LTD CPC 78-F, LTD HS I-A, LTD CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION ROYAL W. CARSON, JR. HS II-B, LTD	PARTIAL ASSIGNMENT	108 109 109 109 110	
				ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION ROCKWELL PETROLEUM COMPANY ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION	CARSON PETROLEUM CORPORATION CPC 78-F, LTD CPC 78-F, LTD HS I-A, LTD CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION ROYAL W. CARSON, JR. HS II-B, LTD ROYAL W. CARSON, JR.	PARTIAL ASSIGNMENT	108 109 109 109 110 112	
				ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION ROCKWELL PETROLEUM COMPANY ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM CORPORATION	CARSON PETROLEUM CORPORATION CPC 78-F, LTD CPC 78-F, LTD HS I-A, LTD CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION ROYAL W. CARSON, JR. HS II-B, LTD ROYAL W. CARSON, JR. THOMAS E. EVANS	PARTIAL ASSIGNMENT	108 109 109 109 110 112 112	
				ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION ROCKWELL PETROLEUM COMPANY ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM CORPORATION	CARSON PETROLEUM CORPORATION CPC 78-F, LTD CPC 78-F, LTD HS I-A, LTD CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION ROYAL W. CARSON, JR. HS II-B, LTD ROYAL W. CARSON, JR. THOMAS E. EVANS CPC 79-G LTD	PARTIAL ASSIGNMENT	108 109 109 109 110 112 112 112 112	
				ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION ROCKWELL PETROLEUM COMPANY ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM CORPORATION	CARSON PETROLEUM CORPORATION CPC 78-F, LTD CPC 78-F, LTD HS I-A, LTD CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION ROYAL W. CARSON, JR. HS II-B, LTD ROYAL W. CARSON, JR. THOMAS E. EVANS CPC 79-G LTD CPC 79-H LTD	PARTIAL ASSIGNMENT	108 109 109 109 110 112 112 112 112 112	
				ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION ROCKWELL PETROLEUM COMPANY ROCKWELL PETROLEUM COMPANY CARSON PETROLEUM CORPORATION	CARSON PETROLEUM CORPORATION CPC 78-F, LTD CPC 78-F, LTD HS I-A, LTD CARSON PETROLEUM CORPORATION CARSON PETROLEUM CORPORATION ROYAL W. CARSON, JR. HS II-B, LTD ROYAL W. CARSON, JR. THOMAS E. EVANS CPC 79-G LTD	PARTIAL ASSIGNMENT	108 109 109 109 110 112 112 112 112 112 112	

I	I	1	I	ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	DARTIAL ACCIONATALT		
				ROCKWELL PETROLEUM COMPANY	EMILY E. CARSON	PARTIAL ASSIGNMENT	112	443
1				ROCKWELL PETROLEUM COMPANY	ROYAL W. CARSON, JR.	PARTIAL ASSIGNMENT	114	575
				ROCKWELL PETROLEUM COMPANY, ROBERT R. JONES, AND MARK R.	ROTAL W. CARSON, JR.	PARTIAL ASSIGNMENT	114	579
				WORL	CARCON RETROLEUNA CORRORATION			
/			Q093121001	CARSON PETROLEUM CORPORATION; ROYAL W. CARSON, III; MACK R.	CARSON PETROLEUM CORPORATION	ASSIGNMENT	123	820
10	FK090212	02-0010-0014-0000	Q093121001 Q093121002		DEVON ENERGY CORPORATION (NEVADA)			
			Q093121002	WORL; ROYAL W. CARSON, JR.; AND EMILY CARSON		ASSIGNMENT	126	434
				THOMAS E. EVANS, AN INDIVIDUAL		ASSIGNMENT	127	670
		1		CARSON PETROLEUM CORPORATION	GLENVILLE 1979 GLENVILLE 1979 GLENVILLE 1979	PARTIAL ASSIGNMENT	128	181
				CARSON PETROLEUM CORPORATION	GLENVILLE 1979 50 8	PARTIAL ASSIGNMENT PARTIAL ASSIGNMENT	128	183
				CARSON PETROLEUM CORPORATION	CANDID COLOR SYSTEMS INC	PARTIAL ASSIGNMENT	138	707
1				CANDID COLOR SYSTEMS INC	CANDID OIL & GAS INC	ASSIGNMENT	139	16
1				DEVON ENERGY CORPORATION AND DEVON RESOURCE INVESTORS, A	A Wig			
1				LIMITED PARTNERSHIP	DEVON INVESTORS LTD	MERGER/NAME CHANGE	WVSOS	
	1			HS I-A	HS CONSOLIDATED GROWTH PARTNERSHIP	PARTIAL ASSIGNMENT	139	447
				HS CONSOLIDATED GROWTH PARTNERSHIP	HS RESOURCES, INC	ASSIGNMENT	153	467
				HS CONSOLIDATED GROWTH PARTNERSHIP	HS RESOURCES, INC	PARTIAL ASSIGNMENT	153	477
				HS CONSOLIDATED ASSET PARTNERSHIP	HS RESOURCES, INC	PARTIAL ASSIGNMENT	153	500
1				DEVON INVESTORS LTD	DEVON ENERGY CORPORATION (DELAWARE)	ASSIGNMENT	156	436
				HS RESOURCES, HS CONSOLIDATED ASSET PARTNERSHIP, HS CONSOLIDATED GROWTH PARTNERSHIP, AND HG/SHB JOINT VENTURE		ASSIGNMENT	158	408
				DEVON ENERGY CORPORATION (NEVADA)	ABARTA OIL AND GAS COMPANY INC (90%)		0000000	
				ABARTA OIL AND GAS CO INC	ALLEGHENY INTERESTS INC (10%)	ASSIGNMENT	178	682
		1		GLENVILLE 1979	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	261	463
				GLENVILLE 1979	CPC ENERGY SBS (B) LP	MERGER/NAME CHANGE	275	83
				CPC ENERGY SBS (B) LP, SUCCESSOR PARTNERSHIP TO GLENVILLE 1979	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	275	83
				ANTERO RESOURCES APPALACHIAN CORPORATION	ANTERO RESOURCES CORPORATION	MERGER/NAME CHANGE	WVSOS	
		i i		ANTERO RESOURCES CORPORATION	CNX GAS COMPANY LLC AND NOBLE ENERGY INC	PARTIAL TERM ASSIGNMENT	411	478
1	1	1		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	377	212
1				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	388	34
				ANTERO RESOURCES CORPORATION	HG ENERGY II APPALACHIA, LLC	PARTIAL ASSIGNMENT	508	442
				CP LEASE HOLDINGS & ROBERT R JONES II	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	520	563
1				HAL MCKINGHT	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	AB 8	722
				LOCATOR'S OIL AND GAS, INC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	511	291
				PATSY HAMMERT	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	511	282
/ 14	FK079362 FEE	p/o 03-002C-0002-0000	FK079362 FEE					
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746



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-2H 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

Enclosures

RECEIVED
Office of Oil and Gas

AUG 26 2024

Environmental Protection

Horizontal Natural Gas Well Work Permit Application Notice By Publication

Notice	is	herek	Эy	given	
				0	

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 $Public\ Notice\ Date:\ \underline{\ \ }^{Wednesday,\ May\ 22nd\ \&\ Wednesday,\ May\ 29th,\ 2024}$ 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-2H Address: 5260 Dupont Road Parkersburg, WV 26101 Business Conducted: Natural gas production. Location -RECEIVED Office of Oil and Gas West Virginia State: County: Lewis AUG 26 2024 District: Freemans Creek Quadrangle: Vadis 7.5' UTM Coordinate NAD83 Northing: 4327356.9 WV Department of

Coordinate Conversion:

UTM coordinate NAD83 Easting:

Watershed: Fink Creek

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.

528672.1

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 permit application is received by the Office of Oil and Gas.

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

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

Date of Noti	ce Certification: 06/05/2023	API No. 47				
		Operator's Well No. Van Wie 1221 N-2H				
			lame: Van Wi			
Notice has l						
Pursuant to th	ne provisions in West Virginia Code	§ 22-6A, the Operator has provided the req	uired parties	with the Notice Forms listed		
below for the	tract of land as follows:					
State:	West Virginia	UTM NAD 83 Easting:	528672.1			
County: District:	Lewis	Nortning:	4327356.9			
Quadrangle:	Freemans Creek	Public Road Access:	CR 11 / 3 via Str	aight Run Road		
Watershed:	Vadis WV 7.5's Fink Creek	Generally used farm name:	Van Wie			
watershed.	Fillk Creek					
information re of giving the requirements Virginia Code	equired by subsections (b) and (c), s surface owner notice of entry to so of subsection (b), section sixteen (c)	shall contain the following information: (14) bed in subdivisions (1), (2) and (4), subsection sixteen of this article; (ii) that the recurvey pursuant to subsection (a), section to f this article were waived in writing by the tender proof of and certify to the secretary int.	ection (b), se quirement was en of this article.	ction ten of this article, the deemed satisfied as a resulticle six-a; or (iii) the notice		
that the Ope	rator has properly served the require	perator has attached proof to this Notice Ce α parties with the following:	ertification	OOG OFFICE USE		
*PLEASE CHE	CCK ALL THAT APPLY			ONLY		
☐ 1. NOT	CICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUCT		RECEIVED/ NOT REQUIRED		
■ 2. NOT	TICE OF ENTRY FOR PLAT SURV	/EY or ☐ NO PLAT SURVEY WAS CO	NDUCTED	☐ RECEIVED		
■ 3. NOT	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAU NOTICE OF ENTRY FOR PLAT SURV WAS CONDUCTED or		RECEIVED/ NOT REQUIRED		
		☐ WRITTEN WAIVER BY SURFAC (PLEASE ATTACH)				
■ 4. NOT	TICE OF PLANNED OPERATION	Office of	ECEIVED of Oil and Gas	☐ RECEIVED		
■ 5. PUB	LIC NOTICE	21/	26 2024	☐ RECEIVED		
■ 6. NOT	TCE OF APPLICATION	WV De Environme	partment of ental Protection	□ RECEIVED		

Required Attachments:

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

WW-6AC (1/12)

Certification of Notice is hereby given:

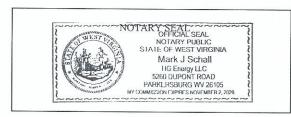
THEREFORE, I Diane White _______, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, 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 White
 Parkersburg, WV 26101

 Its:
 Agent
 Facsimile:
 304-863-3172

 Telephone:
 304-420-1119
 Email:
 dwhite@hgenergyllc.com





Oil and Gas Privacy Notice:

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

Office of Oil and Gas

AUG 26 2024

WW-6A (9-13)

API NO. 47- OPERATOR WELL NO. Van Wio 1221 NIH 80 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: Notice of:	12/13/23
	APPROVAL FOR THE DF AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A	-10(b)
	THOD OF DELIVERY THAT REQUIRES A CEIPT OR SIGNATURE CONFIRMATION
certificate of approval for the construction of an impoundment o registered mail or by any method of delivery that requires a recei sediment control plan required by section seven of this article, at the surface of the tract on which the well is or is proposed to be oil and gas leasehold being developed by the proposed well work described in the erosion and sediment control plan submitted pur operator or lessee, in the event the tract of land on which the well more coal seams; (4) The owners of record of the surface tract or well work, if the surface tract is to be used for the placement, con impoundment or pit as described in section nine of this article; (5) have a water well, spring or water supply source located within o provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the application of this article to the contrary, notice to a lien holder is	date of the application, the applicant for a permit for any well work or for a repit as required by this article shall deliver, by personal service or by pt or signature confirmation, copies of the application, the erosion and and the well plat to each of the following persons: (1) The owners of record of located; (2) The owners of record of the surface tract or tracts overlying the c, if the surface tract is to be used for roads or other land disturbance as resuant to subsection (c), section seven of this article; (3) The coal owner, ll proposed to be drilled is located [sic] is known to be underlain by one or tracts overlying the oil and gas leasehold being developed by the proposed instruction, enlargement, alteration, repair, removal or abandonment of any struction, enlargement alteration, repair, removal or abandonment of any one thousand five hundred feet of the center of the well pad which is used to and (6) The operator of any natural gas storage field within which the hree tenants in common or other co-owners of interests described in feant may serve the documents required upon the person described in the one eight, article one, chapter eleven-a of this code. (2) Notwithstanding any not notice to a landowner, unless the lien holder is the landowner. W. Va. To provide the Well Site Safety Plan ("WSSP") to the surface owner and any ng as provided in section 15 of this rule.
Name: HG Energy II Appalachia, LLC **	COAL OWNER OR LESSEE Name: NA
Address: 5260 Dupont Road Parkersburg, WV 26101	Address:
Name: Anthony and Dawn Van Wie Address: 2700 Jones Road Dunkirk, MD 20754	COAL OPERATOR Name: NA
SURFACE OWNER(s) (Road and/or Other Disturbance)	Address:
Name:	SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
Nome	Name: NA
Name:Address:	Address:
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	Name: BHE GT&S - Attn: Jamie Moore
Name:	Address: 925 White Oaks Blvd
Address:	Bridgeport, WV 26330
250	*Please attach additional forms if necessary

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AUG 26 2024

OPERATOR WELL NO. Van Wie 1221 N'IH 10 S12H
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

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AUG 26 2024

WW-6A (8-13)

API NO. 47-OPERATOR WELL NO. Van Wie 1221 NIH 16 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

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.

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AUG 26 2024

WW-6A (8-13)

4704105761 API NO. 47-OPERATOR WELL NO. Van Wie 1221 NIH to \$12H

Well Pad Name: Van Wie 122

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

The proposed well work will constitute a hazard to the safety of persons;
 The plan for soil erosion and sediment control is not adequate or effective;
 Damage would occur to publicly owned lands or resources; or

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

rules promulgated hereunder, which time may not be unreasonable.

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

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

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AUG 26 2024

WW-6A (8-13)

4704105761 API NO. 47-

OPERATOR WELL NO. Von Wie 1221 N Well Pad Name: Van Wie 1221

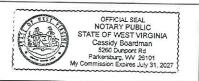
Notice is hereby given by:
Well Operator: HG Energy II Appalachia, LLC
Telephone: 304-420-1119
Email: dwhlite@hgenergyllc.com

Address: 5260 Dupont Road Parkersburg, WV 26101

Facsimile: 304-863-3172

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 11th day of December 2023 Notary Public My Commission Expires 7

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WW-6A3 (1/12)

Operator Well No. Von Wie 1221 N1H thru S12H

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	VEN (7) days but no more than FORTY-FIVE (45) days prior to
Delivery method pursuant to West Virginia Code § 22-6A-10	a
	OD OF DELIVERY THAT REQUIRES A PT OR SIGNATURE CONFIRMATION
on to the surface tract to conduct any plat surveys required pursu but no more than forty-five days prior to such entry to: (1) The si beneath such tract that has filed a declaration pursuant to section owner of minerals underlying such tract in the county tax records and Sediment Control Manual and the statutes and rules related to Secretary, which statement shall include contact information, include the surface owner to obtain copies from the secretary.	ent to HE Energy 11. Appalachia LLC as they
Notice is hereby provided to: ** Notice was not so are the Operat	or of Record COAL OWNER OR LESSEE
The state of the s	Name: N/A
Name: Anthony and Dawn Van Wie Address: 2700 Jones Road	Address:
Dunkirk, MD 20754	Address.
Name: HG Energy II Appalachia, LLC * Address: 5260 Dupont Road	■ MINERAL OWNER(s)
Parkersburg, WV 26101	
Name:	ramo.
Address:	Address:
Address.	*please attach additional forms if necessary
· ·	produce details additional control of most and
a plat survey on the tract of land as follows:	given that the undersigned well operator is planning entry to conduct pprox. Latitude & Longitude: 29.084844 / 80.668480
County: Lewis P	ublic Road Access: CR11/3 via Straight Run Road
District: Freemans Creek V	Vatershed: Fink Creek
Quadrangle: Vadis G	enerally used farm name: Van Wie
may be obtained from the Secretary, at the WV Department of E 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:	e statutes and rules related to oil and gas exploration and production nvironmental Protection headquarters, located at 601 57 th Street, SE, ents or additional information related to horizontal drilling may be l-gas/pages/default.aspx. Address: 5250 Duppont Rad
Well Operator: HG Appalachia, LLC	and the second s
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.

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AUG 26 2024

WW-6A4 (1/12)

Operator Well No. Van Wie 1221 N1H to S12H

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

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

Notice Time Date of Notic	Requirement: Notice shall be provided at least ce: 01/05/2024 Date Permit A	TEN (10) days p pplication Filed	orior to filing a	a permit application	on.
Delivery met	thod pursuant to West Virginia Code § 22-6A-	-16(b)			
☐ HAND DELIVE	CERTIFIED MAIL ERY RETURN RECEIPT REQUEST	ΓED			
drilling a hor of this subsection ma	V. Va. Code § 22-6A-16(b), at least ten days pricested or hand delivery, give the surface owner not izontal well: <i>Provided</i> , That notice given pursuation as of the date the notice was provided to the ay be waived in writing by the surface owner. The le, facsimile number and electronic mail address	cice of its intent to ant to subsection a surface owner: the notice, if requ	o enter upon to (a), section to Provided, however, ired, shall inc	the surface owner en of this article s wever, That the no lude the name, ad	's land for the purpose of satisfies the requirements otice requirements of this dress, telephone number
Notice is he	reby provided to the SURFACE OWNER	k(s):			
	Energy II Appalachia, LLC *	Name:	Anthony and Da	wn Van Wie	
	60 Dupont Road	Address:	2700 Jones Road	1	
Pa	rkersburg, WV 26101		Dunkirk, MD 207	54	
State: County: District: Quadrangle:	vner's land for the purpose of drilling a horizonta West Virginia Lewis Freemans Creek Vadis WV 7.5'	al well on the trad UTM NAD 83 Public Road Ac Generally used	Easting: Northing:	528668.6 4327353.9 CR11 / 3 via Straight Van Wie	t Run Road
Pursuant to V facsimile num related to hor	Shall Include: West Virginia Code § 22-6A-16(b), this notice aber and electronic mail address of the operator izontal drilling may be obtained from the Secre 57th Street, SE, Charleston, WV 25304 (304-92)	or and the opera- tary, at the WV	tor's authorize Department o	ed representative.	Additional information
Well Operator	reby given by: :: HG Energy II Appalachia, LLC	Authorized R	epresentative:	Diane White	
Address:	5260 Dupont Road	Address:		5260 Dupont Road	1
	Parkersburg, WV 26101			Parkersburg, WV	26101 RECEIVED
Telephone:	304-420-1119	Telephone:		304-420-1119	Office of Oil and Gas
Email:	dwhite@hgenergyllc.com Diane White	Email:		dwhite@hgenergyl	Olc.com AUG 26 2024
Facsimile:	304-863-3172	Facsimile:		304-863-3172	
	Privacy Notice:				WV Department of Environmental Protection

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

WW-6A5 (1/12)

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

Notice T Date of N	ime Requirement: notice shall be provided in the provided by the shall be provided by the shall	rovided no later th Permit Applicati	nan the filing on Filed: 01/	date of permit	application.	
Delivery	method pursuant to West Virginia	Code § 22-6A-1	6(c)			
■ CE	RTIFIED MAIL	☐ HAND)	Si .		
	TURN RECEIPT REQUESTED	DELIV		of .		2
the plann required the drilling of damages (d) The noof notice.	to W. Va. Code § 22-6A-16(c), no reipt requested or hand delivery, give ed operation. The notice required to be provided by subsection (b), sec f a horizontal well; and (3) A proper to the surface affected by oil and gas octices required by this section shall be thereby provided to the SURFACE dress listed in the records of the shere	by this subsection ten of this art osed surface use operations to the pe given to the su	er whose land n shall inclu ticle to a surf and compend extent the da rface owner	d will be used for de: (1) A copy face owner whose sation agreement amages are com	or the drilling of a least this code section of this code section of the used that containing an of the pensable under artists.	horizontal well notice of on; (2) The information I in conjunction with the fer of compensation for cle six-b of this chapter
	HG Energy II Appalachia, LLC	in at the time of i	Name:	Anthony and Dav	vn Van Wie	
Address:	5260 Dupont Road		Addres			
	Parkersburg, WV 26101			Dunkirk, MD 207	54	2
State: County: District: Quadrang	on the surface owner's land for the West Virginia Lewis Freemans Creek Vadis WV 7.5'		UTM NAD 8 Public Road	Easting: Northing:	ct of land as follow 528668.6 4327353.9 CR 11/3 via Straight R Van Wie	*
Watershed			concluing us.	od ramin mame.		
Pursuant to be pro- horizontal surface af information headquart	ce Shall Include: to West Virginia Code § 22-6A-16(covided by W. Va. Code § 22-6A-10(covided by W. Va. Code § 22-6A-10(covided by One of the Code of t	(b) to a surface of se and compensate the extent the day be obtained from	owner whose ion agreemed mages are common the Secret	e land will be unt containing an ompensable und	offer of compensate article six-b of Englishment of	n with the drilling of a ation for damages to the this chapter. Additional
Well Oper	rator: HG Energy II Appalachia, LLC		Address:	5260 Dupont Road		
Telephone				Parkersburg, WV 26	101	REOF
Email:	dwhite@hgenergyllc.com	re White	Facsimile:			RECEIVED Office of Oil and Gas
	as Privacy Notice: e of Oil and Gas processes your pers	onal information.	such as nam	e, address and to	elephone number	AUG 26 2024

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



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Office of the District Engineer/Manager District Four

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

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

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

December 04, 2023

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

Subject: DOH Permit for the Van Wie 1221, Lewis County N-2H 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
		7647-14-5
		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
313	Wilkture	68607-28-3
300		107-21-1
		111-76-2
		67-56-1
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
		1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
BIO CLEAR 2000	D.4:	25222 60.2
DIO CLEAR 2000	Mixture	25322-68-3 10222-01-2
		10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
	Wilkture	107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9

Office of Oil and Gas

AUG 26 2024

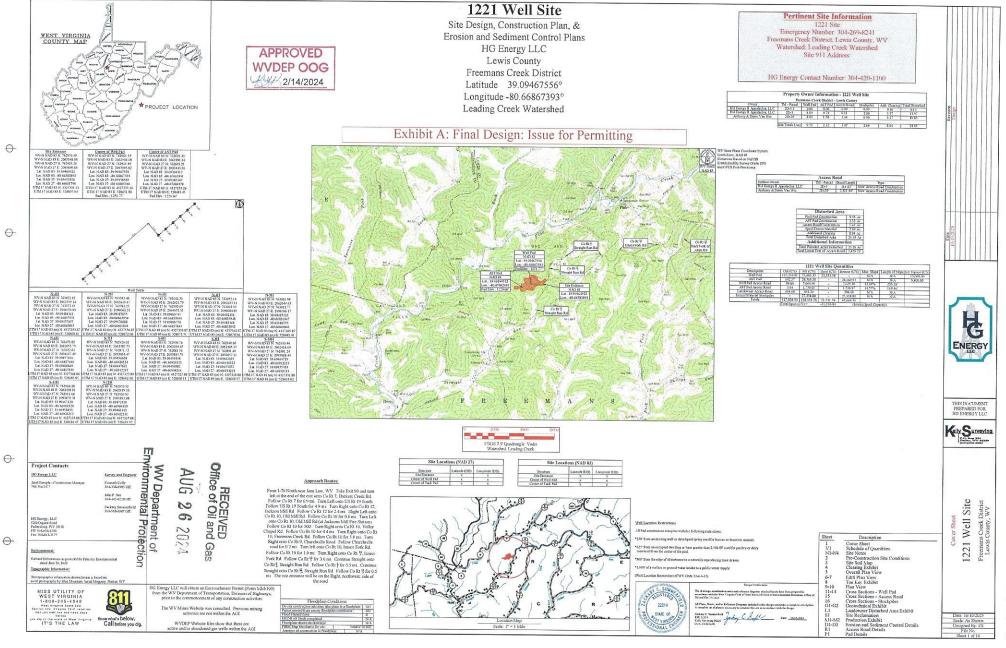
WV Department of Environmental Protection

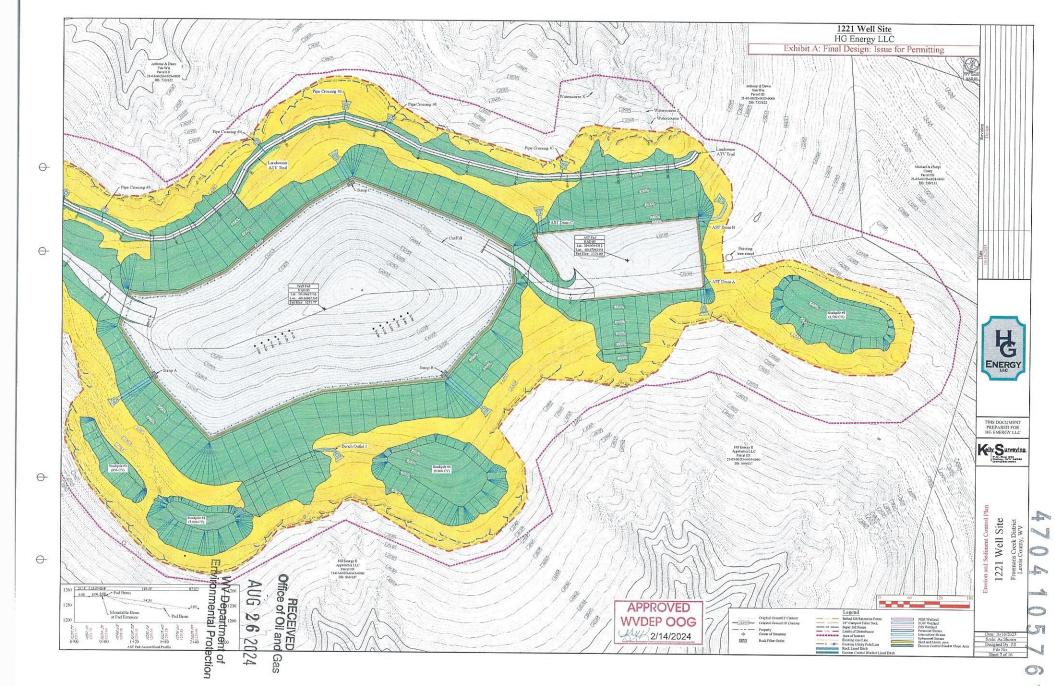
OPERATOR: HG Energy II Appalachia, LL	WELL NO: Van Wie 1221 N-2H		
PAD NAME:_ Van Wie 1221			
REVIEWED BY: Diane White	SIGNATURE: _	Diane White	

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

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





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