

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-5H

47-041-05764-00-00

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-

Operator's Well Number: VAN WIE 1221 N-5H

Farm Name: HG ENERGY II APPALACHIA

U.S. WELL NUMBER: 47-041-05764-00-00

Horizontal 6A New Drill

Date Issued: 9/30/2024

API Number: 47-041-05764

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.

4704105764 API NO. 47-

OPERATOR WELL NO. Van Wie 1221 N-5H
Well Pad Name: Van Wie 1221

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

1) Well Operator: HG Energy II Appalachia, 494519932 Lewis Freeman Vadis 7.5'
Operator ID County District Quadrangle
2) Operator's Well Number: Van Wie 1221 N-5H Well Pad Name: Van Wie 1221
3) Farm Name/Surface Owner: HG Energy II Appalachia, LLC Public Road Access: CR 11/3 aka Straight Run Road
4) Elevation, current ground: 1256' Elevation, proposed post-construction: 1251.7'
5) Well Type (a) Gas X Oil Underground Storage
Other
(b)If Gas Shallow X Deep
Horizontal X
6) Existing Pad: Yes or No No
7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus at 7002' / 7049' and 47' in thickness. Anticipated pressure at 4314#.
9) Formation at Total Vertical Depth: Marcellus
10) Proposed Total Measured Depth: 26,168'
11) Proposed Horizontal Leg Length: 17,779'
12) Approximate Fresh Water Strata Depths: 150', 181', 826'
13) Method to Determine Fresh Water Depths: Nearest offset well data, (47-017-02906, 2480, 4233,)
14) Approximate Saltwater Depths: NA
15) Approximate Coal Seam Depths: 220' - 225', 428'-438', 495'-501' (Surface casing is being extended to cover the coal in the DTI Field)
16) Approximate Depth to Possible Void (coal mine, karst, other): None
17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No X
(a) If Yes, provide Mine Info: Name: Office of Oil and Gas
Depth: AUG 26 2024
Seam.
Seam: Owner: WV Department of Environmental Protection
Totection

API NO. 47-70 4 1 0 5 7 6 4 OPERATOR WELL NO. Van Wie 1221 N-5H

Well Pad Name: Van Wie 1221

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120' /	CTS
Fresh Water/Coal	20"	NEW	J-55	94	1225'	1225'	40% Excess, CTS
Intermediate 1	13 3/8"	NEW	J-55 BTC	68	2760'	2760' /	40% Excess, CTS
Intermediate 2	9 5/8"	NEW	N/L-80 BTC	40	6150'	6150'	40% Excess Tail, CTS
Production	5 1/2"	NEW	P-110 HP	23	26168'	26168'	20% Excess Tail, CTS
Tubing							
Liners				***************************************			

Kenneth Greynolds Digitally signed by: Kenneth Greynolds Disc CN = Kenneth Greynolds when the Greynolds can be a Kenneth L. Greynolds can be a Wide PC = OI and Gas Disk = 2024 08.16 11:19:56 -04007

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	26"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate 1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Load 40% excess, Tall 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	5750		Type 1/Class A	Lend 40% excess, Tall 0% Excess Len
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% excess yield = 1.19, tall yield 1.21
Tubing							jul
Liners							

PACKERS

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

OPERATOR WELL NO. Van Wie 1221 N-5H
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 17,779' lateral length, 26,168' 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 surface.

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

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

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

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

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

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

Intermediate 1 - ***** Storage String **** CTS *****15.4 ppg Lead - Yield 1.24 - D896 Surface Set 100 b / sack (Mx 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 / D022 - 0.15% BWOB Dispersant / D093 1.5 b per Bit. CemNET** - 6.0% Excess 15.9 ppg Tail - Yield 1.17 - D896 Surface Set 100 b / sack (Mx of Class A and Gypsum to meet Dominion Requirements)B160A - 0.15% BWOB Dispersant / B547 - 0.35% BWOB GasBLOK* / D013 - 0.3% BWOB Retarder / D047 - 0.02 gal / sack Anti Foam / D022 - 0.03 gal / sack Retarder - 0% Ret

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

Production - "Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gallsk FP13L + 0.3% bwoc MPA170Tai: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gallsk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA17020% ExcessLead Yield=1,19Tail Yield=1,94CTS*

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD.

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

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

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

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

RECEIVED
Office of Oil and Gas

+

+

AUG 26 2024

WV Department of Environmental Protection

*Note: Attach additional sheets as needed.

Page 3 of 3

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

Material Name	Material Type	Material Description	CAS#		
		Premium NE-1 is a	Ingredient name	%	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide	1 - 5	1305-78-8
1 10 10000		strength properties.	Magnesium oxide Crystalline silica: Quartz (SiO2)	1-5	1309-48-4
remium NE-1	Portland Cement		orystamie sinca. Quartz (3102)	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.			
Sentonite	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		100 100	10040 02 4
		of strength development			
lcium Chloride	Accelerator				
		Graded (3/8 to 3/4 inch)	Ingredient name	%	CAS number
		cellophane flakes used as	No hazardous ingredient		
lo Elake	Lost Circulati	a lost circulation material.			
lo 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	Service Control of the Control of th	30 - 100	120-73-0
		preventing foaming			
		tendencies of latex			
		systems.			
-13L	Foam Preventer				
			Ingradiant	1	1
		Used to retard cement	Ingredient name	%	CAS number
anulated Sugar	Retarder	returns at surface.	Sucrose	90 - 100	57-50-1
0		A proprietary product that			
		provides expansive			
		properties and improves			
		bonding at low to	Ingredient name	%	CAS number
		moderate	Calcium magnesium oxide	90 - 100	
		temperatures.	Odicidii magnesidii oxide	90 - 100	37247-91-9
-1					
		Multi-purpose polymer			
		additive used to control	Ingredient name	%	CAS number
		free fluid, fluid loss,	No hazardous ingredient	70	CM3 number
170		rheology, and gas			
PA-170	Gas Migration	migration.			
		A synthetic			
		A synthetic pozzolan, (primarily Silicon Dioxide).			
		When blended with			
		cement, Pozzolan can be			
		used to create	Ingredient name	%	CAS number
		lightweight cement	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
		slurries used as either a	Calcium oxide	1 - 5	1305-78-8
		filler slurry or a sulfate		-	
		resistant completion		nu R	ECEIVED of Oil and Gas
		cement.		Unice	of Oil and Gan
z (Fly Ash)	Base				- Gas
				Alig	26 2024
		A low temperature			20 ZUZ4
		retarder used in a wide	Ingredient name	oz lanz-	CAS numba-
		range of slurry	Organic acid salt	7º VVV De	Partment
		formulations to extend	Crystale dele salt	EPIVIFONME	CAS number Partin entosecret. Potal Protection
		the slurry thickening time.			- Folection
3	Retarder				
			Ingredient name	%	CAS number
					and the same of th
			2-Butoxyethanol	20 - 30	111-76-2
			Proprietary surfactant	10 - 20	Trade secret.
		Used to water wet casing	Proprietary surfactant D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	10 - 20 5 - 10	Trade secret. 110615-47-9
5	Surfactant	Used to water wet casing and formation to facilitate cement bonding.	Proprietary surfactant	10 - 20	Trade secret.

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

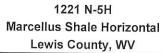
15.4 ppg Lead - Yield 1.24 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)

B348 - 0.5% BWOB Fluid Loss / D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / sack VBWOB Anti Foam / D202 - 0.15% BWOB

Dispersant / D095 1.5 lb per BBL CemNET* - 6.0% Excess

15.9 ppg Tail - Yield 1.17 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)

B160A - 0.15% BWOB Dispersant / B547 - 0.35% BWOB GasBLOK* / D013 - 0.3% BWOB Retarder / D047 - 0.02 gal / sack Anti Foam / D801 - 0.03 gal / sack Retarder - 0% Excess





		National Section 14		,	30-00-30-00-0	N-5H SH		1	4197366.18N 1734 <i>5</i>	518.86E
Ground Elevation		1251.7	77'		1221	N-5H LF	•		4198557.3N 17369	51.03E
Azm		340.44	ŀ6°		1221 N	1 N-5H BHL		14215315.17N 1731041.05E		
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	ТОР	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" wa thickness
×	26"	20" 94# J-55	Coal Fresh Water	740	746 1225	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" wa thickness Burst=2110 psi
×	17.5"	13-3/8" 68# J-55 BTC	Protection Little Lime Big Lime Injun / Gantz (Storage)	2167 2216 2265 / 2597	2187 2265 2361 / 2647	AIR / KCL Salt Polymer	See above (LEFT) for Storage String Cement Blend to Meet DTI Requirements for Gas Storage Field Isolation	*will also be running ACP for isolating	pumping cement. Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping	Intermediate casing = 0.480 wall thickness Burst=3450 psi
×			Intermediate 1 Thirty Foot Gordon	0 2789 2837	2760 2799 2915		Storage Field Isolation	storage zone*	cement.	
×	12.25"	9-5/8" 40# N / L-80 BTC	5th Sand Bayard Speechley	3066 3161 3634	3102 3174 3666	AIR / KCL - 2.5% bwoc C 40% Excess / Ta ppg PNE-1 + 2.5	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc	2.5% bwoc CaCl 3% Excess / Tail: 15.9 g PNE-1 + 2.5% bwoc g ioint to 100' form	Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one	Intermediate casing = 0.395" wall thickness
			Benson Alexander Intermediate 2	5038 5324 0	5072 5444 TVD: 5675' MD: 6150' Inc: 37 deg.	,	CaCl zero% Excess. CTS	surface	hole volume prior to pumping cement.	Burst=5750 psi
×	8.75"				37 464 .	AIR / 9.0ppg SOBM	<u>Lead</u> : 14.5 ppg POZ:PNE-1 + 0.3%	Run 1 spiral centralizer every 5 joints from the top of the curve to surface.		
X Env	8.5" Curve	5-1/2" 23# P-110 HP	Rhinestreet Cashaqua Middlesex West River	6303 6591 6736 6815	6591 6736 6815 6884	11.5ppg- 12.5ppg		Run 1 spiral centralizer	least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to	Production casing = 0.415" wall thickness Burst=16240 psi
AllG 26 202 WV Department of vironmental Protect		TXP / W461	Burkett Tully Limestone Hamilton	6884 6925 6952	6925 6952 7002	SOBM	bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess Lead Yield=1.19 Tail Yield=1.94			Note:Actual centralizer schedules may be changed due to hole conditions
x lon x as		-	Marcellus TMD / TVD (Production) Onondaga	7002 26168 7049	7049 7035	11.5ppg- 12.5ppg SOBM	CTS		9	
LP @ 7035' M		X		8.5" Hole - Cemente 5-1/2" 23# P-110 HP	d Long String	X	X		9' ft Lateral	X TD @ +/-7035' TVD +/-26168' MD

WW-9 (4/16)

API Number 47 - ___ - Operator's Well No. Van Wie 1221 N-5H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

TECEDS COTTINGS DISTOSAL & RECLAWATION FLAN
Operator Name HG Energy II Appalachia, LLC OP Code 494501907
Watershed (HUC 10) Fink Creek Quadrangle Vadis 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No
If so, please describe anticipated pit waste: NA
Will a synthetic liner be used in the pit? Yes No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:
Land Application
Underground Injection (UIC Permit Number)
Reuse (at API Number TBD - At next anticipated well site
Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain
Will closed loop system be used? If so, describe: Yes, cuttings and fluids will be collected in a closed loop system, re-used or hauled to an approved disposal site or landfill.
Orilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Vertical - Air, Air/KCL, Air/SOBM, Horizontal - SOBM
-If oil based, what type? Synthetic, petroleum, etc. Synthetic
Additives to be used in drilling medium? Water, Soap, KCl, Barite, Base Oil, Wetting Agents
Orill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Approved Landfill
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA
-Landfill or offsite name/permit number? See Attached
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable aw or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.
Company Official Signature Diane White
Company Official (Typed Name) Diane White AUG 26 2024
Company Official Title Agent WV Department of Environmental Protection
Subscribed and sworn before me this 13th day of June , 20 24
Notary Public Notary Public Notary Public SIALE OF WEST VIRIGINIA
My commission expires 1 / 2026 State of west virginia Mark J Schall HG Energy LIC 5260 DUPONT ROAD PARKLESBURG WY 26105 MY COMMISSION TOWN MY TRANSPORT OF THE PROPERTY OF TH

Cuttings Disposal/Site Water

Cuttings - Haul off Company:

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

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

Environmental Coordination Services & Recycling (ECS&R) 3237 US Highway 19 Cochranton, PA 16314 814-425-7778

Disposal Locations:

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

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

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

Max Environmental Technologies, Inc. Facility Permit # PAD004835146 / 901071 283 Max Lane Yukon, PA 25968 724-722-2500

Max Environnemental Technologies, Inc. Facility Permit # PADO5087072 / 301359 200 Max Drive Bulger, PA 15019 724-796-1571

Waste Management Kelly Run Permit # 100663 1901 Park Side Drive Elizabeth, PA 15087 412-884-7569

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 724-222-5272

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

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

AUG 26 2024

WV Department of Environmental Protection

10/04/2024

Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martinsville, WV 26035 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 Kalkaske, Ml 49646 281-258-9961

Water Haul off Companies:

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

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

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

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

Mustang Oilfield Services LLC PO Box 739 St. Clairaville, OH 48950

Wilson's Outdoor Services, LLC 456 Cracraft Road Washington, PA 15301

Disposal Locations:

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

Solidification/Incineration Soil Remediation, Inc. Permit # 02-20753 6065 Arrel-Smith Road Lowelville, OH 44436 330-536-6825

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

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

Force, Inc. 1380 Rte. 286 Hwy. E, Suite 303 Indiana, PA 15701

Salo Construction 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

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

RECEIVED
Office of Oil and Gas Nichios 1-A (SWIW #18) Permit # 3862 AUG 26 2024 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-829-7275

WV Department of Environmental Protection

Grosella (SWIW #34) Permit # 4096 Rt. 88 Garrattsville, OH 719-275-4816

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

10/04/2024

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

Adams #3 (Buckeye Brîne, LLC) Permit #34-031-2-7241-00-00 2680 Exposition, Suite 117 Austin, TX 78703 612-478-6545

Mozena #1 Well (SWIW # 18) Permit # 84-157-2-5511-00-00 6367 E. State Street Newcomerstown, OH 43832 740-768-3966

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 # 84-059-2-4202-00-00 Silcor Oilfield Services, Inc. 2999 Hubbard Road Youngstown, PH 44505

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

OH UIC #1 Bu keya UIC Barnesville 1 & 2 CNX Gas Con...any, LLC 1000 Consol Energy Drive Permit # 84-018-2-0609-00-00 Permit # 34-013-2-0614-00-00 804-828-6668

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

Chapin #7 UIC (SWIW #7)
Permit # 34-083-2-4187-00-00
Elkhead Gas& Oil Company
12163 Marne Rd. NE
Newark, OH 48055
740-768-8966

RECEIVED
Office of Oil and Gas

AUG 26 2024 WV Department of

Environmental Protection

Operator's Well No. Van Wie 1221 N-5H

Proposed Revegetation Treat	tment: Acres Disturbed	d 51.82	Prevegetation p	ЫН
Lime	3 Tons/acre or to co	orrect to pH _6	3.5	
Fertilizer type10	1-20-20			
Fertilizer amount		500 lbs/ac	re	
Mulch_ Hay		2 Tons/acre		
		Seed M	<u>ixtures</u>	
Te	mporary		Perm	anent
Seed Type	lbs/acre		Seed Type	Ibs/acre
Tall Fescue	40		Tall Fescue	40
Ladino Clover	5		Ladino Clover	5
Maps(s) of road, location, pit provided). If water from the p	oit will be land applied,	land application, include dimens	n (unless engineered plans inclusions (L x W x D) of the pit, and	ding this info have been d dimensions (L x W), and area in
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involving	oit will be land applied, on area	, include dimens	sions (L x W x D) of the pit, and	ding this info have been d dimensions (L x W), and area in
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involv Renne Plan Approved by:	oit will be land applied, on area. Ved 7.5' topographic she oth Greynolds Digitally signed. Str. Sor. Sor. Sor. Sor. Sor. Sor. Sor. So	eet. bod by: Kenneth Greynolds meth Greynolds email = Konneth L. wgc or = AD or WMEP OU = ON 1.16 1123-04-04007	sions (L x W x D) of the pit, and	d dimensions (L x W), and area in
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application of the land approved by:	oit will be land applied, on area. yed 7.5' topographic she oth Greynolds or Solve Kare Greynolds or Area d/mulch as soc	eet. od by: Kenneth Greynolds meth Greynolds email = Kenneth L. wgc or = AD or WMEPP OU = ON 1.16 112304-04007 On as reas	sions (L x W x D) of the pit, and	r regulation.
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application of the land approved by:	oit will be land applied, on area. yed 7.5' topographic she oth Greynolds or Solve Kare Greynolds or Area d/mulch as soc	eet. od by: Kenneth Greynolds meth Greynolds email = Kenneth L. wgc or = AD or WMEPP OU = ON 1.16 112304-04007 On as reas	sions (L x W x D) of the pit, and	r regulation.
Maps(s) of road, location, pit provided). If water from the paceage, of the land application Photocopied section of involve Plan Approved by: Pre-seed	oit will be land applied, on area. yed 7.5' topographic she oth Greynolds or Solve Kare Greynolds or Area d/mulch as soc	eet. od by: Kenneth Greynolds meth Greynolds email = Kenneth L. wgc or = AD or WMEPP OU = ON 1.16 112304-04007 On as reas	sions (L x W x D) of the pit, and	r regulation.
Maps(s) of road, location, pit provided). If water from the paceage, of the land application Photocopied section of involve Plan Approved by: Pre-seed	oit will be land applied, on area. yed 7.5' topographic she oth Greynolds or Solve Kare Greynolds or Area d/mulch as soc	eet. od by: Kenneth Greynolds meth Greynolds email = Kenneth L. wgc or = AD or WMEPP OU = ON 1.16 112304-04007 On as reas	sions (L x W x D) of the pit, and	r regulation.
Maps(s) of road, location, pit provided). If water from the paceage, of the land application Photocopied section of involve Plan Approved by: Pre-seed	oit will be land applied, on area. yed 7.5' topographic she oth Greynolds or Solve Kare Greynolds or Area d/mulch as soc	eet. od by: Kenneth Greynolds meth Greynolds email = Kenneth L. wgc or = AD or WMEPP OU = ON 1.16 112304-04007 On as reas	sions (L x W x D) of the pit, and	r regulation.
Maps(s) of road, location, pit provided). If water from the proceeding of the land application Photocopied section of involve the land Approved by: Plan Approved by: Pre-seed	oit will be land applied, on area. yed 7.5' topographic she oth Greynolds or Solve Kare Greynolds or Area d/mulch as soc	eet. od by: Kenneth Greynolds meth Greynolds email = Kenneth L. wgc or = AD or WMEPP OU = ON 1.16 112304-04007 On as reas	sions (L x W x D) of the pit, and	r regulation.
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application of involve the provided section of involve the pacreage was also section of involve the pacreage with the pacreage of the land application of involve the pacreage was also section of involve the pacreage with the pacreage was also section of involve the pacreage was also	oit will be land applied, on area. yed 7.5' topographic she oth Greynolds or Solve Kare Greynolds or Area d/mulch as soc	eet. od by: Kenneth Greynolds meth Greynolds email = Kenneth L. wgc or = AD or WMEPP OU = ON 1.16 112304-04007 On as reas	sions (L x W x D) of the pit, and	r regulation.
Maps(s) of road, location, pit provided). If water from the paceage, of the land application Photocopied section of involve Kenne Plan Approved by: Pre-seed Upgrade	on area. yed 7.5' topographic she eth Greynolds plans 2004.68. d/mulch as soc E&S if needed	eet. eet. by Kenneth Grynolds neeth Grynolds email = Kenneth L. w, gry C = AD O = WXCEP OU = OB 1. 1.6 112304-0400' Dn as reas d per WV	sions (L x W x D) of the pit, and	r regulation.
Photocopied section of involve Menne Plan Approved by: Comments: Upgrade	on area. yed 7.5' topographic she eth Greynolds plans 2004.68. d/mulch as soc E&S if needed	eet. eet. by Kenneth Grynolds neeth Grynolds email = Kenneth L. w, gry C = AD O = WXCEP OU = OB 1. 1.6 112304-0400' Dn as reas d per WV	Sonably possible pe DEP E&S manual.	r regulation.

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

RECEIVED
Office of Oil and Gas

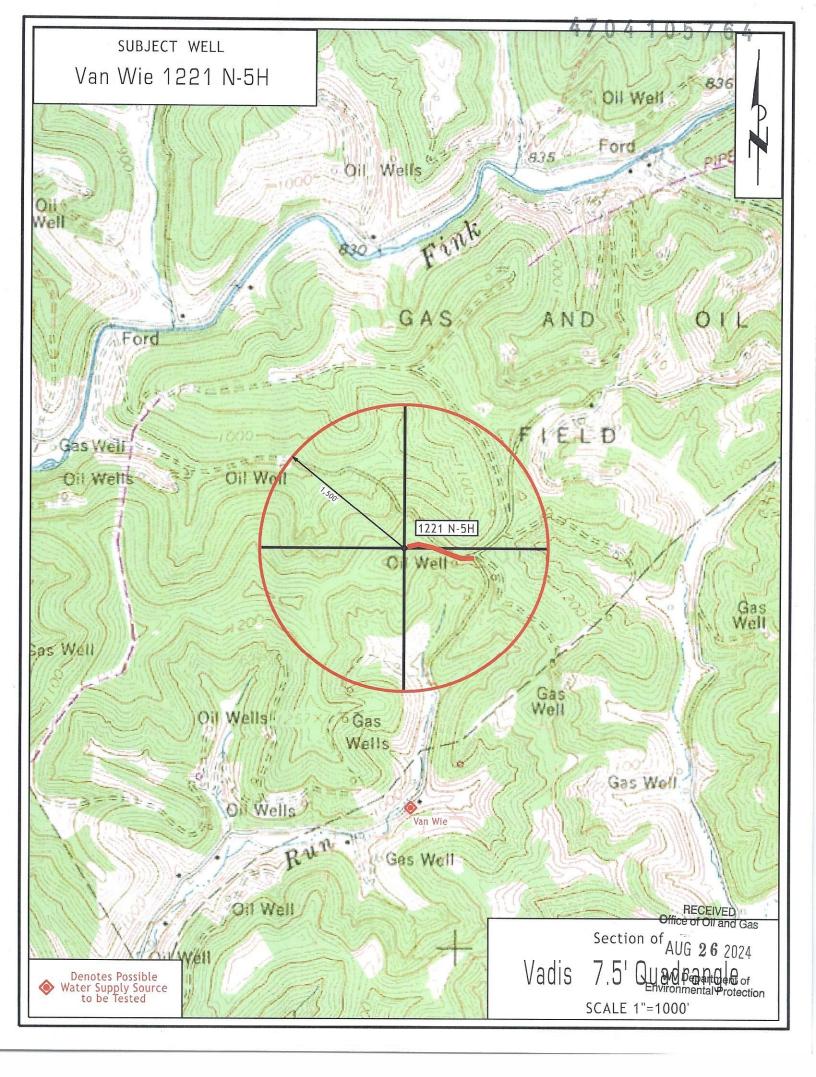
5260 Dupont Road

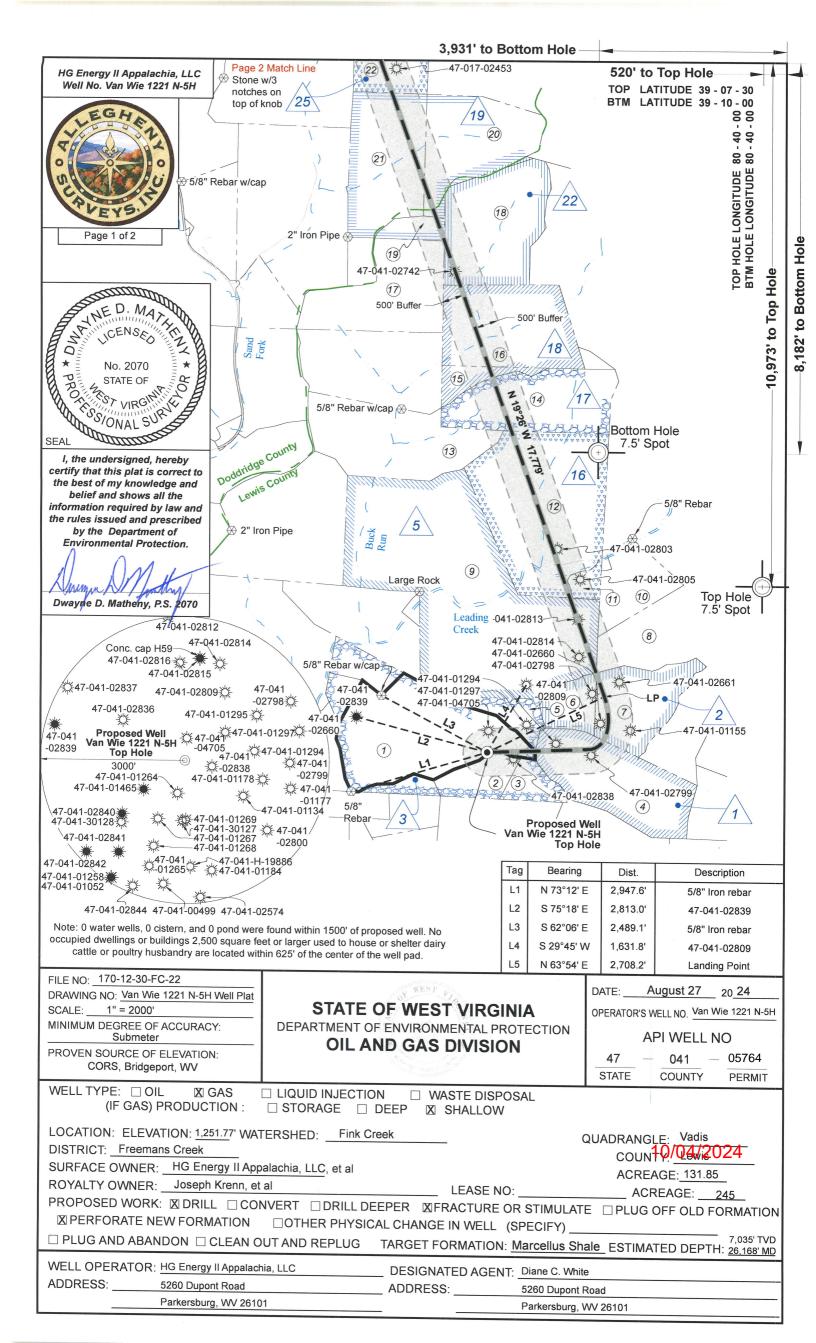
AUG 26 2024

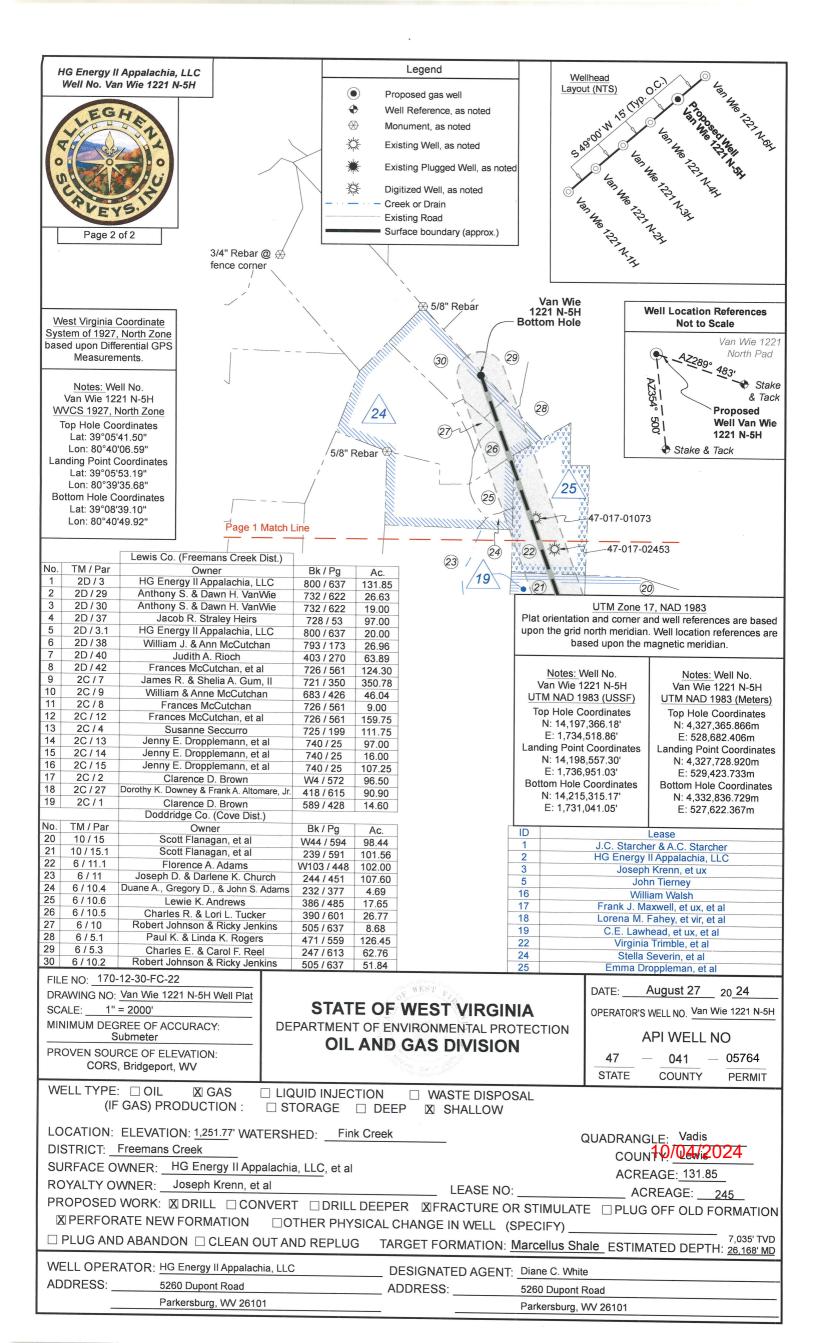
Parkersburg, WV 26101

WV Department of Environmental Protection

Kenneth Greynolds, O, o Newton Greynolds and Newton Greynolds St. O Newton Greynolds St. O







Operator's Well No.	Van Wie 1221	N-25H
Obciator S Well No.	Vall VIIO IZZ I	11-011

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

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

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

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

See Attached Sheets

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

RECEIVED
Office of Oil and Gas

AUG 26 2024

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

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

Page 1 of 9

HG Energy II Appalachia, LLC
Van Wie 1221 N-5H Lease Chain

4					HG Energy II Appalachia, LLC Van Wie 1221 N-5H Lease Chain	RECEIVED of Oil and Gas 1.2 6 2024 epartment of ental Protection			
10	1221N Tract	LEGACY LEASE NUMBER	ТАХ МАР	LEASE NUMBER	GRANTOR/LESSOR	AUG 2	ROYALTY	DEED BOOK	PAGE
San and					J. C. STARCHER AND A. C. STARCHER	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	39	201
Manager,					SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	52	239
				1	SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	ASSIGNMENT	156	570
					SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	166	494
0					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
Hillon.					CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
1					CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
man			8		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9	628
	1	FK002931	03-002D-0037-0000	FK002931	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
	•			111002551	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY INC	NOT LESS THAN 1/8	692	570
					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
s					DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	170
					DOMINION ENERGY TRANSMISSION, INC.	EASTERN GAS TRANSMISSION AND STORAGE, INC.	MERGER/NAME CHANGE	wvsos	
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	798	42
	2	FK079442 FEE	03-002D-0038-0000 03-002D-0040-0000 p/o 03-002D-0042-0000	FK079442 FEE	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746
					JOSEPH KRENN AND EMILY E. KRENN, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	33	
- 16					WILLIAM A. LOUWTHER	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8		232
			03-002D-0003-0000 03-002D-0003-0001		SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	ASSIGNMENT	42	401
					SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	156	570
					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	166	494 89
	1				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	294	
					CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	425	127
					CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	630
- 1					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	628
		EKOE 403E			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.		672	154
	3	FK054825	03-002D-0003-0003	Q100903000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY INC	LIMITED PARTIAL ASSIGNMENT (50%) NOT LESS THAN 1/8	684	57
		FK079440 FEE	03-002D-0028-0000	MM C - 1919 3 3-310	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	692	570
			03-002D-0029-0000 03-002D-0030-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT (32%)	712	848
			03-0021/-0030-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	717	1
	-	1			DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.		722	170
				L	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	WVSOS 723	499
	1				DOMESTICS OF THE PROPERTY OF T		THIRD AMENDMENT TO MEMORANDUM OF		
	1	1		5 1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	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
	1			1	JOHN TIERNEY	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	39	29
				1	SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	ASSIGNMENT	156	570
				1 1	SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	166	494
					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
	1			1	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
					CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
1	J		1		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	

D.51	NA.	Ï	T	1	DOMINION TRANSMISSION, ING				
		FK082810			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
C) /5	FK056828	03-002C-0007-0000	Q100341000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
100		1 11050020			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
В				1	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
LC	>				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
garage.	9				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
Salar S			1		DOMINION SUSPECTOR OF THE PROPERTY OF THE PROP	HG ENERGY II APPALACHIA, LIC SPECIFIC CITY	SECOND AMENDMENT TO MEMORANDUM OF		
12 person	all and a second				DOMINION ENERGY TRANSMISSION, INC.	- A - C ()	FARMOUT AGREEMENT	723	499
	GV-				DOMINION SUSPENIES OF THE LUCY WAS A STATE OF THE STATE O	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF		
Dog		1			DOMINION ENERGY TRANSMISSION, INC.	III CINCROT II APPALACHIA, LLC.	FARMOUT AGREEMENT	734	558
C)	-			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
200-					WILLIAM WALSH	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	39	1
THE REAL PROPERTY.	ta .	1			SOUTH PENN OIL COMPANY	300111121111111111111111111111111111111	ASSIGNMENT	156	570
Company of	ng .				SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	166	494
		1			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
					CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
					CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
					CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9	628
		EK0E4031	03 0036 0000 0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
	/16	FK054831 FK083808	03-002C-0008-0000	Q101031000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
		FKU838U8	03-002C-0012-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
- 1					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
					DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
							SECOND AMENDMENT TO MEMORANDUM OF		
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
							THIRD AMENDMENT TO MEMORANDUM OF		
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
-					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
		FK057667	03-002C-0013-0000	Q100495000	FRANK J. MAXWELL AND CLARA G. MAXWELL, HIS WIFE; RUTH M. JOHNSON AND LOUIS A. JOHNSON, HER HUSBAND; W. BRENT MAXWELL, JR. AND MARGUERITE MAXWELL, HIS WIFE; EVERETT W. MAXWELL AND RUBY FARR MAXWELL, HIS WIFE; HERRIET M. JARVIS AND HUGH JARVIS, HER HUSBAND; EMMA M. LATHAM AND J. FRANK LATHAM, HER HUSBAND; ISAAC H. MAXWELL AND ELLA LOUISE MAXWELL, HIS WIFE; THE UNION BANK OF CLARKSBURG, GUARDIAN OF JAMES HORNER DAVIS III AND WILLIAM MAXWELL DAVIS, MINORS, BY HUGH JARVIS, PRESIDENT; BLANCHE M. HARRISON AND S.R. HARRISON, JR., HER HUSBAND; CLAY MAXWELL AND BLANCHE S. MAXWELL, HIS WIFE; J.H. MAXWELL AND VIRGINIA E. MAXWELL, HIS WIFE; SUSIE P. KIGER AND L.E. KIGER, HER HUSBAND; INEZ WILSON, WIDOW; LEWIS M. WOLFE AND EDITH M. WOLFE, HIS WIFE; PEARL FLEMING AND A.W. FLEMING, HER HUSBAND; CHRISTINE M. THOMPSON AND CHARLES H. THOMPSON, HER HUSBAND; GRACE M. GAYLORD, WIDOW; MARY M. HARPER AND WILLIAM J. HARPER, HER HUSBAND; RUTH M. DAVIES, WIDOW; F.P. MAXWELL AND RETA MAXWELL, HIS WIFE; CARRIE V. MAXWELL AND HAYMOND MAXWELL, SR., HER HUSBAND; SUSAN MAXWELL TUTENBERG AND CHARLES TUTENBERG, HER HUSBAND; CLAUDE D. MAXWELL AND WINIFRED L. MAXWELL, HIS WIFE; CAROLYN M. WILLIAMS AND DAVID WILLIAMS,				
					HER HUSBAND, BY RETTA CARROLL, ATTORNEY-IN-FACT; AND A.F. MCCUE AND ALICE M. MCCUE, HIS WIFE	HODE NATURAL CAS COMBANY	NOT 1500 THAT IS		987, 970
,					HOPE NATURAL GAS COMPANY	HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	179	55
		l			CONSOLIDATED GAS SUPPLY CORPORATION		CONFIRMATORY DEED	294	89
10.40	•				L-T-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-1-D-	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127

			ļ	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
	1			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
		1		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		1				SECOND AMENDMENT TO MEMORANDUM OF	***************************************	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC		723	
					Ga Ga		725	
				DOMINION ENERGY TRANSMISSION, INC.		FARMOUT AGREEMENT	734	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	
				LORENA M. FAHEY AND W. C. FAHEY, HER HUSBAND; JOHN DROPPLEMAN; MARY MULLOOLY; JAMES P. DROPPLEMAN AND BERTHA F. DROPPLEMAN, HIS WIFE; J. P. DROPPLEMAN, COMMITTEE OF MARY LUNSFORD DROPPLEMAN AND GRACE M. DROPPLEMAN, INCOMPETENT; CLARA G. DROPPLEMAN; CATHERINE B. GEARY AND ROLAND R. GEARY, HER HUSBAND; EDNA BRONUSHAS AND I. B. BRONUSHAS, HER HUSBAND; ELLA KEIHE AND CLARENCE FRANK KEIHE, HER HUSBAND; HELEN A. DROPPLEMAN; PAUL DROPPLEMAN AND SIGALEE DROPPLEMAN, HIS WIFE; HELEN M. TAYLOR AND L. W. TAYLOR, HIS WIFE; VIRGINIA ARMSTRONG; DONALD DROPPLEMAN;	RECENOMINE OF OIL WV Departmental			
				JEAN DROPPLEMAN; AND JEAN DROPPLEMAN, TRUSTEE FOR				
1				BERNARD DROPPLEMAN AND MARY DROPPLEMAN, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	228	
18	FK065325	03-002C-0014-0000	0101000000	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
- 10	11003323	03-002C-0015-0000	Q101060000	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	91	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	
				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	1611
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	
						THIRD AMENDMENT TO MEMORANDUM OF	, 20	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	1000
				C. E. LAWHEAD AND ERMA R. LAWHEAD, HIS WIFE; AND LAURA LYDEN, WIDOW	A T 0400			
				A. T. CARR	A. T. CARR	NOT LESS THAN 1/8	61	
					JAMES T. COX	ASSIGNMENT	61	
				A. T. CARR	HOMER ROBINSON AND PHIL SHIPP	ASSIGNMENT	86	
				HOMER ROBINSON AND PHIL SHIPP	R. WAYNE CHRISTENSON	ASSIGNMENT	87	
		_		JAMES T. COX, DECEASED	BRUGGERMAN	LAST WILL AND TESTAMENT	53	
				J. JOSEPH COX, DECEASED	CLARA ANN MORAN AND MARY JO BRUGGEMAN [sic]	LAST WILL AND TESTAMENT	U	
				ALTA SHIPP, SURVIVOR OF HERSELF AND PHIL SHIPP, DECEASED	ROCKWELL PETROLEUM COMPANY	ASSIGNMENT	111	
				HOMER ROBINSON AND JEWEL ROBINSON HIS WIFE	ROCKWELL PETROLEUM COMPANY	ASSIGNMENT	111	
				ROCKWELL PETROLEUM COMPANY	CPC 79-H LTD	ASSIGNMENT	112	
				ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	ASSIGNMENT	112	
				ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	ASSIGNMENT	112	
				CARSON PETROLEUM COMPANY	ROYAL W. CARSON JR	ASSIGNMENT	112	
	1			CARSON PETROLEUM COMPANY	CPC 79-H LTD	ASSIGNMENT	112	

. welle		-	1	I	CARSON PETROLEUM COMPANY	ROYAL W. CARSON III	ASSIGNMENT	142	200
A. A					GEORGE P. STUBBS AND R. WAYNE CHRISTENSON, TRUSTEE	ROCKWELL PETROLEUM COMPANY	ASSIGNMENT ASSIGNMENT	112	309
(5)					WORL, ROYAL W. CARSON JR, AND EMILY CARSON			123	98
1900					CARSON PETROLEUM COMPANY	DEVON ENERGY CORPORATION (NEVADA) GLENVILLE 1979	ASSIGNMENT	126	434
					CPC 79-H LTD, BY CARSON PETROLEUM, ITS GENERAL PATNER		ASSIGNMENT	128	184
15					MASON	MARY A. CALLAN AND R.C. GRAYSON: 1.6% ALICE E. MASON	ASSIGNMENT	133	307
					DEVON ENERGY CORPORATION, A NEVADA CORPORATION; DEVON	. u	ASSIGNMENT	135	354
Manuel					ENERGY CORPORATION AS ATTORNEY-IN-FACT FOR VAN A. BARBER &	12 10 10 10 10 10 10 10 10 10 10 10 10 10			
- miles		<u>.</u>			PAT BARBER; HENRY A. BITTNER; FRED J. AND L. DARLENE CASOTTI;	ED and Ga 2024 ent of rotectic			
	-				JOHN F. CHANEY; THOMAS E. CORSON; GOLSETH, YOUNG &YOUNG 79	SCEIV folise			
Comp	19	4000000	02-0010-0015-0000		H; MARY A. CALLAN AND R. C. GRAYSON; GREENS INDUSTRIAL PARK	Sig ∞ \$ 20			
No.		ARC-9707	02-0010-0015-0001	ARC-9707	COMPANY; JOHN HAMER AND GAYLE G. HAMER; JAMES C. HARRIS;	G G G G G G G G G G G G G G G G G G G			
11					JEANNE N. HOLLENBECK; GEORGE H. JENNINGS; GEORGE R. JOYCE;	Office of Oil and AUG 26 202 WV Department of ironmental Protect			
					JULIAN KELLY AND BARBARA KELLY; NEIL C. KING; ALICE E. MASON,	O A SE			
					TRUSTEE; DALE W. MATTSON; HAROLD B. METCALF; DERLAND	<u></u>			
					MOORE; LYNN L. MEYERS; CLINTON B. NORTHCUTT; ROY SCHENK;	20000			
					WESSON SCROGGIN AND BARBARA SCROGGIN; FREDERICK C.				
					STREICH; PETER B. TAYLOR; AND DONALD V. H. WALKER	DEVON INVESTORS LTD	ASSIGNMENT	144	488
					ALVIN REEVES, JR. AND PAM L. REEVES	DEVON INVESTORS LTD	ASSIGNMENT	148	519
					B. W. HAMMERT III AND LOIS M. HAMMERT, HIS WIFE	CONTINENTAL PETROLEUM COMPANY	ASSIGNMENT	147	258
	<u> </u>				DISTRICT OF OKLAHOMA	LOCATOR'S OIL & GAS INC	ASSIGNMENT	157	628
					DEVON ENERGY CORPORATION (DELAWARE)	DEVON ENERGY CORPORATION (NEVADA)	ASSIGNMENT	163	69
					GLENVILLE 1979	CPC CONSOLIDATED PROGRAM	ASSIGNMENT	166	622
					DEVON ENERGY CORPORATION (NEVADA)	ABARTA OIL & GAS CO INC	ASSIGNMENT	178	682
					ROBERT R. JONES CONTINENTAL PETROLEUM, AND ROBERT R. JONES	ROBERT R. JONES II	ASSIGNMENT	179	383
		3			J. FRANK & PHILLIS PARMER	ABARTA OIL & GAS CO INC	ASSIGNMENT	180	7
- 1					GWEN G. ROBERSON REINARZ	ABARTA OIL & GAS CO INC	ASSIGNMENT	180	168
1					MERIDIAN EXPLORATION CORP AND ALLEGHENY INTERESTS INC	ABARTA OIL & GAS CO INC	ASSIGNMENT	180	191
4					AND ROBERT R. JONES D/B/A CONTINENTAL PETROLEUM COMPANY	ABARTA OIL & GAS CO INC	ASSIGNMENT	184	434
1					ABARTA OIL & GAS CO INC	CONTINENTAL PETROLEUM LLC	ASSIGNMENT	191	128
					MARY JO BRUGGERMAN	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	261	463
1					CLARA ANN MORAN	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	271	568
					1979	ANTERO RESOURCES APPALACHIAN CORPORATION ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	271	572
					ANTERO RESOURCES APPALACHIAN CORPORATION	ANTERO RESOURCES CORPORATION ANTERO RESOURCES CORPORATION	ASSIGNMENT MERCER (MANGE	275	83
					ANTERO RESOURCES CORPORATION	HG ENERGY II APPALACHIA, LLC	MERGER/NAME CHANGE	WVSOS	
					CP LEASE HOLDINGS & ROBERT R JONES II	HG ENERGY II APPALACHIA, LLC	PARTIAL ASSIGNMENT ASSIGNMENT	508	442
					LOCATOR'S OIL AND GAS, INC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	795 794	485 808
					VIRGINIA TRIMBLE, A CO-PARTNER IN THE PARTNERSHIP FIRM OF PEEL		- CONTROLLER	754	808
					TREE GAS COMPANY; AND VICTORIA B. SHAHADY AND GEORGE				
			ľ		SHAHADY, HER HUSBAND	ROCKWELL PETROLEUM COMPANY	NOT LESS THAN 1/8	380	91
					ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	ASSIGNMENT	382	62
					ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	ASSIGNMENT	382	64
1					ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	ASSIGNMENT	382	66
					ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	ASSIGNMENT	382	68
1					ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	ASSIGNMENT	382	70
					ROCKWELL PETROLEUM COMPANY	MARK R WORL	ASSIGNMENT	389	631
					ROCKWELL PETROLEUM COMPANY	ROBERT R. JONES	ASSIGNMENT	396	485
		1			CARSON PETROLEUM COMPANY CARSON PETROLEUM COMPANY	ROYAL W. CARSON JR	ASSIGNMENT	381	513
					CARSON PETROLEUM COMPANY CARSON PETROLEUM COMPANY	ROYAL W. CARSON IR	ASSIGNMENT	381	515
		l			CARSON PETROLEUM COMPANY	ROYAL W. CARSON JR ROYAL W. CARSON JR	ASSIGNMENT	381	517
					CARSON PETROLEUM COMPANY	CPC 79-H LTD	ASSIGNMENT ASSIGNMENT	381	519
1	1				CARSON PETROLEUM COMPANY	CPC 79-H LTD	ASSIGNMENT	381	568
•						0.075 11 11 15	ASSIGNIVIENT	381	566

d				CARSON PETROLEUM COMPANY	CPC 79-H LTD	ASSIGNMENT	201	real.
				CARSON PETROLEUM COMPANY	CPC 79-H LTD	ASSIGNMENT	381	562
1				CARSON PETROLEUM COMPANY	ROYAL CARSON III	ASSIGNMENT	381	564
100				CARSON PETROLEUM COMPANY	ROYAL CARSON III 22 5	ASSIGNMENT	381 381	580
Back of				CARSON PETROLEUM COMPANY	ROYAL CARSON III 5 7 6 6	ASSIGNMENT	381	572 574
				CARSON PETROLEUM COMPANY		ASSIGNMENT		
Elements		1		CARSON PETROLEUM COMPANY	DOVAL CARCOLLIN	ASSIGNMENT	381 381	576
*		1		CARSON PETROLEUM COMPANY	ROYAL CARSON III SI S E E E	ASSIGNMENT	381	578 570
DO IN SEC.				CARSON PETROLEUM COMPANY	GLENVILLE 1070 WO	ASSIGNMENT	412	736
				CARSON PETROLEUM COMPANY		ASSIGNMENT	412	735
		03-002B-0005-0000		CARSON PETROLEUM COMPANY	GLENVILLE 1979	ASSIGNMENT	412	738
2 22	BHE-1	03-002E-0003-0000	BHE-1	CARSON PETROLEUM COMPANY	GLENVILLE 1979	ASSIGNMENT	412	737
E SE SECOND		03-0020-0001-0000		CARSON PETROLEUM COMPANY	THOMAS E. EVANS	ASSIGNMENT	381	560
				CARSON PETROLEUM COMPANY	HAL MCKNIGHT	ASSIGNMENT	382	380
				ROCKWELL PETROLEUM COMPANY (ROBERT R. JONES AND MACK R.		7.03/GHMEH	362	360
				WORL, AS SOLE PARTNERS, ROBERT R. JONES, INDIVIDUALLY; AND			1	1
				MACK R. WORL, INDIVIDUALLY)	CARSON PETROLEUM CORPORATION	ASSIGNMENT	402	546
				CARSON PETROLEUM CORPORATION, ROYAL W. CARSON III, MACK R.		7 ISSISTANCE VI	402	340
		1		WORL, ROYAL W. CARSON JR, AND EMILY CARSON	DEVON ENERGY CORPORATION	ASSIGNMENT	406	266
				THOMAS E. EVANS	DEVON ENERGY CORPORATION	ASSIGNMENT	408	140
				CPC 79-H LTD, BY CARSON PETROLEUM, ITS GENERAL PATNER	DEVON ENERGY CORPORATION ET AL	ASSIGNMENT	421	460
		1		DEVON ENERGY CORPORATION ET AL	DEVON INVESTORS LTD	ASSIGNMENT	444	345
				ALVIN REEVES, JR. AND PAM L. REEVES	DEVON INVESTORS LTD	ASSIGNMENT	457	79
				DEVON INVESTORS LTD	DEVON ENERGY CORPORATION (DELAWARE)	ASSIGNMENT	470	584
		1		DEVON ENERGY CORPORATION (DELAWARE)	DEVON ENERGY CORPORATION (NEVADA)	ASSIGNMENT	490	562
		1			ABARTA OIL & GAS CO INC (90%) AND ALLEGHENY INTERESTS		133	302
		1		DEVON ENERGY CORPORATION (NEVADA)	INC (10%)	ASSIGNMENT	539	181
				B. W. HAMMERT III AND LOIS M. HAMMERT, HIS WIFE	CONTINENTAL PETROLEUM COMPANY	ASSIGNMENT	449	547
				CONTINENTAL PETROLEUM, AND ROBERT R. JONES	ABARTA OIL & GAS COMPANY INC	ASSIGNMENT	542	350
				J. FRANK & PHILLIS PARMER	ABARTA OIL & GAS COMPANY INC	ASSIGNMENT	544	257
				GWEN G. ROBERSON REINARZ	ABARTA OIL & GAS COMPANY INC	ASSIGNMENT	Doddridge 180	191
				DEVON ENERGY CORPORATION (NEVADA)	ROBERT R. JONES	PARTIAL ASSIGNMENT	539	133
		1		ROBERT R. JONES, JUDITH L. JONES, AND ROBERT R. JONES D/B/A				
		1		CONTINENTAL PETROLEUM COMPANY	CONTINENTAL PETROLEUM LLC	ASSIGNMENT	571	574
				ABARTA OIL & GAS COMPANY INC	BETA HELIX ENERGY LLC	ASSIGNMENT	765	446
				BETA HELIX ENERGY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	788	266
		1 1		CP LEASE HOLDINGS & ROBERT R JONES II	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	795	485
		1		HAL MCKINGHT	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	AB 8	722
		 		LOCATOR'S OIL AND GAS, INC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	794	808
				STELLA SEVERINI A MUDOWI AND ADDEN LASUSCIETA A SUCCESSION ASSISTANCE OF THE SUCCESSION ASSISTANCE OF T				
		1		STELLA SEVERIN, A WIDOW; AND ARDEN J. ASHCRAFT, A SINGLE MAN DONALD S. GARVIN		NOT LESS THAN 1/8	93	344
		1		DONALD S. GARVIN	JOHN R. WARREN	ASSIGNMENT	93	723
		1			CLAUDE DARTON IONN DUNCTURE			
					CLAUDE BARTON, JOHN CHIAF, JOE H. CUNNINGHAM, JR.;		1	
		1			DEVONSHIRE INVESTMENT CO., H. L. HODGES, J. D. HODGES,		/ I	
		1			STAN LITTLETON, COLONEL H. NELSON, PETER G. PIERCE,		/ I	
				JOHN R. WARREN	VIRGINIA PIERCE, CHARLES PURCELL, JR.; H. E. RAINBOLT,	1001011115115		
				TOM G. YARBRO	HARRY SCHNITTGER, H. SETH WOOD, TOM G. YARBRO	ASSIGNMENT	94	501
				CHARLES PURCELL, JR	JOHN R. WARREN, DBA, WARREN DRILLING COMPANY	ASSIGNMENT	99	95
				STAN LITTLETON	JOHN R. WARREN, DBA, WARREN DRILLING COMPANY	ASSIGNMENT	99	287
				H. L. HODGES	N.R. LITTLETON	ASSIGNMENT	100	248
		1		CLAUDE BARTON, JOHN CHIAF, JOE H. CUNNINGHAM, JR;	JOHN R. WARREN	ASSIGNMENT	104	253
				DEVONSHIRE INVESTMENT CO., J. D. HODGES, N. R. LITTLETON.				
		1		COLONEL H. NELSON, PETER G. PIERCE, H. E. RAINBOLT, HARRY				
		1		SCHNITTGER, ROMAYNE WARREN, H. SETH WOOD	JOHN R. WARREN, DBA, WARREN DRILLING COMPANY	ACCICAINATAIT		
				very normanic transcen, its sent wood	POTTER N. WARREN, DOA, WARREN DKILLING COMPANY	ASSIGNMENT	104	265

1	33	I I	1	i i					
and and			02-0006-0010-0000		CLAUDE BARTON, JOHN CHIAF, JOE H. CUNNINGHAM, JR;				
-			02-0006-0010-0001		DEVONSHIRE INVESTMENT CO., J. D. HODGES, N. R. LITTLETON,				
0	24		THRU		COLONEL H. NELSON, PETER G. PIERCE, VIRGINIA PIERCE, H. E.	Section Advanced Company and Company C			1
		C	02-0006-0010-0006		RAINBOLT, HARRY SCHNITTGER, H. SETH WOOD	JOHN R. WARREN, DBA, WARREN DRILLING COMPANY	ASSIGNMENT	104	270
The same of			(DODDRIDGE)		JOHN R. WARREN, DBA WARREN DRILLING COMPANY	ROCKWELL PETROLEUM COMPANY	ASSIGNMENT	104	254
		1	A Service Control of the Control of		ROCKWELL PETROLEUM COMPANY	CPC 78-E	ASSIGNMENT	107	697
					ROCKWELL PETROLEUM COMPANY	CPC 78-E	ASSIGNMENT	107	698
0					ROCKWELL PETROLEUM COMPANY	ROBERT R. JONES MACK R. WORL DEVON ENERGY CORPORATION DEVON ENERGY CORPORATION ROBERT R. JONES ROBERT R. JONES	ASSIGNMENT	127	224
19501					ROCKWELL PETROLEUM COMPANY	MACK R. WORL	ASSIGNMENT	129	636
(Manager)					CARSON PETROLEUM CORPORATION, ROYAL W. CARSON III, MACK R.	To to the contract of the cont		123	030
Opposition of the last					WORL, ROYAL W. CARSON JR, AND EMILY CARSON	DEVON ENERGY CORPORATION DISCORDED IN LONGS DEVON ENERGY CORPORATION DEVON ENERGY CORPORATION	ASSIGNMENT	126	434
1		1			DEVON ENERGY CORPORATION (NEVADA)	ROBERT R. JONES	ASSIGNMENT	179	373
					DOBERT D. JONIES INDIVIDIALLY HIDITLE FONES INDIVIDIALLY		7-95/GHIVIEHT	1/5	3/3
1					ROBERT R. JONES, INDIVIDUALLY, JUDITH L. JONES, INDIVIDUALLY,	CONTINENTAL PETROLEUM LLC			
Controllers					AND ROBERT R. JONES D/B/A CONTINENTAL PETROLEUM COMPANY	CONTINENTAL PETROLEUM LLC	ASSIGNMENT	191	128
					ROCKWELL PETROLEUM COMPANY; ROCKWELL PETROLEUM	山			
					CORPORATION; ROCKWELL RESOURCES, LLC; MACKR. WORL; MARCIE				
					WORL KIRCHBERG; AND RICHARD CRAIG WORL, AND THEIR				
					AFFILIATES AND COMPANIES	ROBERT R. JONES	ASSIGNMENT	260	429
- 1					CONTINENTAL PETROLEUM, AND ROBERT R. JONES	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	267	497
		<u> </u>			ROCKWELL RESOURCES LLC	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	267	244
		1			ANTERO RESOURCES APPALACHIAN CORPORATION	ANTERO RESOURCES CORPORATION	MERGER/NAME CHANGE	wvsos	
- 1					ANTERO RESOURCES CORPORATION	HG ENERGY II APPALACHIA, LLC	PARTIAL ASSIGNMENT	531	124
	-33				EMMA DROPPLEMAN, WIDOW; AND EMMA TERESA MORAN,				
					EXECUTRIX OF THE ESTATE OF HENRY J. DROPPLEMAN	ROCKWELL PETROLEUM COMPANY	NOT LESS THAN 1/8	108	464
					ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	ASSIGNMENT of well and 30 acres	110	550
	1				CARSON PETROLEUM CORPORATION	CPC 79-G LTD	ASSIGNMENT of well and 30 acres	112	287
					CARSON PETROLEUM CORPORATION	HS II-B LTD	ASSIGNMENT of well and 30 acres	112	223
					CARSON PETROLEUM CORPORATION	CPC 79-H LTD	ASSIGNMENT of well and 30 acres	112	293
					CARSON PETROLEUM CORPORATION	ROYAL W. CARSON III	ASSIGNMENT of well and 30 acres	112	304
		l l				VAN AND PAT BARBER (0.016000); MARY A. CALLAN AND R.C.	ASSIGNMENT OF Well and So acres	112	304
						GRAYSON (0.016000); DEVON ENERGY CORPORATION			
						200			
						(0.1280000); JACK E. COUNTS, JR. (0.016000); JOHN AND GAYLE			
						HAMER (0.0080000); J. FRANK AND PHYLLIS PARMER JT/WRS.			
1						(0.016000); HAROLD B. METCALF: (0.016000); DALE W.			1
1						MATTSON (0.016000); FRED J. AND L. DARLENE CASOTTI			
- 1						(0.016000); NEIL C. KING (0.016000); PETER B. TAYLOR			
						(0.0080000); LYNN L. MYERS, M.D. (0.016000); KENNETH			
			1			PENNELL OR BRIDGITTE PENNEL FT/WRS (0.016000); B. W.			
						HAMMERT, III (0.0240000); JAMES C. HARRIS C/O HARRIS			
		1	1			PACKING CO. (0.0240000); GEORGE H. JENNINGS, M.D.			
- 1						(0.016000); JOHN F. CHANEY (0.016000); ROBERT R. AND			
- 1	1					JUDITH L. JONES (0.0960000); GREENS INDUSTRIAL PARK CO.			
						(0.15600000); JEANNE N. HOLLENBECK (0.016000); DONALD V.			1
						H. WALKER: (0.016000); DERLAND MOORE (0.016000); THOMAS			
	1					E. CORSON (0.0400000); ALICE E. MASON, EXECUTRIX ESTATE			1
						OF RICHARD DEAN MASON (0.0400000); FRANCES D. OAKES,			
						M.D. (0.016000); ALVIN REEVES, JR. (0.0240000); GWEN G.			1
						ROBERSON (0.016000); CLINTON B. NORTHCUTT (0.016000);			1
						ROY SCHENK (0.0400000); WESSON AND BARBARA SCOGGIN			1
- 1	1					(0.016000); FREDRICK C. STREICH (0.0240000); GEORGE R.			1
	1		a l			JOYCE (0.016000); GOLSETH, YOUNG AND YOUNG (0.0320000);			1
	1					HENRY A. BITTNER (0.016000); JULIAN KELLY AND BARBARA			1
- 1						KELLY JT/WRS: (0.016000).			
	1					TREET 31/ 44/13. (O.O.TOOOO).			- 1
	1				CPC 79-H LTD., CARSON PETROLEUM CORPORATION		ASSIGNMENT (112-293)	122	207
				L	- , a mastri Emisees in com on on one		MODIOIAIAIEIAI (TTS-539)	133	307

De la
0
The same of
LO
(0)
(September 1)
Daniel Control
Control
O Wille

				7		
	25	Fi	(108088	02-0006 (DOD	-0011-0001 DRIDGE)	

ALICE E. MASON, AS EXECTURIX OF THE ESTATE OF RICHARD DEAN	ALICE E. MASON, AS TRUSTEE UNDER A LIVING TRUST			***************************************
MASON	AGREEMENT WITH ALICE E. MASON	ASSIGNMENT (112-287)	135	36
ALICE E. MASON, AS EXECTURIX OF THE ESTATE OF RICHARD DEAN	ALICE E. MASON, AS TRUSTEE UNDER A LIVING TRUST			
MASON	AGREEMENT WITH ALICE E. MASON	ASSIGNMENT (112-293)	135	354
DEVON ENERGY CORPORATION AND DEVON RESOURCE INVESTORS	DEVON INVESTORS LTD	MERGER/NAME CHANGE	wvsos	
DEVON ENERGY CORPORATION; DEVON ENERGY CORPORATION AS				
ATTORNEY-IN-FACT FOR REGINALD K. BAILEY; VAN A. BARBER & PAT		1		
BARBER; DONALD M. BATES; HENRY A. BITTNER; FRED J. AND L.				
DAPELENE CASOTTI; JOHN F. CHANEY; RONALD CIESLAK; THOMAS E.				
CORSON; PATRICIA N. DAVIS; PETER C. DIETZE, TRUSTEE; LESLIE				
FOWLER AND JANE FOWLER; RONALD W. GILCHRIST, JR., M.D.;	S S	ion		
GOLSETH, YOUNG AND YOUNG 79-H; GOLSETH, YOUNG AND YOUNG	FD and Ga	व्रं व		
79-G; MARY A. CALLAN AND R. C. CALLAN; GREENS INDUSTRIAL PARK	20	₹ ₽		
COMPANY; JOHN HAMER AND GAYLE G. HAMER; JAMES C. HARRIS; M.	0 iia	<u> </u>		
STANLEY HENDRICKSON; JEANNE N. HOLLENBECK; HALES S. IRWIN;	20 0	at ta		
GEORGE H. JENNINGS; GEORGE R. JOYCE; JULIAN KELLY AND BARBARA	RECEIVED Se of Oil and Gas	j ja		
KELLY; NEIL C. KING; KWBJ	PEC Office of UG 2	Environmental Protection		
OIL PROPERTIES; LARK INVESTMENTS; EUGENE R. LOVE; ALICE E.	6 4 3	viic		
MASON, TRUSTEE; DALE W. MATTSON; DONALD F. MENK; HAROLD B.	V-051	E E		
METCALF; MILTON W. MEYER; DERLAND MOORE; LYNN L. MEYERS;				
WARREN D. MCPHEE; JOHN L. QUEBEDEAUX; CLINTON B.				
NORTHCUTT; ROY SCHENK; WESSON SCROGGIN AND BARBARA SCROGGIN; FREDERICK C. STREICH; PETER B. TAYLOR; JOHN				
E. TOUHEY; DONALD V. H. WALKER; AND JO ANN YATES				
E. TOOTIET, DONALD V. H. WALKER, AND JO ANN TATES				
	DEVON INVESTORS LTD	ASSIGNMENT	144	488
DEVON INVESTORS LTD., A LIMITED PARTNERSHIP, OF WHICH DEVON				
ENERGY CORPORATION (NEVADA), A NEVADA CORPORATION, IS THE				
SOLE GENERAL PARTNER	DEVON ENERGY CORPORATION, A DELAWARE CORPORATION	ASSIGNMENT	156	436
B.W. HAMMERT III AND LOIS M. HAMMERT, HIS WIFE	CONTINENTAL PETROLEUM COMPANY	ASSIGNMENT	147	258
	ABARTA OIL & GAS CO., INC (90%) AND ALLEGHENY INTERESTS			
CONTINENTAL PETROLEUM COMPANY AND ROBERT R. JONES	INC (10%)	ASSIGNMENT	180	7
CWEN C. BODEDCON DEIMARZ	ABARTA OIL & GAS CO., INC (90%) AND ALLEGHENY INTERESTS			0.020
GWEN G. ROBERSON REINARZ	INC (10%)	ASSIGNMENT	180	191
J. FRANK & PHILLIS PARMER	ABARTA OIL & GAS CO., INC (90%) AND ALLEGHENY INTERESTS INC (10%)	ASSIGNMENT	190	1.00
3. TOUR & FIREIS FARMER	ABARTA OIL & GAS CO., INC (90%) AND ALLEGHENY INTERESTS	ASSIGNIVIENT	180	168
LESLIE W. BAXTER	INC (10%)	ASSIGNMENT	180	127
NANCY K. HYDE, TRUSTEE OF BANKRUPTCY COURT FOR THE WESTERN				
DISTRICT OF OKLAHOMA	LOCATOR'S OIL & GAS INC	ASSIGNMENT	157	628
LOCATORS OIL AND GAS INC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	518	532
CANDID OIL AND GAS INC/CANDID ENTERPRISES, COUNTS ENERGY,				
BEVERLY COUTNS ELLESS, AND JACK E. COUNTS, JR.	SHAMROCK OIL & GAS INC	ASSIGNMENT (112-287 and 112-293)	166	653-A
ROBERT R. JONES, INDIVIDUALLY, JUDITH L. JONES, INDIVIDUALLY,				
AND ROBERT R. JONES D/B/A CONTINENTAL PETROLEUM COMPANY	CONTINENTAL PETROLEUM LLC	ASSIGNMENT	191	128
SUSAN M. HENRY	ANTERO RESOUCES APPALACHIAN CORPORATION	ASSIGNMENT	274	151
HS II-B LTD	HS CONSOLIDATED ASSET PARTNERSHIP	ASSIGNMENT	139	439
HS II-B LTD	HS CONSOLIDATED GROWTH PARTNERSHIP	ASSIGNMENT	139	443
HS CONSOLIDATED ASSET PARTNERSHIP	HS RESOURCES INC	ASSIGNMENT	153	500
HS CONSOLIDATED GROWTH PARTNERSHIP	HS RESOURCES INC	ASSIGNMENT	153	477
HS RESOURCES INC, HS CONSOLIDATED ASSET PARTNERSHIP, HS				
CONSOLIDATED GROWTH PARTNERSHIP, HS/SBH JOINT VENTURE	DEVON ENERGY CORPORATION	ASSIGNMENT	150	408
ROCKWELL PETROLEUM COMPANY	ROYAL W. CARSON, JR.	ASSIGNMENT	158 114	582

-		CARSON PETROLEUM CORPORATION, ROYAL W. CARSON III, MACK I				
(0)		WORL, ROYAL W. CARSON JR, AND EMILY CARSON	DEVON ENERGY CORPORATION (NEVADA)	ASSIGNMENT	126	434
		CONTINENTAL PETROLEUM LLC AND ROBERT R. JONES	CP LEASE HOLDINGS LLC	ASSIGNMENT	439	312
		ROBERT R. JONES II AND CP LEASE HOLDINGS LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	520	563
LC	"	ROCKWELL PETROLEUM COMPANY AND CARSON PETROLEUM CORPORATION	DEVON ENERGY CORPORATION	ASSIGNMENT	128	277
	l v	DEVON ENERGY CORPORATION (DELAWARE)	DEVON ENERGY CORPORATION (NEVADA)	ASSIGNMENT	163	69
Money		DEVON ENERGY CORPORATION (NEVADA)	ABARTA OIL & GAS CO., INC (90%) AND ALLEGHENY INTERESTS INC (10%)	ASSIGNMENT	178	682
100		MERIDIAN EXPLORATION CORP AND ALLEGHENY INTERESTS INC	ABARTA OIL & GAS COMPANY, INC	ASSIGNMENT	184	434
		ABARTA OIL & GAS CO., INC	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	261	463
ac.		ANTERO RESOURCES CORPORATION	HG ENERGY II APPALACHIA, LLC	PARTIAL ASSIGNMENT	531	124

PECEIVED
Office of Oil and Gas
AUG 2 6 2024
WV Department of
Environmental Protection

HG Energy II Appalachia, 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-5H

Freemans Creek District, Lewis County

West Virginia

Dear Mr. Blevins:

HG Energy II Appalachia, LLC, is submitting the attached application for a new well work permit for the Van Wie 1221 well pad. As an authorized representative, I certify HG Energy II Appalachia, LLC, has the right to drill, stimulate, extract, produce and market the oil, gas or condensate for all leases through which the Van Wie 1221 laterals will drill through, including, any and all, roads crossed under as identified on the attached survey plat.

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

Very truly yours,

Diane White

Diane C. White

Enclosures

RECEIVED
Office of Oil and Gas

AUG 26 2024

WV Department of Environmental Protection

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

Notice is hereby give	n:
-----------------------	----

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

Paper: The Weston Democrat Newspaper Public Notice Date: Wednesday, May 22nd & Wednesday, May 29th, 2024 The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period. Applicant: HG Energy II Appalachia, LLC Well Number: Van Wie 1221 N-5H 5260 Dupont Road Address: Parkersburg, WV 26101 Business Conducted: Natural gas production. Location -State: West Virginia County: Lewis District: Freemans Creek Quadrangle: Vadis 7.5 UTM Coordinate NAD83 Northing: 4327365.9 UTM coordinate NAD83 Easting: 528682.4

Coordinate Conversion:

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.

RECEIVED Office of Oil and Gas AUG 26 2024

Reviewing Applications:

WV Department of 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 **NOTICE CERTIFICATION**

Date of Noti	ce Certification: 06/05/2023		API No. 47				
				Well No. Van	Wie 1221 N-5H		
				ame: Van Wie			
Notice has							
Pursuant to th	ne provisions in West Virginia Code	§ 22-6A, the Operator has provi	ded the req	uired parties v	with the Notice Forms listed		
State:	tract of land as follows:						
County:	West Virginia Lewis		Easting:	528682.4			
District:	Freemans Creek	ſ	Northing:	4327365.9			
Quadrangle:	Vadis WV 7.5's	Public Road Acces		CR 11 / 3 via Stra	aight Run Road		
Watershed:	Fink Creek	Generally used far	m name:	Van Wie	-		
watershed.	THIN CIGER						
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and set the owners of the surface description described by subsections (b) and (c), set surface owner notice of entry to surface owner notice of entry to surface owner notice of subsection (b), section sixteen of each 22-6A-11(b), the applicant shall thave been completed by the applicant	shall contain the following information bed in subdivisions (1), (2) and ection sixteen of this article; (ii) arrively pursuant to subsection (a) of this article were waived in water the proof of and certify to the	mation: (14 d (4), subs that the red), section to writing by	A certificati ection (b), sec quirement was en of this arti the surface ov	on from the operator that (i) ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wher; and Pursuant to West		
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY	perator has attached proof to thied parties with the following:	s Notice Co	ertification	OOG OFFICE USE ONLY		
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS		SECURITION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF	☐ RECEIVED/ NOT REQUIRED		
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	VEY or NO PLAT SURVEY	Y WAS CO	NDUCTED	☐ RECEIVED		
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PLUAS CONDUCTED or			RECEIVED/ NOT REQUIRED		
		☐ WRITTEN WAIVER BY (PLEASE ATTACH)	Y SURFAC	CE OWNER			
■ 4. NOT	TICE OF PLANNED OPERATION				☐ RECEIVED		
5. PUE	LIC NOTICE	Offic	RECEIVED be of Oil and	Gas	☐ RECEIVED		
■ 6. NO?	TICE OF APPLICATION		IG 26 20		☐ RECEIVED		
Dequired A	ttaahmanta	Environ	D epartment mental Prote	of ection			

Required Attachments:

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

Certification of Notice is hereby given:

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

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



Subscribed and sworn before me this 5th day of June, 2024

Notary Public My Commission Expires 11/2/326

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.

RECEIVED
Office of Oil and Gas
AUG 26 2024
WV Department of
Environmental Protection

4704105764

WW-6A (9-13)

API NO. 47OPERATOR WELL NO. Van Wid 1221 N1H 16 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 the	nan the filing date of permit application.	8 8
Date of Notice: 12/10/23 Date Permit Application Filed: 12/10/25 Notice of:	/13/23	
PERMIT FOR ANY CONSTRUCTION OF	PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virginia Code § 22-6A-1	0(b)	
☐ PERSONAL ☐ REGISTERED ☑ METE	HOD OF DELIVERY THAT REQUIRES A	
CORNECT LANGUE LA MILIT	EIPT OR SIGNATURE CONFIRMATION	
section seven of this article, and the surface of the tract on which the well is or is proposed to be loc oil and gas leasehold being developed by the proposed well work, i described in the erosion and sediment control plan submitted pursu operator or lessee, in the event the tract of land on which the well p more coal seams; (4) The owners of record of the surface tract or tr well work, if the surface tract is to be used for the placement, const impoundment or pit as described in section nine of this article; (5) have a water well, spring or water supply source located within one provide water for consumption by humans or domestic animals; and 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 applica records of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is not	or signature confirmation, copies of the application, the erosion and the well plat to each of the following persons: (1) The owners of record of cated; (2) The owners of record of the surface tract or tracts overlying the life the surface tract is to be used for roads or other land disturbance as fant to subsection (c), section seven of this article; (3) The coal owner, proposed to be drilled is located [sic] is known to be underlain by one or racts overlying the oil and gas leasehold being developed by the proposed truction, enlargement, alteration, repair, removal or abandonment of any Any surface owner or water purveyor who is known to the applicant to be thousand five hundred feet of the center of the well pad which is used to ded (6) The operator of any natural gas storage field within which the eet tenants in common or other co-owners of interests described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any to notice to a landowner, unless the lien holder is the landowner. W. Va. provide the Well Site Safety Plan ("WSSP") to the surface owner and any	
INAMITE: HG Energy II Appalachia, LLC	E Well Plat Notice is hereby provided to: not being noticed as they are the operator of COAL OWNER OR LESSEE Name: NA	f the
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 Address:	
SURFACE OWNER(s) (Road and/or Other Disturbance)	Address.	
Name:	SURFACE OWNER OF WATER WELL	
Address:	AND/OR WATER PURVEYOR(s)	
N-	Name: NA	
Name:Address:	Address:	
Address:	TORER ATOR OF ANY ANY MANY MANY MANY	
SURFACE OWNER(s) (Impoundments or Pits)	OPERATOR OF ANY NATURAL GAS STORAGE FIELD	
Name:	Name: BHE GT&S - Attn: Jamie Moore Address: 925 White Oaks Blvd	
Address:	Address: 925 White Oaks Bivd Bridgeport, WV 26330	
1 Kdul 655.		
	*Please attach additional forms if necessary	
9 ° ,	W	

RECEIVED Office of Oil and Gas

AUG 26 2024

WV Department of Environmental Protection WW-6A (8-13) API NO. 47-OPERATOR WELL NO. Van Wie 1221 NIH 16 512H Well Pad Name: Van Wie 1221

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

RECEIVED
Office of Oil and Gas

AUG 26 2024

WV Department of Environmental Protection

WW-6A (8-13)

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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 ation or construction of the applicant's proposed well work to the Secretary at:

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

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

> RECEIVED Office of Oil and Gas AUG 26 2024 WV Department of Environmental Protection

4704105764

WW-6A (8-13)

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

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

- The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
 (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

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

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

> RECEIVED Office of Oil and Gas AUG 26 2024 WV Department of Environmental Protection

WW-6A (8-13)

4704105764

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

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

Oil and Gas Privacy Notice:

The Office of Oil and Gas Provacy 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 Documber, 2023 My Commission Expires 7 31 2027

Operator Well No. Von Wie 1221 NIHE

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 $\S~22\text{-}6A\text{-}10$	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 sibeneath such tract that has filed a declaration pursuant to section owner of minerals underlying such tract in the county tax records and Sediment Control Manual and the statutes and rules related to Secretary, which statement shall include contact information, include the surface owner to obtain copies from the secretary.	ent to HG Energy 11. Appalachia LLC as they
Notice is hereby provided to: # Notice was not so are the Operat	21 0.
SURFACE OWNER(s)	☐ COAL OWNER OR LESSEE
Name: Anthony and Dawn Van Wie	Name: N/A
Address: 2700 Jones Road	Address:
Dunkirk, MD 20754	
Name: HG Energy II Appalachia, LLC	*
Address: 5260 Dupont Road	MINERAL OWNER(s)
Parkersburg, WV 26101 .	Name: Same as Surface Owners
Name:	Address:
Address:	
	*please attach additional forms if necessary
a plat survey on the tract of land as follows:	given that the undersigned well operator is planning entry to conduct
	ublic Road Access: CR11/3 via Straight Run Road
county.	Vatershed: Fink Creek
District.	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 docum obtained from the Secretary by visiting www.dep.wv.gov/oil-and Notice is hereby given by: Well Operator: He Appelachia, LLC Telephone: 904-420-1119	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 degas/pages/default.aspx. Address: 5260 Dupont Rad Parkersburg, WV 26101 Facsimile: 304-863-2752
Email: dwhite@hgenergylla.com Diane White	racsimile: 304-863-2752

Oil and Gas Privacy Notice:

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

RECEIVED Office of Oil and Gas

AUG 26 2024

WV Department of Environmental Protection

WW-6A4 (1/12)

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

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

Date of Noti	Requirement: Notice shall be provided at least ce: 01/05/2024 Date Permit	t TEN (10) days prior to filing a Application Filed: 01/15/2024	permit application.
Delivery me	thod pursuant to West Virginia Code § 22-6	A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIV]		STED	
receipt reque drilling a hor of this subsec subsection m	V. Va. Code § 22-6A-16(b), at least ten days prosted or hand delivery, give the surface owner notize to the surface owner notize was provided to the date the notice was provided to the day be waived in writing by the surface owner. The facsimile number and electronic mail address.	otice of its intent to enter upon the uant to subsection (a), section to be surface owner: <i>Provided</i> , how the notice, if required, shall include the surface owner.	he surface owner's land for the purpose of en of this article satisfies the requirements vever, That the notice requirements of this lude the name, address, telephone number.
Notice is he	reby provided to the SURFACE OWNE	R(s):	
	Energy II Appalachia, LLC *	Name: Anthony and Day	wn Van Wie
Address: 52	60 Dupont Road	Address: 2700 Jones Road	
Pa	rkersburg, WV 26101	Dunkirk, MD 207	54
State: County: District:	wner's land for the purpose of drilling a horizon West Virginia Lewis Freemans Creek	UTM NAD 83 Easting: Northing: Public Road Access:	528668.6 4327353.9 CR11 / 3 via Straight Run Road
Quadrangle:	Vadis WV 7.5'	Generally used farm name:	
Quadrangie.	Fink Creek	deficially used farili fiame:	Van Wie
Watershed:	Tillk Greek		
This Notice Pursuant to Y facsimile nur related to hoo located at 60	Shall Include: West Virginia Code § 22-6A-16(b), this notice and electronic mail address of the operatizontal drilling may be obtained from the Section 57 th Street, SE, Charleston, WV 25304 (304-9)	tor and the operator's authorized	ed representative. Additional information
This Notice Pursuant to Y facsimile nur related to hor located at 60: Notice is he	Shall Include: West Virginia Code § 22-6A-16(b), this notice and electronic mail address of the operatizontal drilling may be obtained from the Section 57 th Street, SE, Charleston, WV 25304 (304-9) reby given by:	tor and the operator's authorize retary, at the WV Department o 26-0450) or by visiting <u>www.de</u>	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
This Notice Pursuant to Market and the Market at 60 meters and the Motice is he Well Operator	Shall Include: West Virginia Code § 22-6A-16(b), this notice in the property of the operation of the second control of the second co	tor and the operator's authorized retary, at the WV Department of 226-0450) or by visiting www.de	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Diane White
This Notice Pursuant to Y facsimile nur related to hor located at 60: Notice is he	Shall Include: West Virginia Code § 22-6A-16(b), this notice in the present and electronic mail address of the operatizontal drilling may be obtained from the Section of Street, SE, Charleston, WV 25304 (304-9) reby given by: HG Energy Appalachia, LLC 5260 Dupont Road	tor and the operator's authorize retary, at the WV Department o 26-0450) or by visiting <u>www.de</u>	ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Diane White 5260 Dupont Road BECEIVED
This Notice Pursuant to Market facsimile nur related to hore located at 600 Notice is he Well Operato Address:	Shall Include: West Virginia Code § 22-6A-16(b), this notice in the property of the operation of the second drilling may be obtained from the Second form the Second form the Second form the Second form of the Second form o	tor and the operator's authorized retary, at the WV Department of 126-0450) or by visiting www.def Authorized Representative: Address:	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Diane White 5260 Dupont Road Parkersburg, WV 26101 RECEIVED Office of Oil and Gar
This Notice Pursuant to Y facsimile nur related to hor located at 60: Notice is he Well Operato Address: Telephone:	Shall Include: West Virginia Code § 22-6A-16(b), this notice in the second electronic mail address of the operation of the second drilling may be obtained from the Second Softh Street, SE, Charleston, WV 25304 (304-9) reby given by: T: HG Energy Appalachia, LLC 5260 Dupont Road Parkersburg, WV 26101 304-420-1119	tor and the operator's authorized retary, at the WV Department of 226-0450) or by visiting www.defauthorized Representative: Address: Telephone:	Diane White 5260 Dupont Road Parkersburg, WV 26101 ALIC 26 2024
This Notice Pursuant to Market facsimile nur related to hore located at 600 Notice is he Well Operato Address:	Shall Include: West Virginia Code § 22-6A-16(b), this notice in the property of the operation of the second drilling may be obtained from the Second form the Second form the Second form the Second form of the Second form o	tor and the operator's authorized retary, at the WV Department of 126-0450) or by visiting www.def Authorized Representative: Address:	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Diane White 5260 Dupont Road Parkersburg, WV 26101 RECEIVED Office of Oil and Gar

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.

WW-6A5 (1/12)

4704105764 Operator Well No. Van Wie 1221 N-11H 10 S-12H

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

Notice Time I Date of Notic	Requirement: notice shall be provided no le: 01/05/2024 Date Permit App	ater than the filing blication Filed: 01/2		application.	
Delivery met	hod pursuant to West Virginia Code § 22	-6A-16(c)			
		HAND DELIVERY			
return receipt the planned o required to be drilling of a h damages to the	7. Va. Code § 22-6A-16(c), no later than t requested or hand delivery, give the surface peration. The notice required by this sub provided by subsection (b), section ten of t torizontal well; and (3) A proposed surface e surface affected by oil and gas operations as required by this section shall be given to	e owner whose land section shall inclu- this article to a surf- e use and compens to the extent the da	I will be used for de: (1) A copy ace owner whose sation agreement amages are com	or the drilling or of this code se se land will be un that containing an pensable under	f a horizontal well notice of ection; (2) The information used in conjunction with the offer of compensation for article six-b of this chapter.
(at the address	by provided to the SURFACE OWNER(s listed in the records of the sheriff at the tinergy Appalachia, LLC	ne of notice): Name:	Anthony and Dav		
N-	ersburg, WV 26101	Address	2700 Jones Roa Dunkirk, MD 207		
Pursuant to W operation on t State: County: District:	est Virginia Code § 22-6A-16(c), notice is line surface owner's land for the purpose of West Virginia Lewis Freemans Creek	hereby given that the drilling a horizonta UTM NAD 8 Public Road	1 well on the tra Easting: Northing:	well operator hat cot of land as fol 528668.6 4327353.9 CR 11/3 via Straig	lows:
Quadrangle:	Vadis WV 7.5'	_	ed farm name:	Van Wie	
Watershed:	Fink Creek	-		(y	
to be provided horizontal wel surface affecte information re	est Virginia Code § 22-6A-16(c), this noticed by W. Va. Code § 22-6A-10(b) to a sural; and (3) A proposed surface use and compared by oil and gas operations to the extent related to horizontal drilling may be obtained located at 601 57 th Street, SE, Charles	rface owner whose pensation agreement the damages are co- ed from the Secret	e land will be unt containing an ompensable und ary, at the WV	used in conjunct offer of competer article six-b Department of	tion with the drilling of a ensation for damages to the of this chapter. Additional
Well Operator		Address:	5260 Dupont Road		RECEIVED Office of Oil and Gas
Telephone:	304-420-1119		Parkersburg, WV 26	101	AUG 26 2024
Email:	dwhite@hgenergyllc.com Diane Whid	Facsimile:	304-863-3172	II	
Oil and Gas P	Privacy Notice:		2		WV Department of Environmental Protection
	0.11				

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.



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-5H 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

Styl & Me

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
		68607-28-3
		107-21-1
		111-76-2
		67-56-1
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
		1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
BIO CLEAR 2000	Mixture	25322-68-3
	IVIIXCUIC	10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
		107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	

RECEIVED Office of Oil and Gas

AUG 26 2024

WV Department of Environmental Protection

OPERATOR:_	HG Energy II Appalachia, LL	WELL NO: Van	I-5H	
PAD NAME:_	Van Wie 1221			
REVIEWED B	Y: Diane White	SIGNATURE:	Diane	White

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

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

0-

Θ-

