

west virginia department of environmental protection

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

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

Thursday, September 22, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD PARKERSBURG, WV 26101

#### Re: Permit approval for VANECK 1215 S-10H 47-041-05740-00-00

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

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

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

ames A Martin Chief

Operator's Well Number: VANECK 1215 S-10H Farm Name: HG ENERGY II, APPALACHI U.S. WELL NUMBER: 47-041-05740-00-00 Horizontal 6A New Drill Date Issued: 9/22/2022

Promoting a healthy environment.

# **PERMIT CONDITIONS**

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

API NO. 474704105740 OPERATOR WELL NO. Vaneck 1215 S-10H

Well Pad Name: Vaneck 1215

WW-6B (04/15)

DEPAR	RTMENT OF EN	VIRONMEN'	DF WEST VIRC TAL PROTEC PERMIT APP	FION, OFFIC	<u>CE OF O</u>	DIL AND GA	<u>AS</u>
	1.5.5.5.5		1 40454005	0 1 .	/	Eroomon	Comdon 7.5'
1) Well Operate	or: HG Energy	II Appalachia	a, <b>1</b> 49451993			District	Camden 7.5' Quadrangle
2) Operator's V	Well Number: Va	neck 1215 S	Operator -10H W	ell Pad Nam			
3) Farm Name/	Surface Owner:	HG Energy II App	alachia, LLC Publ	ic Road Acc	ess: Ma	are Run Rd	at CR 10 / 9
4) Elevation, cu	urrent ground:	1259' /	Elevation, pro	posed post-c	constructi	ion: 1254.8	
5) Well Type	(a) Gas X	Oil		Undergrou			
	Other			20 196 L C			
	(b)If Gas Sha	llow x	De	ep			Sale
	Hor	rizontal <u>x</u>					8/4/2022
	1: Yes or No No						01
	rget Formation(s 6753'/6803' and 5					ressure(s):	
8) Proposed To	otal Vertical Dept	h: 6,790'	1				
*	t Total Vertical D	2 Car Shares	ellus 🕜				
10) Proposed T	Total Measured D	epth: 24,2	66' 🖌				
	Horizontal Leg Le	10.0	46' 🧹				
12) Approxima	ate Fresh Water S	trata Depths:	60', 214',	600', 861'	1	1	
	Determine Fresh ate Saltwater Dep		·	et well data, (	(47-041-0	02173, 0693	, 0236, 2308, 0578 )
				rface casing is	being exte	nded to cover	the coal in the DTI Field)
	ate Depth to Poss						
	osed well location ing or adjacent to				No	о <u>Х</u>	
(a) If Yes, pro	ovide Mine Info:	Name:			_		
		Depth:					
		Seam:					DEPENDED
		Owner:					Office of Oil and Gas
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							WV Decertment of Environmental Protection 09/23/2022 Page 1 of 3
							Page 1 of 3

## 4704105740 API NO. 47-\_\_\_

OPERATOR WELL NO. Vaneck 1215 S-10H

Well Pad Name: Vaneck 1215

(04/15)

WW-6B

## 18)

# CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	<u>New</u> <u>or</u> <u>Used</u>	<u>Grade</u>	Weight per ft. (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> <u>(Cu. Ft.)/CTS</u>
Conductor	30"	New	LS	157.5	120'	120' 🧹	CTS
Fresh Water/Coal	20"	NEW	J-55	94	1200'	1200'	40% Excess, CTS
Intermediate 1	13 3/8"	NEW	J-55 BTC	68	2250'	2250' -	40% Excess, CTS
Intermediate 2	9 5/8"	NEW	N-80 BTC	40	4780'	4780' <	40% Excess Tail, CTS
Production	5 1/2"	NEW	P-110 HP	23	24266'	24266' 🧹	20% Excess Tail, CTS
Tubing	11.1.1		11				
Liners	1						

ТҮРЕ	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	26"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate 1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Lead 40% excess, Tall 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	5750		Type 1/Class A	Load 40% excess. Tail 0% Excess Lea
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% excess yield = 1.19, tail yield 1.94 (
Tubing						1 11	
Liners	1	1					

## PACKERS

Kind:	
Sizes:	
Depths Set:	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	RECI Office of C

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WV Department of Environmental Protection



WW-6B (10/14)

4704105740 **API NO. 47** OPERATOR WELL NO. Vaneck 1215 S-10H Well Pad Name: Vaneck 1215

## 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 6790'. Drill horizontal leg to estimated 16,646' lateral length, 24,266' 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): 22.55 acres

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

#### 23) Describe centralizer placement for each casing string:

No centralizors will be used with conductor casing

reshwater/Goal - contralized every 3 joints to surface atermediate 1 - Bow Spring on every joint, will also be running ACP for isolating sto

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

reduction - Vertical - Run 1 spiral centralizer every 5 joints from the top of the curve to surface.

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

Conductor -NA, Casing to be drilled in w/ Dual Rotary Rig.
Fmah Watan/Caal - **5.8 ppg PNE-1 + 3% Iswee CaC/40% Excess/Vield=1.20 / CTS*
Informabilite 1 - **** Stange String *** CTS ***15.4 ppg Lead • Yrald 1.24 - DB95 Surface Set 100 10 / sack (Mix of Class A and Gypsum to meet Comminism Requirements)B348 - 0.5% EWOB Fluid Leas / D313 - 0.75% EWOB Retarder / D4 / = 0.52 gal / sack VBWOB Ans Featri / D202 - 0.15% F Dispersant / D694 * 1.5 pm 28U: CemNET* - D6% Excess12 gbg Tail - Yried 1.17 - D636 Surface Set 100 1b / sack (Mix of Class A and Gypsum to meet Dominism Requirements)B448 - 0.5% EWOB Fluid Leas / D313 - 0.75% EWOB Retarder / D17 - 0.35% EWOB Retarder / D014 - 0.35% EWOB Retarder / D0
Intermediate 2 - "Load: 15.4 ppg PNB-1 + 2.5%, bwoc CaCH0% Excess / Tai: 15.8 ppg PNE-1 + 2.5\%, bwoc CaCH0% Excess / Tai: 15.8 ppg PNE-1 + 2.5\%, bwoc CaCH0% Excess / Tai: 15.8 ppg PNE-1 + 2.5\%, bwoc CaCH0% Excess / Tai: 15.8 ppg PNE-1 + 2.5\%, bwoc CaCH0% Excess / Tai: 15.8 ppg PNE-1 + 2.5\%, bwoc CaCH0% Excess / Tai: 15.8 ppg PNE-1 + 2.5\%, bwoc CaCH0% Excess / Tai: 15.8 ppg PNE-
Production - "Lead: 14.5 apg PDZ:PNE-1 = 0.3% twoc R3 + 1% twec EC1 + 0.75 gallek FP19L + 0.3% twoc MPA170Tal: 14.6 ppg PNE-1 + 0.35% twee R3 + 0.75 gallek FP19L + 50% twee ASCA1 = 0.5% twee MPA1702D% Exceeded Yield=1.19Tal Yield=1.94CTS"

## 25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD.	
Fresh Water/Deal - Once casing is at setting depth, corolate a minimum of one hore volume with Fresh Water prior to pumping comont-	/
Intermediate 1 - Once casing is at setting depth, Circulate and condition at TO, Circulate a informum of one field volume prior to pumping cement.	and the second sec
Intermediate 2 - Once casing is all satting depth, Groutets and condition mud at TD. Girculate a initimum of one hole volume prior to pamping centent.	RECEIVED Office of Offind Gas
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	Office of Ottand Gas.
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*Note: Attach additional sheets as needed	H



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Note: Attach additional sheets as needed.

#### HG Energy II Appalachia, LLC Vaneck 1215 Well Pad (N-1H - N6H, S7H - S12H) Cement Additives

	Material Type	Material Description Premium NE-1 is a	CAS #	%	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide	1-5	1305-78-8
		strength properties.	Magnesium oxide	1-5	1309-48-4 14808-60-7
remium NE-1	Portland Cement		Crystalline silica: Quartz (SiO2)	0.1 - 1	14000-00-7
		Commonly called gel, it is	Ingredient name	%	CAS number
		a clay material used as a	bentonite	90 - 100	1302-78-9
		cement extender and to control excessive free	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
		water.			
entonite	Extender	100000			
		A powdered, flaked or	Lorenze Delaist channel a	%	CAS number
		pelletized material used	Ingredient name Calcium chloride	90 - 100	10043-52-4
		to decrease thickening time and increase the rate	Calcium chloride	50 - 100	10040-024
		of strength development			
lcium Chloride	Accelerator	of stranger over sophistic			
		Graded (3/8 to 3/4 inch)	Ingredient name	%	CAS number
		cellophane flakes used as	No hazardous ingredient		
	Vite Street	a lost circulation material.			
ello Flake	Lost Circulation				
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in		1.2	laus (
		cementing operations. It	Ingredient name	%	CAS number
		is very effective	Tributyl phosphate	90 - 100	126-73-8
		minimizing air			
		entrapment and preventing foaming			
		tendencies of latex			
		systems.			
P-13L	Foam Preventer				
			Ingredient name	%	CAS number
		Used to retard cement	Sucrose	90 - 100	57-50-1
anulated Sugar	Retarder	returns at surface.	Suciose	30 - 100	D7-00-1
		A proprietary product			
		that provides expansive			
		properties and improves		lar.	
			Ingredient name	% 90 - 100	CAS number
		bonding at low to			37247-91-9
		moderate	Calcium magnesium oxide		
-1			Calcium magnesium oxide		1
-1		moderate	Calcium magnesium oxide		
-1		moderate temperatures.			CAS number
-1		moderate temperatures. Multi-purpose polymer	Ingredient name	%	CAS number
		moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas			CAS number
	Gas Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss,	Ingredient name		CAS number
	Gas Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration.	Ingredient name		CAS number
	Gas Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan,	Ingredient name		CAS number
	Gas Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration.	Ingredient name		CAS number
	Gas Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide),	Ingredient name No hazardous ingredient	%	
	Gas Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide), When blended with	Ingredient name No hazardous ingredient	%	CAS number
	Gas Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement	Ingredient name No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiO2)	% 5 - 10	
	Gas Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarlly Silicon Dioxide), When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a	Ingredient name No hazardous ingredient	%	CAS number 14808-60-7 1305-78-8
	Gas Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide), When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate	Ingredient name No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiO2)	% 5 - 10	CAS number 14808-60-7 1305-78-8
	Gas Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide), When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion	Ingredient name No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiO2)	% 5 - 10	CAS number 14808-60-7
A-170		moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide), When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate	Ingredient name No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiO2)	% 5 - 10	CAS number 14808-60-7 1305-78-8 RECEN Office of Office
°A-170	Gas Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide), When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion	Ingredient name No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiO2)	% 5 - 10	CAS number 14808-60-7 1305-78-8 RECEN Office of Office
PA-170		moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide), When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion	Ingredient name No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiO2)	% 5 - 10	CAS number 14808-60-7 1305-78-8
PA-170		moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide), When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.	Ingredient name No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiO2)	% 5 - 10	CAS number 14808-60-7 1305-78-8 RECEN Office of Office
PA-170		moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry	Ingredient name No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide	% % 5 - 10 1 - 5	CAS number 14808-60-7 1305-78-8 RECEN Office of ON AUG 1 5
°A-170		moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide), When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide Ingredient name	% % 5 - 10 1 - 5	CAS number 14808-60-7 1305-78-8 RECEN Office of Off AUG 1 5 CAS number 2004
2A-170 z (Fly Ash)	Base	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry	Ingredient name No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide Ingredient name	% % 5 - 10 1 - 5	CAS number 14808-60-7 1305-78-8 RECEN Office of Off AUG 1 5 CAS number 2004
2A-170 z (Fly Ash)		moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide), When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide Ingredient name	% % 5 - 10 1 - 5	CAS number 14808-60-7 1305-78-8 RECEN Office of Off AUG 1 5 CAS number 2004
PA-170 pz (Fly Ash)	Base	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide), When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide Ingredient name Organic acid salt	% 5 - 10 1 - 5 40 - 50	CAS number 14808-60-7 1305-78-8 RECEN Office of Off AUG 1 \$ CAS number Trade secret.
PA-170 pz (Fly Ash)	Base	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide), When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name         No hazardous ingredient         Ingredient name         Crystalline silica: Quartz (SiO2)         Calcium oxide         Ingredient name         Organic acid salt         Ingredient name	%           %           5 - 10           1 - 5           %           40 - 50           %	CAS number 14808-60-7 1305-78-8 RECEN Office of Off AUG 1 S CAS number
PA-170 pz (Fly Ash)	Base	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide), When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name         No hazardous ingredient         Ingredient name         Crystalline silica: Quartz (SiO2)         Calcium oxide         Ingredient name         Organic acid sait         Ingredient name         2-Butoxyethanol         Proprietary surfactant	%           %           5 - 10           1 - 5           %           40 - 50           %           20 - 30           10 - 20	CAS number 14808-60-7 1305-78-8 RECEN Office of Office AUG 1 2 CAS number Trade secret.
C-1 IPA-170 oz (Fly Ash)	Base	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide), When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name         No hazardous ingredient         Ingredient name         Crystalline silica: Quartz (SiO2)         Calcium oxide         Ingredient name         Organic acid sait         Ingredient name         2-Butoxyethanol	%           %           5 - 10           1 - 5           %           40 - 50           %           20 - 30	CAS number 14808-60-7 1305-78-8 RECEN Office of Off AUG 1 & CAS number Trade secret CAS number 111-76-2

Ground Elevat Azm WELLBORE DIAGR		HOLE 30" 26"	1254.1 160.53 CASING 30" 157.5# LS	9° GEOLOGY Conductor	ТОР		-10H SH -10H LF -10H BH MUD	) L	14	205300.73N 17684 205351.38N 176953 189662.33N 17750	37.18E
Azm		30"	160.53 CASING 30" 157.5# LS	9° GEOLOGY Conductor	TOP	1215 S-	10H BH	L		A PARTICIPATION OF STA	10 <sup>-0</sup>
	XAM	30"	CASING 30" 157.5# LS	GEOLOGY	ТОР	19 19 19			14	189662.33N 17750	81.1E
	RAM X X	30"	CASING 30" 157.5# LS	GEOLOGY	TOP	19 19 19					
×	×	30"	30" 157,5# LS	Conductor				TOP BASE MUD CEMENT			COMMENTS
x	×		LS								
×	× _ × ×		LS		and the second se		1	N/A, Casing to be drilled	100	Ensure the hole is clean at	Conductor casing = 0.5" wall
× ×	× _	26"	20"	A CONTRACTOR OF A CONTRACTOR A CO	0	120 <	AIR	in w/ Dual Rotary Rig	N/A	TD.	thickness
×	×	26"		Fresh Water	٥	214, 600, 861		15.6 ppg PNE-1 + 3% bwoc CaCl	Centralized every 3	Once casing is at setting depth, circulate a minimum of one hole volume with	Surface casing = 0.438" wall thickness
x x	x		94# J-55	Kittaning Coal	900	905	AIR	40% Excess Yield=1.20 / CTS	joints to surface	Fresh Water prior to	Burst=2110 psi
×	X			Fresh Water Protection	0	1200 🥜				pumping cement.	
x	X			Little Lime	1694	1714	1	See above (LEFT) for	Bow Spring on every	Once casing is at setting depth, Circulate and	
×	X	17.00	13-3/8" 68#	Big Lime	1741	1818	AIR / KCL - Salt Polymer	Storage String Cement Blend to Meet DTI	joint *will also be running	condition at TD. Circulate a	Intermediate casing = 0.480" wall thickness
×		17.5"	J-55 BTC	Injun / Gantz (Storage)	1818 / 2073	1904 / 2125		Requirements for Gas	ACP for isolating	minimum of one hole volume prior to pumping cement.	Burst=3450 psi
×				Intermediate 1	0	2250 -		Storage Field Isolation	slorage zone*		
8987 1898 4898	X			Thirty Foot	2274	2286	AIR / KCL- Salt Polymer				
			12.25" 9-5/8" 40# N-80 BTC	Gordon Stray / Gordon	2320 / 2346	2336 / 2446		1		Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.	
		12.25"		5th Sand	2590	2612		Salt Dog DNE 1 + 2 5% bwoc			Intermediate casing = 0.395" wall thickness Burst=5750 psi
X	X			Bayard	2660	2675			Bow Spring on first 2 joints then every third joint to 100' form surface		
				Speechley	3287	3301					
				A CONTRACT	Canal Sector						
				Benson	4572	4588 TVD: 4780'					
				Intermediate 2	0	MD: 4850' Inc: 23 dea.					
XXX							AIR /		Run 1 spiral centralizer		
		8.75"				9.0ppg	Lundi da Emin	every 5 joints from the top of the curve to			
							SOBM	Lead: 14.5 ppg POZ:PNE-1 + 0.3%	surface.		
				Rhinestreet	6125	6290		bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L	C.F	Once on bottom/TD with	
				Cashaqua	6290	6391		+ 0.3% bwoc MPA170		casing, circulate at max	Production casing = 0.415"
x x			5-1/2"	Middlesex	6391	6425	11 5000	Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75		allowable pump rate for at least 2x bottoms up, or until	wall thickness Burst=16240 psi
		8.5" Curve	23# P-110 HP	West River	6425	6500	11.5ppg- 12.5ppg	gal/sk FP13L + 50% bwoc ASCA1 + 0.5%	1.000	returns and pump pressures indicate the hole is clean.	Note:Actual centralizer
			CDC HTQ	Burkett	6500	6535	SOBM	bwoc MPA170	Run 1 spiral centralizer every 3 joints from the	Circulate a minimum of one	schedules may be changed due to hole conditions
				Tully Limestone	6535	6625		20% Excess Lead Yield=1.19	1st 5.5" long joint to the	hole volume prior to pumping cement.	det in the second second
				Hamilton	6625	6753		Tail Yield=1.94	top of the curve.	Charles and support	
				Marcellus	6753	6803	11.5ppg-	CTS -			
ioe a		8.5" Lateral		TMD / TVD (Production)	24266	6789	12.5ppg				
Diffue of Citi and Gas				Onondaga	6803		SOBM	har see the			
115	)   	(	X	×	X		x	X	X	X	X

W/V Department of Environmental Protection

WW-9	
(4/16)	

# API Number 47 - 4704105740

Operator's Well No. Vaneck 1215 S-10H

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

#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

	Energy II Appalachia, LLC	01 0000	94501907
Watershed (HUC 10	0)_Middle West Fork Creek	Quadrangle Camden 7.5'	
Do you anticipate u Will a pit be used?	sing more than 5,000 bbls of water to com Yes No	plete the proposed well work? Y	es V No
If so, pleas	e describe anticipated pit waste: NA		
Will a synt	thetic liner be used in the pit? Yes	No ✔ If so, what ml.?	
			SDW
Proposed I	Disposal Method For Treated Pit Wastes:		SDW
	Land Application		814120
	Underground Injection (UIC Perm	it Number	)
	Reuse (at API Number_TBD - At next	anticipated well	)
	<ul> <li>Off Site Disposal (Supply form W)</li> </ul>	W-9 for disposal location)	
	Other (Explain		

Will closed loop system be used? If so, describe: \_\_\_\_\_\_Yes, cuttings and fluids will be collected in a closed loop system, re-used or hauled to an approved disposal site or landfill.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Mentical - Air, AirKCL, Air/SOBM. Horizontal-SOBM

-If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? Water, Soap, KCI, Barite, Base Oil, Wetting Agents

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Approved Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA

-Landfill or offsite name/permit number? See Attached

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature	Diane White		
Company Official (Typed Nan	ne) Diane White		
Company Official Title	Agent		
Subscribed and sworn before m	ne this 21st day of July	, 20 22	
Com My commission expires 7	- dy 10- cd 31/2027	Notary Public STATE	OFFICIAL SEAL DTARY PUBLIC OF WEST VIRGINIA SSICH BOARDINA DECOMPOSITION

- 1

09/23/2022

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# **Cuttings Disposal/Site Water**

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#### Cuttings --Haul off Company:

Eap Industries, Inc. DOT # 0876278 1575 Smith Two State Rd. Atlasburg, PA 15004 1-888-294-5227

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

Environmental Coordination Services & Recycling (ECS&R) 3237 US Highway 19 Cochranton, PA 16314 814-425-7773

Disposal Locations:

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

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

Sycamore Landfill Inc. Permit #R30-079001 05-2010 4301 Sycamore Ridge Road Hurricane, WV 25526 304-562-2611

Max Environnemental Technologies, Inc. Facility Permit # PAD004835146 / 301071 233 Max Lane Yukon, PA 25968 724-722-3500

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

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

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

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

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

Brooke County Landfill Permit # SWF-103-97 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 304-748-0014 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 Environnemental Services Permit ID MID020906814 3947 US 131 North, PO Box 1030 Kalkaska, MI 49646 231-258-9961

Water Haul off Companies:

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

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

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

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

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

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 Arrei-Smith Road Lowelville, OH 44436 330-536-6825

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

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

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

Equipment Transport 1 Tyler Court Carlisie, PA 17015

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

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

Nichlos 1-A (SWIW #13) Permit # 3862 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-329-7275

Groselle (SWIW #34) Permit # 4096 Rt. 88 Garrettsville, OH 713-275-4816

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 43767 614-648-8898 740-796-6495

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

Adams #3 (Buckeye Brine, LLC) Permit #34-031-2-7241-00-00 2530 Exposition, Suite 117 Austin, TX 78703 512-478-6545

Mozena #1 Well (SWIW # 13) Permit # 34-157-2-5511-00-00 5367 E. State Street Newcomerstown, OH 43832 740-763-3966

Goff SWD #1 (SWIW # 27) Permit # 34-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-329-7275

SOS D#1 (SWIW #12) Permit # 34-059-2-4202-00-00 Silcor Oilfield Services, Inc. 2939 Hubbard Road Youngstown, PH 44505

Dudley #1 UIC (SWIW #1) Permit # 34-121-2-2459-00-00 Select Energy Services, LLC 7994 S. Pleasants Hwy St. Marys, WV 26170 304-665-2652 OH UIC #1. Bu keye UIC Barnesville 1 & 2 CNX Gas Corx, rany, LLC 1000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-323-6568

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

Chapin #7 UIC (SWIW #7) Permit # 34-083-2-4137-00-00 Elkhead Gas& Oil Company 12163 Marne Rd, NE Newark, OH 43055 740-763-3966

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47041057

Operator's Well No. Vaneck 1215 S-10H

# HG Energy II Appalachia, LLC

Lime <u>3</u> Tons/a	cre or to correct to pH6.5	
Fertilizer type10-20-20		
Fertilizer amount	500 Ibs/acre	
<sub>Mulch</sub> Hay	2 Tons/acre	
	Seed Mixtures	

Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5

## Maintain E&S controls through the drilling and completion process

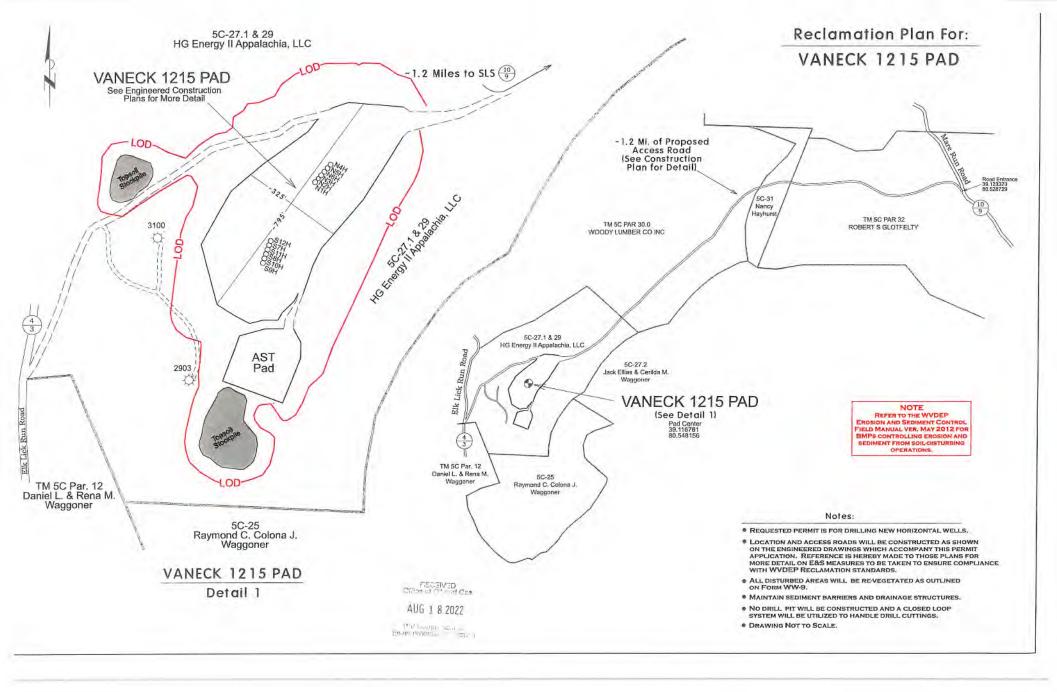
Attach:

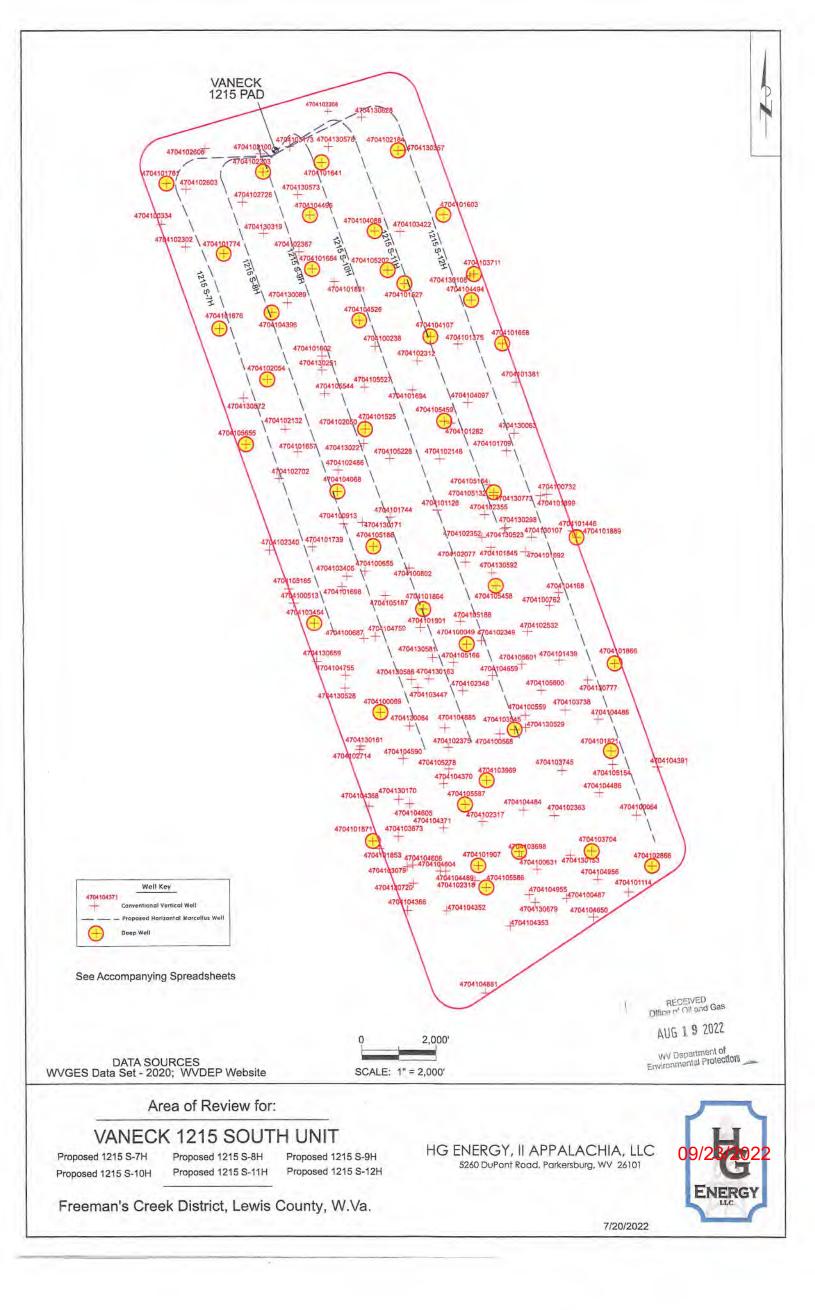
Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: <u>Sub Wardta</u> <sub>Comments:</sub> Pre-seed/mulch as soon as reasonably possib Upgrade E&S if needed per WV DEP E&S manual.	ble per regulation.
Title: WV DEP Oil & Gas Inspector Date: SIU 2	RECEIVED Office of Oil and Gas AUG 1 9 2022 WV Department of Environmental Protection

09/23/2022





19 20	12 materia		VANECK 1215	EXISTING WELLS LOCATED WITH			H & S-12	ен		
CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4704100049	Lewis	Alfred Woofter	Dominion Energy Transmission, Inc.	Helderberg	Gas	7325	PLUGGED	39.080348	-80.530425
2	4704100064	Lewis	R H Hall	Diversified Resources, Inc.	Fifth	Gas	2316	ACTIVE	39.067649	-80.514534
3	4704100089	Lewis	J L J Bailey	Diversified Production LLC	Helderberg	Gas	7022	ACTIVE	39.075324	-80.538664
4	4704100238	Lewis	G W Jordon	Dominion Energy Transmission, Inc.	Fifth	Gas	2471	PLUGGED	39,102380	-80.538855
5	4704100334	Lewis	Alice Burnside	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Storage	2478	ACTIVE	39.111415	-80.559086
6	4704100487	Lewis	A E Wright	Deran Resources, Inc.	Up Devonian	Gas w/ Oil Show	2304	ACTIVE	39.061528	-80.521206
7	4704100513	Lewis	J A White	Clem Energy, LLC	Price Fm & equivs	Gas	1410	ACTIVE	39.083465	-80,546827
8	4704100559	Lewis	Florence Wagner et al	Deran Resources, Inc.	Conemaugh Group	Gas	685	ACTIVE	39.075044	-80.524939
9	4704100568	Lewis	Florence Waggoner	Deran Resources, Inc.	Price Fm & equivs	Gas	1623	ACTIVE	39.073670	-80.527386
10	4704100631	Lewis	C M Hall	UNKNOWN	Price Fm & equivs	Dry w/ Gas Show	1666	PLUGGED	39.063703	-80.523997
11	4704100655	- Lewis	John White	Alliance Petroleum Co. LLC	Price Fm & equivs	Gas w/ Oil Show	1698	ABANDONED	39.085791	-80.540008
12	4704100687	Lewis	Sarah A Kemper	Consol Gas Co.	Big Injun (Grnbr)	Gas w/ Oil Show	1658	PLUGGED	39.080815	-80.540191
13	4704100732	Lewis	John W Kemper	UNKNOWN	Hampshire Grp	Gas	2370	NEVER DRILLED	39.091447	-80.522704
14	4704100762	Lewis	S A Hall	Clem Energy, LLC	Squaw	Gas w/ Oil Show	1507	ACTIVE	39.083184	-80.522572
15	4704100802	Lewis	Edward Carrell	Alliance Petroleum Co. LLC	Price Fm & equivs	Gas	1801	ACTIVE	39,085990	-80.535815
16	4704100913	Lewis	Israel Simmons	Dominion Energy Transmission, Inc.	Big Injun (Grnbr)	Gas	1577	ACTIVE	39.089277	-80.542014
17	4704101114	Lewis	Gerald R Wright	Diversified Production LLC	Price Fm & equivs	Gas	1684	ACTIVE	39.061943	80.515336
18	4704101126	Lewis	Bruce/J Carrell/M Bailey	Alliance Petroleum Co. LLC	Price Fm & equivs	Gas	1473	ACTIVE	39.0902.85	80.533119
19	4704101282	Lewis	F White	Dominion Energy Transmission, Inc.	Undf PRICE blw INJN	Gas w/ Oil Show	1716	ACTIVE	39.096724	-80.531754
20	4704101375	Lewis	F White	Dominion Energy Transmission, Inc.	Undf PRICE blw INJN	Gas	1649	ACTIVE	39,102532	-80.531000
21	4704101381	Lewis	F White	Eastern Gas Transmission & Storage, Inc.	Price Fm & equivs	Gas	1533	ACTIVE	39.099706	-80.525513
22	4704101439	Lewis	Odie Bailey et al	UNKNOWN	not available	not available	4	PLUGGED	39.079115	-80.521697
23	4704101446	Lewis	S & C Hall	Allegheny Land and Mineral Co.	Undf PRICE blw INJN	Dry w/ Oil Show	1661	PLUGGED	39.088695	-80.520315
24	4704101525	Lewis	Israel Simmons	Dominion Energy Transmission, Inc.	Big Injun (Grnbr)	Gas w/ Oil Show	1942	ACTIVE	39.096753	-80.539858
25	4704101527	Lewis	Edward E Garrett	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4718	ACTIVE	39.105969	-80.536030
26	4704101602	Lewis	F White	Dominion Energy Transmission, Inc.	Benson	Gas	4414	ACTIVE	39.101644	-80.543897
27	4704101603	Lewis	J Kent Burnside	Eastern Gas Transmission & Storage, Inc.	Greenland Gap Fm	Gas	4670	ACTIVE	39.112060	-80.532288
- 28	4704101641	Lewis	F White	Dominion Energy Transmission, Inc.	Benson	Gas	4703	ACTIVE	39.115940	-80.543809
29	4704101657	Lewis	Helen H Garrell	Eastern Gas Transmission & Storage, Inc.	Greenland Gap Fm	Gas	4450	ACTIVE	39.094622	-80.546304
30	4704101658	Lewis	James S Hall	Eastern Gas Transmission & Storage, Inc.	Greenland Gap Fm	Gas	4532	ACTIVE	39.102559	-80.526798
31	4704101664	Lewis	T T Taylor	Eastern Gas Transmission & Storage, Inc.	Brallier	Gas	4571	ACTIVE	39,108066	-80.544783
32	4704101676	Lewis	Bruce Garrett	Eastern Gas Transmission & Storage, Inc.	Greenland Gap Fm	Gas	4600	ACTIVE	39,103695	-80.55364?
33	4704101692	Lewis	S A & C M Hall	Diversified Production LLC	Benson	Gas	4475	ACTIVE	39,087211	-80.524793
- 34	4704101694	Lewis	Clark White	Alliance Petroleum Co. LLC	Benson	Gas	4455	ACTIVE	39.099133	-80.535363
35	4704101698	Lewis	John A White	UNKNOWN	Benson	Dry	4450	PLUGGED	39.084533	-80.542210
36	4704101709	Lewis	James H Hall	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4345	ACTIVE	39.094637	-80.526492

37	4704101739	Lewis	Gerald Hull	Eastern Gas Transmission & Storage, Inc.	Benson	Gas	4176	ACTIVE	39,087605	-80,544982
38	4704101744	Lewis	Israel Simmons	Dominion Energy Transmission, Inc.	Misc Sands-BNSN/BRLR	Gas	4375	ACTIVE	39.089762	-80.537573
39	4704101761	Lewis	William Burnside	Eastern Gas Transmission & Storage, Inc.	Benson	Gas	4760	ACTIVE	39.114437	-80,558559
40	4704101774	Lewis	E W &R M Waggoner	Eastern Gas Transmission & Storage, Inc.	Benson	Gas	4765	ACTIVE	39.109214	-80.553177
41	4704101821	Lewis	R H Hall	Greylock Conventional, LLC	Benson	Gas	4541	ACTIVE	39.072355	-80.516863
42	4704101845	Lewis	J A Kemper	Alliance Petroleum Co. LLC	Big Injun (Grnbr)	Gas	2062	ACTIVE	39.087540	-80.528065
43	4704101851	Lewis	T T Taylor	Dominion Energy Transmission, Inc.	Up Devonian	Gas	2548	ACTIVE	39.107144	-80.542702
44	4704101853	Lewis	M L Butcher	UNKNOWN	not available	not available	4	NEVER DRILLED	39.065298	-80.538880
45	4704101864	Lewis	Albert Woofter	Mountain V, LLC	Helderberg	Gas w/ Oil Show	7045	ACTIVE	39.082958	-80,53452
46	4704101866	Lewis	F M McKinley	Clem Energy, LLC	Helderberg	Gas	7325	ACTIVE	39.078844	-80.51642
47	4704101871	Lewis	M L Butcher	Mountain V, LLC	Helderberg	Gas	7104	ACTIVE	39.065841	-80,53953
48	4704101889	Lewis	S A & C M Hall	Mountain V, LLC	Helderberg	Gas w/ Oil Show	7140	ACTIVE	39.088230	-80.51994
49	4704101899	Lewis	Charles Kemper	Clem Energy, LLC	Benson	Gas	4443	ACTIVE	39.091320	-80.52333
50	4704101901	Lewis	Alfred Woofter	Alliance Petroleum Co. LLC	Big Injun (Grnbr)	Gas	1650	ACTIVE	39.081599	-80.53481
51	4704101907	Lewis	Harvey Hall	Eastern Gas Transmission & Storage, Inc.	Helderberg	Gas w/ Oil Show	7206	PLUGGED	39,063990	-80.52956
52	4704102050	Lewis	Israel Simmons	Alliance Petroleum Co. LLC	Benson	Gas	4775	ACTIVE	39.096272	-80.53987
53	4704102054	Lewis	Israel Simmons	Diversified Production LLC	Benson	Gas	4670	ABANDONED	39,099940	-80.54913
54	4704102077	Lewis	A T Simmons	Ross & Wharton Gas Co., Inc.	Benson	Gas	4324	ACTIVE	39.086449	-80.53045
55	4704102132	Lewis	A C Simmons	Mike Ross, Inc.	Bayard	Gas	2575	ACTIVE	39.096272	-80.54746
56	4704102148	Lewis	J B Snyder	Alliance Petroleum Co. LLC	Benson	Gas	4420	ACTIVE	39.094083	-80.53282
57	4704102184	Lewis	M C Burnside	Dominion Energy Transmission, Inc.	Benson	Gas	4848	ACTIVE	39.116787	-80.53654
58	4704102302	Lewis	M Halterman	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Gas	2420	ACTIVE	39.109733	-80.55680
59	4704102303	Lewis	Orpha D Waggoner	Dominion Energy Transmission, Inc.	Benson	Oil and Gas	4777	ACTIVE	39.115272	-80.54936
60	4704102308	Lewis	F Riley	Eastern Gas Transmission & Storage, Inc.	Gordon	Gas	2393	ACTIVE	39.119733	-80.54310
61	4704102312	Lewis	C White	Alliance Petroleum Co. LLC	not available	not available	-	ACTIVE	39,101284	-80.53489
62	4704102317	Lewis	C Flesher	Alliance Petroleum Co. LLC	Hampshire Grp	Gas	2243	ACTIVE	39.067267	-80.52912
63	4704102318	Lewis	C Flesher	Diversified Production LLC	Hampshire Grp	Gas	2261	ACTIVE	39.062863	-80.52988
64	4704102340	Lewis	I Simmons	Eastern Gas Transmission & Storage, Inc.	not available	Gas		ACTIVE	39.087382	-80.54906
65	4704102348	Lewis	A Woofter	Alliance Petroleum Co. LLC	not available	not available	2.34	ACTIVE	39.076895	-80.53084
66	4704102349	Lewis	A Woofter	Alliance Petroleum Co. LLC	not available	not available		ACTIVE	39.080604	-80.52903
67	4704102352	Lewis	E Hall	Diversified Production LLC	not available	not available		ABANDONED	39.088272	-80.52890
68	4704102355	Lewis	C Robinson	Alliance Petroleum Co. LLC	not available	not available	1.2	ACTIVE	39.089927	-80,52864
69	4704102363	Lewis	M Losh	Alliance Petroleum Co. LLC	not available	not available	1 8	ACTIVE	39.067651	-80,52232
70	4704102367	Lewis	TTTaylor	Dominion Energy Transmission, Inc.	Gordon	Gas	2322	ACTIVE	39.109335	-80.54603
71	4704102375	Lewis	J Bailey	Alliance Petroleum Co. LLC	Hampshire Grp	Gas	2434	ACTIVE	39.072712	-80.5322
72	4704102486	Lewis	Helen Garrett	Dominion Energy Transmission, Inc.	Balltown	Gas	3535	ACTIVE	39.093256	-80.54246
73	4704102532	Lewis	M Fultinear	Alliance Petroleum Co. LLC	Benson	Gas	4496	ACTIVE	39.081256	-80.52465
74	4704102603	Lewis	W Burnside	Eastern Gas Transmission & Storage, Inc.	not available	Storage		ACTIVE	.39.114018	-80.55673
75	4704102608	Lewis	G W Waggoner	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Storage	2296	ACTIVE	39.117018	-80.55488
76	4704102000	Lewis	Israel Simmons	UNKNOWN	Gantz	Gas	2265	ABANDONED	39.092671	-80.54808

77	4704102714	Lewis	W J Bailey	Diversified Production LLC	Gordon	Gas	2305	ACTIVE	39.072570	-80.540695
78	4704102726	Lewis	E W Wagonner	Consolidated Gas Supply Corp.	Hampshire Grp	Gas	2435	PLUGGED	39.113030	-80.551358
79	4704102866	Lewis	Uriah Rexroad	Petroleum Service Partners, Inc.	Greenland Gap Fm	Oil and Gas	4648	ACTIVE	39.063878	-80.513079
80	4704103079	Lewis	M L Butcher	Red Gas Co.	not available	Gas		ACTIVE	39.063922	-80.536298
81	4704103100	Lewis	Marjorie Hyatt	Dominion Energy Transmission, Inc.	Big Injun (Grnbr)	Oil w/ Gas Show	2075	ACTIVE	39.116597	-80.549618
82	4704103173	Lewis	Orpha Waggoner	Consolidated Gas Supply Corp.	Big Injun (Grnbr)	Dry	2089	PLUGGED	39,117125	-80.546833
83	4704103406	Lewis	R Hall/D Fisher	Mountain V, LLC	Benson	Gas	4431	ACTIVE	39.085428	80.541750
84	4704103422	Lewis	J Kent Burside	Dominion Energy Transmission, Inc.	Hampshire Grp	Oil and Gas	2930	ACTIVE	39.110813	-80.53643
85	4704103447	Lewis	Nellie B Rohr	Mineral Resource Management, LLC	Benson	Gas	4326	ACTIVE	39.077104	-80.53513
86	4704103454	Lewis	Fisher et al	Mountain V, LLC	Benson	Gas	4602	ACTIVE	39.081958	-80.54487
87	4704103545	Lewis	R & V Cunningham	American Energy Holdings, LLC	Brallier	Gas	5975	ABANDONED	39,073986	-80.52596
88	4704103673	Lewis	James M Sheared	Red Gas Company	Salt Sands (undiff)	Gas	605	ACTIVE	39.066161	80.53711
89	4704103698	Lewis	Frances/A Marple	Alliance Petroleum Co. LLC	Brallier	Gas	6104	ACTIVE	39.064619	-80.52543
90	4704103704	Lewis	Frances J/Allen Marple	Alliance Petroleum Co. LLC	Brallier	Gas	6225	ACTIVE	39.065008	-80.51878
91	4704103711	Lewis	John L Burnside	Eastern Gas Transmission & Storage, Inc.	Benson	Oil and Gas	4621	ACTIVE	39.107689	-80.52941
92	4704103738	Lewis	Johathon R Dodson	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3444	ACTIVE	39.075411	-80,52118
93	4704103745	Lewis	Jonathon R Dodson	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3626	ACTIVE	39.070988	-80.52154
94	4704103969	Lewis	Ronald L Cunningham et al	Diversified Resources, Inc.	Alexander	Gas	4912	ABANDONED	39.070294	-80,5286
95	4704104068	Lewis	Helen H Garrett	Enervest Operating, LLC	Greenland Gap Fm	Gas	4605	ACTIVE	39.091674	-80.5425
96	4704104088	Lewis	Margaret Waggoner Hrs	Enervest Operating, LLC	Greenland Gap Fm	Gas	4855	ACTIVE	39.110853	80.5388
97	4704104097	Lewis	Carroll Gum	Enervest Operating, LLC	Greenland Gap Fm	Gas	4426	ACTIVE	39.098206	-80,5301
98	4704104107	Lewis	Edward E Garrett	Enervest Operating, LLC	Greenland Gap Fm	Gas	4625	ACTIVE	39.103087	-80,53360
99	4704104168	Lewis	Robert D Hall et al	Murvin & Meier Oil Co.	Greenland Gap Fm	Gas	4431	ACTIVE	39.084109	-80,5217
100	4704104352	Lewis	Elmer C Cox	Diversified Production LLC	Greenland Gap Fm	Gas	2422	ACTIVE	39.060657	-80.5325
101	4704104353	Lewis	Patrick Boyle	Diversified Production LLC	Greenland Gap Fm	Gas	2636	ACTIVE	39.059497	-80.52660
102	4704104366	Lewis	Jay T Shearer	Red Gas Co.	Greenland Gap Fm	Gas	2510	ACTIVE	-80,536308	-1,00000
103	4704104368	Lewis	Jay T Shearer	Red Gas Co.	Price Fm & equivs	Gas	2013	ACTIVE	-80,539887	-1.00000
104	4704104370	Lewis	Jay T Shearer	Red Gas Co.	Price Fm & equivs	Gas	2157	ACTIVE	39.070084	-80.53274
105	4704104371	Lewis	Jay T Shearer	Red Gas Co.	Price Fm & equivs	Gas	2204	ACTIVE	39.066806	-80,5328
106	4704104391	Lewis	Johahan R Dodson	Diversified Production LLC	Greenland Gap Fm	Gas	3475	ACTIVE	39.071205	-80,51248
107	4704104396	Lewis	Kenneth H Heckert	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4604	ACTIVE	39,104854	-80,5486
108	4704104484	Lewis	Simeon A Hall/D Hall hrs	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3655	ACTIVE	39.068072	-80.52523
109	4704104486	Lewis	Jonathan R Dodson	Diversified Production LLC	Greenland Gap Fm	Gas	3568	ACTIVE	39.069314	-80.5180
110	4704104489	Lewis	Elmer Cox Est	Diversified Production LLC	Greenland Gap Fm	Gas	3595	ACTIVE	39.063584	-80,5326
111	4704104494	Lewis	J K Burnside/W Brunside	Eastern Gas Transmission & Storage, Inc.	Greenland Gap Fm	Gas	4906	ACTIVE	39.105763	-80.5297
112	4704104496	Lewis	Joseph C Waggoner Sr	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4529	ACTIVE	39.112039	-80.5449
113	4704104526	Lewis	Melvin L Davis	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4718	ACTIVE	39.104278	-80.5403
114	4704104590	Lewis	Jay T Shearer	Red Gas Co.	Greenland Gap Fm	Gas	2651	ACTIVE	39.071881	-80.5365
115	4704104604	Lewis	Jay T Shearer	Red Gas Co.	Hampshire Grp	Gas	2015	ACTIVE	39.063589	-80,5331
116	4704104605	Lewis	Jay T Shearer	Red Gas Co.	Greenland Gap Fm	Gas	2560	ACTIVE	39.068574	-80,5359

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117	4704104606	Lewis	Jay T Shearer	Red Gas Co.	Greenland Gap Fm	Gas	2440	ACTIVE	39.064041	-80.535779
118	4704104650	Lewis	Gerald R Wright	Diversified Production LLC	Greenland Gap Fm	Gas	3497	ACTIVE	39.060098	-80.518680
119	4704104659	Lewis	Robert B Burnside	Alliance Petroleum Co. LLC	Misc Sands-RILY/BNSN	Gas	3576	ACTIVE	39.078007	-80.528041
120	4704104755	Lewis	Helen Garrett et al	Dominion Exploration & Production	Greenland Gap Fm	Gas	2693	ACTIVE	39.078060	-80.541952
121	4704104759	Lewis	Robert B Burnside	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas w/ Oil Show	2665	ACTIVE	39.080960	-80.539075
122	4704104881	Lewis	Madeline Moody	Diversified Production LLC	Hampshire Grp	Gas	2803	ACTIVE	39.054566	-80.529016
123	4704104885	Lewis	Charles R Kemper	Alliance Petroleum Co. LLC	Misc Sands-RILY/BNSN	Gas	3440	ACTIVE	39.074161	-80,532587
124	4704104955	Lewis	Kenneth/S Fox	Horizon Energy Corp.	Greenland Gap Fm	Gas	3807	ACTIVE	39.061818	-80.524741
125	4704104956	Lewis	Violet I Wright	Horizon Energy Corp.	Misc Sands-RILY/BNSN	Gas	3465	ACTIVE	39.062891	-80.518252
126	4704105132	Lewis	Hal A Brown	Ross & Wharton Gas Co., Inc.	Greenland Gap Fm	Gas	5257	ACTIVE	39.091592	-80.527729
127	4704105154	Lewis	Dodson Farm LLC	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3370	ACTIVE	39.071389	-80.516706
128	4704105164	Lewis	Richard Billanti	Dominion Energy Transmission, Inc.	Benson	Gas	4430	ACTIVE	39.092141	-80.528155
129	4704105166	Lewis	Robert B Burnside	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	2450	ACTIVE	39.078997	-80.531699
130	4704105185	Lewis	Gerald Hull	Eastern Gas Transmission & Storage, Inc.	Greenland Gap Fm	Gas	3440	ACTIVE	39.084491	-80,547275
131	4704105186	Lewis	Gerald Hull	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4520	ACTIVE	39.087632	-80.539191
132	4704105187	Lewis	Edward E Garrett	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	2690	ACTIVE	39.083963	-80.538115
133	4704105188	Lewis	Edward E Garrett	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	2450	ACTIVE	39.082051	-80.530995
134	4704105228	Lewis	Paul J Heater Jr	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4490	ACTIVE	39.094107	-80.537552
135	4704105278	Lewis	Ronald Lee Cunningham Jr	Diversified Resources, Inc.	Greenland Gap Fm	Gas	3900	ACTIVE	39,071152	-80.532234
136	4704105458	Lewis	Michael R Morris	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	4538	ACTIVE	39.084647	-80.527630
137	4704105459	Lewis	Clifford B Messenger	Dominion Energy Transmission, Inc.	Benson	Gas	4561	ACTIVE	39.096861	-80.532349
138	4704105527	Lewis	Melvin L Davis	Alliance Petroleum Co. LLC	Misc Sands-BNSN/BRLR	Gas	4430	ACTIVE	39.099365	-80.539908
139	4704105544	Lewis	Melvin L Davis	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	3375	ACTIVE	39.098875	-80.543700
140	4704105586	Lewis	Nancy E Smith/R C Smith Jr	Eastern Gas Transmission & Storage, Inc.	Harrell Sh	Gas	5894	ACTIVE	39.062354	-80.528819
141	4704105587	Lewis	Nancy E & Ronald C Jr Smith	Alliance Petroleum Co. LLC	Harrell Sh	Gas	6125	ACTIVE	39.068525	-80.530749
142	4704105600	Lewis	Michael Meixner	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3542	ACTIVE	39.076892	-80.523411
143	4704105601	Lewis	Michael Meixner	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3640	ACTIVE	39.078825	-80.525202
144	4704105655	Lewis	Helen H Garrett	Eastern Gas Transmission & Storage, Inc.	Brallier	Gas	4747	ACTIVE	39.095193	-80.551189
145	4704130063	Lewis	Harvey & Blondie Hall	Reserve Gas Co.	Fifth	Gas	2135	PLUGGED	39.095952	-80.525746
146	4704130064	Lewis	J L J Bailey	Reserve Gas Co.	Hampshire Grp	Gas	2378	PLUGGED	39.074289	-80.535908
147	4704130089	Lewis	Mrs Ova Lester	Reserve Gas Co.	Hampshire Grp	Gas w/ Oil Show	2389	PLUGGED	39.105563	-80.547186
148	4704130107	Lewis	S A Hall	Reserve Gas Co.	Hampshire Grp	Gas	2265	PLUGGED	39.088256	-80.524192
149	4704130108	Lewis	James Burnside	Reserve Gas Co.	Hampshire Grp	Gas	2440	PLUGGED	39.107544	-80.529783
150	4704130153	Lewis	Joseph Losh	Reserve Gas Co.	not available	not available	-	PLUGGED	39.064718	-80.520835
151	4704130161	Lewis	D B Bailey	Reserve Gas Co.	Hampshire Grp	Gas	2325	PLUGGED	39.072839	-80.540558
152	4704130163	Lewis	Nell Rohr	Reserve Gas Co.	Hampshire Grp	Gas	2183	PLUGGED	39.077770	-80.534049
153	4704130170	Lewis	M L Butcher	Reserve Gas Co.	Hampshire Grp	Gas	2304	PLUGGED	39.068923	-80.537022
154	4704130171	Lewis	Israel Simmons	Reserve Gas Co.	Hampshire Grp	Gas	2183	PLUGGED	39.089396	-80.540232
155	4704130221	Lewis	Israel Simmons	Hope Natural Gas Company	Hampshire Grp	Oil and Gas	2449	PLUGGED	39.095217	-80.540013
156	4704130251	Lewis	F White	Hope Natural Gas Company	Hampshire Grp	Oil and Gas	2362	PLUGGED	39.100628	-80.543925

SOUR	CE: WVGES DAT	ASET (202	0) and WVDEP WEBSITE A	ND FIELD SURVEYS	YELLOW DENO	TES WELL WITH TVD > 4,50	0'	DENOTES SU	RVEYED WELL COO	RDINATES
-						1				
174	4704130777	Lewis	Jas McKinley Hrs	Consolidated Gas Supply Corp.	not available	not available	-	PLUGGED	39.077625	-80.518979
173	4704130773	Lewis	Clark White	Consolidated Gas Supply Corp.	Hampshire Grp	Gas	2346	UNKNOWN	39.091347 39.077625	-80.527729
172	4704130720	Lewis	M L Butcher	Hope Natural Gas Company	Hampshire Grp	Oil and Gas	2206	PLUGGED	39.062687	-80.535716
171	4704130679	Lewis	Pleasant Alford	Hope Natural Gas Company	Hampshire Grp	Gas	2534	PLUGGED	39.061237	-80.524182
170	4704130659	Lewis	G L White	Hope Natural Gas Company	Hampshire Grp	Gas	2399	PLUGGED	39.079108	-80.544659
169	4704130628	Lewis	Fortunatus White	Hope Natural Gas Company	not available	not available	2702	UNKNOWN	39.119287	-80,539976
168	4704130592	Lewis	White Hall	Hope Natural Gas Company	Fifth	Gas	2250	PLUGGED	39.087966	-80.528286
167	4704130586	Lewis	Sarah A Kemper	Hope Natural Gas Company	Hampshire Grp	Gas	2241	PLUGGED	39.077727	-80.535725
166	4704130581	Lewis	Alfred Woofter	Hope Natural Gas Company	Hampshire Grp	Gas w/ Oil Show	2242	PLUGGED	39.079365	-80.533678
165	4704130578	Lewis	Fortunatus White	Hope Natural Gas Company	Hampshire Grp	Gas	2602	PLUGGED	39.117115	-80.543159
164	4704130573	Lewis	Fortunatus White	Hope Natural Gas Company	Hampshire Grp	Gas w/ Oil Show	2611	PLUGGED	39.113567	-80,546105
163	4704130572	Lewis	Israel Simmons	Hope Natural Gas Company	Hampshire Grp	Gas w/ Oil Show	2397	PLUGGED	39.098598	-80.551368
162	4704130529	Lewis	James R Bailey	Hope Natural Gas Company	Hampshire Grp	Gas w/ Oil Show	2250	PLUGGED	39.074144	-80.524931
161	4704130528	Lewis	Cora B Bailey	Hope Natural Gas Company	Hampshire Grp	Gas	2409	PLUGGED	39.077107	-80.542004
160	4704130523	Lewis	J T Lovett	Hope Natural Gas Company	Hampshire Grp	Oil and Gas	2244	PLUGGED	39.088876	-80.526763
159	4704130357	Lewis	Mary C Burnside	Hope Natural Gas Company	not available	not available	×	PLUGGED	39.116825	-80.535930
158	4704130319	Lewis	E W & R M Waggoner	Hope Natural Gas Company	Hampshire Grp	Gas	2443	PLUGGED	39.110702	-80.549391
157	4704130298	Lewis	Hannah Kemper	Hope Natural Gas Company	Hampshire Grp	Gas	2186	PLUGGED	39.088981	-80.526611

UPDATED 6/22/2022

HG Energy II Appalachia, LLC

# Site Safety Plan

Vaneck 1215 Well Pad 1451 Mare Run Road, Weston Lewis County, WV 26452

January 2022: Version 1

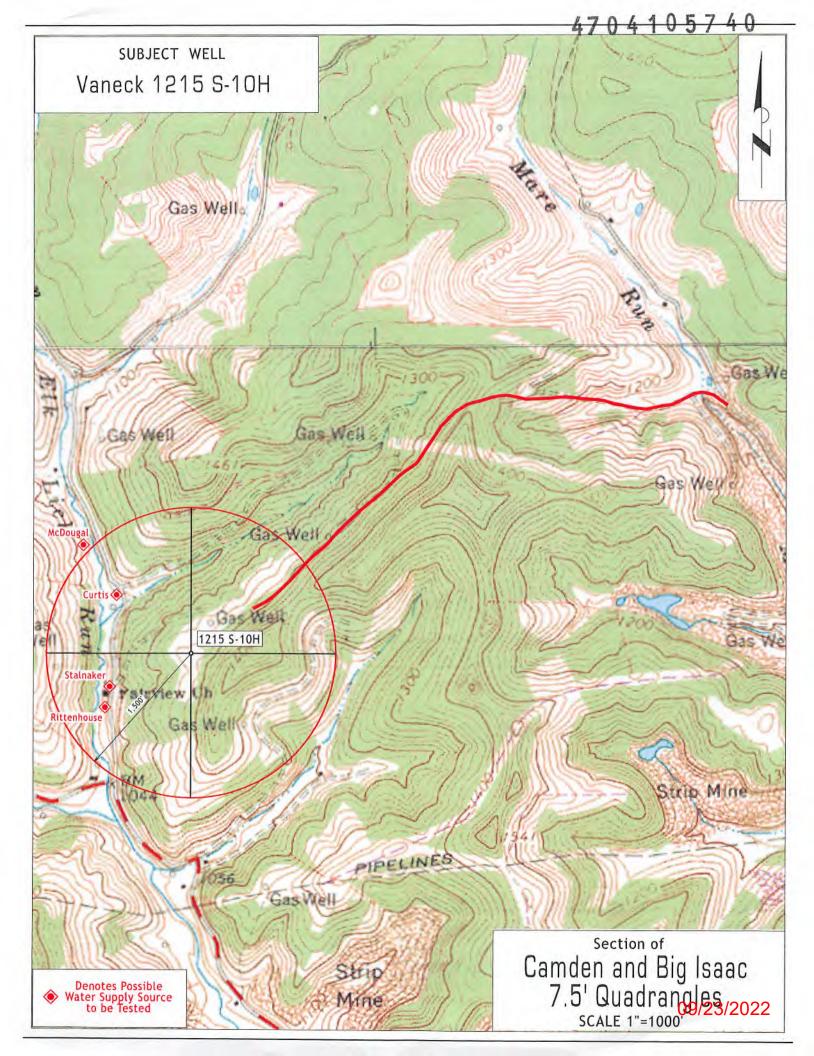
For Submission to West Virginia Department of Environmental Protection, Office of Oil and Gas

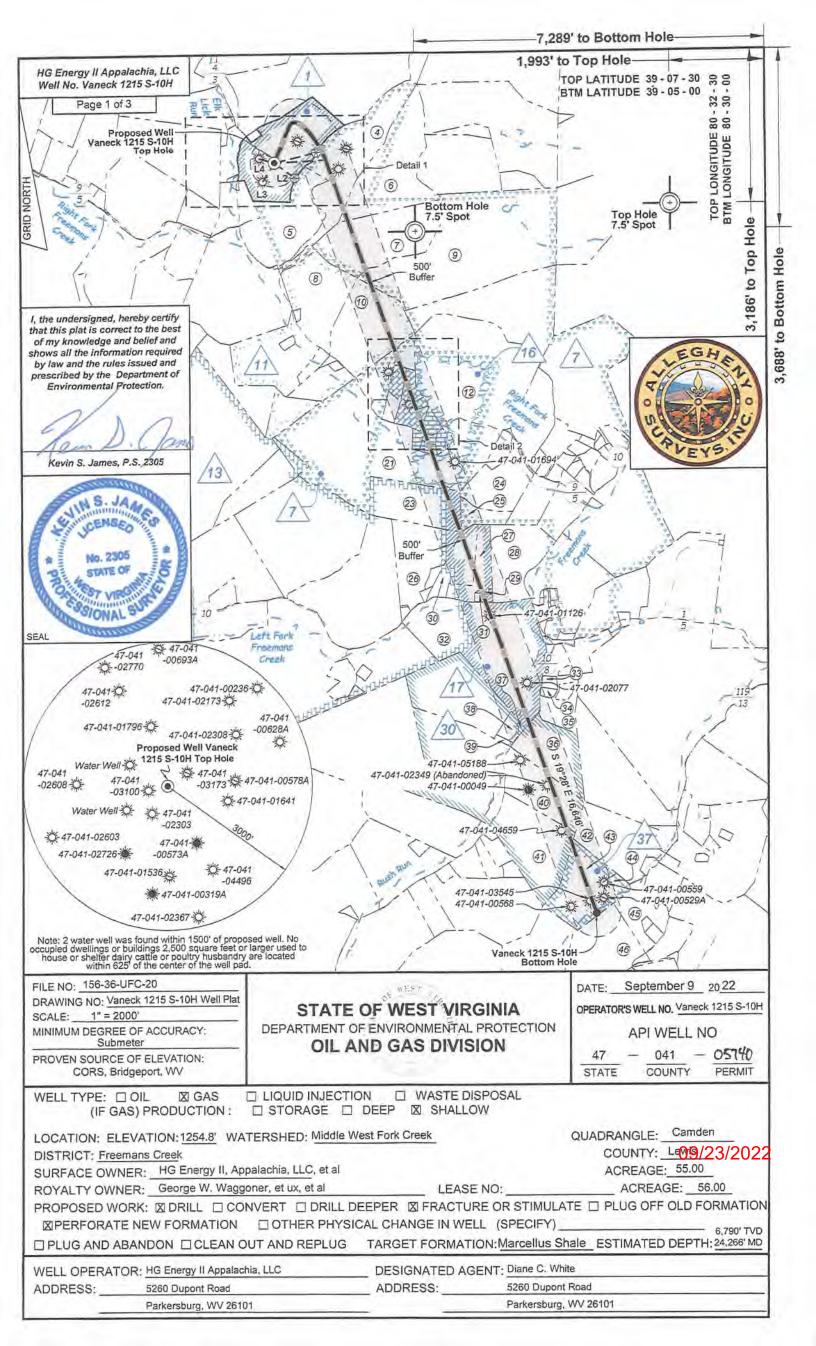
HG Energy II Appalachia, LLC 8/4/2022

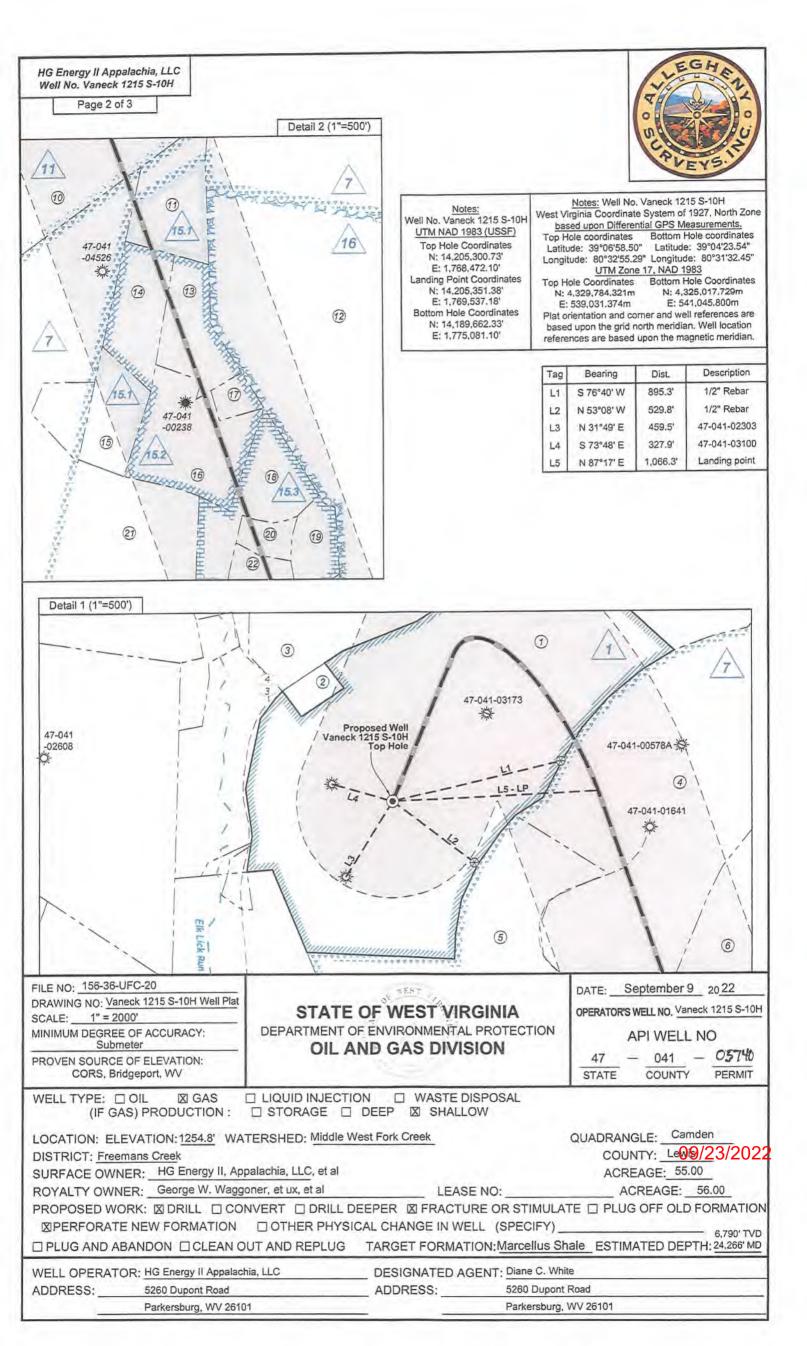
Spau

5260 Dupont Road

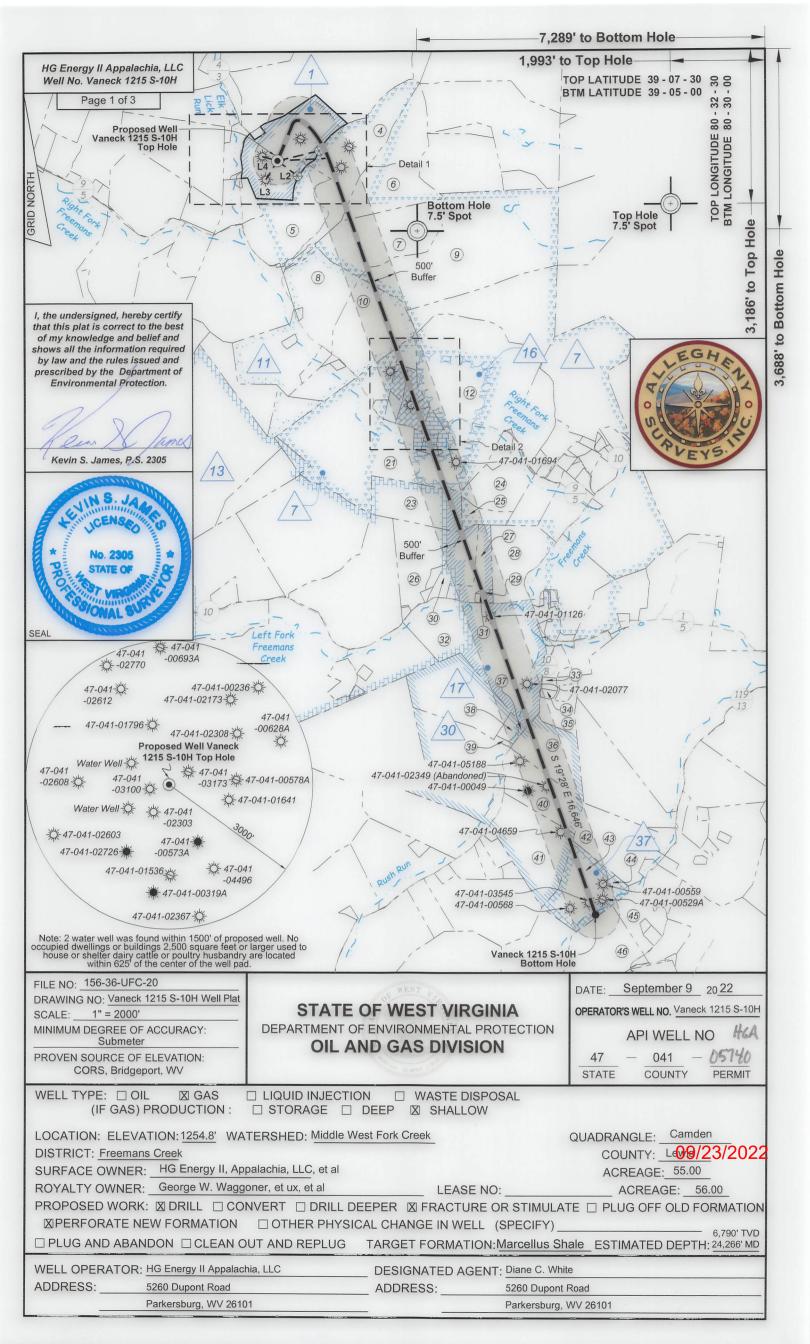
Parkersburg, WV 26101

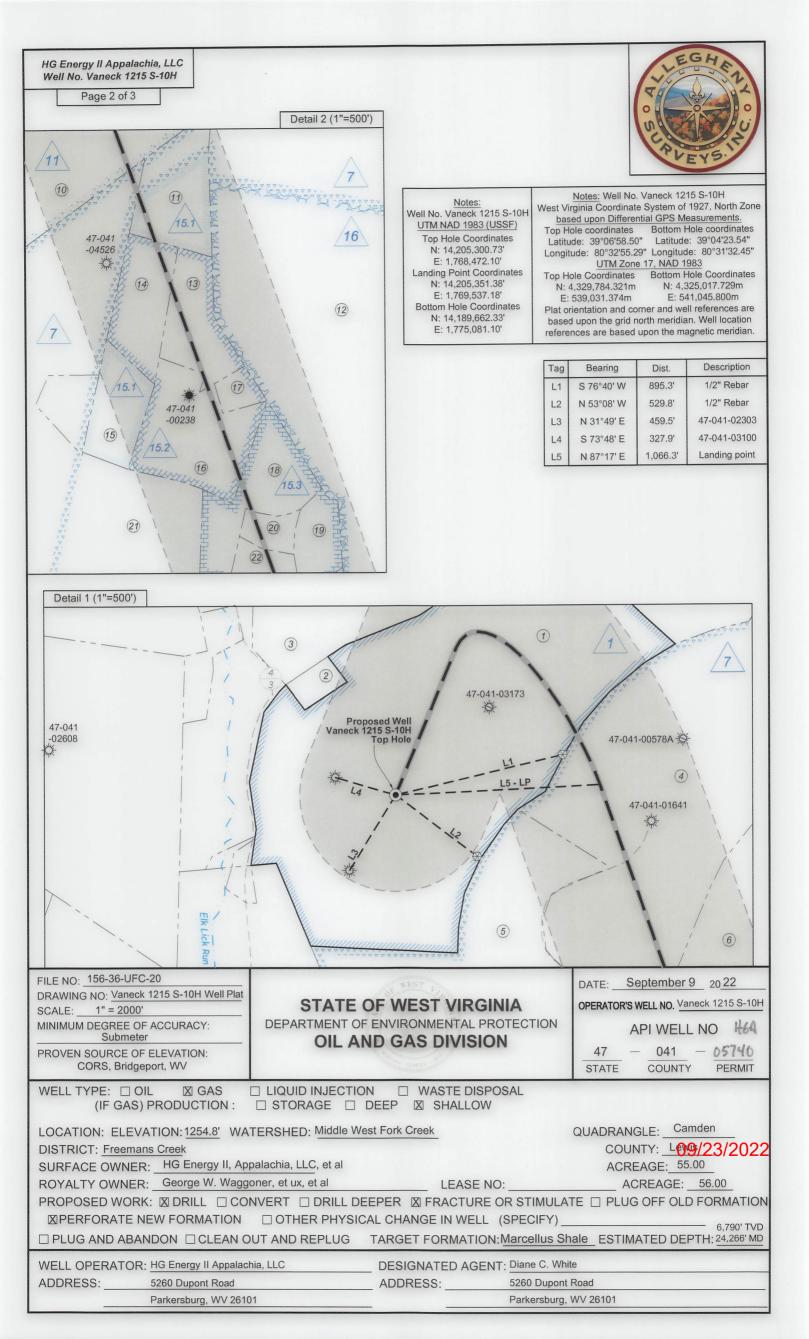






	y II Appalachia, LLC Vaneck 1215 S-10H				LEGHEN
on our condition	age 3 of 3				THE CONTRACT
-					
					E Z
					PVEYS.
ID G	Lease eorge W. Waggoner, et ux				
7	F. White Thomton Taylor, et al				
13 5.1	Israel Simmons Phillis Ann Greer, et al				
5.2 Don 5.3	nna Jean Taylor Wilson, et al Mike Ross, Inc., et al				
16	Clark White, et uz A.T. Simmons			E	Legend
17 30	Alfred Woofter, et ux				Proposed gas well
37 Ruth N	M. Gerstner, Attorney-in-fact for Comelia E. Fury, et vir.				Well Reference, as noted
	Caraly Dist				Honument, as noted
o. TM / Par	Lewis Co Freeman Creek Dist. Owner	Bk / Pg	Ac.		Existing Well, as noted
1 5C/29 2 5C/28	H.G. Energy II Appalachia, LLC Judith G. Piercy	765 / 894 F30 / 596	55.00		Existing Plugged Well, as not
5C/30 5C/27.2	Woody Lumber Co. Inc. Jack E, & Cerilda M. Waggoner	590 / 438 547 / 691	140.50 57.97		券 Digitized Well, as noted
5C/25 5C/22	Raymond C. & Colona J. Waggone Linda Lou Waggoner	er 567 / 416 W33 / 157	45.48 57.76		— — — Creek or Drain     — — — Existing Road
5C/22.1 5C/19			57.53 78.23		Surface boundary (approx.)
5C/45	Phillip E. Burnside, et al Billy E. Davisson	666 / 503	121.42		Adjoiner surface tracts (appro
0 5C/21 1 5C/20	Edward E. Garrett, et al	429 / 245	5.70		Mallhand Louist (STO)
2 5D/35 3 5D/21.3		671 / 495	4.09		Wellhead Layout (NTS)
4 5D/21.2 5 5D/21	Dawn Tomey	671 / 396 706 / 877	4.00		O Vaneck 1215 S-12H
6 5D/21.1 7 5D/21.4		712/574 727/800	7.93		S Vaneck 1215 S-7H
8 5D/23 9 5D/24	Patrick W. Halterman	F2 / 215 681 / 561	5.00 2.19		ci / P vancok into o riti
0 5D/24.1	Bruce & Pamela Morrison	503 / 169	1.18		0 12 Vaneck 1215 S-11H
1 5D / 19 2 5D / 24.2	Bruce & Pamela Morrison	503 / 169	1.63		Vaneck 1215 S-8H
3 5D / 25 4 5D / 36.2		Inv173 / 846 625 / 166	27.32		Proposed Well
5 5D/36 6 5D/26	Carroll G. Gum, et al Verna E. & Paul J. Heater, Jr.	625 / 343 561 / 371	9.71 34.80		Vaneck 1215 S-10H
7 5D/33 8 5D/39.3	Carroll G. Gum, et al Janice W. Sundstrom	625 / 343 W41 / 517	14.32 35.09		Vaneck 1215 S-9H
9 5D/33.2 0 5D/34		616 / 539 W35 / 524	0.48		
1 5D/33.1	Trudy D. Gum	450 / 516 577 / 351	1.49	г	Well Location References (NTS)
2 5D/32 3 5D/51.1	Tonya K. Shiver	722/383	1.80	-	
4 5D/51.4 5 5D/51	Michael & Glodell Morris	748 / 611 621 / 412	1.27 13.55		30" Maple
6 5D/31 7 5D/30.2	Edward E. Garrett Matthew R. & Linda R. Blake	334 / 565 603 / 372	81.27 0.62		2
8 5D/30 9 5D/30.1	Kathleen L. Ables Kathleen L. Ables	W24 / 417 W24 / 417	3.94		AZ93° 227
0 5D/29 1 5E/18.2	Edward E. Garrett	334 / 565 FR31 / 197	70.25		Intern .
2 5E/40	Michael G. & Laura S. Meixner Ronald L. Cunningham, Jr.	681 / 31	38.00		Proposed Well
3 5E/39	& Vicky A. Browning	426 / 546	34.09		Vaneck 1215 S-10H
4 5E/39.1	a vicky A. Drowning	493 / 31	4.66		14" & 15"
5 5E/37 5 5E/34	James E. & Edith A. Browning Ronald L. Cunningham, Jr.	486 / 387	17.88 37.47		Double Map
2	& Vicky A. Browning 56-36-UFC-20			0.000	DATE Contembor 0
DRAWING N	NO: Vaneck 1215 S-10H Well Plat		-	NEST ARDOINUA	DATE: September 9 2022
SCALE:	1" = 2000'			WEST VIRGINIA	OPERATOR'S WELL NO. Vaneck 1215 S-1
MINIMUM D	EGREE OF ACCURACY: Submeter	a specific to the second second		GAS DIVISION	API WELL NO
Children to sell O alla	OURCE OF ELEVATION:	UIL	AND		47 - 041 - 05740
	DRS, Bridgeport, WV				STATE COUNTY PERMI
		LIQUID INJEC		WASTE DISPOSAL     SHALLOW	
					And a second
	N: ELEVATION: 1254.8' WATE	ERSHED: Middl	e West F	rk Creek	QUADRANGLE: Camden
	T: Freemans Creek E OWNER: HG Energy II, Appa	lachia. LLC. et al			COUNTY: Lewis/23/20
	OWNER: George W. Waggon			LEASE NO:	ACREAGE. 00.00
	ORATE NEW FORMATION				6.790' T
	AND ABANDON	T AND REPLU	G TA	GET FORMATION: Marcellus S	hale_ESTIMATED DEPTH: 24,266')
WELL OP	ERATOR: HG Energy II Appalachia	, LLC	D	SIGNATED AGENT: Diane C. Wr	hite
ADDRESS				DRESS: 5260 Dupon	
	Parkersburg, WV 26101			Parkersburg	140/00404





	I Appalachia, LLC neck 1215 S-10H				LEGHEL
Pag	e 3 of 3				T
					WHAT I'V
					PVEYS.
ID 1 Geo	Lease rge W. Waggoner, et ux				
	F. White Thornton Taylor, et al				
	Israel Simmons Thillis Ann Greer, et al a Jean Taylor Wilson, et al				
0.100	Vike Ross, Inc., et al Clark White, et ux			Г	Legend
	A.T. Simmons Alfred Woofter, et ux				Proposed gas well
27	Gerstner, Attorney-in-fact for ornelia E. Fury, et vir.				Well Reference, as noted
Γ	Lewis Co Freeman Creek Dis				<ul> <li>↔ Monument, as noted</li> <li>↔ Existing Well, as noted</li> </ul>
o. TM / Par 1 5C / 29	Owner H.G. Energy II Appalachia, LLC		Ac. 55.00		Existing Plugged Well, as not
2 5C / 28 3 5C / 30 4 5C / 27.2	Judith G. Piercy Woody Lumber Co. Inc. Jack E. & Cerilda M. Waggone	F30 / 596 590 / 438 r 547 / 691	1.00 140.50 57.97		茶 Digitized Well, as noted
5C/25 5C/25 5C/22	Raymond C. & Colona J. Waggo Linda Lou Waggoner	ner 567 / 416 W33 / 157	45.48 57.76		— — — Creek or Drain — — — — Existing Road
5C / 22.1 5C / 19	Janet L. & Joseph C. Waggoner, Randal D. & Martika Mick	Sr. 705 / 183 763 / 674	57.53 78.23		Surface boundary (approx.)
5C / 45           0         5C / 21	Phillip E. Burnside, et al Billy E. Davisson Edward E. Garrett, et al	666 / 503 661 / 708 429 / 245	121.42 54.11 5.70	L	
1 5C / 20 2 5D / 35 3 5D / 21.3	Edward E. Garrett, et al Edward E. Garrett, et al Cherri A. Neth	429 / 245 429 / 245 671 / 495	130.47 4.09	[	Wellhead Layout (NTS)
4 5D / 21.2 5 5D / 21	Michelle D. Harter Dawn Tomey	671 / 396 706 / 877	4.00		O Vaneck 1215 S-12H
6 5D / 21.1 7 5D / 21.4	Rusty Wilfong (LE) Rusty Wilfong (LE)	712 / 574 727 / 800	7.93 0.90		S Vaneck 1215 S-7H
8 5D / 23 9 5D / 24	Patrick W. Halterman Jeff Quesenberry Bruce & Pamela Morrison	F2 / 215 681 / 561 503 / 169	5.00 2.19 1.18		0. 
0 5D / 24.1 1 5D / 19 2 5D / 24.2	Smoke Camp Crafts, LLC Bruce & Pamela Morrison	767 / 832	124.75 1.63		
3 5D / 25 4 5D / 36.2	Dorothy M. Davis Clifford B. Messenger	Inv173 / 846 625 / 166	35.75 27.32		Waneck 1215 S-8H
5 5D / 36 6 5D / 26	Carroll G. Gum, et al Verna E. & Paul J. Heater, Jr.		9.71 34.80		Proposed Well Vaneck 1215 S-10H
7 5D/33 8 5D/39.3	Carroll G. Gum, et al Janice W. Sundstrom Trudy D. Gum	625 / 343 W41 / 517	14.32 35.09		S Vaneck 1215 S-9H
9 5D / 33.2 0 5D / 34 31 5D / 33.1	Betty E. Rhoades Trudy D. Gum	616 / 539 W35 / 524 450 / 516	0.48 16.90 1.49	, L	
2 5D / 32 3 5D / 51.1	Burce Garrett, et al Tonya K. Shiver	577 / 351	100.60		Well Location References (NTS)
4 5D / 51.4 5 5D / 51	Carl E. & Pearline Mealey Michael & Glodell Morris	748 / 611 621 / 412	1.27 13.55		30" Maple
6 5D / 31 7 5D / 30.2	Edward E. Garrett Matthew R. & Linda R. Blake		81.27 0.62		★ - AZ93° 227' - ●
8 5D / 30 9 5D / 30.1 0 5D / 29	Kathleen L. Ables Kathleen L. Ables Edward E. Garrett	W24 / 417 W24 / 417 334 / 565	3.94 3.94 70.25		1203 221
1 5E / 18.2 2 5E / 40	Robert P. Snuffer Michael G. & Laura S. Meixne	FR31 / 197	49.16 38.00		Proposed Well Vaneck 1215 S-10H
3 5E/39	Ronald L. Cunningham, Jr. & Vicky A. Browning	426 / 546	34.09		Vaneck 1215 S-10H
4 5E / 39.1	Ronald L. Cunningham, Jr. & Vicky A. Browning James E. & Edith A. Browning	493 / 31	4.66		14" & 15" Double Mar
5 5E / 37 6 5E / 34	Ronald L. Cunningham, Jr. & Vicky A. Browning	486 / 387           426 / 546	17.88 37.47		Double Map
FILE NO: 156	6-36-UFC-20			WEST L	DATE: September 9 2022
DRAWING NO	): <u>Vaneck 1215 S-10H Well Plat</u> " = 2000'		241	WEST VIRGINIA	OPERATOR'S WELL NO. Vaneck 1215 S-1
	GREE OF ACCURACY: Submeter			IVIRONMENTAL PROTECTION GAS DIVISION	API WELL NO
	JRCE OF ELEVATION: S, Bridgeport, WV	UIL	AND		47 – 041 – 05740 STATE COUNTY PERMI
WELL TYPE			CTION	U WASTE DISPOSAL	COUNT PERMI
		STORAGE			
	: ELEVATION: <u>1254.8'</u> WAT	ERSHED: Middl	e West F	ork Creek	QUADRANGLE: Camden
	Freemans Creek OWNER: HG Energy II, App	alachia, LLC, et a	I		COUNTY: <u>L09/23/20</u> ACREAGE: 55.00
ROYALTY	OWNER: George W. Waggo	oner, et ux, et al		LEASE NO:	ACREAGE: 56.00
	D WORK: ⊠ DRILL □ CON RATE NEW FORMATION			ER 🖾 FRACTURE OR STIMUL CHANGE IN WELL (SPECIFY)	ATE 🔲 PLUG OFF OLD FORMATI
					6,790' T Shale ESTIMATED DEPTH: 24,266'
	RATOR: HG Energy II Appalach	ia, LLC	C	ESIGNATED AGENT: Diane C. W	hite
WELL OPE					

WW-6A1 (5/13) Operator's Well No. Vaneck 1215 S-10H

#### 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\*\*

#### 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

RECEIVED Office of OF and Gas

AUG 1 9 2022

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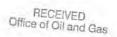
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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

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

Page 1 of \_\_\_\_

## 09/23/2022



HG Energy II Appalachia, LLC - Vaneck 1215 S10H Lease Chain

AUG 1 9 2022

1215S Tract	LEGACY LEASE NUMBER	ΤΑΧ ΜΑΡ	LEASE NUMBER	GRANTOR/LESSOR	WV Department of Environmental Protection GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE	
	100			GEO. W. WAGGONER AND ROSA M. WAGGONER, HIS WIFE	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	NOT LESS THAN 1/8	73	38	
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	85	14	
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	3	
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	DEED	125	3	
				PITTSBURG AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY	ASSIGNMENT	216	1	
				EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	246		
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294		
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425		
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS		
		and branches and		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS		
1	FK051509	03-005C-0027-0001	Q100665000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672		
	Sectors 1	03-005C-0029-0000	2 departments	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	1.100	
				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	WV5O5		
			DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC FARMOUT AGREEMENT		SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723			
						THIRD AMENDMENT TO MEMORANDUM OF			
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	1	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736		
	( )	03-005C-0022-0001 03-005C-0023-0000 T. N p/a 03-005C-0023-0000 RES 03-005C-0027-0000 HO		F. WHITE	SOUTHERN OIL COMPANY	NOT LESS THAN 1/8	40		
			T. N.BARNSDALL, SOUTHERN OIL COMPANY, AND FRED S. RICH	RESERVE GAS COMPANY	ASSIGNMENT	85			
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155		
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294		
		03-005C-0027-0002 03-005C-0045-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425		
		03-005C-0046-0000		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS		
	1 1	p/s 03-005D-0019-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS		
		03-005D-0020-0000 p/o 03-005D-0035-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672		
		03-005D-0036-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684		
		03-0050-0036-0001 DOMINION TRANSMISSION INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. PARTIAL ASSIG		PARTIAL ASSIGNMENT (32%)	712				
7	FK053097	p/o 03-005D-0036-0002 03-005D-0037-0000	Q100333000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717		
	11055057	p/o 03-005D-0038-0000	quotocorre	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722		
		p/o 03-005D-0039-0000		DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVS05	1	
		03-0050-0039-0001 p/o 03-0050-0039-0003 p/o 03-0050-0045-0000 p/o 03-0050-0045-0000 03-0050-0050-0000 03-0050-0050-0000 03-0050-0060-0001 THBU	p/o 03-005D-0039-0003	2	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	_
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734		
		03-005D-0060-0018 03-005D-0061-0000 03-005D-0061-0001 03-005D-0062-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736		

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				THORNTON T. TAYLOR; S. T. TAYLOR AND M. B. TAYLOR, HIS WIFE;				
		1	1.0	AND OVA LESTER AND W. G. LESTER, HER HUSBAND	RESERVE GAS COMPANY	NOT LESS THAN 1/8	68	
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
		03-005C-0019-0000		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
		03-005C-0019-0011		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9	
		03-005C-0019-0002		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	
	European Co.	03-005C-0019-0003		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
.1	FK053266	03-005C-0021-0000	Q100768000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	
	1000	03-005C-0021-0001		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
		03-005C-0021-0002		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
		03-005D-0067-0000		DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	
						THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	
				PHYLLIS ANN GREER	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	763	
				SUSAN ELEANOR CAINE AKA SUSAN C. TYSZKIEWICA	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	763	
				DONNA JEAN TAYLOR WILSON	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	764	-
				WARREN W. DEVER	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	765	-
					nd Energy in Act Abacilly Ecc	Not webs that sto	1.8.8	
				THE V.L.T. FAMILY TRUST BY VICKI ANN OTT, SUCCESSOR TRUSTEE	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	770	
		K		Mike Ross, Inc.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	782	
				Waco Oil & Gas, Inc.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	781	
				Susan Eleanor Caine AKA Susan C. Tyszkiewicz	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	782	
			No. 199	Donna Jean Taylor Wilson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	780	
			10	Carol Taylor	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	783	
				Steven E. Duty	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	781	
		the second se		Ronald L. Duty, by Tiffany N. Hogan, agent and attorney in fact	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	785	
.1		03-005C-0020-0000	Stations and	Tiffany N. Hogan	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	785	-
		03-005D-0021-0000	TBD	Deborah L. Kinert	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	783	
		A subject of the state of the		Paula Jane Morrison Taylor	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	785	
				Larry Edwin Linger	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	782	-
				Lou Gary Linger	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	782	-
				Lisa Dawn Mullooly	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	782	
				Thomas Edward Mullooly II	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	
				Lisa Joette Chambers	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	782	
		1		Brian K, Lough A/K/A B, K, Lough	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	-
				Steven C. Lough	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	-
				Kevin J. Lough	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	
				Robin L. Everitt	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	
			900 A	Sheri F. Jacobs	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	-
			32.8	David A. Lough	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	
	1	5	Office of Clinic	Cathy J. Randolph	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	
-	-	So b.	6 2 200		HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	780	
		Winth	1 9 TOL	Mike Ross, Inc.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	780	
		20.9	20 80	Waco Oil & Gas. Inc.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	781	
		0.7	3 8	Susan Eleanor Caine AKA Susan C. Tyszkiewicz	and a second	NOT LESS THAN 1/8	782	-
		3	19, 20,	Donna Jean Taylor Wilson	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	782	
			3.91	Carol Taylor	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	780	
			10	Steven E. Duty	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	781	_

				Brian K. Lough A/K/A B. K. Lough Steven C. Lough	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8 NOT LESS THAN 1/8	784 784	;
				Steven C. Lough	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	
				Kevin J. Lough	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	1
				Robin L. Everitt	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	2
			0	Sheri F. Jacobs	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	1
				David A. Lough	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	
				Cathy J. Randolph	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	
-				Mike Ross, Inc.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	782	
	The second second		0	Waco Oil & Gas, Inc.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	781	-
			1	Susan Eleanor Caine AKA Susan C. Tyszkiewicz	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	782	
				Donna Jean Taylor Wilson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	780	1
				Carol Taylor	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	783	
			0	Steven E. Duty	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	781	
				Ronald L. Duty, by Tiffany N. Hogan, agent and attorney in fact	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	785	
				Tiffany N. Hogan	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	785	_
				Deborah L. Kinert	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	783	
				Paula Jane Morrison Taylor	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	785	
10.0		03-005D-0023-0000	TOD	Larry Edwin Linger	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	782	
15.3		03-005D-0024-0000 03-005D-0024-0001	TBD	Lou Gary Linger	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	782	
		03-005D-0024-0001 03-005D-0024-0002		Lisa Dawn Mullooly	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	782	
		03-0050-0024-0002		Thomas Edward Mullooly II	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	
				Lisa Joette Chambers	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	782	
				Brian K. Lough A/K/A B. K. Lough	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	
				Steven C. Lough	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	
				Kevin J, Lough	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	
				Robin L. Everitt	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	
				Sheri F. Jacobs	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	
				David A. Lough	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	
				Cathy J. Randolph	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	784	
		1		CLARK WHITE AND KATE E. WHITE, HIS WIFE	SOUTHERN OIL COMPANY	NOT LESS THAN 1/8	40	_
				T. N.BARNSDALL, SOUTHERN OIL COMPANY, FRED S. RICH AND W. S.		1 () · · · · · · · · · · · · · · · · · ·	A second second fill	
		2		MORRIS	RESERVE GAS COMPANY	ASSIGNMENT	85	
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	155	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
16	FK053098	p/o 03-005D-0019-0000	CNX053098	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSO5	
10	FRUSSU98	p/o 03-005D-0035-0000	CINA053098	DOMINION TRANSMISSION, INC.	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	
				CONSOL ENERGY HOLDINGS LLC XVI AND CONSOL GAS COMPANY	CNX GAS COMPANY	MERGER/NAME CHANGE	9	
		RI	CEIVED	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	659	_
		Offica (	f Oil and Gas	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
						ASSIGNMENT	722	

WV Department of Environmental Protection 04105740

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WV Department of Environmental Protection

	() () ()	1		DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WV5O5	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	-
				ISRAEL SIMMONS	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	
				SOUTH PENN OIL COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79	
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	DEED	155	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
		03-005D-0012-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
		03-005D-0012-0001		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
		03-005D-0012-0002		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
	· · · ·	03-005D-0012-0003		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	
1.2	index into	03-005D-0015-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
13	FK053172	03-005D-0015-0001	Q100481000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	
		03-005D-0016-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
		03-005D-0017-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
		03-005D-0018-0000		DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		03-005D-0027-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	
				DOMINION ENERGY INCHIOSION, INC.	no chenor in Archaranny aco.	THIRD AMENDMENT TO MEMORANDUM OF		_
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	
	· · · · · · · · · · · · · · · · · · ·			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	-
				A. T. SIMMONS, WIDOWER	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	261	-
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	_
		03-005D-0033-0001		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	_
		03-005D-0033-0002		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	_
		p/o 03-005D-0025-0000 03-005D-0026-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	_
17	CNX069299			DOMINION TRANSMISSION INC	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	
	CINCOSESS	03-005D-0032-0000		CONSOL ENERGY HOLDING LLC XVI	CONSOL GAS COMPANY	MERGER/NAME CHANGE	WVSOS	_
	1.00	03-005D-0033-0000		CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	WVSOS	-
		03-005D-0034-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	659	_
		05 0055 0054 0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	_
	1			NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
								-
	1.1.1.1.1.1.1.1			ALFRED WOOFTER AND MARY M. WOOFTER, HUSBAND AND WIFE	RESERVE GAS COMPANY	NOT LESS THAN 1/8	58	-
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	
		and an an Array Street and		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
		03-005D-0031-0000		CONSOLIDATED GAS SUPPLY CORPORATION	ALLEGHENY LAND AND MINERAL COMPANY	ASSIGNMENT	380	_
	1	p/o 03-005D-0030-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	-
	and the second second	03-005D-0030-0001	1.1	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG DEVELOPMENT COMPANY	DEED	438	_
30	FK053205	p/o 03-005D-0030-0002		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	_
		03-005D-0029-0000 03-005E-0018-0000		CNG DEVELOPMENT COMPANY	DOMINION EXPLORATION AND PRODUCTION INC	MERGER/NAME CHANGE	WVSOS	_
		03-005E-0018-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		03-005D-0018-0002		DOMINION EXPLORATION AND PRODUCTION INC.	CONSOL GAS COMPANY	MERGER/NAME CHANGE	WVSOS	
		02 0020 0010 002		DOMINION TRANSMISSION INC	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	
				CONSOL ENERGY HOLDINGS LLC XVI	CONSOL GAS COMPANY	MERGER/NAME CHANGE	WVSOS	_
		F	ECEIVED	CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	WVSOS	-
		Office	of Oil and Gas	CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	766	
		1		RUTH M. GERSTNER, ATTORNEY-IN-FACT FOR CORNELIA E. FURY; AND				
		A11	5 1 9 2022	D. J. FURY, HUSBAND OF CORNELIA E. FURY	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	261	-

		FLORENCE B. WAGGONER AND BLAND WAGGONER, RICHARD E. BAILEY AND HOPE BAILEY, HIS WIFE; COF FURY, BY RUTH GERSTNER, HER ATTORNEY-IN-FACT,	RNELIA BAILEY			
37	03-005E-0039-0000	FURY, HUSBAND OF THE SAID CORNELIA BAILEY FUR	Y JAMES H. HALL	NOT LESS THAN 1/8	263	149
	03-005E-0039-0001	HOPE NATURAL GAS COMPANY	JAMES H. HALL	ASSIGNMENT	263	347
			PATRICIA S. HALL, WIDOW; STEPHEN HALL, SON; DEB	ORAH H.		
		JAMES H. HALL	LARUE, DAUGHTER; AND CATHERINE ANN YURA, DAU	JGHTER FIDUCIARY RECORD	19	248
		DEBORAH H. EDDY AND CATHERINE ANN YURA, TRU				153
		JAMES H HALL TRUST	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	784	153

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AUG 1 9 2022

WV Department of Environmental Protection



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

July 29, 2022

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

RE: Drilling Under Roads – Vaneck 1215 S-10H 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 Vaneck 1215 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 Vaneck 1215 laterals will drill through including any and all roads crossed under as identified on the attached survey plat.

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

Very truly yours,

Diane White

Diane C. White

Enclosures

Office of OF and Gas

AUG 1 9 2022

WV Department of Environmental Protection

09/23/2022

WW-6AC (1/12)

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

Date of Notice Certification: 07/19/2022

<b>API No.</b> 47-	-
<b>Operator's Well N</b>	No. Vaneck 1215 S-10H
Well Pad Name:	Vaneck 1215 Well Pad

#### Notice has been given:

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

State:	West Virginia	UTM NAD 83	Easting:	539031.4	
County:	Lewis	UTMINAD 85	Northing:	4329784.4	
District:	Freemans Creek	Public Road Ac	cess:	Mare Run Road / CR 10 / 9	
Quadrangle:	Camden WV 7.5's	Generally used	farm name:	Vaneck	
Watershed:	Middle West Fork Creek				

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

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

#### **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.

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AUG 19 2022 09/23/2022 WV Department of Environmental Protection

#### 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	
	NOTARY SEAL	Subscribed and swo	orn before me this 21st day of July, 2022	

MATARY SEAL	Subscribed and sworn before me this 2101 day of	July, 2022
OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA	Caringbach	Notary Public
Cassidy Boardman 5260 Dunport Rd Parkersburg, WV 26101 My Commission Expires July 31, 2027	My Commission Expires 7 3( 2027	

#### Oil and Gas Privacy Notice:

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

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AUG 1 9 2022

WV Department of Environmental Propertion

WW-6A	
(9-13)	

## API NO. 47-\_\_\_\_ OPERATOR WELL NO. Vaneck 1215 N1H-S12H

Well Pad Name: Vaneck 1215

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

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

Date of Notice: 01/17/2022 Date Permit Application Filed: 01/25/22

Noti	ice of:			開設
$\checkmark$	PERMIT FOR ANY		CERTIFICATE OF APPROVAL FOR THE	Sales-
	WELL WORK	•	CONSTRUCTION OF AN IMPOUNDMENT OR PIT	

REDEVED Office of Offand Gas . AUG 1 9 2012

WV Department of

Environmental Frotection

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

PERSONAL	REGISTERED
SERVICE	MAIL

METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

	cation Notice 🛛 WSSP Notice 🖉 E&S		☑ Well I	Plat Notice	is hereby prov	vided to:	RECEIVED office of Oil and Gas
☑ SURFA Name:	ACE OWNER(s) * Not noticed as 5 Owner 1's also HG Energy II Appalachia, LLC (pad and road)	urface: o the Operator	□ COAL Name: _N	OWNER OR	LESSEE		AUG 1 9 2022
Address:	5260 Dupont Road	•	Address:			·	WV Department of
Name:	Parkersburg, WV 26101			OPERATOR		En	W Department Protection
Address:			Name: N	IA ·	- ·		-
	ACE OWNER(s) (Road and/or Other Dist	urbance)	Address:				- ·
Name:	Nancy Hayhurst	urbance)			R OF WATER		-
Address:	195 Rexroad Drive		AND/OR Name:	Charles Curtis	JRVEYOR(s) Gary Stalnaker	Timothy Rittenhouse	
Name:	Weston, WV 20452		Address:			1729 R Freemans Creek	-
Address:	201 Vicksburg Road				Weston, WV 26452		-
	Buckhannon, WV 26201 ACE OWNER(s) (Impoundments or Pits)		MOPERA Name:		VY NATURA Transmission - Att	•	
Name: Address:			Address:	925 White Oaks Bridgeport, WV			-
			den 1		1.0 .0		

\*Please attach additional forms if necessary

WW-6A (8-13)

API NO. 47-OPERATOR WELL NO. Vaneok 1215 N111- 512H Well Pad Name: Vaneck 1215

#### 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/oiland-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 distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13)

#### API NO. 47-

OPERATOR WELL NO. Vaneck 1215 N1H-S12H Well Pad Name: Vaneck 1215

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

### Water Well Testing:

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

#### Water Testing Laboratories:

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

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

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

#### Written Comment:

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

#### Chief, Office of Oil and Gas

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

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

WW-6A (8-13)

## Time Limits and Methods for Filing Comments.

OPERATOR WELL NO, Vaneck 1215 N1H-S12H Well Pad Name: Vaneck 1215

API NO. 47-

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

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

### **Comment Requirements**

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

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

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

## Permit Denial or Condition

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

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

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

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

WW-6A (8-13)

API NO. 47-OPERATOR WELL NO. Vaneck 1215 N1H-S1211 Well Pad Name: Vaneck 1215

### Notice is hereby given by:

Wall Onerator	HG Energy II Appalachia, LLC	C	Address:	5260 Dupont Ruau				
and the second se	304-420-1119			Parkersburg, WV 26101				
Telephone: Email:	dwhite@hgenergyllc.com	Diane white	Facsimile:	304-863-2172				

### Oil and Gas Privacy Notice:

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

OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Mark J Schall HG Energy LLC 5250 DUPONT ROAD PARKERSBURG WV 26105 Y COMMISSION DOPINIS NOVTMERT 2, 2028

Subscribed and sworn before me this 17th day of January ,2022 Notary Public My Commission Expires 2026

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RECEIVED . Office of Dil and Gas

AUG 1 9 2022

WV Det over 1 of Environmental Protection



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

January\19, 2022

Dominion Energy Transmission Attn: Ronald Waldren 925 White Oaks Blvd Bridgeport, WV 26330 AUG 1 9 2022

RE: Vaneck 1215 N-1H – S-12H Well Work Permit Applications - Notification Freemans Creek District, Lewis County West Virginia

Dear Sir -

Enclosed are copies of various application papers that we will be filing with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a surface owner (road) are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures



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

January\19, 2022

Timothy Rittenhouse 1729 R Freeman's Creek Weston, WV 26452 RECEIVED Office of Oil and Gas

AUG 1 9 2022

Wr/ Demour Cault M Environmental Protoction

RE: Vaneck 1215 N-1H – S-12H Well Work Permit Applications - Notification Freemans Creek District, Lewis County West Virginia

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Very truly yours,

Diane White

Diane C. White





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

January\19, 2022

Gary Stalnaker 179 Elk Lick Road Weston, WV 26452

RE: Vaneck 1215 N-1H – S-12H Well Work Permit Applications - Notification Freemans Creek District, Lewis County West Virginia

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Diane C. White

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V/ Lat Environmanual Planetion



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

January\19, 2022

Charlie Curtis 377 Elk Lick Road Weston, WV 26452

RE: Vaneck 1215 N-1H – S-12H Well Work Permit Applications - Notification Freemans Creek District, Lewis County West Virginia

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Diane C. White

Office of Office of Gas

AUG 1 9 2022

WV Separate of Environmental protection



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

January\19, 2022

Woody Lumber Company 201 Vicksburg Road Buckhannon, WV 26201 RECEIVED Office of Oil and Gas

AUG 1 9 2022

Wordenatmust of Environmental molection

RE: Vaneck 1215 N-1H – S-12H Well Work Permit Applications - Notification Freemans Creek District, Lewis County West Virginia

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Very truly yours,

Diane White

Diane C. White



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

January\19, 2022

Nancy Hayhurst 195 Rexroad Drive Weston, WV 26452

RE: Vaneck 1215 N-1H – S-12H Well Work Permit Applications - Notification Freemans Creek District, Lewis County West Virginia

Dear Ms. Hayhurst -

Enclosed are copies of various application papers that we will be filing with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a surface owner (road) are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours,

Diane White

Diane C. White



GARY STALNAKER VANECK 1215 VICTORIA L. HOOPS, PRESIDENT

COMPANY:	H.G. ENERGY, LLC.
OOTHE THEFT,	TTI CI III III III III III

SAMPLED BY: K. WILLIAMS

SAMPLE ID:

 DATE/TIME SAMPLED:
 01-04-22 1550

 DATE/TIME RECEIVED:
 01-04-22 1654

 LABORATORY ID:
 HG 220104-1

PARAMETER TEST RESULTS		UNITS	METHOD	METHOD DETECTION LIMIT	MINIMUM REPORTING LIMIT	DATE/TIME ANALYZED	ANALYST
FIELD pH	7.6	units				01-04-22 1550	KW
FIELD TEMP	20.2	°C				01-04-22 1550	KW
FIELD COND	1233	μmhos				01-04-22 1550	KW
LATTITUDE	39 06 55.33	N			1	01-04-22 1550	- KW
LONGITUDE	80.33 04.79	W				01-04-22 1550	KW
pH O	7.5	units	SM 22 <sup>nd</sup> 4500 H B	.1	210.	. 01-05-22 1426	ZT
Fe	2.59	mg/L	EPA 200.7 Rev 4.4-1994	.05	.25	01-06-22 2007	DB
TDS	148	mg/L	USGS I-1750-85	4	4	01-06-22 1527	MRM
Cl	3.75	mg/L	EPA 300.0 Rev 2.1-1993	1.0	1.0	01-07-26 0729	DC
MBAS	.05	mg/L	SM22 <sup>nd</sup> 5540C	.02	.04	01-05-22 2101	SW
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							1

\*Client Provided

\*\*See Attached. The following results meet or exceed requirements and standards set forth by the certifying authority except where noted. Data Qualifiers

B Analyte found in reagent blank. Indicates possible reagent or background contamination.

E Estimated Reported value exceeded calibration range.

J Reported value is an estimate because concentration is less than reporting limit.

PND Precision not determined.

R Sample results rejected because of gross deficiencies in QC or method performance. Re-sampling and/or re-analysis is necessary.

RND Recovery not determined.

U Compound was analyzed for, but not detected.

O Out of holding. Time does not meet 40 CFR 136/141 compliance.

T This result is not supported by our certification ID.

A Does not meet 40 CFR 136/141 compliance.

C Does not meet 47 CSR 32 compliance.

Narrative:

Approved Dough & Douto



VICTORIA L. HOOPS, PRESIDENT

H.G. ENERGY, LLC. COMPANY:

01-04-22 1605 DATE/TIME SAMPLED:

DATE/TIME RECEIVED: 01-04-22 1654

LABORATORY ID:

HG 220104-2

CHARLES CURTIS SAMPLE ID: VANECK 1215 SAMPLED BY: K. WILLIAMS

PARAMETER	TEST RESULTS	UNITS	METHOD	METHOD DETECTION LIMIT	MINIMUM REPORTING LIMIT	DATE/TIME ANALYZED	ANALYST
FIELD pH	7.3	units				01-04-22 1605	KW
FIELD TEMP	13.5	°C				01-04-22 1605	KW
FIELD COND	584	μmhos		,		01-04-22 1605	KW
LATTITUDE	39 07 05.24	N				01-04-22 1605	KW
LONGITUDE	80 33 0353	W				01-04-22 1605	KW
рН О	7.1	units	SM 22 <sup>nd</sup> 4500 H B	.1	210.	01-05-22 1426	ZT
Fe	3.87	mg/L	EPA 200.7 Rev 4.4-1994	.05	.25	01-06-22 2007	DB
TDS	146	mg/L	USGS I-1750-85	4	4	01-06-22 1527	MRM
Cl-	2.70	mg/L	EPA 300.0 Rev 2.1-1993	1.0	1.0	01-07-26 0729	DC
MBAS	.03 J	mg/L	SM22 <sup>nd</sup> 5540C	.02	.04	01-05-22 2101	SW
	P						
				-			
						BEC	

\*Client Provided

\*\*See Attached. The following results meet or exceed requirements and standards set forth by the certifying authority except where noted. AUG 1 Data Qualifiers

Analyte found in reagent blank. Indicates possible reagent or background contamination. В

Estimated Reported value exceeded calibration range. E

Reported value is an estimate because concentration is less than reporting limit. J

Precision not determined. PND

Sample results rejected because of gross deficiencies in QC or method performance. Re-sampling and/or re-analysis is necessary. R

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Does not meet 40 CFR 136/141 compliance. A

Ċ Does not meet 47 CSR 32 compliance.

Narrative:

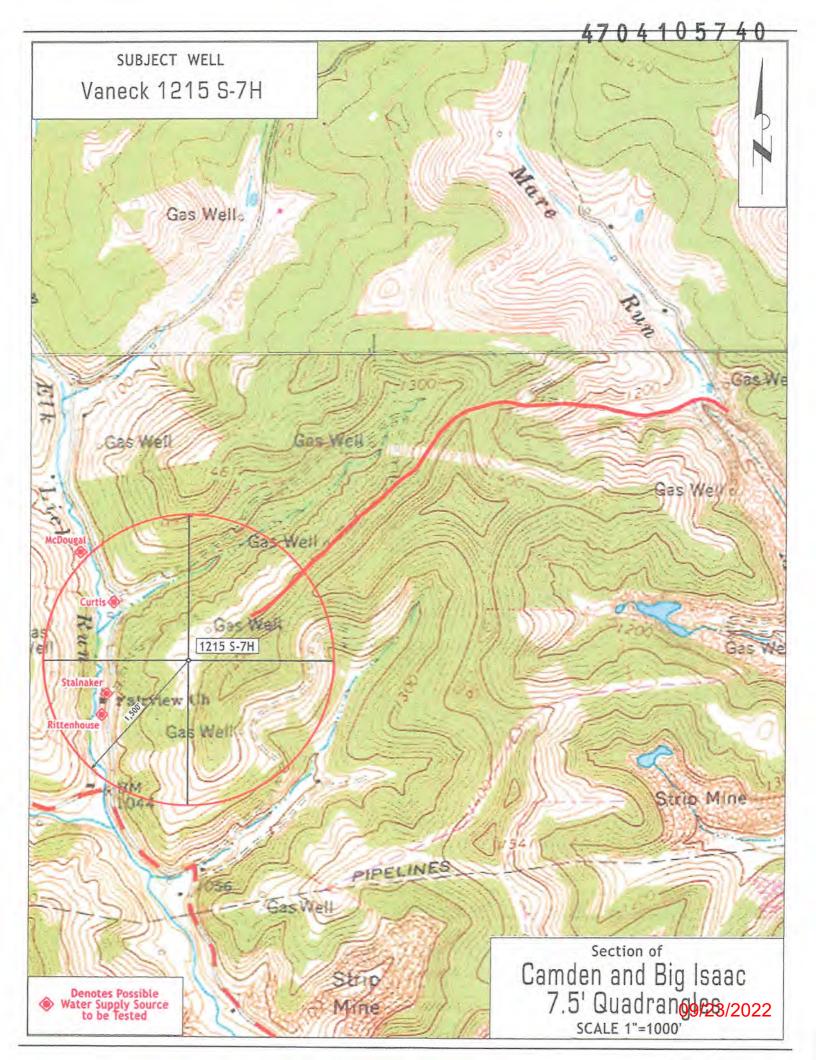
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City/State/Zip:																								-	· 7
Contact Person: Telephone Number:									<del></del>	Telen	hono M	-erson					Fax	No						-	
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MAIN OFFICE AND LABORATORY—POST OFFICE BOX 650 • BRIDGEPORT, WEST VIRGINIA 26330 • (304) 623-6549 CHARLESTON FIELD OFFICE—POST OFFICE BOX 8337 • SOUTH CHARLESTON, WEST VIRGINIA 25303-0337 • (304) 744-9864



Operator Well No. Vanack 1215 N-1H to S-12H

WW-6A3 (1/12)

### 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 SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry

Date of Notice: 12/29/2021 Date of Planned Entry: 01/05/2022

Delivery method pursuant to West Virginia Code § 22-6A-10a

D PERSONAL	□ REGISTERED	METHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to: \* Notice not given to Surface Owner as 50 is also the Operator

SUR	FACE OWNER(s)	COAL OWNER OR LESSEE
Name:	HG Energy II Appalachia, LLC (pad, road, royalty owner)	Name: NA
Address:	5260 Dupont Road	Address:
	Parkersburg, WV 26101	
Name: Address:		MINERAL OWNER(s)
CALVES MAD		Name: ** See Attached List
Name:		Address:
Address:		
		*please attach additional forms if necessary

#### Notice is hereby given:

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

State:	West Virginia	7	Approx. Latitude & Longitude:	39.117104 & 80.547833			
County:	Lewis	4	Public Road Access:	Mare Run Road / SR 19			
District:	Freeman's Greek		Watershed:	Middle West Fork River			
Quadrangle:	Camden WV 7.5'		Generally used farm name:	Vaneck			

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

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Well Operator:	HG Energy II Appalachia, LLC	4	Address:	5260 Dupont Road	Ditter.
Telephone:	304-420-1119			Parkersburg, WV 26101	Allertant
Email:	dwhite@hgenergyllc.com	1	Facsimile:	304-863-3172	000 3

### Oil and Gas Privacy Notice:

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



Envicement-ct



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

December 29, 2021

RE: Vaneck 1215 N-1H thru S-12H Freeman's Creek District, Lewis County West Virginia

Dear Royalty Owner

Enclosed is a copy of a Department of Environmental Protection "Notice of Entry For Plat Survey" form WW-6A3. This notice is provided to you as a royalty owner to advise you that HG Energy II Appalachia, LLC, is beginning the process of applying for permits to drill a well(s) where you are identified as an owner of minerals underlying such tract in the county tax records. A well work permit application will be filed with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because you are an owner of mineral rights on one or more of the underlying leases impacted by this well (s). Statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WVDEP at 304-926-0450, located at 601 57<sup>th</sup> Street, Charleston, WV. Copies of such documents or additional information related to horizontal drilling may also be obtained by visiting the WV DEP online.

No action on your part is required. If you have any questions or comments regarding this permit application, you may call this office at (304) 420-1119. Questions concerning lease issues may be directed to Mark Schall at 304-420-1115. Address inquiries should be directed to Bethanne Wilson at 304-370-3246.

Very truly yours,

Diane White

Diane C. White

AUG L 9 2022

Marjorie W Hyatt & Linda C Weekley 2908 Macon St. South Charleston, WV 25303

Betty Craft 120 E. 7th St. Weston, WV 26452

Kimberly Diana Byrd Trustee For Benefit of Kelly Ann Byrd 512 Jackson Ave. E. Hampton, SC 29924

Mark R. Fitzpatrick 958 McCanns Run Rd. Jane Lew, WV 26378

Waco Oil and Gas Co. PO Box 880 Glenville, WV 26351

Mary Kemper Gum 47 Meade St. Buckhannon, WV 26201

Linda Rose O'Hara 402 Thackery Ave. Catonsville, MD 21228

Joseph C. Waggoner 8892 US Hwy. 33 W. Camden, WV 26338

Michael Lynn Small 456 Gaston Manor Rd. Jane Lew, WV 26378

William Everett Hamrick 1224 Trappe Road Street, MD 21154 Bertha F. Benedum 604 Mare Run Rd. Weston, WV 26452

Patrick A. Nies 571 Deer Hill Rd. Sykesville, MD 21784

John E. Determan & Carolyn S. Determan 302 Copley Rd. Weston, WV 26452

Jane E. Horn 958 McCanns Run Rd. Jane Lew, WV 26378

Michael Ross PO Box 219 Coalton, WV 26257-0219

Richard Clay Hamrick 7 Westferry Ct. Savannah, GA 31411

Linda Lou Waggoner 24 Queen Eleanor Dr. Elkton, MD 21921

Mary Kay Small Justice 931 Beech Dr. Greenwood, IN 46142

Sharon Lea Small Senk 24 Fairview Ave. Ellington, CT 06029

Janet Rose Dawson 1744 Castleton Road Darlington, MD 21034

# 4704105740

J. Kent Burnside 645 Mare Run Rd. Weston, WV 26452

Mary Katherine Hull 1000 Maplewood Dr. Apt. 3102 Bridgeport, WV 26330

William L. Perry, Jr. & Hilda R. Perry 93 Riverview Hts. Weston, WV 26452

Joan E. Burnside Anderson PO Box 863 Blairsden, CA 96103

Donald R. Reynolds PO Box 607 Jane Lew, WV 26378

Steven Jay Hamrick 12104 Foley St. Silver Spring, MD 20902

Jack E. Waggoner 1450 Kent Rd. Essex, MD 21221

Bea Ann Small Wilfong 543 Lee Burke Rd, RECEIVED Front Royal, VA 22630 AUG 1 9 2022

W. Secarity of Dorsey Frazier Hamrick, Jr. 105 Mitchell Rd. Airville, PA 17302

Alice Faye McQueen 401 Winslow Drive Bel Air, MD 21015 09/23/2022

Elizabeth Carol Brown 84 Schoolhouse Lane Windsor, PA 17366

Tina Louise Hamrick 17104 Indian Grass Drive Germantown, MD 20874

Delores E. Small 105 Howard St. Clarksburg, WV 26301

J.P. Morgan Chase Bank, Trustee For Will E. Morris Heirs P.O. Box 659 Wichita Falls, TX 76307

Appalachian Royalties, Inc. PO Drawer 1917 Clarksburg, WV 26301 Barbara Jean Evans 1944 Franklin Church Road Darlington, MD 21034

Raymond C. Waggoner 7305 Church Ave. Pittsburg, PA 15202

Edward Earl Garrett 2151 Rush Run Rd. Weston, WV 26452

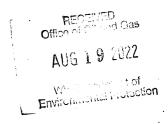
Phillip E. Burnside 3 Briarwood Ter. Fairmont, WV 26554 Vickie Lynn Erickson 515 Evans Street Perryville, MD 21903

Margaret J. Morley 4429 Francis Younge Way Hollywood, SC 29449

J.P. Morgan Chase Bank, Trustee For S. Austin Smith and C. Burke Morris P.O. Box 659 Wichita Falls, TX 76307

Bruce Hall Garrett, Trustee for Helen Garrett, et al. 1326 Freemans Creek Rd. Camden, WV 26338

John Kent Burnside 645 Mare Run Rd. Weston, WV 26452



Operator Well No. Vansck 1215 N-1H IN S-12H

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

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

 Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.

 Date of Notice:
 12/17/2021

 Date Permit Application Filed:
 01/15/2022

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

$\Box$	HAND	CERTIFIED MAIL
	DELIVERY	RETURN RECEIPT REQUESTED

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

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

Name:	HG Energy II Appalachia, LLC	Name:
Address:	5260 Dupont Road	Address:
- 10 C C C C	Parkersburg, WV 26101	
		-

### Notice is hereby given:

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

State:	West Virginia	LTMANAD 02	Easting:	539089.4	
County:	Lewis	UTM NAD 83	Northing:	4329869.2	
District:	Freemans Creek	Public Road Acc	cess:	Mare Run Road / SR19	
Quadrangle:	Camden WV 7.5'	Generally used f	arm name:	Vaneck	
Watershed:	Middle West Fork Creek				

### This Notice Shall Include:

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

### Notice is hereby given by:

Well Operator:	HG Energy II Appalachia, LLC	Authorized Representative:	Diane White
Address:	5260 Dupont Road	Address:	5260 Dupont Road
	Parkersburg, WV 26101		Parkersburg, WV 26101
Telephone:	304-420-1119	Telephone:	304-420-1119 Office of Gilland Cas
Email:	dwhite@hgenergyllc.com	Email:	dwhite@hgenergyllc.com
Facsimile:	304-863-3172	Facsimile:	304-863-3172 AOU 1 0
			VALE

### 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@wy.gov.

WW-6A5 (1/12)

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date Permit Application Filed: 01/15/2022 Date of Notice: 12/21/2021

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

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

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

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

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

Name:	HG Energy II Appalachia, LLC	Name:
Address:	5260 Dupont Road	Address:
	Parkersburg, WV 26101	

#### Notice is hereby given:

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

State:	West Virginia	LITMNAD 92	Easting:	539089.4	
County:	Lewis	UTM NAD 83	Northing:	4329869.2	
District:	Freemans Creek	Public Road Ace	ess:	Mare Run Road / SR 19	
Quadrangle:	Camden WV 7.5	Generally used f	arm name:	Vaneck	
Watershed:	Middle West Fork River				

#### This Notice Shall Include:

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

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

### **Oil and Gas Privacy Notice:**

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# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways** 

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

D. Alan Reed, P.E. State Highway Engineer Jimmy Wriston, P. E. Secretary of Transportation Commissioner of Highways

December 27, 2021

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

Subject: DOH Permit for the Vaneck 1215 Pad, Lewis County Vaneck 1215 S-10H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #07-2021-0333 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 10/9 SLS MP 1.40.

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 October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Jary K. Clayton

Gary K. Clayton, P.E. Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Diane White HG Energy II Appalachia, LLC CH, OM, D-6 File

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## HG Energy II Appalachia, LLC List of Frac Additives by Chemical Name and CAS # Vaneck 1215 Well Pad (N-1H to N-6H, S-7H to 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
		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	

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