

west virginia department of environmental protection

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

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

Wednesday, August 17, 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 N-3H 47-041-05734-00-00

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) 926-9450

James A. Martin

Chief

Operator's Well Number: Vaneck 1215 N-3H

Farm Name: HG ENERGY II APPALACHIA

U.S. WELL NUMBER: 47-041-05734-00-00

Horizontal 6A New Drill Date Issued: 8/17/2022

API	Number:	

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

- 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 supply well.
- 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.

API	Number:	

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

WW-6B (04/15)

API NO. 47			
OPERATOR WELL	NO.	Vaneck 1215 N-3H	/
Well Pad Name:	Vaneo	k 1215	

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

1) Well Opera	tor: HG Ene	ergy II Appa	lachia, 📙	49451993	2 Lewi	S	Freeman	Camden 7.5'
.) ((0.00)				Operator I	D Cour	nty	District	Quadrangle
2) Operator's	Well Number	· Vaneck 12	215 N-3H	We	Il Pad Name	e: Vane	eck 1215	
3) Farm Name	/Surface Owi	ner: HG Energ	y II Appalach	ia, LLC Publi	c Road Acc	ess: Ma	are Run Rd	1 at CR 10 / 9
4) Elevation, c	urrent ground	d: 1259'	El	evation, prop	osed post-c	onstruct	ion: 1254.8	8' >
5) Well Type	(a) Gas Other	X	_ Oil		Undergrou	nd Stora	ge	
	(b)If Gas	Shallow Horizontal	x x	Dee	p			5000
6) Existing Pa	d: Yes or No	Yes						5 DW 6 130 1202
7) Proposed T	arget Formati t 6753'/6803' a		4.00				ressure(s):	
8) Proposed T	otal Vertical	Depth: _ 6,7	'90'					
9) Formation a	at Total Verti	cal Depth:	Marcellu	S /				
10) Proposed	Total Measur	ed Depth:	18,500'	1				
11) Proposed 1	Horizontal Le	eg Length:	11,061'	1				
12) Approxim	ate Fresh Wa	ter Strata De	pths:	60', 214', 6	00', 861'	-		
13) Method to 14) Approxim			Depths:	Nearest offse	t well data, (47-041-0	02173, 0693	3, 0236, 2308, 0578)
15) Approxim	ate Coal Sear	n Depths: 27	72', 700', 10	40', 1150' (Surf	ace casing is t	peing exte	nded to cover	the coal in the DTI Field)
16) Approxim	ate Depth to l	Possible Voi	d (coal mi	ine, karst, oth	er): None			
17) Does Prop directly overly				ms Yes		No	X	
(a) If Yes, pr	ovide Mine I	nfo: Name						
		Depth	:					Office of Oil and Gas
		Seam:	_					JUL 1 4 2022
		Owne					E	(* V Department of nvic nmental Protection

WW-6B (04/15) API NO. 47-_

OPERATOR WELL NO. Vaneck 1215 N-3H

Well Pad Name: Vaneck 1215

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120'	CTS
Fresh Water/Coal	20"	NEW	J-55	94	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	18500'	18500'	20% Excess Tail, CTS
Tubing							
Liners							

50W 6130/2022

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

PACKERS

Kind:	
Sizes:	RECENED OF
Depths Set:	Cifico of Oil and G

Environmental Protection

WW-6B (10/14) API NO. 47-

OPERATOR WELL NO. Vaneck 1215 N-3H

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 11,061' lateral length, 18,500' 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
- 22) Area to be disturbed for well pad only, less access road (acres): 8.70 acres

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing.

Freshwater/Coal - centralized every 3 joints to surface.

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

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

Production - Vertical - Run 1 spiral contralizer every 5 jains from the lag of the curve to surface, Clurve - Run 1 aprial contralizer every 3 jaints from the 1st 5.5 long joint to the log of the curve.

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

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

Frash WaterCoal -*15.6 ppg PNE-1 + 3% bwcc CaC40% ExcessYidd=1.20 / CTS*

Intermediate 1 - ***** Storage String **** CTS ****15.4 pag Less - Yield 1.24 - D896 Surface Set 100 b / sack (Mix of Class A sinc Gypsum to meet Dominion Requirements)5146 - 0.5% BWOB Fills Loss) D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / sack VBWOB Anti Foam / D202 - 0.15% BWOB Disposant / D059 | 1.5 in part Bill Cent NET* - 0.0% Excess 15.9 pag Tail - Yield 1.17 - D896 Surface Set 100 b / sack (Mix of Class A and Gypsum to meet Dominion Requirements)(5160A - 0.15% BWOB Disposant / B47 - 0.35% BWOB GasBLOK* / D013 - 0.3% B

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

Production = 14.5 ppg PDZ:PNE-1 * 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 ga/sk FP13L + 0.3% bwoc MPA1707at 14.8 ppg PNE-1 + 0.25% bwoc R3 + 0.75 ga/sk FP13L + 5.0% bwoc ASCA1 + 0.5% bwoc ASCA1 + 0.

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at 7D.

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

ntermediate 1 - Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume pillor to pumping coment

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

Production - Opes on bottom? Divide easing, 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 neinmum of one hole volume prior to pimping coment

Office of Old and Gas JUL 1 4 2022

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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 Name	Material Type	Material Description Premium NE-1 is a	CAS # Ingredient name	%	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide	1 - 5	1305-78-8
		strength properties.	Magnesium oxide	1-5	1309-48-4 14808-60-7
remium NE-1	Portland Cement		Crystalline silica: Quartz (SiO2)	2017	1
		Commonly called gel, it is			Tava
		a clay material used as a	Ingredient name	%	CAS number
		cement extender and to	bentonite Crystalline silica: Quartz (SiO2)	90 - 100 5 - 10	1302-78-9 14808-60-7
		control excessive free water.	orystalling stilled, add a (cross)		
entonite	Extender	water.			
		A powdered, flaked or pelletized material used	Ingredient name	%	CAS number
		to decrease thickening	Calcium chloride	90 - 100	10043-52-4
		time and increase the rate			
lcium Chloride	Accelerator	of strength development			
iciam cmoriae	71000101910				
		Graded (3/8 to 3/4 inch) cellophane flakes used as	Ingredient name	%	CAS number
		a lost circulation material.	No hazardous ingredient		
ilo Flake	Lost Circulation				
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in	Ingredient name	%	CAS number
		cementing operations. It is very effective	Tributyl phosphate	90 - 100	126-73-8
		minimizing air			
		entrapment and			
		preventing foaming			
		tendencies of latex systems.			
-13L	Foam Preventer	dyamental			
			Ingredient name	%	CAS number
		Used to retard cement	Sucrose	90 - 100	57-50-1
ranulated Sugar	Retarder	returns at surface.			
		A proprietary product that provides expansive			
		properties and improves			
		bonding at low to	Ingredient name	%	CAS number
		moderate temperatures.	Calcium magnesium oxide	90 - 100	37247-91-9
C-1		temperatures	5		
		Multi-purpose polymer	#2		
		additive used to control free fluid, fluid loss,	Ingredient name	%	CAS number
		rheology, and gas	No hazardous ingredient		
1PA-170	Gas Migration	migration.	A OFFI		
		A south set			
		A synthetic pozzolan, (primarily Silicon Dioxide).	7-8 		
		When blended with	JUL 1		
		cement, Pozzolan can be	Ingredient name	%	CAS number
		used to create lightweight cement	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
		slurries used as either a	Calcium oxide	1 - 5	1305-76-8
		filler slurry or a sulfate			
		resistant completion			
z (Fly Ash)	Base	cement.			
		* Lange			
		A low temperature retarder used in a wide	to consider at warms	%	CAS number
		range of slurry	Ingredient name Organic acid salt	40 - 50	Trade secret.
		formulations to extend	215 10 10 10 10 10 10 10 10 10 10 10 10 10	40 - 50	ridue secret.
9	Dotordor	the slurry thickening time.			
3	Retarder				
			Ingredient name	%	CAS number
			2-Butoxyethanol Proprietary surfactant	20 - 30 10 - 20	111-76-2 Trade secret.
		Used to water wet casing	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	5 - 10	110615-47-9
		and formation to facilitate	Alkylarylsulfonate amine salt	1-5	Trade secret. Trade secret/2

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

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

1215 N-3H Marcellus Shale Horizontal Lewis County, WV



14205541.49N 1768682.63E 1215 N-3H SHL 1254.8 1215 N-3H LP 14205782.77N 1768058.48E Ground Elevation 1215 N-3H BHL 14216207.97N 1764374.61E 340.539° Azm COMMENTS CENTRALIZERS CONDITIONING WELLBORE DIAGRAM HOLE CASING GEOLOGY TOP BASE MUD CEMENT Conductor casing = 0.5" wall 30" 157.5# N/A. Casing to be drilled Ensure the hole is clean at 30" AIR N/A in w/ Dual Rotary Rig TD. thickness LS 120 Conductor 0 Once casing is at setting 0 214, 600, 861 Fresh Water 15.6 ppg PNE-1 + 3% Surface casing = 0.438" wall depth, circulate a minimum Centralized every 3 20" bwoc CaCI thickness AIR of one hale valume with 26" Kittaning Coal 900 905 40% Excess ioints to surface 94# J-55 Burst=2110 psi Fresh Water prior to Yield=1.20 / CTS Fresh Water 0 1200 pumping cement. Protection Once casing is at setting Little Lime 1694 1714 See above (LEFT) for Bow Spring on every depth. Circulate and AIR / KCL Storage String Cement Intermediate casing = 0.480" Big Lime 1741 1818 joint 13-3/8" 68# ondition at TD. Circulate a 17.5" Blend to Meet DTI will also be running wall thickness J-55 BTC Injun / Gantz (Storage) 1818 / 2073 1904 / 2125 minimum of one hole Requirements for Gas ACP for isolating Burst=3450 psi volume prior to pumping storage zone* Storage Field Isolation 2150 Intermediate 1 0 cement. 2274 2286 Thirty Foot 2336 / 2446 Gordon Stray / Gordon 2320 / 2346 5th Sand 2590 2612 Once casing is at setting Lead: 15.4 ppg PNE-1 4 Bow Spring on first 2 2.5% bwoc CaCl depth. Circulate and 2660 2675 Bayard AIR / KCI Intermediate casing = 0.395" 9-5/8" 40# 40% Excess / Tail: 15.9 joints then every third condition mud at TD. 12.25" Salt wall thickness 3287 3301 Speechley ppg PNE-1 + 2.5% bwoo joint to 100' form Circulate a minimum of one N-80 BTC Burst=5750 psi Polymer hole volume prior to CaCI surface zero% Excess, CTS pumping cement. Benson 4572 4588 TVD: 4780' Intermediate 2 0 MD: 4850' Inc. 13 dea. Run 1 spiral centralizer AIR / every 5 joints from the 8.75" 9,0ppg top of the curve to Lead: 14.5 ppg SOBM surface. POZ:PNE-1 + 0.3% WV Department of bwoc R3 + 1% bwoc Wiranmental Protection Once on bottom/TD with 6125 6290 EC1 + 0.75 gal/sk FP13L Rhinestreet casing, circulate at max + 0.3% bwoc MPA170 Production casing = 0.415" 6391 Cashaqua 6290 allowable pump rate for at Tail: 14.8 ppg PNE-1 wall thickness 5-1/2" Middlesex 6391 6425 0.35% bwoc R3 + 0.75 least 2x bottoms up, or until Burst=16240 psi 23# 11.5ppggal/sk FP13L + 50% returns and pump pressures 8.5" Curve P-110 HP West River 6425 6500 12.5ppg Note:Actual centralizer bwoc ASCA1 + 0.5% indicate the hole is clean. SOBM Run 1 spiral centralizer schedules may be changed CDC HTQ Burkett 6500 6535 bwoc MPA170 Circulate a minimum of one every 3 joints from the due to hole conditions 20% Excess hole volume prior to 6535 6625 1st 5.5" long joint to the Tully Limestone Lead Yield=1.19 pumping cement. top of the curve. Hamilton 6625 6753 Tail Yield=1.94 CTS 6753 Marcellus 6803 11.5ppg-TMD / TVD 18500 6789 8.5" Lateral 12.5ppg (Production) SOBM Onondaga 6803 Х X Χ LP @ 6789' TVD / 7438' 8.5" Hole - Cemented Long String TD @ +/-6789' TVD +/-11062' ft Lateral MD 5-1/2" 23# P-110 HP CDC HTQ +/-18500' MD X=centralizers X X

WW-9 (4/16)

API Number 47 -	
Operator's Well No.	Vaneck 1215 N-3H

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

	FLUIDS/ CUTTINGS	DISPOSAL & RECLAI	MATION PLAN	
Operator Name HG Energy II Appal	lachia, LLC		OP Code 494501907	
Watershed (HUC 10) Middle We	st Fork Creek	Quadrangle	Camden 7.5'	
Do you anticipate using more than Will a pit be used? Yes	n 5,000 bbls of water to o	complete the proposed v	well work? Yes 🔽 🔨	No _
If so, please describe ant	ticipated pit waste: NA			
Will a synthetic liner be	used in the pit? Yes	No ✓ If	so, what ml.?	
Proposed Disposal Method	od For Treated Pit Waste	es:		
Land A	Application			
	ground Injection (UIC P	The first of the contract of t		
■ Off Sit	(at API Number_TBD-At te Disposal (Supply form (Explain_		eation)	SpW-
Will closed loop system be used?	If so, describe: Yes, cutting	gs and fluids will be collected in a clos	ed loop system, re-used or hauled to an appro	ved disposal site or landfill.
Drilling medium anticipated for th	his well (vertical and hor	rizontal)? Air, freshwat	er, oil based, etc. Vertical-Air, Air/KC	L, Air/SOBM, Horizontal - SOBM
-If oil based, what type?	Synthetic, petroleum, et	tc. Synthetic		
Additives to be used in drilling m	redium? Water, Soap, KC	I, Barite, Base Oil, Wetting A	agents	
Drill cuttings disposal method? L				
-If left in pit and plan to				
-Landfill or offsite name		The state of the s		
Permittee shall provide written no West Virginia solid waste facility where it was properly disposed.				
on August 1, 2005, by the Office provisions of the permit are enfollaw or regulation can lead to enfo	of Oil and Gas of the We orceable by law. Violation orcement action. of law that I have person ments thereto and that, ieve that the information	est Virginia Department ons of any term or conc onally examined and an based on my inquiry n is true, accurate, and	lition of the general permit a n familiar with the informal of those individuals immed complete. I am aware tha	. I understand that the and/or other applicable tion submitted on this liately responsible for t there are significant
Company Official Signature	Diane White			Office of Oil and Gas
Company Official (Typed Name)) Diane White			JUL 1 4 2022
Company Official Title	Agent			
				WV Depsy new Lai Environmental Protection
Subscribed and sworn before me	this 27th day	of June	, 20 22	
Can	ing Boader		Notary Public	****
My commission expires 7 31				OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC CAS 8/4 9/42022 5301 13th Ave Vienna, WV 26105 My Commission Expires July 31, 2023

Cuttings Disposal/Site Water

Cuttings -Haul off Company:

Eap Industries, Inc. DOT # 0876278 1975 Smith Two State Rd. Atlasburg, PA 15004 1-888-294-5227

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

Environmental Coordination Services & Recycling (ECS&R) 8287 US Highway 19 Cochranton, PA 16314 814-425-7778

Disposal Locations:

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

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

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

Max 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 RECEIVED Office of Oil and Gas

JUL 1 4 2022

WV Department of Environmental Protection

08/19/2022

4704105734

Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martinsville, WV 26035 804-455-3800

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 330-892-01.64

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

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

Nuverra Environmental Solutions 1.1942 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 15801

Disposal Locations:

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

Solidification/Incineration Soil Remediation, Inc. Permit # 02-20758 6065 Arrel-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 Carilsle, PA 17015

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

Burns Drilling & Excavating 618 Crabapple Road P.O. Bow Wind Ridge, PA 15380 RECEIVED
Office of Oil and Gas

JUL 1 4 2022

WV Department of Environmental Protection

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

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

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 48767 614-648-8898 740-796-6495

08/19/2022

4704105734

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

Adams #3 (Buckeye Brine, LLC) Permit #34-031-2-7241-00-00 2630 Exposition, Suite 117 Austin, TX 78703 512-478-6545

Mozena #1 Well (SWIW # 18) 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 412-829-7275

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 Con...any, LLC 1000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-323-6568

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

Chapin #7 UIC (SWIW #7) Permit # 34-083-2-4187-00-00 Elkhead Gas& Oil Company 12163 Marne Rd. NE Newark, OH 43055 740-763-3966

RECEIVED
Office of Oil and Gas

JUL 1 4 2022

WV Department of Environmental Protection

- 5.

Operator's Well No. Vaneck 1215 N-3H

	tment: Acres Disturbed 22.55	Prevegetation pH	I
Lime	3 Tons/acre or to correct to pl	H_6.5	
Fertilizer type10)-20-20		
Fertilizer amount	500 _I	bs/acre	
MulchHay	2 _{Tons}	/acre	
	Sec	ed Mixtures	
Te	emporary	Perma	nent
Seed Type Tall Fescue	lbs/acre 40	Seed Type Tall Fescue	lbs/acre 40
Ladino Clover	5	Ladino Clover	5
Maps(s) of road, location, pi provided). If water from the acreage, of the land applicat	pit will be land applied, include d	and completion process cation (unless engineered plans including the pit, and the	ding this info have been d dimensions (L x W), and are
Maps(s) of road, location, pi provided). If water from the acreage, of the land applicate Photocopied section of invol	pit will be land applied, include dion area. Ived 7.5' topographic sheet.	cation (unless engineered plans inclu	ding this info have been d dimensions (L x W), and are
Plan Approved by:	pit will be land applied, include dion area. Ived 7.5' topographic sheet. ID Whenel H	cation (unless engineered plans including the pit, and th	d dimensions (L x W), and are
Maps(s) of road, location, piperovided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Pre-seed	pit will be land applied, include dion area. Ived 7.5' topographic sheet. ID Word H /mulch as soon as re	cation (unless engineered plans including limensions (L x W x D) of the pit, and easonably possible per	d dimensions (L x W), and are
Maps(s) of road, location, piperovided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Pre-seed	pit will be land applied, include dion area. Ived 7.5' topographic sheet. ID Whenel H	cation (unless engineered plans including limensions (L x W x D) of the pit, and easonably possible per	d dimensions (L x W), and are
Maps(s) of road, location, piperovided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Plan Approved by: Pre-seed	pit will be land applied, include dion area. Ived 7.5' topographic sheet. ID Word H /mulch as soon as re	cation (unless engineered plans including limensions (L x W x D) of the pit, and easonably possible per	d dimensions (L x W), and are
Maps(s) of road, location, piperovided). If water from the cereage, of the land applicate Photocopied section of involved Plan Approved by: Pre-seed	pit will be land applied, include dion area. Ived 7.5' topographic sheet. ID Word H /mulch as soon as re	cation (unless engineered plans including limensions (L x W x D) of the pit, and easonably possible per	d dimensions (L x W), and are
Maps(s) of road, location, piperovided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Plan Approved by: Pre-seed	pit will be land applied, include dion area. Ived 7.5' topographic sheet. ID Word H /mulch as soon as re	cation (unless engineered plans including limensions (L x W x D) of the pit, and easonably possible per	d dimensions (L x W), and are
Maps(s) of road, location, piperovided). If water from the acreage, of the land applicate Photocopied section of involved approved by: Plan Approved by: Pre-seed	pit will be land applied, include dion area. Ived 7.5' topographic sheet. ID Word H /mulch as soon as re	cation (unless engineered plans including limensions (L x W x D) of the pit, and easonably possible per	regulation.

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

5260 Dupont Road

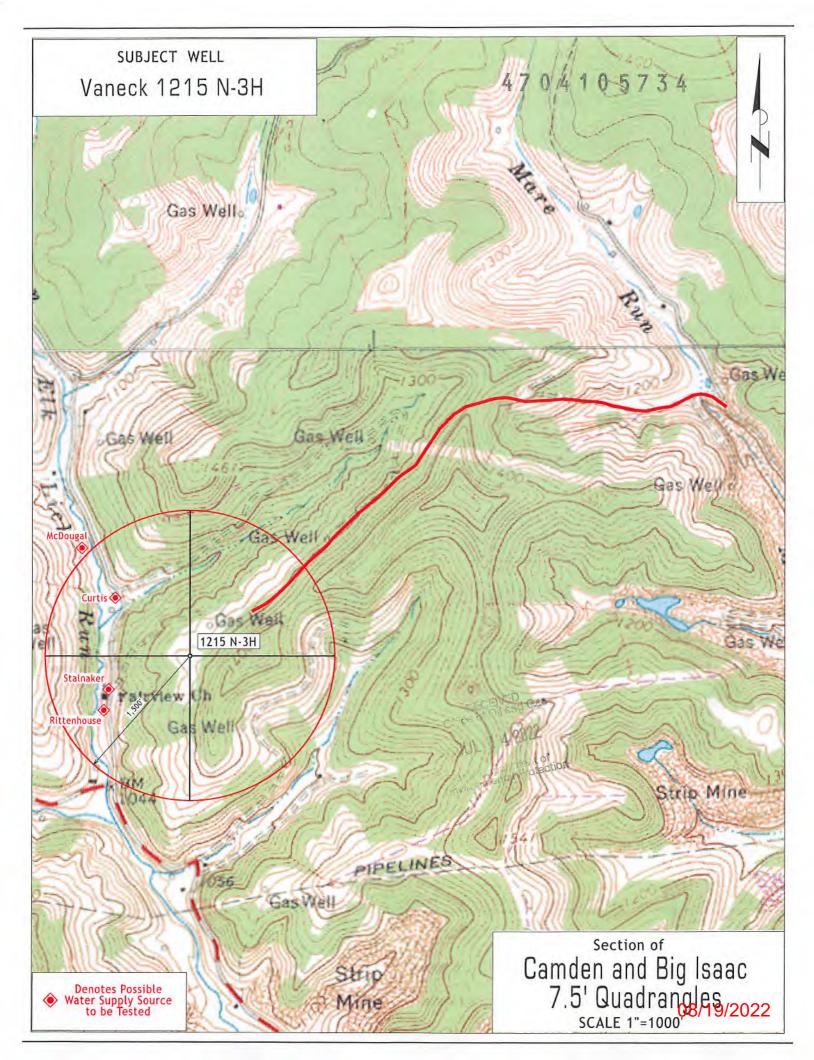
Parkersburg, WV 26101

5PW 613012022

Office of Oil and Gas

JUL 1 4 2022

WW Department of Environmental Protection 08/19/2022



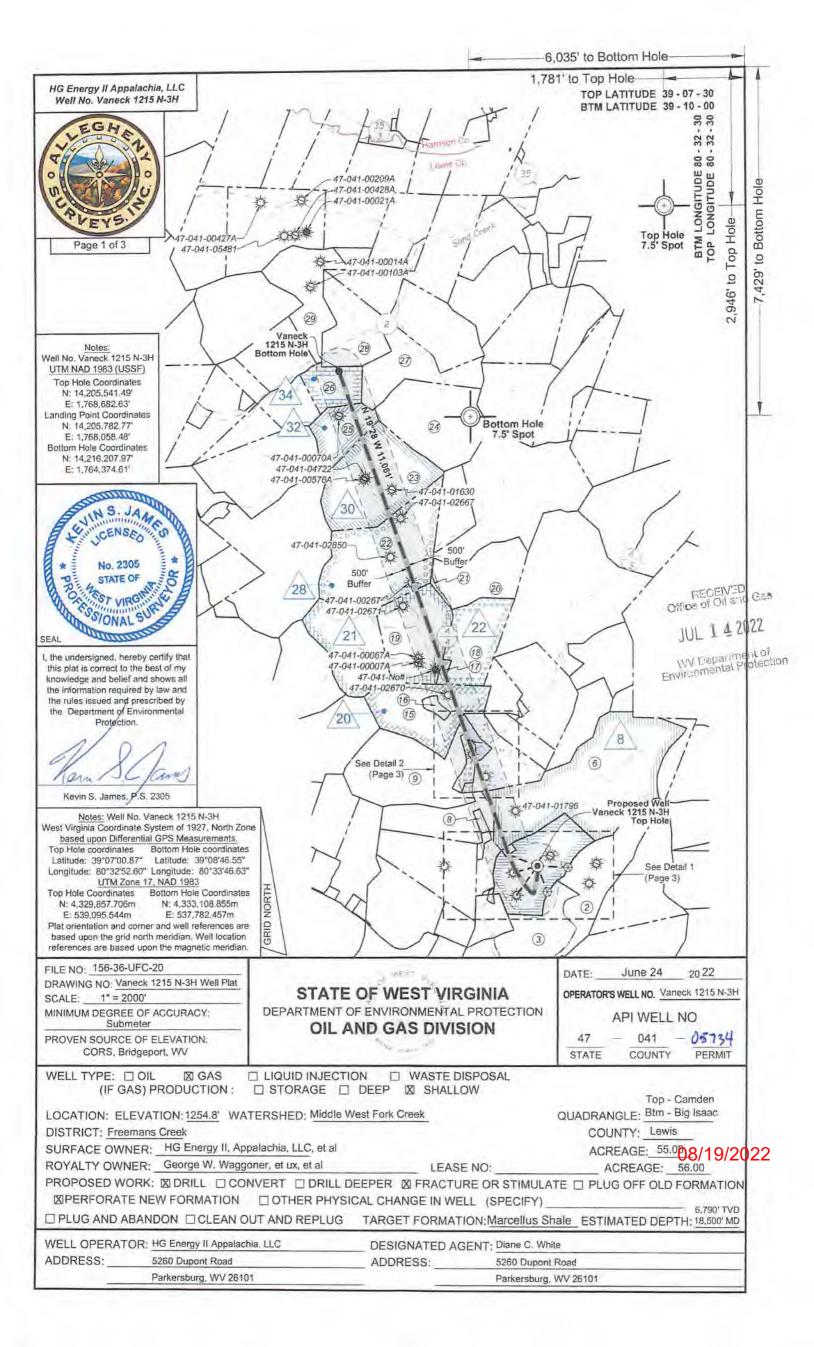
			VANECK 123	15 NORTH UNIT AND PROPOSED V	VELLS N-1H, N-2H	I, N-3H, N-4H, N	-5H & N-	-6H		
CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4703302678	Harrison	K W Coffindaffer	Tenmile Land, LLC	Alexander	House Gas	5550	ABANDONED	39.164144	-80.558442
2	4703302721	Harrison	Robert B Weiman	Tenmile Land, LLC	Alexander	Gas	5081	ACTIVE	39.163273	-80.571299
3	4703305378	Harrison	Ray Mosser Jr	Alliance Petroleum Co. LLC	Greenland Gap Fm	Oil and Gas	4010	ACTIVE	39.160970	-80.554949
4	4703330207	Harrison	Harvey Morris	South Penn Oil Co.	Hampshire Grp	Oil	3021	PLUGGED	39.161822	-80.566082
5	4703330792	Harrison	J B Coffindaffer	Hope Natural Gas Company	Hampshire Grp	Gas	2857	PLUGGED	39.162983	-80.569250
6	4703331035	Harrison	William Moses	Moses, William	Gordon Stray	Oil	2660	PLUGGED	39.160956	-80.555326
7	4703331209	Harrison	Tillman Clemens	Bradford Supply Co.	Gordon	Oil	2592	PLUGGED	39.160956	-80.562964
8	4703331210	Harrison	J B Coffindaffer	Bradford Supply Co.	Gordon Stray	Oil	2775	PLUGGED	39.165016	-80.565762
9	4704100205	Lewis	Flossie Riley	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2361	ACTIVE	39.126554	-80.538388
10	4704100236	Lewis	F B Riley	Dominion Energy Transmission, Inc.	Gantz	Storage	2110	ACTIVE	39.123206	-80.540588
11	4704100239	Lewis	George C Francis	Dominion Energy Transmission, Inc.	Gantz	Storage	2322	ACTIVE	39.135143	-80.551911
12	4704100255	Lewis	J T Bailey	Hope Natural Gas Company	Fifth	Storage	2556	PLUGGED	39.130502	-80.546138
13	4704100256	Lewis	J T Bailey	Hope Natural Gas Company	Gordon Stray	Storage	2435	PLUGGED	39.131952	-80.544090
14	4704100262	Lewis	Olive Thoms	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2370	ACTIVE	39.128472	-80.544276
15	4704100266	Lewis	L E Gall	Hope Natural Gas Company	Gantz	Storage	2346	PLUGGED	39.137463	-80.555636
16	4704100267	Lewis	L E Gall	Dominion Energy Transmission, Inc.	Gantz	Storage	2240	ACTIVE	39.134998	-80.555077
17	4704100335	Lewis	J T Bailey	Hope Natural Gas Company	Up Devonian	Storage	2341	PLUGGED	39.131082	-80.544649
1.8	4704100343	Lewis	E Haney	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2312	ACTIVE	39.123351	-80.556936
19	4704100358	Lewis	L E Gall	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	2767	ACTIVE	39.131662	-80.560662
20	4704101233	Lewis	Jacob Freeman Heirs	Diversified Resources, Inc.	Fifth	Oil and Gas	2796	ACTIVE	39.155445	-80.560110
21	4704101246	Lewis	L E Gall	Hope Natural Gas Company	Thirty-foot	Storage	2594	PLUGGED	39.139934	-80.555775
22	4704101483	Lewis	D C Burnside	Diversified Resources, Inc.	Squaw	Gas w/ Oil Show	2102	ACTIVE	39.155735	-80.553405
23	4704101501	Lewis	E Freeman	Pioneer Petroleum, Inc.	Squaw	Dry	2100	PLUGGED	39.148850	-80.567438
24	4704101630	Lewis	W S Bennett	Dominion Energy Transmission, Inc.	Gantz	Storage	2368	PLUGGED	39.138805	-80.558116
25	4704101793	Lewis	Burnside & Freeman	Stephen Gas Company	Benson	Gas w/ Oil Show	4705	ACTIVE	39.134800	-80.546980
26	4704101796	Lewis	David A Caynor	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4755	ACTIVE	39.120305	-80.549489
27	4704101900	Lewis	Burnside & Freeman	Stephen Gas Company	Big Injun (Grnbr)	Oil and Gas	1988	ACTIVE	39.135288	-80.545022
28	4704102173	Lewis	Woody Lumber Co Inc	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4746	ACTIVE	39.121756	-80.543531
29	4704102303	Lewis	Orpha D Waggoner	Dominion Energy Transmission, Inc.	Benson	Oil and Gas	4777	ACTIVE	39.115810	-80.550605
30	4704102309	Lewis	J S Burnside	Dominion Energy Transmission, Inc.	not available	Gas	2591	PLUGGED	39.148547	-80.558619
31	4704102611	Lewis	George C Francis	Dominion Energy Transmission, Inc.	not available	Storage	2350	ACTIVE	39.134563	-80.553587
32	4704102612	Lewis	S Minter Heirs	Dominion Energy Transmission, Inc.	not available	Storage	2273	ACTIVE	39.122481	-80.551537
33	4704102613	Lewis	Caroline Minter	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2622	ACTIVE	39.129052	-80.546325

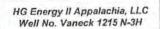
34	4704102615	Lewis	Geo C Francis	Dominion Energy Transmission, Inc.	not available	Storage	2-	ACTIVE	39.132242	-80.552842
35	4704102662	Lewis	Francis M McKinley	Hope Natural Gas Company	not available	not available		ABANDONED	39.137318	-80.554891
36	4704102663	Lewis	Francis M McKinley	Dominion Energy Transmission, Inc.	not available	Storage	180	ACTIVE	39.135723	-80.553403
37	4704102664	Lewis	Francis M McKinley	Dominion Energy Transmission, Inc.	not available	Storage	¥.	ACTIVE	39.138913	-80.55414
38	4704102665	Lewis	W S Bennett	Dominion Energy Transmission, Inc.	not available	Storage		ACTIVE	39.140653	-80.55582
39	4704102666	Lewis	Norman S Small	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2673	ACTIVE	39.135578	-80.55638
40	4704102667	Lewis	L E Gall	Dominion Energy Transmission, Inc.	not available	Storage		ACTIVE	39.137753	-80.55824
41	4704102668	Lewis	L E Gall	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39,133376	-80.55900
42	4704102670	Lewis	B J & B E Rhoades	Dominion Energy Transmission, Inc.	Hampshire Grp	Observation	2141	ACTIVE	39.127747	-80.55470
43	4704102671	Lewis	L E Gall	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.132532	-80.55786
44	4704102770	Lewis	Sheldon Minter	Dominion Energy Transmission, Inc.	undetermined unit	Storage	2232	ACTIVE	39.124076	-80.55284
45	4704102955	Lewis	Zella Curry	Alliance Petroleum Co. LLC	Alexander	Gas	5353	ACTIVE	39.155445	-80.56141
46	4704102956	Lewis	James E Elmer	Diversified Resources, Inc.	Alexander	Oil and Gas	5431	ABANDONED	39.157911	-80.55228
47	4704102966	Lewis	Ralph Pitzer	Alliance Petroleum Co. LLC	Greenland Gap Fm	Oil and Gas	5535	ACTIVE	39.154285	-80.56998
48	4704103100	Lewis	Marjorie Hyatt	Dominion Energy Transmission, Inc.	Big Injun (Grnbr)	Oil w/ Gas Show	2075	ACTIVE	39.116970	-80.54930
49	4704103173	Lewis	Orpha Waggoner	Consolidated Gas Supply Corp.	Big Injun (Grnbr)	Dry	2089	PLUGGED	39.117405	-80.54651
50	4704103958	Lewis	James W Wagner et al	Diversified Resources, Inc.	Greenland Gap Fm	Gas	3131	ACTIVE	39,150370	-80.55061
51	4704104722	Lewis	W S Bennett	Dominion Energy Transmission, Inc.	Fifth	Gas	2752	PLUGGED	39.140307	-80.56081
52	4704104753	Lewis	Allegheny Wood Products	Dominion Energy Transmission, Inc.	not available	not available	-	PLUGGED	39.138043	-80.55042
53	4704105165	Lewis	J Todd Hatfield	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4910	ACTIVE	39.147469	-80.55452
54	4704105481	Lewis	Jerry Tomes	Diversified Resources, Inc.	Hampshire Grp	Oil and Gas	3300	ACTIVE	39.154351	-80.56687
55	4704130007	Lewis	L E Gall	Hope Construction & Refining	not available	not available	91	PLUGGED	39.129052	-80.55675
56	4704130014	Lewis	Stella Freeman Hrs	South Penn Oil Co.	Gordon Stray	Oil	2778	PLUGGED	39.152835	-80.56402
57	4704130020	Lewis	S M Burnside	South Penn Oil Co.	Greenland Gap Fm	Oil and Gas	3675	PLUGGED	39.151820	-80.56197
58	4704130021	Lewis	J L Freeman	Hope Natural Gas Company	Hampshire Grp	Oil and Gas	3038	PLUGGED	39.155010	-80.56364
59	4704130067	Lewis	L O Stutler	Pittsburgh & WV Gas	Gordon	Oil and Gas	2411	PLUGGED	39.129342	-80.5567
60	4704130070	Lewis	William Furley	Pittsburgh & WV Gas	Hampshire Grp	Gas	2760	PLUGGED	39.143699	-80.5627
61	4704130103	Lewis	Earl Freeman	South Penn Oil Co.	Hampshire Grp	Oil	2782	PLUGGED	39.151384	-80.5647
62	4704130149	Lewis	F M McKinley	Douglas, Septer W.	not available	not available	1 - 2 -	PLUGGED	39.141669	-80.5466
63	4704130201	Lewis	J L Freeman	UNKNOWN	not available	not available	1	PLUGGED	39.156170	-80.5636
64	4704130208	Lewis	Enn Bailey	Atha Supply Company	not available	not available		PLUGGED	39.141959	-80.5517
65	4704130209	Lewis	Jacob L Freeman Bros	South Penn Oil Co.	Gordon Stray	Oil and Gas	2580	PLUGGED	39.156460	-80.5653
66	4704130215	Lewis	Lelia Grace	South Penn Oil Co.	Hampshire Grp	Oil	2846	PLUGGED	39.144134	-80.5514
67	4704130228	Lewis	Chas A Coffindaffer	South Penn Oil Co.	Gordon	Oil	2736	PLUGGED	39.157765	-80.5698
68	4704130284	Lewis	Francis M Mckinley	Hope Natural Gas Company	Hampshire Grp	Oil and Gas	2821	PLUGGED	39.139493	-80.5454
69	4704130289	Lewis	John S Burnside	Hope Natural Gas Company	Hampshire Grp	Oil and Gas	2818	PLUGGED	39.142829	-80.5528

70	4704130356	Lewis	William Moses	Moses, William	Gordon Stray	Oil	2805	PLUGGED	39.157765	-80.557000
71	4704130427	Lewis	Mrs Alona May Lowman	Bradford Supply Co.	Gordon Stray	Gas	2702	PLUGGED	39.155880	-80.567802
72	4704130428	Lewis	Mrs Alona May Lowman	Bradford Supply Co.	Gordon Stray	Oil	2594	PLUGGED	39.154430	-80.565938
73	4704130468	Lewis	J A Fox	Bradford Supply Co.	Hampshire Grp	Gas	2850	PLUGGED	39.153995	-80.552341
74	4704130499	Lewis	J A Fox	South Penn Oil Co.	Hampshire Grp	Oil	2793	PLUGGED	39.147614	-80.547866
75	4704130578	Lewis	Fortunatus White	Hope Natural Gas Company	Hampshire Grp	Gas	2602	PLUGGED	39.117115	-80.543159
76	4704130599	Lewis	U A Morris	Bradford Supply Co.	Gordon Stray	Oil	2707	PLUGGED	39.160086	-80.565700
77	4704130620	Lewis	J L Freeman	Hal Pack & Company	Hampshire Grp	Oil	2619	PLUGGED	39.156750	-80.569666
78	4704130628	Lewis	Fortunatus White	Hope Natural Gas Company	not available	not available	2702	not available	39.119580	-80.539655
79	4704130693	Lewis	Shelton Minter Hrs	Hope Natural Gas Company	Hampshire Grp	Gas	2594	PLUGGED	39.124656	-80.548745
7		-Mi		WELLS ADDE	D 11/11/2021					
80	4703300335	Harrison	C A Coffindaffer Hrs	Eastern Gas Transmission & Storage, Inc.	Fifth	Gas w/ Oil Show	3000	PLUGGED	39.167929	-80.576517
81	4703302754	Harrison	Robert B Weiman	Tenmile Land, LLC	Alexander	Oil and Gas	5389	ACTIVE	39.167058	-80.574654
82	4703302755	Harrison	Robert B Weiman	Tenmile Land, LLC	Alexander	Oil and Gas	5520	ACTIVE	39.169816	-80.572044
83	4703305812	Harrison	John E Tyler	Diversified Resources, Inc.	UNKNOWN	not available	4-7	UNKNOWN	39.167992	-80.581201
84	4703330224	Harrison	Luetta Bowen	South Penn Oil (S. Penn Nat. Gas)	Hampshire Grp	Oil and Gas	2707	PLUGGED	39.167494	-80.56328
85	4703331235	Harrison	Minerva Walker	Bradford Supply Co.	Gordon Stray	Gas	2778	PLUGGED	39.169381	-80.56738
86	4703331569	Harrison	Goynor Wise	Moses, William	Gordon Stray	Gas	2778	PLUGGED	39.168655	-80.56589
87	4703331798	Harrison	Burgess Morris	Jackson, Richard C.	UNKNOWN	not available	Mark 1	PLUGGED	39.166176	-80.56315
88	4704100205	Lewis	Flossie Riley	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Storage	2361	ACTIVE	39.126554	-80.53838
89	4704100343	Lewis	E Haney	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Storage	2312	ACTIVE	39.123351	-80.55693
90	4704101296	Lewis	E L Haney	UNKNOWN	Gantz	Storage	2610	PLUGGED	39.124622	-80.56009
91	4704101578	Lewis	W A Booth	Diversified Resources, Inc.	Gordon	Gas	2674	ACTIVE	39.157766	-80.55135
92	4704101641	Lewis	Jack E Waggoner	Eastern Gas Transmission & Storage, Inc.	Greenland Gap Fm	Gas	4703	ACTIVE	39.115955	-80.54390
93	4704101761	Lewis	William Burnside	Eastern Gas Transmission & Storage, Inc.	Benson	Gas	4760	ACTIVE	39.114649	-80.55879
94	4704101807	Lewis	E L Hanley	Eastern Gas Transmission & Storage, Inc.	Benson	Storage	4876	ACTIVE	39.122286	-80.55978
95	4704101966	Lewis	Brent Maxwell	Eastern Gas Transmission & Storage, Inc.	Gordon	Dry	2896	PLUGGED	39.154711	-80.57824
96	4704102184	Lewis	M C Burnside	Eastern Gas Transmission & Storage, Inc.	Benson	Gas	4848	ACTIVE	39.11755	-80.53574
97	4704102303	Lewis	Orpha D Waggoner	Eastern Gas Transmission & Storage, Inc.	Benson	Oil and Gas	4777	ACTIVE	39.11581	-80.55060
98	4704102579	Lewis	Sarepta Nutter	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	-	ACTIVE	39.130647	-80.56606
99	4704102580	Lewis	J R H Straley	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	1 -1-	ACTIVE	39.132532	-80.56624
100	4704102588	Lewis	Minor J Hall	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Storage	2350	ACTIVE	39.119866	-80.56101
101	4704102603	Lewis	W Burnside	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	11-0	ACTIVE	39.114351	-80.55710
102	4704102605	Lewis	T J Halterman	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	1 2 7 7	ACTIVE	39.120447	-80.55878
103	4704102608	Lewis	G W Waggoner	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Storage	2296	ACTIVE	39.117979	-80.55580

104	4704102669	Lewis	L E Gall	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage		ACTIVE	39.132532	-80.561966
105	4704102672	Lewis	L E Gall	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage		ACTIVE	39.129892	-80.562168
106	4704102697	Lewis	J A Fox	Fluharty Enterprises, Inc.	UNKNOWN	not available	1 2	XABANDONED	39.15472	-80.550106
107	4704102726	Lewis	E W Wagonner	UNKNOWN	Hampshire Grp	Gas	2435	PLUGGED	39.113199	-80.551349
108	4704102849	Lewis	Francis McKinley	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage		ACTIVE	39.136993	-80.554712
109	4704102850	Lewis	L E Gall et al	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage		ACTIVE	39.135333	-80.558905
110	4704103343	Lewis	R B Weimann	Diversified Resources, Inc.	Benson	Oil and Gas	5058	ACTIVE	39.166611	-80.577997
111	4704104784	Lewis	Troy/D Rickles	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	not available		PLUGGED	39.141793	-80.567013
112	4704104976	Lewis	Phillip Burnside	Mountain V Oil and Gas, Inc.	Alexander	Gas	5600	ACTIVE	39.150804	-80.573519
113	4704105688	Lewis	John E Tyler	Diversified Resources, Inc.		14.	14.0	NEVER DRILLED	39.165574	-80.582408
114	4704130076	Lewis	Ray & Delphia Holden	South Penn Oil (S. Penn Nat. Gas)	Hampshire Grp	Oil	2869	PLUGGED	39.129197	-80.564199
115	4704130109	Lewis	F M McKinley	Federal Oil Co.	UNKNOWN	not available	2909	PLUGGED	39.127456	-80.559544
116	4704130227	Lewis	Ray & Delphia Holden	South Penn Oil (S. Penn Nat. Gas)	Hampshire Grp	Oil and Gas	2932	PLUGGED	39.128036	-80.564982
117	4704130355	Lewis	William Moses	Moses, William	Fifth	Oil	2806	PLUGGED	39.158346	-80.551972
118	4704130469	Lewis	Alice White	Bradford Supply Co.	Hampshire Grp	Oil	2850	PLUGGED	39.143409	-80.545395
119	4704130486	Lewis	Serepta Nutter	South Penn Oil (S. Penn Nat. Gas)	Hampshire Grp	Oil	2914	PLUGGED	39.126151	-80.561219
SOUR	CE: WVGES DAT	ASET (2020) and WVDEP WEBSITE	AND FIELD SURVEYS	YELLOW DENOT	ES WELL WITH TVD > 4,50	00'	GREEN DE	NOTES SURVEYED	WELLS
TAGGL	ED 11/11/2021						10			

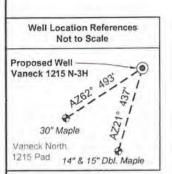
WV Deparment of Environmental Protection NECEIVED Office of Oil and Cas JUL 1 4 2022







Page 2 of 3

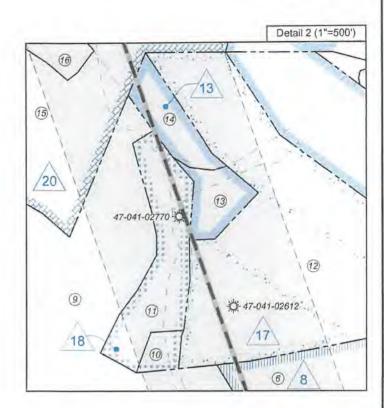


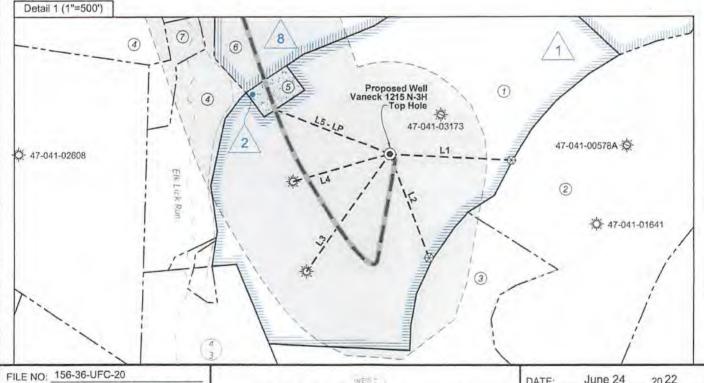
Tag	Bearing	Dist.	Description
L1	N 87°02' W	661.6'	1/2" Rebar
L2	N 20°54' W	598.0	1/2" Rebar
L3	N 35°39' E	776.8'	#47-041-02303
L4	N 74°08' E	546.2"	#47-041-03100
L5	N 68°52' W	669.2'	Landing point

RECEIVED Office of Oil and Gas

JUL 1 4 2022

WV Department of Environmental Protection





DRAWING NO: Vaneck 1215 N-3H Well Plat SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:

Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: June 24 20 22

OPERATOR'S WELL NO. Vaneck 1215 N-3H

API WELL NO

47 — 041 — 05734

COUNTY

WELL TYPE: □ OIL ☒ GAS (IF GAS) PRODUCTION:

☐ LIQUID INJECTION ☐ WASTE DISPOSAL ☐ STORAGE ☐ DEEP ☒ SHALLOW

Top - Camden QUADRANGLE: Btm - Big Isaac

LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek

COUNTY: Lewis ACREAGE: 55.008/19/2022

PERMIT

DISTRICT: Freemans Creek

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

ROYALTY OWNER: George W. Waggoner, et ux, et al

Parkersburg, WV 26101

LEASE NO: _____ ACREAGE: __56.00

STATE

□ PLUG AND ABANDON □ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 18,500' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White
ADDRESS: 5260 Dupont Road

ADDRESS: 5260 Dupont Road

Parkersburg, WV 26101

HG Energy II Appalachia, LLC Well No. Vaneck 1215 N-3H



Page 3 of 3

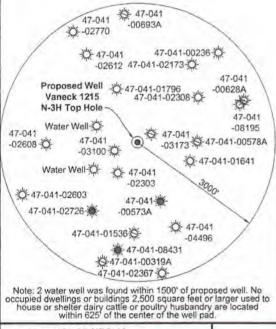
PECEIVED
Office of Oil and Gas

JUL 1 4 2022

MV Department of Environmental Protection

Lewis Co. - Freeman Creek Dist.

		Lewis Co Freeman Greek Dist.		
No.	TM / Par	Owner	Bk / Pg	Ac.
1	5C / 29	HG Energy II Appalachia, LLC	765 / 894	55.00
2	5C / 27.2	Jack E. & Cerilda M. Waggoner	547 / 691	57.97
3	5C / 25	Raymond C. & Colona J. Waggoner	567 / 416	45.48
4	5C/7	Charles B. Curtis, Jr.	W19 / 725	45.65
5	5C / 28	Judith G. Piercy	F30 / 596	1.00
6	5C / 30	Woody Lumber Co. Inc.	590 / 438	140.50
7	5C / 7.3	Dustin McDougal	746 / 65	2.05
8	5C / 7.2	Dustin L. & David L. McDougal	603 / 688	2.01
9	5C/6	Jason E. & Amy L. Hunt	589 / 3	85.00
10	5C/4	Jason E. & Amy L. Hunt	589 / 3	1.00
111	5C/5	Jason E. & Amy L. Hunt	589 / 3	6.20
12	5C/3	Betty E. Rhoades	W35 / 524	33.60
13	5C/2	Betty E. Rhoades	W35 / 524	2.30
14	5C / 48	Betty E. Rhoades	W35 / 524	3.00
15	5B / 11	Betty E. Rhoades	W35 / 524	56.00
16	5B / 11.1	Stewart J. Rhoades	478 / 201	3.75
17	5B / 10	Allen B. Jerden, et al	W23 / 18	4.00
18	5B / 22	Christopher G. Duerr	594 / 666	34.50
19	5B / 8	Robert A. & Jane M. Marrison	722 / 374	47.50
20	5B / 23	Christopher G. Duerr	594 / 666	20.00
		Robert A. & Jane M. Marrison	722 / 374	0.69
21	5B / 7			
21	5B / 7 5B / 5	Gerald L. & Rita R. Kolva	639 / 517	100.33
21 22 23	5B / 5 5B / 4			100.33 85.00
22	5B / 5	Gerald L. & Rita R. Kolva	639 / 517	
22 23	5B / 5 5B / 4	Gerald L. & Rita R. Kolva Coastal Forest Resources Co.	639 / 517 710 / 471	85.00
22 23 24	5B / 5 5B / 4 5B / 3	Gerald L. & Rita R. Kolva Coastal Forest Resources Co. Jeffrey P. & Anessa E. Griffith	639 / 517 710 / 471 653 / 168	85.00 74.00
22 23 24 25	5B / 5 5B / 4 5B / 3 5B / 2	Gerald L. & Rita R. Kolva Coastal Forest Resources Co. Jeffrey P. & Anessa E. Griffith Coastal Forest Resources Co.	639 / 517 710 / 471 653 / 168 710 / 471	85.00 74.00 26.00
22 23 24 25 26	5B / 5 5B / 4 5B / 3 5B / 2 4B / 36	Gerald L. & Rita R. Kolva Coastal Forest Resources Co. Jeffrey P. & Anessa E. Griffith Coastal Forest Resources Co. Jeffrey P. & Anessa E. Griffith	639 / 517 710 / 471 653 / 168 710 / 471 692 / 498	85.00 74.00 26.00 23.50



Legend (0) Proposed gas well 0 Well Reference, as noted (50) Monument, as noted * Existing Well, as noted Existing Plugged Well, as noted Digitized Well, as noted Creek or Drain Existing Road Surface boundary (approx.) Adjoiner surface tracts (approx.)

Wellhead Layout (NTS) Vaneck 1215 N-4H @ Vaneck 1215 N-5H Vaneck 1215 N-6H WAS STERED CO. API# 47-041-05730 Proposed Well 0 Vaneck 1215 N-3H Vaneck 1215 N-2H (0) Vaneck 1215 N-1H (6)

FILE NO: 156-36-UFC-20 DRAWING NO: Vaneck 1215 N-3H Well Plat SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION:

CORS, Bridgeport, WV

WELL TYPE: OIL

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

☐ WASTE DISPOSAL

WES

June 24 20 22 DATE OPERATOR'S WELL NO. Vaneck 1215 N-3H API WELL NO - 05734 47 041 PERMIT STATE COUNTY

QUADRANGLE: Btm - Big Isaac

Top - Camden

(IF GAS) P	RODUCTION:	☐ STORAGE		DEEP	X	SHALLOW
LOCATION: ELEVAT	TON: 1254.8' WA	ATERSHED: Midd	lle W	est Fork	Cree	k
DISTRICT: Freemans	Creek					
SURFACE OWNER:	HG Energy II, Ap	palachia, LLC, et a	al			

X GAS

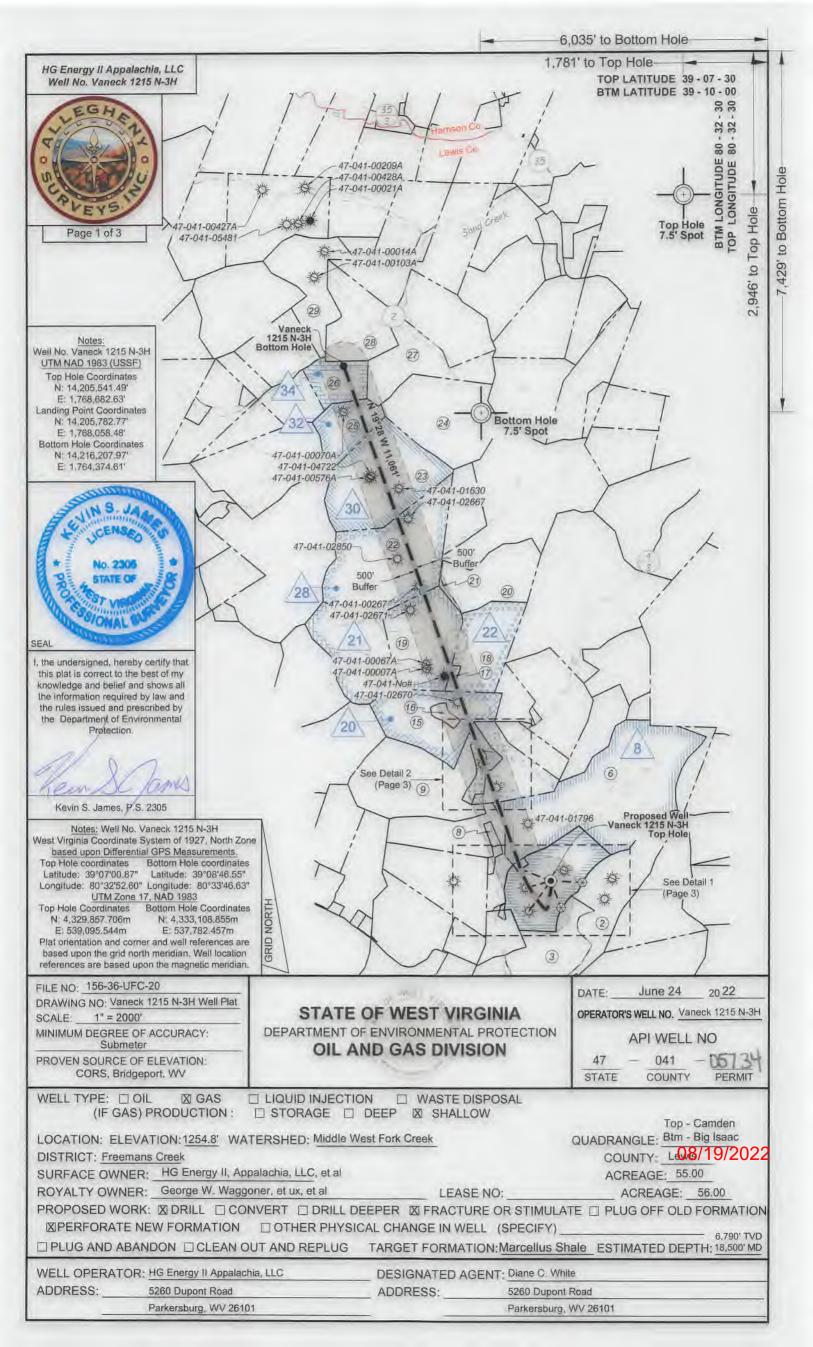
ROYALTY OWNER: George W. Waggoner, et ux, et al

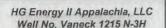
☐ LIQUID INJECTION

COUNTY: Lewis ACREAGE: 55.008/19/2022 ACREAGE: 56.00 LEASE NO:

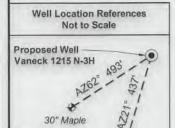
PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☑ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION ☑PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 18,500° MD

WELL OPERATOR; HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road Parkersburg, WV 26101 Parkersburg, WV 26101



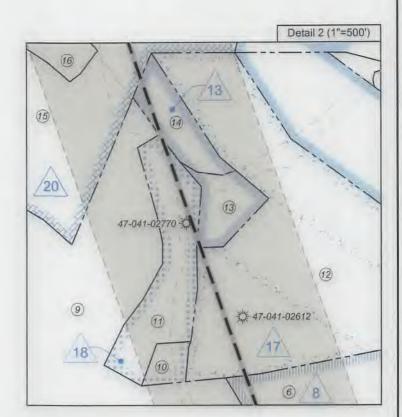


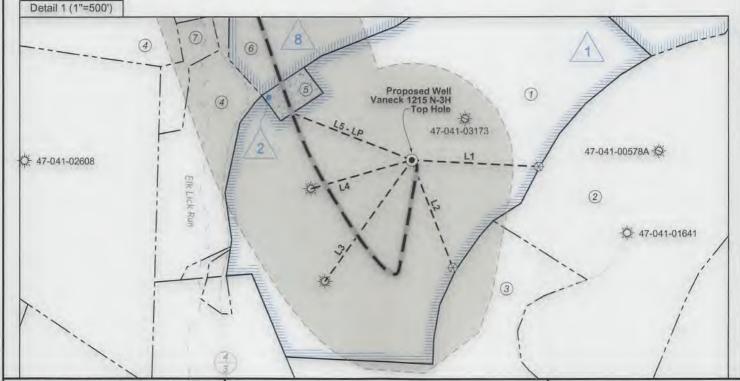




ck North 1215 Pad 14" & 15" Dbl.

Tag	Bearing	Dist.	Description
L1	N 87°02' W	661.6'	1/2" Rebar
L2	N 20°54' W	598.0'	1/2" Rebar
L3	N 35°39' E	776.8'	#47-041-02303
L4	N 74°08' E	546.2'	#47-041-03100
L5	N 68°52' W	669.2'	Landing point





FILE NO: 156-36-UFC-20

DRAWING NO: Vaneck 1215 N-3H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:

Submeter

PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

OIL AND GAS DIVISION

June 24 DATE: 20 22

OPERATOR'S WELL NO. Vaneck 1215 N-3H

API WELL NO

47 041 - 05754 STATE COUNTY PERMIT

WELL TYPE: □ OIL X GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL (IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW

Top - Camden QUADRANGLE: Btm - Big Isaac LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek DISTRICT: Freemans Creek

COUNTY: L. 19/2022 SURFACE OWNER: HG Energy II, Appalachia, LLC, et al ACREAGE: 55.00

ROYALTY OWNER: George W. Waggoner, et ux, et al ACREAGE: 56.00 LEASE NO:

PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION

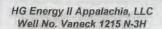
☑PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 18,500' MD

WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White ADDRESS: 5260 Dupont Road

Parkersburg, WV 26101

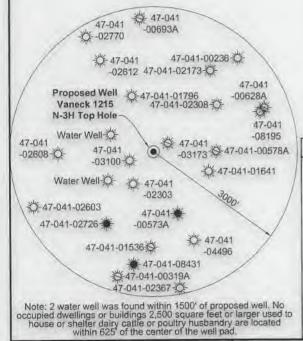
ADDRESS: 5260 Dupont Road Parkersburg, WV 26101





ID	Lease
1	George W. Waggoner et ux
2	P.W. Arbogast, et al
8	Fielding B. Riley, et al
13	South Penn Natural Gas Co., et al
17	Jacob Minter, et ux
18	Caroline Minter, et al
20	Francis M. McKinley, et ux
21	L.E. Gall, et ux
22	Geo C. Francis, et al
28	L.E. Gall, BLal
30	W.S. Bennett, et ux
32	Will E. Moms, et us
34	Sadie Mae Curry, et al

		Lewis Co Freeman Creek Dist.		_
No.	TM / Par	Owner	Bk/Pg	Ac.
1	5C / 29	HG Energy II Appalachia, LLC	765 / 894	55.00
2	5C / 27.2	Jack E. & Cerilda M. Waggoner	547 / 691	57.97
3	5C / 25	Raymond C. & Colona J. Waggoner	567 / 416	45.48
4	5C/7	Charles B. Curtis, Jr.	W19 / 725	45.65
5	5C / 28	Judith G. Piercy	F30 / 596	1.00
6	5C / 30	Woody Lumber Co. Inc.	590 / 438	140.50
7	5C / 7.3	Dustin McDougal	746 / 65	2.05
8	5C / 7.2	Dustin L. & David L. McDougal	603 / 688	2.01
9	5C/6	Jason E. & Amy L. Hunt	589 / 3	85.00
10	5C/4	Jason E. & Amy L. Hunt	589 / 3	1.00
11	5C/5	Jason E. & Amy L. Hunt	589 / 3	6.20
12	5C/3	Betty E. Rhoades	W35 / 524	33.60
13	5C/2	Betty E. Rhoades	W35 / 524	2.30
14	5C / 48	Betty E. Rhoades	W35 / 524	3.00
15	5B / 11	Betty E. Rhoades	W35 / 524	56.00
16	5B / 11.1	Stewart J. Rhoades	478 / 201	3.75
17	5B / 10	Allen B. Jerden, et al	W23 / 18	4.00
18	5B / 22	Christopher G. Duerr	594 / 666	34.50
19	5B / 8	Robert A. & Jane M. Marrison	722 / 374	47.50
20	5B / 23	Christopher G. Duerr	594 / 666	20.00
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22	5B / 5	Gerald L. & Rita R. Kolva	639 / 517	100.33
23	5B/4	Coastal Forest Resources Co.	710 / 471	85.00
24	5B/3	Jeffrey P. & Anessa E. Griffith	653 / 168	74.00
25	5B/2	Coastal Forest Resources Co.	710 / 471	26.00
26	4B / 36	Jeffrey P. & Anessa E. Griffith	692 / 498	23.50
27	5B / 1	Jeffrey P. & Anessa E. Griffith	692 / 498	49.25
28	5A/4	Jeffrey P. & Anessa E. Griffith	692 / 498	44.00
29	4A / 37	Rachel D. & Joshua M. Wyckoff	750 / 260	48.50



Legend (0) Proposed gas well 0 Well Reference, as noted (X) Monument, as noted Existing Well, as noted Existing Plugged Well, as noted 紫 Digitized Well, as noted Creek or Drain Existing Road Surface boundary (approx.) Adjoiner surface tracts (approx.)

Wellhead Layout (NTS) 0 Vaneck 1215 N-4H Vaneck 1215 N-5H Vaneck 1215 N-6H API# 47-041-05730 Harazierio O.C. Proposed Well Vaneck 1215 N-3H Vaneck 1215 N-2H Vaneck 1215 N-1H @

FILE NO: 156-36-UFC-20 DRAWING NO: Vaneck 1215 N-3H Well Plat 1" = 2000' MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION:

CORS, Bridgeport, WV

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

DATE: OPERATOR'S WELL NO. Vaneck 1215 N-3H API WELL NO 05134 47 041 COUNTY PERMIT STATE

June 24

2022

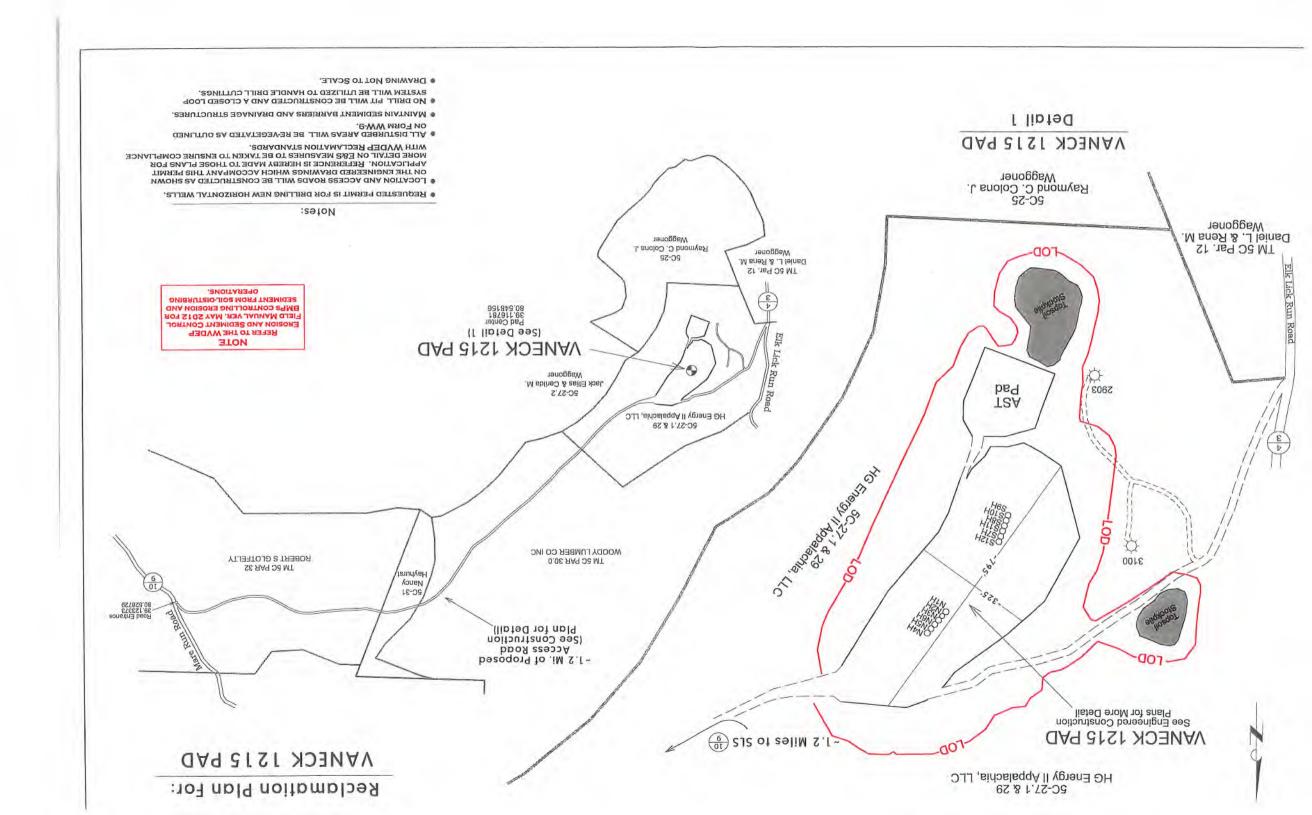
☐ LIQUID INJECTION ☐ WASTE DISPOSAL X GAS WELL TYPE: OIL ☐ STORAGE ☐ DEEP ☒ SHALLOW (IF GAS) PRODUCTION: LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek DISTRICT: Freemans Creek SURFACE OWNER: HG Energy II, Appalachia, LLC, et al

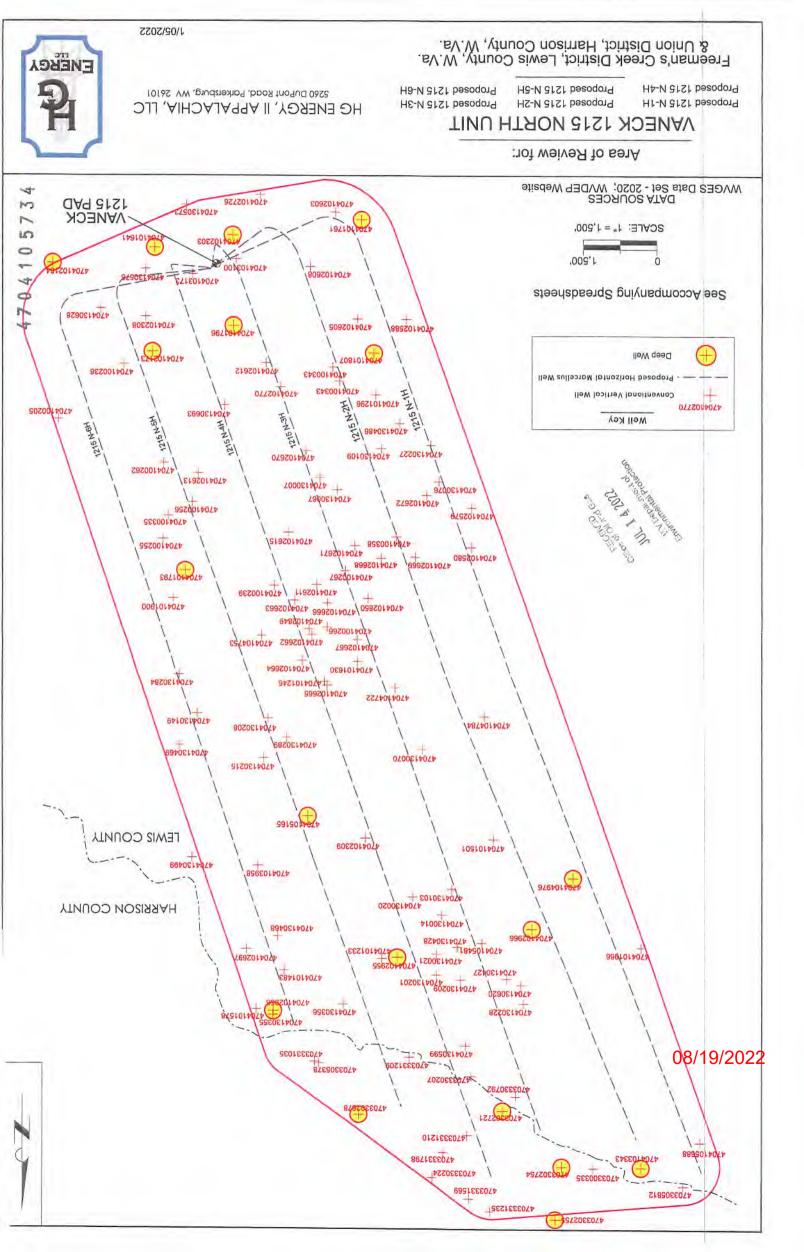
Top - Camden QUADRANGLE: Btm - Big Isaac COUNTY: L-08/19/2022 ACREAGE: 55.00

ROYALTY OWNER: George W. Waggoner, et ux, et al ACREAGE: 56.00 LEASE NO: PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☑ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION

☑PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH; 18,500' MD ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG

DESIGNATED AGENT: Diane C. White WELL OPERATOR: HG Energy II Appalachia, LLC 5260 Dupont Road ADDRESS: ADDRESS: 5260 Dupont Road Parkersburg, WV 26101 Parkersburg, WV 26101





337337 CA	
WW-6A	l
(5/13)	

Operator's Well No.	Vaneck 1215 N-3H

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

RECEIVED
Office of Oil and Gas

JUL 1 4 2022

WV Department of Environmental Protection

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

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

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

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

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

Page 1 of ____

HG Energy II Appalachia, LLC - Vaneck 1215 N-3H

15N Tract	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAG
TON Hace,	MOMBER	1777 1974		GEO. W. WAGGONER AND ROSA M. WAGGONER, HIS WIFE	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	NOT LESS THAN 1/8	73	
	1		į.	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	85	
			Ï	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	
•				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	DEED	125	
			İ	PITTSBURG AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY	ASSIGNMENT	216	
				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	
				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	
1	LK021203	03-005C-0029-0000	42000000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
			1			SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	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	
	<u> </u>			FIELDING B. RILEY AND SAMUEL M. RILEY AND M. V. RILEY	E. W. BOYD	NOT LESS THAN 1/8	35	
				E. W. BOYD	S. E. BARRETT	ASSIGNMENT	30	
				S. E. BARRETT	LOUIS BENNETT	ASSIGNMENT (50%)	36	
				LOUIS BENNETT AND S. E. BARRETT	J. M. GUFFEY AND JNO. H. GALEY	ASSIGNMENT (75%)	71	
				S. E. BARRETT	J. M. GUFFEY AND JNO. H. GALEY	ASSIGNMENT	44	
				LOUIS BENNETT	J. M. GUFFEY AND JNO. H. GALEY	ASSIGNMENT	44	
				J. M. GUFFEY AND JNO. H. GALEY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	44	
	1	1		THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	85	
	1			THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	
		1		THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	DEED	125	
				PITTSBURG AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY	ASSIGNMENT	216	
				EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	246	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
		02 0050 0030 0000	Q100666000	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
8	FK052230	03-005C-0030-0000	Q10000000	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
		l .		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
		1		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
	i	Į.		DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		1				SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC. $9 \le 9 \le 9$	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	
				BOWN TON ENGINEE TO THE TOTAL TO		THIRD AMENDMENT TO MEMORANDUM OF		
	1			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	
				DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT THIRD AMENDMENT TO MEMORANDUM OF		-

,	ı İ			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				JACOB MINTER AND PRISCILLA MINTER, HIS WIFE	E. W. BOYD	NOT LESS THAN 1/8	35	239
				CAROLINE MINTER	E. W. BOYD	NOT LESS THAN 1/8	35	223
				E. W. BOYD	S. E. BARRETT	ASSIGNMENT	30	369
				S. E. BARRETT	LOUIS BENNETT	ASSIGNMENT (50%)	36	517
	!			S. E. BARRETT	J. M. GUFFEY AND JNO. H. GALEY	ASSIGNMENT	44	569
				LOUIS BENNETT	J. M. GUFFEY AND JNO. H. GALEY	ASSIGNMENT	44	571
		. 1		J. M. GUFFEY AND JNO. H. GALEY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	44	583
İ				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	85	141
1			1	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	379
1	,			THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	DEED	125	373
1			,	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	156	420
1				PITTSBURGH AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY	ASSIGNMENT	216	185
l				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
1		- /- 02 00EC 0003 0000	Q100761000	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
17	FK052233	p/o 03-005C-0003-0000	Q100761000	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
	İ			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
1	1		l	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
1				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
			1	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
		1	i	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
l			Į.	DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
				DOMINION THE ADMINISTRATION OF THE PARTY OF		SECOND AMENDMENT TO MEMORANDUM OF		
	1	l .		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
				DOMINION ENERGY THE MODIFICATION		THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
l		l	1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				CAROLINE MINTER AND SALLY MINTER	E. W. BOYD	NOT LESS THAN 1/8	35	243
	1		1	E. W. BOYD	S. E. BARRETT	ASSIGNMENT	30	369
1		1	1	S. E. BARRETT	LOUIS BENNETT	ASSIGNMENT (50%)	36	517
l				S. E. BARRETT	J. M. GUFFEY AND JNO. H. GALEY	ASSIGNMENT	44	569
				LOUIS BENNETT	J. M. GUFFEY AND JNO. H. GALEY	ASSIGNMENT	44	571
1	1			J. M. GUFFEY AND JNO. H. GALEY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	44	583
			1	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIĞNMENT	85	141
1	1	1		THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	379
1	1			THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	DEED	125	371
Ī			ļ	PITTSBURGH AND WEST VIRGINIA GAS COMPANY AND PHILADELPHIA				
1		1	1	OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	156	420
	1		1	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY	ASSIGNMENT	216	185
1	İ			EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	246	192
	1	03-005C-0004-0000		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
18	FK052235	03-005C-0005-0000	Q100379000	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
1 .			1	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
		1	1	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
1				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
1				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
			1	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
1				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
1	1		1	DOMINON TRANSMISSION, INC.	al	SECOND AMENDMENT TO MEMORANDUM OF	1	
			l	DOMINION ENERGY TRANSMISSION, INC. 69 9	1 HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
	•	•		Oil and Gas 4 2022 Arithment of nital Protection				

1	1	1				THIRD AMENDMENT TO MEMORANDUM OF	i	
· '				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
		i		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
13	FK068184 FK068184	03-005B-0016-0000 03-005B-0042-0000 03-005C-0001-0000 03-005C-0048-0000 03-005C-0052-0000	Q101066000	SOUTH PENN NATURAL GAS COMPANY; JOHN W. LOWTHER & MARIE LOWTHER, HIS WIFE; W. R. MINTER, SINGLE; J. S. MINTER, WIDOWER; FRANK MCCLUNG, WIDOWER; DORTHY STOUT & BENNIE STOUT, HER HUSBAND; MARY STOUT, A MARRIED WOMAN LIVING SEPARATE AND APART FROM HER HUSBAND; EDWARD T. MINTER & MARY JOSEPHINE MINTER, HIS WIFE; C. M. GARRETT, WIDOWER; JOHN E. GARRETT & HELEN H. GARRETT, HIS WIFE; L. EARL GARRETT & VIRGINIA G. GARRETT, HIS WIFE; ANICE G. BAKER & ARDEN C. BAKER, HER HUSBAND; ETHAL G. GUM & E. KEMP GUM, HER HUSBAND; EDNA G. BAKER & PAUL F. BAKER, HER HUSBAND; MAVIS G. COLE & DELBERT COLE, HER HUSBAND; BARYL G. TALBOTT & BROCK TALBETT, HER HUSBAND; MONA LEE SHUTTS & CREED L. SHUTTS, HER HUSBAND; WANDA G. FLESHER & R. R. FLESHER, HER HUSBAND; K. E. MCCLUNG & E. E. MCCLUNG, HIS WIFE; WILDA L. BERG & HENRY B. BERG, HER HUSBAND; HAROLD MCCLUNG & HELEN MCCLUNG, HIS WIFE; JOSEPH R. GARRETT & RUTH G. GARRETT, HIS WIFE; CHARLES M. GARRETT, JR. & HILDA L. GARRETT, HIS WIFE; CATHERINE WARE & DANCIL WARE, HER HUSBAND; GARNETTA KENNEDY & FRANK KENNEDY, HER HUSBAND; WILSIE M. TAYLOR & CHARLES R. TAYLOR, HER HUSBAND HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC.	HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8 CONFIRMATORY DEED ASSIGNMENT MERGER/NAME CHANGE MERGER/NAME CHANGE MEMORANDUM OF FARMOUT AGREEMENT LIMITED PARTIAL ASSIGNMENT (50%) PARTIAL ASSIGNMENT (32%) ASSIGNMENT ASSIGNMENT ASSIGNMENT MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	254 294 425 WVSOS WVSOS 672 684 712 717 722 WVSOS 723	127 89 127 154 57 848 1 170 499
	Pro	202		DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
		1.0		FRANCIS M. MCKINLEY AND M. E. MCKINLEY, HIS WIFE	J. M. GUFFEY AND JOHN H. GALEY	NOT LESS THAN 1/8	44	193
ł	ectio	w	1	J. M. GUFFEY AND JOHN H. GALEY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	73	318
	9	:		THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	379
				PITTSBURGH AND WEST VIRGINIA GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	174	231
	1			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
l	1		1		CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
1	1	l		CONSOLIDATED GAS SUPPLY CORPORATION				127
	1	1	1	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
1	1	1		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
1	1	1	1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
		03-005B-0011-0000	Q100775000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
20	FK056566	03-005B-0011-0001	Q1007/5000		CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
	1		1	DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	ASSIGNMENT (32%)	717	048
			1	CNX GAS COMPANY LLC		ASSIGNMENT		1
		1	1	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC		722	170
1			1	DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
1	l	1	1			SECOND AMENDMENT TO MEMORANDUM OF	1	
1						FARMOUT AGREEMENT		

ı	1	1		1		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	
				GEO. C. FRANCIS AND CHRISTIANA FRANCIS, HIS WIFE; AND W. W.				
				BRANNON AND ADDIE BRANNON, HIS WIFE	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	NOT LESS THAN 1/8	55	
	•			THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	
	!			THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	DEED	125	
				PITTSBURGH AND WEST VIRGINIA GAS COMPANY AND THE				
				PHILADELPHIA COMPANY OF WEST VIRGINIA	HOPE NATURAL GAS COMPANY	ASSIGNMENT	156	
	ł			PITTSBURGH 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 SOFT EF CONFORMATION CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
				CONSOLIDATED GAS SUPPLY CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE		
		03-005B-0010-0000		CONSOLIDATED GAS TRANSMISSION CORPORATION		MERGER/NAME CHANGE	WVSOS	
22	FK052239	03-005B-0022-0000	Q100431000	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	· · · · · · · · · · · · · · · · · · ·	WVSOS	
		03-0036-0022 0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
	1			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
	1			NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
						SECOND AMENDMENT TO MEMORANDUM OF	T	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	
						THIRD AMENDMENT TO MEMORANDUM OF		
]			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	
	1		l	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	
	 			L. E. GALL AND HENRIETTA GALL, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	58	
		,	1	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
			!	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
	1		!	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
			1	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
	1		Ī.	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	
			1	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
	[[03-005B-0007-0000	1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	
21	FK004388	03-005B-0008-0000	Q100456000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
		03-005B-0009-0000	1	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
	1		1		DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
			Į.	DOMINION TRANSMISSION, INC.	DOMINION ENERGY THANSIANSSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF	VV V3U3	
			1	DOMINION ENERGY TRANSMISSION INC	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	777	
				DOMINION ENERGY TRANSMISSION, INC.	NO ENERGY II AFFALACNIA, LLC		723	
		1			LIC ENERGY II ARRAI ACHIA LLC	THIRD AMENDMENT TO MEMORANDUM OF		
		ĺ		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	
		l		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	
				L. E. GALL AND HENRIETTA GALL, HIS WIFE; AND J. L. GALL AND MARY			1	
		1		E. GALL, HIS WIFE	SOUTHERN OIL COMPANY	NOT LESS THAN 1/8	40	
		1		J. N. BARNSDALL AND SOUTHERN OIL OCMPANY	FRED S. RICH	DEED	46	
	1	1	1	FRED S. RICH AND M. B. RICH, HIS WIFE	GEORGE H. CORNWALL AND JOHN M. REED	ASSIGNMENT (12.5%)	46	
	1		1	FRED S. RICH AND M. B. RICH, HIS WIFE, GEORGE H. CORNWALL AND				
	1			MARY D. CORNWALL, HIS WIFE, J. M. REED AND ELLA REED, HIS				
	1	1	1	WIFE, (PARTNERS AS FRED S. RICH & CO.) AND W. I. GOBEL AND L. M.			ł	
	th		1	GOBEL, HIS WIFE	CRUDE OIL COMPANY	ASSIGNMENT	52	
	1 0		1	CRUDE OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT -	55	
	UL 1 4 2022 NV Department of partmental Protection		i	CRUDE OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	55	
	BG 12 8:	1	1 .	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
		T.	1	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
	1 4 20/ epartment	7 D						

20 1	rvoresea I	03-005B-0005-0000	Q100344000	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
28	FK056564	03-00311-0003-0000	Q1005 1 1005	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	15
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	5
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	84
		ì		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
		l l		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	17
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				Dominion in the state of the st		SECOND AMENDMENT TO MEMORANDUM OF		
	Í	·		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	49
				John Horse Liver of the Control of t		THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	55
		i		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	22
				W. S. BENNETT AND A. V. BENNETT, HIS WIFE	THE LEWIS OIL COMPANY	NOT LESS THAN 1/8	44	
		ľ		THE LEWIS OIL COMPANY	J. M. GUFFEY AND JNO. H. GALEY	ASSIGNMENT	44	56
				THE LEWIS OIL COMPANY	J. M. GUFFEY AND JNO. H. GALEY	ASSIGNMENT	. 46	39
				J. M. GUFFEY AND JNO. H. GALEY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	73	31
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	37
				THE PHICADELPHIA COMPANY OF WEST VINGINIA THE PITTSBURGH AND WEST VIRGINIA GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	174	23
				HUNTER M. BENNETT AND MADGE BENNETT, HIS WIFE; GUFFEY OIL	HOLD WHO HE SHOULD SHOU			
				AND GAS ROYALTIES, INC.; AND JOSEPH SHIBEN AND MINNIE SHIBEN,				
					HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	235	10
				HIS WIFE	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	- 20
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	12
			0.4000.45000	CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
30	FK056568	03-005B-0004-0000	Q100345000		DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
30	FK065934		Q100987000	CNG TRANSMISSION CORPORATION	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	15-
				DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	5
				CNX GAS COMPANY LLC	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	84
			<u> </u>	DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	ASSIGNMENT	717	
				CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				NOBLE ENERGY, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY THANSMISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF	***************************************	
				DOMESTIC ON TRANSPORTED AND AND AND AND AND AND AND AND AND AN	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
	Prom			DOMINION ENERGY TRANSMISSION, INC.	ING ENERGY II AFFALACIIIA, LEC	THIRD AMENDMENT TO MEMORANDUM OF	723	49
	Office of)			HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
	Office of Comment	C2 3		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
	1111 3			DOMINION ENERGY TRANSMISSION, INC.		NOT LESS THAN 1/8		
	14	2		WILL E. MORRIS AND CAMILLA MORRIS, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	185	31:
1	MAZ FO	<u> </u>		HUNTER M. BENNETT ET AL	HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	191 294	500
Env	Toning and			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
	21 11 10 1 1 LOS	Lan		CONSOLIDATED GAS SUPPLY CORPORATION		MERGER/NAME CHANGE	WVSOS	12.
		[CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE		
		1		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.		WVSOS	
		l	}	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
	FVOFCOCA	1	Q100686000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
32	FK059391	03-005B-0002-0000	Q100930000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
- -	FK058220	1	Q100520000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
		l	1	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT CHANGE	722	170
		1	1	DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
	1	1	1			SECOND AMENDMENT TO MEMORANDUM OF	1	
	1	1	1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
	1		I			THIRD AMENDMENT TO MEMORANDUM OF	1	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
	1 .		1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220

				SADIE MAE CURREY AND J. WAYNE CURREY, HER HUSBAND, CLESTA H.				
				RULE AND A. GOLDEN RULE, HER HUSBAND,	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	237	249
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
	· ·			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
24	FK066190	03-004B-0036-0000	Q100606000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
34	LK000130	03-004B-0030 0000	dassesses .	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
		1	Į.	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
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						SECOND AMENDMENT TO MEMORANDUM OF		
1		1		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
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				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
1		· ·		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				P. W. ARBOGAST AND E. M. ARBOGAST, HIS WIFE; FRANCES				
1				MCCLUNG AND JAMES D. MCCLUNG, HER HUSBAND; H. H. ARBOGAST	· ·			
		1	ļ	AND ELVA M. ARBOGAST, HIS WIFE; ESSIE M. BAILEY AND GOFF				
				BAILEY, HER HUSBAND; CHARLES D. ARBOGAST AND GEORGIA				
				ARBOGAST, HIS WIFE; RUTH BRUMLEY AND ROBERT BRUMLEY, HER	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	211	109
		· ·		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
	1	1		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
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	l			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
1			Q101043000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
2	FK062076	03-005C-0028-0000	Q100666000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
			Q10000000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
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						SECOND AMENDMENT TO MEMORANDUM OF		
			1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
						THIRD AMENDMENT TO MEMORANDUM OF		
		1		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	558 220
		L						

NECEIVED
Office of Oil and Gas

JUL 1 4 2022

NAV Department of
Environmental Protection



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

June 29, 2022

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

RE:

Drilling Under Roads – Vaneck 1215 N-3H Freemans Creek District, Lewis County West Virginia

Dear Mr. Blevins -

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

Very truly yours,

Diane White

Diane C. White

Enclosures

RECEIVED
Office of Oil and Gas

JUL 1 4 2022

MV Department of Environmental Protection Date of Notice Certification: 07/05/2022

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

API No. 47-

			Operator's	Well No. Van	eck 1215 N-3H
				lame: Vaneck	
	e provisions in West Virginia Code §	§ 22-6A, the Operator has pro	vided the req	uired parties	with the Notice Forms liste
	tract of land as follows:		Б	500000 4	
State:	West Virginia	UTM NAD 83	Easting:	539086.4	
County:	Lewis	Dublic Dood Acc	Northing:	4329865.8 Mare Run Road	/CP 10 / 0
District:	Freemans Creek	Public Road Acc		Vaneck	/ CR 10/9
Quadrangle: Watershed:	Camden WV 7.5's Middle West Fork Creek	Generally used f	arm name:	varieck	
watersned:	Middle West Folk Cleek				
information roof giving the requirements Virginia Codo of this article	ed the owners of the surface descrilequired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen of ea § 22-6A-11(b), the applicant shall thave been completed by the applicar West Virginia Code § 22-6A, the Op	ection sixteen of this article; (in urvey pursuant to subsection of this article were waived in tender proof of and certify to the the.	ii) that the re (a), section to writing by the secretary	quirement was ten of this art the surface of that the notice	s deemed satisfied as a resicle six-a; or (iii) the noticle six-a; or (iii) the noticle wher; and Pursuant to Wo
that the Ope	rator has properly served the require	ed parties with the following:	illis Notice C	ermeation	OOG OFFICE USE
*PLEASE CHI	ECK ALL THAT APPLY				ONLY
	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUI			ONLY RECEIVED/ NOT REQUIRED
☐ 1. NO		SEISMIC ACTIVITY WAS	S CONDUC	TED	☐ RECEIVED/
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	SEISMIC ACTIVITY WAS	S CONDUC TEY WAS CO RED BECA	TED ONDUCTED USE	RECEIVED/ NOT REQUIRED
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	SEISMIC ACTIVITY WAS VEY or NO PLAT SURV NOTICE NOT REQUI	S CONDUC TEY WAS CO RED BECA' PLAT SUR' BY SURFA	TED ONDUCTED USE VEY	RECEIVED/ NOT REQUIRED RECEIVED RECEIVED/
☐ 1. NO′ ■ 2. NO ■ 3. NO	TICE OF SEISMIC ACTIVITY or	SEISMIC ACTIVITY WAS VEY or NO PLAT SURV NOTICE NOT REQUI NOTICE OF ENTRY FOR WAS CONDUCTED or WRITTEN WAIVER (PLEASE ATTACH	S CONDUC TEY WAS CO RED BECA' PLAT SUR' BY SURFA	TED ONDUCTED USE VEY	☐ RECEIVED/ NOT REQUIRED ☐ RECEIVED ☐ RECEIVED/
□ 1. NO■ 2. NO■ 3. NO■ 4. NO	TICE OF SEISMIC ACTIVITY or TICE OF ENTRY FOR PLAT SURV	SEISMIC ACTIVITY WAS VEY or NO PLAT SURV NOTICE NOT REQUI NOTICE OF ENTRY FOR WAS CONDUCTED or WRITTEN WAIVER (PLEASE ATTACH	S CONDUC TEY WAS CO RED BECA' PLAT SUR' BY SURFA	TED ONDUCTED USE VEY	RECEIVED/ NOT REQUIRED RECEIVED RECEIVED/ NOT REQUIRED

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. RECEIVED
Office of Oil and Gas

JUL 1 4 2022 08/19/2022 Environmental Procession

Certification of Notice is hereby given:

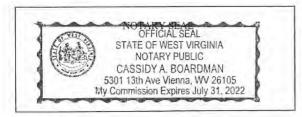
THEREFORE, I Diane White ________, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service,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

 Well Operator:
 HG II Appalachia, LLC
 Address:
 5260 Dupont Road

 By:
 Diane White
 Diane White
 Parkersburg, WV 26101

 Its:
 Agent
 Facsimile:
 304-863-3172

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



Subscribed and sworn before me this 5th day of July, 2022

Cound Bood Notary Public

My Commission Expires 7 31 2022

Oil and Gas Privacy Notice:

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

JUL 1 4 2022

VIV Department of Environmental Protection

WW-6A (9-13)

API NO. 47-	_	
OPERATOR WELL	NO.	Vaneck 1215 N1H - S12H
Well Pad Name: Val	neck 12	15

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

Notice Time Requirement: notice shall be provided no later than	the filing date of permit application.
Date of Notice: 01/17/2022 Date Permit Application Filed: 01/25	/22
Notice of:	-
✓ PERMIT FOR ANY ☐ CERTIFICATE OF APPL	OVAL FOR THE
	·
WELL WORK CONSTRUCTION OF A	N IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-10(b)
☐ PERSONAL ☐ REGISTERED ☐ METHO	DD OF DELIVERY THAT REQUIRES A
— — — — — — — — — — — — — — — — — — —	PT OR SIGNATURE CONFIRMATION
DESCRIPTION OF THE PROPERTY OF	of the application, the applicant for a permit for any well work or for a
the surface of the tract on which the well is or is proposed to be located oil and gas leasehold being developed by the proposed well work, if described in the erosion and sediment control plan submitted pursuar operator or lessee, in the event the tract of land on which the well promore coal seams; (4) The owners of record of the surface tract or trace well work, if the surface tract is to be used for the placement, construing the lands of the surface tract is to be used for the placement, construing the lands of this article; (5) A have a water well, spring or water supply source located within one to provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than three subsection (b) of this section hold interests in the lands, the applicant records of the sheriff required to be maintained pursuant to section expression of this article to the contrary, notice to a lien holder is not a provision of this article to the contrary, notice to a lien holder is not a section to the section of the section is not a provision of this article to the contrary, notice to a lien holder is not a section to the section the section to the contrary provise to a lien holder is not a section to the section to the section to the contrary provise to a lien holder is not a section to the s	e well plat to each of the following persons: (1) The owners of record of red; (2) The owners of record of the surface tract or tracts overlying the the surface tract is to be used for roads or other land disturbance as at to subsection (c), section seven of this article; (3) The coal owner, oposed to be drilled is located [sic] is known to be underlain by one or other soverlying the oil and gas leasehold being developed by the proposed action, enlargement, alteration, repair, removal or abandonment of any my surface owner or water purveyor who is known to the applicant to housand five hundred feet of the center of the well pad which is used to (6) The operator of any natural gas storage field within which the tenants in common or other co-owners of interests described in the may serve the documents required upon the person described in the light, article one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. ovide the Well Site Safety Plan ("WSSP") to the surface owner and any
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice	☑ Well Plat Notice is hereby provided to:
☑ SURFACE OWNER(s) * Not noticed as Surface Owner 1's also the	□ COAL OWNER OR LESSEE
Name: HG Energy II Appalachia, LLC (pad and road) Operator	News NA BECEIVED
Address: 5260 Dupont Road	Address: Office of Oil and Gas
Parkersburg, WV 26101	JUL 1 4 2022
Name:	□ COAL OPERATOR
Address:	Name: NA UV Department of
	Address: Environmental Protection
☐ SURFACE OWNER(s) (Road and/or Other Disturbance)	
Name: Nancy Hayhurst	☐ SURFACE OWNER OF WATER WELL
Address: 195 Rexroad Drive	AND/OR WATER PURVEYOR(s)
Weston, WV 26452	Name: Charles Curtis Gary Stalnaker Timothy Rittenhouse
Name: Woody Lumber Company	Address: 377 Elk Lick Road 179 Elk Lick Road 1729 R Freemans Creek
Address: 201 Vicksburg Road	Weston, WV 26452 Weston, WV 26452 Weston, WV 26452
Buckhannon, WV 26201	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
☐ SURFACE OWNER(s) (Impoundments or Pits)	Name: Dominion Energy Transmission - Attn: Ronald Waldren
Name:	Address: 925 White Oaks Blvd
Address:	Bridgeport, WV 26330
	*Please attach additional forms if necessary

WW-6A (8-13) 4704105734

API NO. 47-

OPERATOR WELL NO. Vanish 1215 W1H-S12H

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/oil-and-gas/pages/default.aspx.

Well Location Restrictions

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

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

JUL 1 4 2022

NV Department of Environmental Protection

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) API NO. 47
OPERATOR WELL NO. Vaneck 1215 N1H-S12H

Well Pad Name: Vaneck 1215

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

Office of Cal and Gas

JUL 1 4 2022

My Depai ment of Environmental Procession

WW-6A (8-13)

APINO. 49 4 1 0 5 7 3 4

OPERATOR WELL NO. Vaneck 1215 N1H- S12H

Well Pad Name: Vaneck 1215

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

Telephone: 304-420-1119

Email: dwhite@hgenergyllc.com Diane white

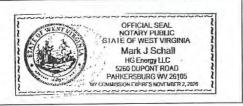
Address: 5260 Dupont Road

Parkersburg, WV 26101

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.



Subscribed and sworn before me this 17th day of January ,2022

Notary Public

My Commission Expires 11 / 2 / 2026

Office of Oil and Gas

JUL 1 4 2022

WV Department of Environmental Protection



January\19, 2022

Dominion Energy Transmission Attn: Ronald Waldren 925 White Oaks Blvd Bridgeport, WV 26330

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

Office of Oil and Gas

JUL 1 4 2022

WV Department of Environmental Protection



January\19, 2022

Timothy Rittenhouse 1729 R Freeman's Creek Weston, WV 26452

RE:

Vaneck 1215 N-1H - S-12H Well Work Permit Applications - Notification

Freemans Creek District, Lewis County

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Diane White

Diane C. White

Enclosures

Office of Oil and Gas

JUL 1 4 2022

WV Department of Environmental Protection



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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Very truly yours,

Diane White

Diane C. White

Enclosures

Office of Oil and Gas

LUV Departing, ver Environmental Protection



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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Very truly yours,

Diane White

Diane C. White

Enclosures

Office of Oil and Gas

JUL 1 4 2022

NV Department of Environmental Protection



January\19, 2022

Woody Lumber Company 201 Vicksburg Road Buckhannon, WV 26201

RE:

Vaneck 1215 N-1H - S-12H Well Work Permit Applications - Notification

Freemans Creek District, Lewis County

West Virginia

Dear Sir -

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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

Office of Oil and Gas

JUL 1 4 2022

My Department of Environmental Protection



4704105734

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.

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Very truly yours,

Diane White

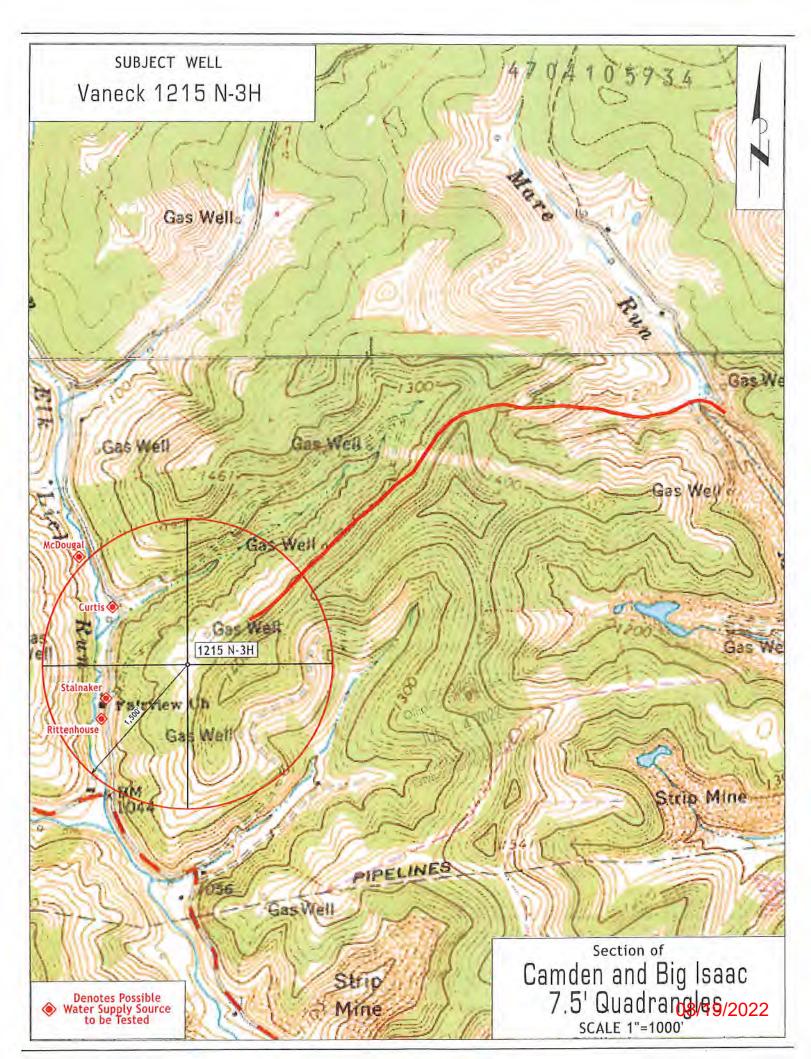
Diane C. White

Enclosures

Office of Oil and Gas

JUL 1 4 2022

NV Department of Environmental Protection



4704105734

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

Notice Time Rentry	equirement: Notice shall be p	ovided at least SEVI	EN (7) day	s but no more than	FORTY-FIVE	(45) days prior to
Date of Notice	: 12/29/2021 Date of F	anned Entry: 01/05/2	022			
	od pursuant to West Virginia					
☐ PERSON.	AT REGISTERED	METHOD	OF DELI	VERY THAT RE	QUIRES A	
SERVICE				ATURE CONFIRI		
on to the surface but no more that beneath such tr owner of miner and Sediment (Secretary, whice	st Virginia Code § 22-6A-10(a se tract to conduct any plat survan forty-five days prior to such act that has filed a declaration prals underlying such tract in the Control Manual and the statutes of statement shall include contained owner to obtain copies from by provided to: * Notice 1	eys required pursuant to: (1) The surfursuant to section the county tax records. and rules related to cet information, include the secretary.	t to this art ace owner irty-six, are The notice oil and gas ling the ad	of such notice so of such tract; (2) to icle six, chapter to shall include a state exploration and prodress for a web pa	o any owner or le venty-two of this tement that copie roduction may be ge on the Secreta	ssee of coal seams code; and (3) any s of the state Erosion obtained from the ry's web site, to
		1	-	OWNER OR LES		
■ SURFACI		mar) ?		A .		
	ergy II Appalachia, LLC (pad, road, royalty or	ner)	Address:			
Address: 5260	rsburg, WV 26101		iddi caa			
			I MINE	RAL OWNER(s)		
Address:				See Attached List		
Namar			Address:			
Address:			rutir coo.			
Address			please attach	additional forms if nee	cessary	
Notice is her Pursuant to We a plat survey o State: County: District:	est Virginia Code § 22-6A-10(an the tract of land as follows: West Virginia Lewis	App Pub		de & Longitude:	operator is plant 39.117104 & 80.5478: Mere Run Road / SR Middle West Fork Rive	19
	Freeman's Creek Camden WV 7.5'			farm name:	Vaneck	
Copies of the s may be obtain	state Erosion and Sediment Cored from the Secretary, at the W V 25304 (304-926-0450). Coffine Secretary by visiting www.	trol Manual and the s V Department of Envices of such documen	statutes and ironmenta ts or additi	I rules related to of Protection headquestion r	uarters, robated a	dol Di Diloci, DE,
		4				
Notice is her	eby given by:	A	ddress:	5260 Dupont Road		JUL 1 4 2022
		P	uui oss.	OZOU DUPON NOSO		
Well Operator	The state of the s			Berkereburg WAI 20104		MIN Consument Of
	304-420-1119		acsimile:	Parkersburg, WV 26101 304-863-3172		Environmental Protection

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.



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

(304) 863-3172 - Fax

4704105734

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 57th 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

Enclosures

Office of Oil and Gas

JUL 1. 4 2022

If V Expandient of Environmental Protection

4704105734

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

Bertha F. Benedum 604 Mare Run Rd. Weston, WV 26452 J. Kent Burnside 645 Mare Run Rd. Weston, WV 26452

Betty Craft 120 E. 7th St. Weston, WV 26452 Patrick A. Nies 571 Deer Hill Rd. Sykesville, MD 21784 Mary Katherine Hull 1000 Maplewood Dr. Apt. 3102 Bridgeport, WV 26330

Kimberly Diana Byrd Trustee For Benefit of Kelly Ann Byrd 512 Jackson Ave. E. Hampton, SC 29924 John E. Determan & Carolyn S. Determan 302 Copley Rd. Weston, WV 26452 William L. Perry, Jr. & Hilda R. Perry 93 Riverview Hts. Weston, WV 26452

Mark R. Fitzpatrick 958 McCanns Run Rd. Jane Lew, WV 26378 Jane E. Horn 958 McCanns Run Rd. Jane Lew, WV 26378 Joan E. Burnside Anderson PO Box 863 Blairsden, CA 96103

Waco Oil and Gas Co. PO Box 880 Glenville, WV 26351 Michael Ross PO Box 219 Coalton, WV 26257-0219 Donald R. Reynolds PO Box 607 Jane Lew, WV 26378

Mary Kemper Gum 47 Meade St. Buckhannon, WV 26201 Richard Clay Hamrick 7 Westferry Ct. Savannah, GA 31411 Steven Jay Hamrick 12104 Foley St. Silver Spring, MD 20902

Linda Rose O'Hara 402 Thackery Ave. Catonsville, MD 21228 Linda Lou Waggoner 24 Queen Eleanor Dr. Elkton, MD 21921 Jack E. Waggoner 1450 Kent Rd. Essex, MD 21221

Joseph C. Waggoner 8892 US Hwy. 33 W. Camden, WV 26338 Mary Kay Small Justice 931 Beech Dr. Greenwood, IN 46142 Bea Ann Small Wilfong 543 Lee Burke Rd. Front Royal, VA 22630

Michael Lynn Small 456 Gaston Manor Rd. Jane Lew, WV 26378 Sharon Lea Small Senk 24 Fairview Ave. Ellington, CT 06029 Dorsey Frazier Hamrick, Jr. 105 Mitchell Rd. Airville, PA 17302

William Everett Hamrick 1224 Trappe Road Street, MD 21154 Janet Rose Dawson 1744 Castleton Road Darlington, MD 21034 Alice Faye McQueen 401 Winslow Drive Bel Air, MD 21015

ir, MD 21015 08/19/2022 Elizabeth Carol Brown 84 Schoolhouse Lane Windsor, PA 17366 Barbara Jean Evans 1944 Franklin Church Road Darlington, MD 21034 Vickie Lynn Erickson 515 Evans Street Perryville, MD 21903

Tina Louise Hamrick 17104 Indian Grass Drive Germantown, MD 20874 Raymond C. Waggoner 7305 Church Ave. Pittsburg, PA 15202

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

Delores E. Small 105 Howard St. Clarksburg, WV 26301 J.P. Morgan Chase Bank, Trustee For S. Austin Smith and C. Burke Morris P.O. Box 659 Wichita Falls, TX 76307

J.P. Morgan Chase Bank, Trustee For Will E. Morris Heirs P.O. Box 659 Wichita Falls, TX 76307 Edward Earl Garrett 2151 Rush Run Rd. Weston, WV 26452 Bruce Hall Garrett, Trustee for Helen Garrett, et al. 1326 Freemans Creek Rd. Camden, WV 26338

Phillip E. Burnside 3 Briarwood Ter. Fairmont, WV 26554 John Kent Burnside 645 Mare Run Rd. Weston, WV 26452

Appalachian Royalties, Inc. PO Drawer 1917 Clarksburg, WV 26301

RECEIVED
Office of Oil and Gas

JUL 1 4 2022

WV Depailment of Environmental Protection WW-6A4 (1/12)

4704105734

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

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-

District: Freemans Creek	Notice is he	est Virginia Code 8 22-6A-16(b), notice is h	ereby given that the undersigned	well operator has an inte	ent to enter upon
District: Freemans Creek Quadrangle: Camden WV 7.5' Generally used farm 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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx. Notice is hereby given by: Well Operator: HG Energy II Appalachia, LLC Authorized Representative: Diene White 5260 Dupont Road Parkersburg, WV 26101 Telephone: 304-420-1119 Telephone: 304-420-1119 Email: dwhite@hgenergyllc.com Duane White Email: dwhite@hgenergyllc.com Wane Run Road / Vaneck Vaneck Vaneck Vaneck Vaneck Vaneck Vaneck Vaneck Vaneck Vaneck Vaneck Vaneck Vaneck Vaneck Vaneck Vaneck Vaneck Vaneck Vaneck Address, telephone number, and if available, available, authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx. Notice is hereby given by: Telephone: 304-420-1119 Telephone: 304-420-1119 Telephone: 304-420-1119 Telephone: 304-420-1119 Telephone: 304-420-1119 Telephone: 304-420-1119 Telephone: 304-420-1119	Notice is he		ntal well on the tract of land as for Easting:	539089.4	ent to enter upon
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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.

WW-6A5 (1/12) Operator Well No. Vances 1215 10-11 to 5-1211 4 7 0 4 1 0 5 7 3 4

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

CERTIFIED RETURN RI Pursuant to W. Va return receipt reque the planned operat required to be prov drilling of a horize damages to the surf (d) The notices req of notice.	ECEIPT REQUESTED L. Code § 22-6A-16(c), no latested or hand delivery, give to the control of th	HAN DEL ater than the d the surface ow y this subsection on ten of this a sed surface use operations to the	ID IVERY ate for filing the ner whose land vion shall include article to a surface and compensative extent the dam	vill be used for (1) A copy to owner whose ion agreement ages are comp	cation, an operator shall, by certified mor the drilling of a horizontal well notice of this code section; (2) The informative land will be used in conjunction with the transfer of compensation pensable under article six-b of this chapt
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	provided to the SURFACE	OWNER(s) *	Notice not be		sted in the records of the sheriff at the tin
(at the address liste	ed in the records of the sherif	f at the time of	i notice):		
	Il Appalachia, LLC		Name:		
Address: 5260 Dupo	ont Road rg, WV 26101	_	Address:		
operation on the state: West County: Lewis	urface owner's land for the p Virginia s	ourpose of drill	ing a horizontal of UTM NAD 83	vell on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 539089.4 4329869.2
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

JUL 1 4 2022



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Vaneck 1215 Pad, Lewis County Vaneck 1215 N-3H Well Site

Dear Mr. Martin,

D. Alan Reed, P.E.

State Highway Engineer

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,

Gary K. Clayton, P.E.

Dary K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Diane White

HG Energy II Appalachia, LLC

CH, OM, D-6

File

Office of Califord Gas

JUL 1 4 2022

1 V Lienaument of Caryinamental Protection

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
DIO CELIAN 2000		10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
THOUSER		107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
THO TIOW TOTAL	- I	68439-45-2
		2687-96-9

Office of Oil and Gas

JUL 1 4 2022

NV Departmental Protection

