

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

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

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

Re: Permit approval for VANECK 1215 S-12H 47-041-05738-00-00

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

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

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

Operator's Well Number:

VANECK 1215 S-12H HG ENERGY II, APPALACHI

Farm Name:

U.S. WELL NUMBER: 47-041-05738-00-00

Horizontal 6A New Drill

Date Issued: 9/22/2022

API	Number:	
	1 1002220 021	

PERMIT CONDITIONS

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

CONDITIONS

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

API NO. 47-<u>0-11</u> - 05738 OPERATOR WELL NO. Vaneck 1215 S-12H

Well Pad Name: Vaneck 1215

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

1) Well Operator: HG Energy	II Appalachia,	494519932	Lewis	Freeman	Camden 7.5'
r) wen operator.	_	Operator ID	County	District	Quadrangle
2) Operator's Well Number: Va	neck 1215 S-12F	H / Well P	ad Name: Van	eck 1215	
3) Farm Name/Surface Owner:	HG Energy II Appalach	ia, LLC Public Ro	oad Access: N	lare Run Rd	at CR 10 / 9
4) Elevation, current ground:	1259' Ele	evation, propose	d post-construc	ction: 1254.8	3'
5) Well Type (a) Gas X Other	Oil		derground Stor		
	illow x	Deep	-		50W 814/2022
6) Existing Pad: Yes or No No			_		814 12022
7) Proposed Target Formation(s Marcellus at 6753'/6803' and 5		The same of the sa		Pressure(s):	
8) Proposed Total Vertical Dept	h: 6,790'				
9) Formation at Total Vertical D	The second second	s			
10) Proposed Total Measured D	00 450	1			
11) Proposed Horizontal Leg Le	ength: 29,325'	1			
12) Approximate Fresh Water S	trata Depths:	60', 214', 600',	861' /		
13) Method to Determine Fresh	Water Depths: N	Nearest offset we	ll data, (47-041	-02173, 0693	, 0236, 2308, 0578 }
14) Approximate Saltwater Dep	ths: 1605'				
15) Approximate Coal Seam De	epths: 272', 700', 10	40', 1150' (Surface o	casing is being ex	tended to cover	the coal in the DTI Field)
16) Approximate Depth to Possi	ible Void (coal mi	ne, karst, other):	None		
17) Does Proposed well location directly overlying or adjacent to		ns Yes		lo X	
(a) If Yes, provide Mine Info:	Name:				
	Depth:				OFF CHEWED
	Seam:				AUG 1 8 2022
	Owner:				V . L×Imi - mu 3i Trodi - memai Protection

API NO. 47-041 _ 05738

OPERATOR WELL NO. Vaneck 1215 S-12H

Well Pad Name: Vaneck 1215

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120'	CTS
Fresh Water/Coal	20"	NEW	J-55	94	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	29325'	29325'	20% Excess Tail, CTS
Tubing							
Liners							

50eu 81412022

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	26"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate 1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Lead 40% excess, Tall 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, tall yield 1.94.0
Tubing							1
Liners					1		

PACKERS

A (5)	TEX	G25
City	1	

Kind:	AUG 1 8 2022
Sizes:	Environmental Profession
Depths Set:	

API NO. 47-041 - 05738

OPERATOR WELL NO. Vaneck 1215 S-12H

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 20,452' lateral length, 29,325' 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 bit used with conductor casing.

Freshwater/Cost - centralized every 3 joints to surface:

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

anemediate 2 - Bow Spring on first 2 joints then every thirt joint to 100° from surface.

Production - Vertical - Run 1 spiral centralizer every 5 joints from the top of the curve to surface, Curvii - Hun 1 spiral centralizer overy 3 joints from the 1st 5.5° long joint to the top of the curve.

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

Conductor -N/A, Casing to an diffect in w/ Qual Retary Rilg.

Fresh Water/Coal -15/6 ppg PNF-1 + 3% twoc CaCM0% Excess/Febil 1.20 / CTS*

Intermediate 1 - **** Starque String **** CTS **** to appg kmd - Yeld 1.24 - D898 Surface Set 100 to / sex (Mix of Class A and Gypsum to meet Dominion Requirements)8948 - 0.5%, BWOB Fluid Loss / D013 - 0.75%, BWOB Retarder / D47 - 0.02 gai / sexk VBWOB Anti Foam / 0202 - 0.15%, BWOB Dispersant / D056 1.5 to app (Enc. Cember **) 60% Excess 15.8 ppg Tai * Yield 1.17 - D896 Surface Set 100 to / anck (Mix of Class A and Gypsum to meet Dominion Requirements)8:160A - 0.15%, BWOB Dispersant / B647 - 0.35%, BWOB GasBLOK* / D013 - 0.3%, BWOB GasBLO

25) Proposed borehole conditioning procedures:

Conductor - Ensure the folic is clear is 1TD.

Finally Water/Coal - Once casting is at settling depth, circulate a minimum of sine hole volume with Frash Water pror to pumping dement.

Intermediate 1 - Once casting is at settling depth, Circulate and cendition at TD. Circulate a minimum of one hole volume prior to pumping centent.

Intermediate 2 - Once casting is at settling depth, Circulate and cendition must at TD. Circulate a minimum of one hole volume prior to pumping centent.

Production - Once on bottom/TD with casting, circulate and cendition must at TD. Circulate a minimum of one hole volume prior to pumping centent.

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

AUG 1 8 2022

*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	CAS#		
	and the second	Premium NE-1 is a	Ingredient name	%	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide	1 - 5 1 - 5	1305-78-8 1309-48-4
		strength properties.	Magnesium oxide Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7
emium NE-1	Portland Cement		Pr.		
		Commonly called gel, it is	Ingredient name	%	CAS number
		a clay material used as a cement extender and to	bentonite	90 - 100	1302-78-9
		control excessive free	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
		water.			
ntonite	Extender				
		A powdered, flaked or			
		pelletized material used	Ingredient name	%	CAS number
		to decrease thickening	Calcium chloride	90 - 100	10043-52-4
		time and increase the rate			
		of strength development			
lcium Chloride	Accelerator				
		Graded (3/8 to 3/4 inch)	Ingredient name	%	CAS number
		cellophane flakes used as	No hazardous ingredient		
		a lost circulation material.	The transmitted in the state of		
llo Flake	Lost Circulation				
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in	Para de la companya del companya de la companya de la companya del companya de la	la.	CACAMATA
		cementing operations. It	Ingredient name	%	CAS number
		is very effective	Tributyl phosphate	90 - 100	126-73-8
		minimizing air entrapment and	· C		
		preventing foaming	1028		
		tendencies of latex	2 2 28		
		systems.	[7] S 50		
-13L	Foam Preventer		F 00 10-		
			Ingredient name	%	CAS number
	F-50-100	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	Calcium magnesium oxide	90 - 100	37247-91-9
		temperatures.	(CO 2 0 CO		102.4
-1		42 000			
		Multi-purpose polymer additive used to control			
		free fluid, fluid loss,	Ingredient name	%	CAS number
		rheology, and gas	No hazardous ingredient		
PA-170	Gas Migration	migration.			
		A synthetic pozzolan,			
		(primarily Silicon Dioxide). When blended with			
		cement, Pozzolan can be			
		used to create	Ingredient name	%	CAS number
		lightweight cement	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
		slurries used as either a	Calcium oxide	1 - 5	1305-78-8
		filler slurry or a sulfate			
		resistant completion			
z (Fly Ash)	Base	cement.			
trily Carry	Desc				
		A low temperature			
			Ingredient name	%	CAS number
		retarder used in a wide			
		range of slurry	Organic acid salt	40 - 50	Trade secret.
		range of slurry formulations to extend			Trade secret.
	Retarder	range of slurry			Trade secret.
3	Retarder	range of slurry formulations to extend			Trade secret.
3	Retarder	range of slurry formulations to extend			Trade secret.
3	Retarder	range of slurry formulations to extend	Organic acid salt Ingredient name 2-Butoxyethanol	% 20 - 30	CAS number 111-76-2
3	Retarder	range of slurry formulations to extend the slurry thickening time.	Organic acid salt Ingredient name 2-Butoxyethanol Proprietary surfactant	% 20 - 30 10 - 20	CAS number 111-76-2 Trade secret.
3	Retarder	range of slurry formulations to extend	Organic acid salt Ingredient name 2-Butoxyethanol	% 20 - 30	CAS number 111-76-2

× Ground Elevation WELLBORE DIAGRAM × × LP @ 6789' TVD / 8872' × M 8.5" Lateral 8.5" Curve HOLE 12.25" 8.75" 17.5" 30" 26" 9-5/8" 40# N-80 BTC 30" 157.5# LS 13-3/8" 68# CDC HTC P-110 HP J-55 BTC CASING 94# J-55 5-1/2" 20 160.539 1254.8 Gordon Stray / Gordon Injun / Gantz (Storage) Intermediate 1 Intermediate 2 Tully Limestone Kittaning Coa Fresh Water Fresh Water GEOLOGY (Production Protection Conductor Rhinestreet Thirty Foot West River Middlesex Cashaqua Speechley Big Lime Little Lime Onondaga TMD / TVD Bayard Marcellus 5th Sand Hamilton Benson Burkett 8.5" Hole - Cemented Long String 5-1/2" 23# P-110 HP CDC HTQ 2320 / 2346 1818/2073 2590 2274 6753 6625 6535 6425 6391 6290 6125 3287 2660 1741 TOP 6500 4572 900 6803 1694 0 0 0 0 0 MD: 5250' Inc: 214, 600, 861 2336 / 2446 1904 / 2125 1215 S-12H BHL TVD: 4780' BASE 1215 S-12H SHL 1215 S-12H LP 6803 6753 6625 6535 6500 6425 47 deg. 4588 3301 2675 2612 2286 2250 1818 1714 6789 6391 6290 1200 905 120 Polymer AIR / KCL AIR / KCL Polymer 11.5ppg 12.5ppg SOBM 12.5ppg SOBM 11.5ppg-9.0ppg SOBM Salt Salt AIR AIR 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc Storage String Cement N/A, Casing to be drilled in w/ Dual Rotary Rig EC1 + 0.75 gal/sk FP13l Storage Field Isolation Requirements for Gas Tail: 14.8 ppg PNE-1 + + 0.3% bwoc MPA170 _ead: 15.4 ppg PNE-1 + See above (LEFT) for 0.35% bwoc R3 + 0.75 15.6 ppg PNE-1 + 3% bwoc ASCA1 + 0.5% bwoc R3 + 1% bwoc gal/sk FP13L + 50% Lead: 14.5 ppg POZ:PNE-1+0.3% zero% Excess. CTS Blend to Meet DTI 40% Excess Yield=1.20 / CTS 2.5% bwoc CaCl Lead Yield=1.19 bwoc MPA170 Tail Yield=1.94 20% Excess bwoc CaCl CEMENT × every 3 joints from the 1st 5.5" long joint to the Run 1 spiral centralizer every 5 joints from the Run 1 spiral centralizer joints then every third joint to 100' form Bow Spring on first 2 Bow Spring on every will also be running Centralized every 3 top of the curve to CENTRALIZERS top of the curve. ACP for isolating joints to surface storage zone surface NA +/-20453' ft Lateral 14205357.57N 1768491.32E 14206184.31N 1771894.34E 14186907.9N 1778705.9E Circulate a minimum of one Circulate a minimum of one condition at TD. Circulate a returns and pump pressures least 2x bottoms up, or until depth, circulate a minimum Ensure the hole is clean at allowable pump rate for at indicate the hole is clean. Once casing is at setting of one hole volume with Once casing is at setting volume prior to pumping Once casing is at setting Once an bottom/TD with casing, circulate at max condition mud at TD. minimum of one hole Fresh Water prior to hale valume prior to depth, Circulate and depth, Circulate and hale valume prior to pumping cement. pumping cement. pumping cement. CONDITIONING 4 AUG 1 8 2022 Intermediate casing = 0.395" Intermediate casing = 0.480" Surface casing = 0.438" wall Conductor casing = 0,5" wall schedules may be changed Production casing = 0.415 TD @ +/-6789' TVD due to hole conditions Note:Actual centralizer +/-29325' MD Burst=16240 psi Burst=5750 psi Burst=3450 psi Burst=2110 psi wall thickness wall thickness wall thickness COMMENTS thickness

1215 S-12H

Marcellus Shale Horizontal

Lewis County, WV

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

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

B346 - 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)
160A - 0.15% BWOB Dispersant / B547 – 0.35% BWOB GasBLOK* / D013 – 0.3% BWOB Retarder / D047 – 0.02 gal / sack Anti Foam /



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API Number 47 -	
Operator's Well N	No. Vaneck 1215 S-12H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy II Appalachia, LLC	P Code 494501907
Watershed (HUC 10) Middle West Fork Creek Quadrangle Ca	mden 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well	work? Yes V No
Will a pit be used? Yes No 🗸	
If so, please describe anticipated pit waste: NA	
Will a synthetic liner be used in the pit? Yes No V If so,	what ml.?
Proposed Disposal Method For Treated Pit Wastes:	5120 8/4/2022
Land Application	8/4/2022
Underground Injection (UIC Permit Number	
Reuse (at API Number_TBD-At next anticipated well Off Site Disposal (Supply form WW-9 for disposal location Other (Explain	on)
Will closed loop system be used? If so, describe: Yes, cultings and fluids will be collected in a closed loo	p system, re-used or hauled to an approved disposal site or landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, or	
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Water, Soap, KCl, Barite, Base Oil, Wetting Agen	ts
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Approved	Landfill
-If left in pit and plan to solidify what medium will be used? (cement, lime,	
-Landfill or offsite name/permit number? See Attached	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill West Virginia solid waste facility. The notice shall be provided within 24 hours of rejwhere it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GEN on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of provisions of the permit are enforceable by law. Violations of any term or conditional law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am far application form and all attachments thereto and that, based on my inquiry of obtaining the information, I believe that the information is true, accurate, and copenalties for submitting false information, including the possibility of fine or imprison	Environmental Protection. I understand that the on of the general permit and/or other applicable amiliar with the information submitted on this those individuals immediately responsible for mplete. I am aware that there are significant
Company Official Signature Diane White	12/20 1200
Company Official (Typed Name) Diane White	3 9 2022
Company Official Title Agent	AUG 1 0
	STATE OF THE PROPERTY.
Subscribed and sworn before me this 21st day of July	, 20 22
Carsidy Recoder	Notary Public
My commission expires 7 31 2022	OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC CASON/OP/A/2022
G.	5301 13th Ave Vienna, WV 2610 My Commission Expires July 31, 20

Cuttings Disposal/Site Water

Cuttings -Haul off Company:

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

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

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

Disposal Locations:

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

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

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

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

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

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

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

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

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

Brooke County Landfill Permit # SWF-103-97 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 904-748-0014 Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martinsville, WV 26035 304-455-3800

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

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

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

Water Haul off Companies:

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

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

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

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

Mustang Oilfield Services LLC PO Box 739

St. Clairsville, OH 43950

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

Disposal Locations:

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

Solidification/Incineration
Soil Remediation, Inc. Permit # 02-20753
6065 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 Carlisle, PA 17015

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

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

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

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

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 43767 614-648-8898 740-796-6495 Adams #2 (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 #13) Permit #34-157-2-5511-00-00 5367 E. State Street Newcomerstown, OH 43832 740-763-3966

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

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

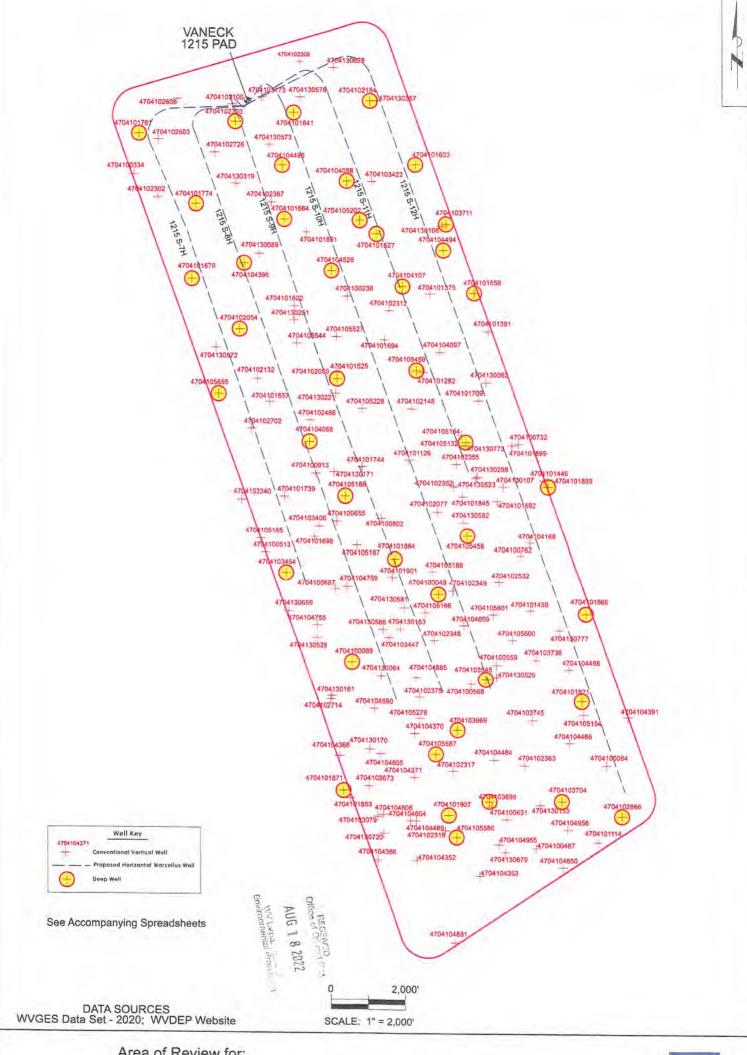
Dudley #1 UIC (SWIW #1) Permit # 34-121-2-2459-00-00 Select Energy Services, LLC 7994 S. Pleasants Hwy St. Marys, WV 26170 304-665-2652 OH UIC #1 Bu keye UIC Barnesville 1 & 2 CNX Gas Corr. Jany, LLC 1000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-323-6568

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

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

Operator's Well No. Vaneck 1215 S-12H

Proposed Revegetation Treats	ment: Acres Disturbed 22.5	Prevegetation pH	i
Lime	3 Tons/acre or to correct to	pH 6.5	
Fertilizer type 10-	-20-20	_	
Fertilizer amount_	500	_lbs/acre	
Mulch_ Hay	2 _{_To}	ens/acre	
	<u>\$</u>	Seed Mixtures	
Te	mporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Attach: Maps(s) of road, location, pit provided). If water from the pacreage, of the land application	and proposed area for land ap pit will be land applied, include on area.	g and completion process pplication (unless engineered plans include dimensions (L x W x D) of the pit, and	ding this info have been I dimensions (L x W), an
Attach: Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve	and proposed area for land appit will be land applied, include on area. ved 7.5' topographic sheet.	oplication (unless engineered plans include dimensions (L x W x D) of the pit, and	ding this info have been I dimensions (L x W), an
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involve Plan Approved by:	and proposed area for land appit will be land applied, include on area. ved 7.5' topographic sheet.	oplication (unless engineered plans include dimensions (L x W x D) of the pit, and	I dimensions (L x W), an
Attach: Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Comments: Pre-seed/	and proposed area for land applit will be land applied, include on area. ved 7.5' topographic sheet. Mulch as soon as	pplication (unless engineered plans include dimensions (L x W x D) of the pit, and reasonably possible per	I dimensions (L x W), an
Attach: Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Comments: Pre-seed/	and proposed area for land applit will be land applied, include on area. ved 7.5' topographic sheet. Mulch as soon as	oplication (unless engineered plans include dimensions (L x W x D) of the pit, and	I dimensions (L x W), an
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Attach: Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Comments: Pre-seed/	and proposed area for land applit will be land applied, include on area. ved 7.5' topographic sheet. mulch as soon as seeded per WV DE	pplication (unless engineered plans include dimensions (L x W x D) of the pit, and reasonably possible per	regulation.



Area of Review for:

VANECK 1215 SOUTH UNIT

Proposed 1215 S-7H Proposed 1215 S-10H Proposed 1215 S-8H Proposed 1215 S-11H

Proposed 1215 S-9H Proposed 1215 S-12H

Freeman's Creek District, Lewis County, W.Va.

HG ENERGY, II APPALACHIA, LLC 09/



EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

VANECK 1215 SOUTH UNIT AND PROPOSED WELLS S-7H, S-8H, S-9H, S-10H, S-11H & S-12H

CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4704100049	Lewis	Alfred Woofter	Dominion Energy Transmission, Inc.	Helderberg	Gas	7325	PLUGGED	39/080348	-80.530425
- 2	4704100064	Lewis	R H Hall	Diversified Resources, Inc.	Fifth	Gas	2316	ACTIVE	39.067649	-80.514534
3	4704100089	Lewis	J L J Bailey	Diversified Production LLC	Helderberg	Gas	7022	ACTIVE	39.075324	-80.538664
4	4704100238	Lewis	G W Jordon	Dominion Energy Transmission, Inc.	Fifth	Gas	2471	PLUGGED	39.102380	-80.538855
5	4704100334	Lewis	Alice Burnside	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Storage	2478	ACTIVE	39.111415	-80.559086
6	4704100487	Lewis	A E Wright	Deran Resources, Inc.	Up Devonian	Gas w/ Oil Show	2304	ACTIVE	39.061528	-80.521206
7	4704100513	Lewis	J A White	Clem Energy, LLC	Price Fm & equivs	Gas	1410	ACTIVE	39.083465	-80.546827
8	4704100559	Lewis	Florence Wagner et al	Deran Resources, Inc.	Conemaugh Group	Gas	685	ACTIVE	39.075044	-80.524939
9	4704100568	Lewis	Florence Waggoner	Deran Resources, Inc.	Price Fm & equivs	Gas	1623	ACTIVE	39.073670	-80.527386
10	4704100631	Lewis	C M Hall	UNKNOWN N 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Price Fm & equivs	Dry w/ Gas Show	1666	PLUGGED	39.063703	-80.523997
11	4704100655	Lewis	John White	Alliance Petroleum Co. LLC	Price Fm & equivs	Gas w/ Oil Show	1698	ABANDONED	39.085791	-80.540008
12	4704100687	Lewis	Sarah A Kemper	Consol Gas Co.	Big Injun (Grnbr)	Gas w/ Oil Show	1658	PLUGGED	39.080815	-80.540191
13	4704100732	Lewis	John W Kemper	UNKNOWN W A	Hampshire Grp	Gas	2370	NEVER DRILLED	39.091447	-80.522704
14	4704100762	Lewis	S A Hall	Clem Energy, LLC	Squaw	Gas w/ Oil Show	1507	ACTIVE	39.083184	-80.522572
15	4704100802	Lewis	Edward Carrell	Alliance Petroleum Co. LLC	Price Fm & equivs	Gas	1801	ACTIVE	39.085990	-80.535815
16	4704100913	Lewis	Israel Simmons	Dominion Energy Transmission, Inc.	Big Injun (Grnbr)	Gas	1577	ACTIVE	39.089277	-80.542014
17	4704101114	Lewis	Gerald R Wright	Diversified Production LLC	Price Fm & equivs	Gas	1684	ACTIVE	39.061943	80.515336
18	4704101126	Lewis	Bruce/J Carrell/M Bailey	Alliance Petroleum Co. LLC	Price Fm & equivs	Gas	1473	ACTIVE	39.090285	-80,533119
19	4704101282	Lewis	F White	Dominion Energy Transmission, Inc.	Undf PRICE blw INJN	Gas w/ Oil Show	1716	ACTIVE	39,096724	-80.531.754
- 20	4704101375	Lewis	F White	Dominion Energy Transmission, Inc.	Undf PRICE blw INJN	Gas	1649	ACTIVE	39.102532	-80.531000
21	4704101381	Lewis	F White	Eastern Gas Transmission & Storage, Inc.	Price Fm & equivs	Gas	1533	ACTIVE	39.099706	-80,525513
22	4704101439	Lewis	Odie Bailey et al	UNKNOWN	not available	not available		PLUGGED	39,079115	-80,521697
23	4704101446	Lewis	S & C Hall	Allegheny Land and Mineral Co.	Undf PRICE blw INJN	Dry w/ Oil Show	1661	PLUGGED	39.088695	-80.520315
24	4704101525	Lewis	Israel Simmons	Dominion Energy Transmission, Inc.	Big Injun (Grnbr)	Gas w/ Oil Show	1942	ACTIVE	39.096753	80.539858
25	4704101527	Lewis	Edward E Garrett	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4718	ACTIVE	39.106969	-80.536030
26	4704101602	Lewis	F White	Dominion Energy Transmission, Inc.	Benson	Gas	4414	ACTIVE	39.101644	-80.543897
27	4704101603	Lewis	J Kent Burnside	Eastern Gas Transmission & Storage, Inc.	Greenland Gap Fm	Gas	4670	ACTIVE	39,112060	-80.532288
28	4704101641	Lewis	F White	Dominion Energy Transmission, Inc.	Benson	Gas	4703	ACTIVE	39.115940	-80.543809
29	4704101657	Lewis	Helen H Garrell	Eastern Gas Transmission & Storage, Inc.	Greenland Gap Fm	Gas	4450	ACTIVE	39.094622	-80.546304
30	4704101658	Lewis	James S Hall	Eastern Gas Transmission & Storage, Inc.	Greenland Gap Fm	Gas	4532	ACTIVE	39.102559	-80.526798
31	4704101664	Lewis	T T Taylor	Eastern Gas Transmission & Storage, Inc.	Brallier	Gas	4571	ACTIVE	39,108066	80.544783
32	4704101676	Lewis	Bruce Garrett	Eastern Gas Transmission & Storage, Inc.	Greenland Gap Fm	Gas	4600	ACTIVE	39/103695	-80.553642
• 33	4704101692	Lewis	S A & C M Hall	Diversified Production LLC	Benson	Gas	4475	ACTIVE	39,087211	-80.524793
34	4704101694	Lewis	Clark White	Alliance Petroleum Co. LLC	Benson	Gas	4455	ACTIVE	39.099133	-80.535363
35	4704101698	Lewis	John A White	UNKNOWN	Benson	Dry	4450	PLUGGED	39.084633	-80.542210
36	4704101709	Lewis	James H Hall	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4345	ACTIVE	39.094637	-80.526492

37	4704101739	Lewis	Gerald Hull	Eastern Gas Transmission & Storage, Inc.	Benson	Gas	4176	ACTIVE	39.087605	-80.544982
38	4704101744	Lewis	Israel Simmons	Dominion Energy Transmission, Inc.	Misc Sands-BNSN/BRLR	Gas	4375	ACTIVE	39.089762	-80.53757.
39	4704101761	Lewis	William Burnside	Eastern Gas Transmission & Storage, Inc.	Benson	Gas	4760	ACTIVE	39.114437	-80.55855
40	4704101774	Lewis	E W &R M Waggoner	Eastern Gas Transmission & Storage, Inc.	Benson	Gas	4765	ACTIVE	39.109214	-80.55317
41	4704101821	Lewis	R H Hall	Greylock Conventional, LLC	Benson	Gas	4541	ACTIVE	39.072366	-80.51686
42	4704101845	Lewis	J A Kemper	Alliance Petroleum Co. LLC	Big Injun (Grnbr)	Gas	2062	ACTIVE	39.087540	-80.52806
43	4704101851	Lewis	T T Taylor	Dominion Energy Transmission, Inc.	☐ Up Devonian	Gas	2548	ACTIVE	39.107144	-80,54270
44	4704101853	Lewis	M L Butcher	UNKNOWN 5 2	not available	not available	-	NEVER DRILLED	39.065298	-80.53888
45	4704101864	Lewis	Albert Woofter	Mountain V, LLC	Helderberg	Gas w/ Oil Show	7045	ACTIVE	39.082958	-80.5345
46	4704101866	Lewis	F M McKinley	Clem Energy, LLC 🔯 🗢	Helderberg	Gas	7325	ACTIVE	39.078844	80.5164
47	4704101871	Lewis	M L Butcher	Mountain V, LLC	Helderberg	Gas	7104	ACTIVE	39.065841	-80,5395
48	4704101889	Lewis	S A & C M Hall	Mountain V, LLC	Helderberg	Gas w/ Oil Show	7140	ACTIVE	39.088230	-80.51994
49	4704101899	Lewis	Charles Kemper	Clem Energy, LLC	Benson	Gas	4443	ACTIVE	39.091320	-80.5233
50	4704101901	Lewis	Alfred Woofter	Alliance Petroleum Co. LLC	Big Injun (Grnbr)	Gas	1650	ACTIVE	39.081599	-80.5348
51	4704101907	Lewis	Harvey Hall	Eastern Gas Transmission & Storage, Inc.	Helderberg	Gas w/ Oil Show	7206	PLUGGED	39.063990	-80.5295
52	4704102050	Lewis	Israel Simmons	Alliance Petroleum Co. LLC	Benson	Gas	4775	ACTIVE	39.096272	-80.5398
53	4704102054	Lewis	Israel Simmons	Diversified Production LLC	Benson	Gas	4670	ABANDONED	39.099940	-80.5491
54	4704102077	Lewis	A T Simmons	Ross & Wharton Gas Co., Inc.	Benson	Gas	4324	ACTIVE	39.086449	-80.5304
55	4704102132	Lewis	A C Simmons	Mike Ross, Inc.	Bayard	Gas	2575	ACTIVE	39,096272	-80.5474
56	4704102148	Lewis	J B Snyder	Alliance Petroleum Co. LLC	Benson	Gas	4420	ACTIVE	39,094083	-80,5328
57	4704102184	Lewis	M C Burnside	Dominion Energy Transmission, Inc.	Benson	Gas	4848	ACTIVE	39,116787	-80.5365
58	4704102302	Lewis	M Halterman	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Gas	2420	ACTIVE	39,109733	-80,5568
59	4704102303	Lewis	Orpha D Waggoner	Dominion Energy Transmission, Inc.	Benson	Oil and Gas	4777	ACTIVE	39.115272	-80.5493
60	4704102308	Lewis	F Riley	Eastern Gas Transmission & Storage, Inc.	Gordon	Gas	2393	ACTIVE	39,119733	-80.5431
61	4704102312	Lewis	C White	Alliance Petroleum Co. LLC	not available	not available	-	ACTIVE	39.101284	-80.5348
62	4704102317	Lewis	C Flesher	Alliance Petroleum Co. LLC	Hampshire Grp	Gas	2243	ACTIVE	39,067267	-80.5291
63	4704102318	Lewis	C Flesher	Diversified Production LLC	Hampshire Grp	Gas	2261	ACTIVE	39.062863	-80.5298
64	4704102340	Lewis	I Simmons	Eastern Gas Transmission & Storage, Inc.	not available	Gas		ACTIVE	39.087382	-80.5490
65	4704102348	Lewis	A Woofter	Alliance Petroleum Co. LLC	not available	not available	-	ACTIVE	39.076895	-80.5308
66	4704102349	Lewis	A Woofter	Alliance Petroleum Co. LLC	not available	not available	-	ACTIVE	39.080604	-80.5290
67	4704102352	Lewis	É Hall	Diversified Production LLC	not available	not available		ABANDONED	39.088272	-80.52890
68	4704102355	Lewis	C Robinson	Alliance Petroleum Co. LLC	not available	not available	100	ACTIVE	39.089927	-80.5286
69	4704102363	Lewis	M Losh	Alliance Petroleum Co. LLC	not available	not available		ACTIVE	39.067651	-80,5223
70	4704102367	Lewis	T T Taylor	Dominion Energy Transmission, Inc.	Gordon	Gas	2322	ACTIVE	39.109335	-80,5460
71	4704102375	Lewis	J Bailey	Alliance Petroleum Co. LLC	Hampshire Grp	Gas	2434	ACTIVE	39.072712	-80,5322
72	4704102486	Lewis	Helen Garrett	Dominion Energy Transmission, Inc.	Balltown	Gas	3535	ACTIVE	39.093256	-80,5424
73	4704102532	Lewis	M Fultinear	Alliance Petroleum Co. LLC	Benson	Gas	4496	ACTIVE	39.081256	-80,5246
74	4704102603	Lewis	W Burnside	Eastern Gas Transmission & Storage, Inc.	not available	Storage		ACTIVE	39.114018	-80,5567
75	4704102608	Lewis	G W Waggoner	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Storage	2296	ACTIVE	39.11/018	-80.5548
76	4704102702	Lewis	Israel Simmons	UNKNOWN	Gantz	Gas	2265	ABANDONED	39.092671	-80,5480

77	4704102714	Lewis	W J Bailey	Diversified Production LLC	Gordon	Gas	2305	ACTIVE	39.072570	-80.540695
78	4704102726	Lewis	E W Wagonner	Consolidated Gas Supply Corp.	Hampshire Grp	Gas	2435	PLUGGED	39.113030	-80.551358
79	4704102866	Lewis	Uriah Rexroad	Petroleum Service Partners, Inc.	Greenland Gap Fm	Oil and Gas	4648	ACTIVE	39.063878	-80,513079
30	4704103079	Lewis	M L Butcher	Red Gas Co.	not available	Gas	7	ACTIVE	39.063972	-80.536298
31	4704103100	Lewis	Marjorie Hyatt	Dominion Energy Transmission, Inc.	Big Injun (Grnbr)	Oil w/ Gas Show	2075	ACTIVE	39.116597	-80,549618
32	4704103173	Lewis	Orpha Waggoner	Consolidated Gas Supply Corp.	Big Injun (Grnbr)	Dry	2089	PLUGGED	39.117125	-80.546833
33	4704103406	Lewis	R Hall/D Fisher	Mountain V, LLC	Benson	Gas	4431	ACTIVE	39.085428	-80.541750
84	4704103422	Lewis	J Kent Burside	Dominion Energy Transmission, Inc.	Hampshire Grp	Oil and Gas	2930	ACTIVE	39.110813	-80.536431
85	4704103447	Lewis	Nellie B Rohr	Mineral Resource Management, LLC	Benson	Gas	4326	ACTIVE	39,077104	-80,535130
36	4704103454	Lewis	Fisher et al	Mountain V, LLC	Benson	Gas	4602	ACTIVE	39.081958	-80.544873
87	4704103545	Lewis	R & V Cunningham	American Energy Holdings, LLC	Brallier	Gas	5975	ABANDONED	39,073986	-80.525964
88	4704103673	Lewis	James M Sheared	Red Gas Company	Salt Sands (undiff)	Gas	605	ACTIVE	39.066161	-80,537114
89	4704103698	Lewis	Frances/A Marple	Alliance Petroleum Co. LLC	Brallier	Gas	6104	ACTIVE	39.064619	-80.525432
90	4704103704	Lewis	Frances J/Allen Marple	Alliance Petroleum Co. LLC	Brallier	Gas	6225	ACTIVE	39.065008	-80.518789
91	4704103711	Lewis	John L Burnside	Eastern Gas Transmission & Storage, Inc.	Benson	Oil and Gas	4621	ACTIVE	39.107689	-80.529411
92	4704103738	Lewis	Johathon R Dodson	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3444	ACTIVE	39.075411	-80.521.187
93	4704103745	Lewis	Jonathon R Dodson	Alliance Petroleum Co. LLC.	Greenland Gap Fm	Gas	3626	ACTIVE	39.070988	-80.521548
94	4704103969	Lewis	Ronald L Cunningham et al	Diversified Resources, Inc.	Alexander	Gas	4912	ABANDONED	39,070294	-80.528681
95	4704104068	Lewis	Helen H Garrett	Enervest Operating, LLC	Greenland Gap Fm	Gas	4605	ACTIVE	39.091674	-80.542559
96	4704104088	Lewis	Margaret Waggoner Hrs	Enervest Operating, LLC	Greenland Gap Fm	Gas	4855	ACTIVE	39.110853	-80,538807
97	4704104097	Lewis	Carroll Gum	Enervest Operating, LLC	Greenland Gap Fm	Gas	4426	ACTIVE	39.098206	-80.530123
98	4704104107	Lewis	Edward E Garrett	Enervest Operating, LLC	Greenland Gap Fm	Gas	4625	ACTIVE	39.103087	-80,533609
99	4704104168	Lewis	Robert D Hall et al	Murvin & Meier Oil Co. ≥	Greenland Gap Fm	Gas	4431	ACTIVE	39.084109	-80.521710
100	4704104352	Lewis	Elmer C Cox	Diversified Production LLC	Greenland Gap Fm	Gas	2422	ACTIVE	39.060657	-80.532553
101	4704104353	Lewis	Patrick Boyle	Diversified Production LLC	Greenland Gap Fm	Gas	2636	ACTIVE	39.059497	-80.526600
102	4704104366	Lewis	Jay T Shearer	Red Gas Co.	Greenland Gap Fm	Gas	2510	ACTIVE	-80,536308	-1.0000000
103	4704104368	Lewis	Jay T Shearer	Red Gas Co.	Price Fm & equivs	Gas	2013	ACTIVE	-80.539887	-1.000000
104	4704104370	Lewis	Jay T Shearer	Red Gas Co.	Price Fm & equivs	Gas	2157	ACTIVE	39.070084	-80.532743
105	4704104371	Lewis	Jay T Shearer	Red Gas Co.	Price Fm & equivs	Gas	2204	ACTIVE	39.066806	-80.532805
106	4704104391	Lewis	Johahan R Dodson	Diversified Production LLC	Greenland Gap Fm	Gas	3475	ACTIVE	39.071205	-80.512484
107	4704104396	Lewis	Kenneth H Heckert	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4604	ACTIVE	39.104854	-80.548657
108	4704104484	Lewis	Simeon A Hall/D Hall hrs	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3655	ACTIVE	39.068072	-80.525221
109	4704104486	Lewis	Jonathan R Dodson	Diversified Production LLC	Greenland Gap Fm	Gas	3568	ACTIVE	39.069314	-80.518032
110	4704104489	Lewis	Elmer Cox Est	Diversified Production LLC	Greenland Gap Fm	Gas	3595	ACTIVE	39,063584	-80.532636
111	4704104494	Lewis	J K Burnside/W Brunside	Eastern Gas Transmission & Storage, Inc.	Greenland Gap Fm	Gas	4906	ACTIVE	39.105763	-80.529710
112	4704104496	Lewis	Joseph C Waggoner Sr	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4529	ACTIVE	39,112039	-80.544948
113	4704104526	Lewis	Melvin L Davis	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4718	ACTIVE	39.104278	-80.540345
114	4704104590	Lewis	Jay T Shearer	Red Gas Co.	Greenland Gap Fm	Gas	2651	ACTIVE	39,071881	-80.536584
115	4704104604	Lewis	Jay T Shearer	Red Gas Co.	Hampshire Grp	Gas	2015	ACTIVE	39,063589	-80,533182
116	4704104605	Lewis	Jay T Shearer	Red Gas Co.	Greenland Gap Fm	Gas	2560	ACTIVE	39.068574	-80.535996

117	4704104606	Lewis	Jay T Shearer	Red Gas Co.	Greenland Gap Fm	Gas	2440	ACTIVE	39.064041	-80,535779
118	4704104650	Lewis	Gerald R Wright	Diversified Production LLC	Greenland Gap Fm	Gas	3497	ACTIVE	39.060098	-80.518680
119	4704104659	Lewis	Robert B Burnside	Alliance Petroleum Co. LLC	Misc Sands-RILY/BNSN	Gas	3576	ACTIVE	39.078007	-80,528041
120	4704104755	Lewis	Helen Garrett et al	Dominion Exploration & Production	Greenland Gap Fm	Gas	2693	ACTIVE	39.078060	-80.541952
121	4704104759	Lewis	Robert B Burnside	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas w/ Oil Show	2665	ACTIVE	39.080960	-80.539075
122	4704104881	Lewis	Madeline Moody	Diversified Production LLC	Hampshire Grp	Gas	2803	ACTIVE	39.054566	-80.529016
123	4704104885	Lewis	Charles R Kemper	Alliance Petroleum Co. LLC	Misc Sands-RILY/BNSN	Gas	3440	ACTIVE	39,074161	-80.532587
124	4704104955	Lewis	Kenneth/5 Fox	Horizon Energy Corp.	Greenland Gap Fm	Gas	3807	ACTIVE	39.061818	-80.524741
125	4704104956	Lewis	Violet I Wright	Horizon Energy Corp.	Misc Sands-RILY/BNSN	Gas	3465	ACTIVE	39.062891	-80,518252
126	4704105132	Lewis	Hal A Brown	Ross & Wharton Gas Co., Inc.	Greenland Gap Fm	Gas	5257	ACTIVE	39.091592	-80.527729
127	4704105154	Lewis	Dodson Farm LLC	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3370	ACTIVE	39.071389	-80.516706
128	4704105164	Lewis	Richard Billanti	Dominion Energy Transmission, Inc.	Benson	Gas	4430	ACTIVE	39.092141	-80,528155
129	4704105166	Lewis	Robert B Burnside	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	2450	ACTIVE	39.078997	-80,531699
130	4704105185	Lewis	Gerald Hull	Eastern Gas Transmission & Storage, Inc.	Greenland Gap Fm	Gas	3440	ACTIVE	39,084491	-80.547275
131-	4704105186	Lewis	Gerald Hull	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4520	ACTIVE	39.087632	-80.539191
132	4704105187	Lewis	Edward E Garrett	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	2690	ACTIVE	39.083963	-80.538115
133	4704105188	Lewis	Edward E Garrett	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	2450	ACTIVE	39.082051	-80.530995
134	4704105228	Lewis	Paul J Heater Jr	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4490	ACTIVE	39.094107	-80,537552
135	4704105278	Lewis	Ronald Lee Cunningham Jr	Diversified Resources, Inc.	Greenland Gap Fm	Gas	3900	ACTIVE	39.071152	-80.532234
136	4704105458	Lewis	Michael R Morris	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	4538	ACTIVE	39.084647	-80,527630
137	4704105459	Lewis	Clifford B Messenger	Dominion Energy Transmission, Inc.	Benson	Gas	4561	ACTIVE	39.096861	480,532349
138	4704105527	Lewis	Melvin L Davis	Alliance Petroleum Co. LLC	Misc Sands-BNSN/BRLR	Gas	4430	ACTIVE	39,099365	-80.539908
139	4704105544	Lewis	Melvin L Davis	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	3375	ACTIVE	39.098875	-80,543700
140	4704105586	Lewis	Nancy E Smith/R C Smith Jr	Eastern Gas Transmission & Storage, Inc.	Harrell Sh	Gas	5894	ACTIVE	39.062354	-80,528819
141	4704105587	Lewis	Nancy E & Ronald C Jr Smith	Alliance Petroleum Co. LLC	Harrell Sh	Gas	6125	ACTIVE	39.068525	-80.530749
142	4704105600	Lewis	Michael Meixner	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3542	ACTIVE	39,076892	-80,523411
143	4704105601	Lewis	Michael Meixner	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3640	ACTIVE	39.078825	-80.525202
144	4704105655	Lewis	Helen H Garrett	Eastern Gas Transmission & Storage, Inc.	Brallier	Gas	4747	ACTIVE	39.095193	-80.551189
145	4704130063	Lewis	Harvey & Blondie Hall	Reserve Gas Co.	Fifth	Gas	2135	PLUGGED	39.095952	-80.525746
146	4704130064	Lewis	J L J Bailey	Reserve Gas Co.	Hampshire Grp	Gas	2378	PLUGGED	39.074289	-80.535908
147	4704130089	Lewis	Mrs Ova Lester	Reserve Gas Co.	Hampshire Grp	Gas w/ Oil Show	2389	PLUGGED	39,105563	-80.547186
148	4704130107	Lewis	S A Hall	Reserve Gas Co.	Hampshire Grp	Gas	2265	PLUGGED	39.088256	-80.524192
149	4704130108	Lewis	James Burnside	Reserve Gas Co.	Hampshire Grp	Gas	2440	PLUGGED	39.107544	-80,529783
150	4704130153	Lewis	Joseph Losh	Reserve Gas Co.	not available	not available	12-11	PLUGGED	39.064718	-80.520835
151	4704130161	Lewis	D B Bailey	Reserve Gas Co.	Hampshire Grp	Gas	2325	PLUGGED	39.072839	-80.540558
152	4704130163	Lewis	Nell Rohr	Reserve Gas Co.	Hampshire Grp	Gas	2183	PLUGGED	39.077770	-80.534049
153	4704130170	Lewis	M L Butcher	Reserve Gas Co.	Hampshire Grp	Gas	2304	PLUGGED	39.068923	-80.537022
154	4704130171	Lewis	Israel Simmons	Reserve Gas Co.	Hampshire Grp	Gas	2183	PLUGGED	39,089396	-80.540232
155	4704130221	Lewis	Israel Simmons	Hope Natural Gas Company	Hampshire Grp	Oil and Gas	2449	PLUGGED	39.095217	-80.540013
156	4704130251	Lewis	F White	Hope Natural Gas Company	Hampshire Grp	Oil and Gas	2362	PLUGGED	39.100628	-80.543925

SOURCE: WVGES DATASET (2020) and WVDEP WEBSITE AND FIELD SURVEYS			YELLOW DENOTES WELL WITH TVD > 4,500'			DENOTES SURVEYED WELL COORDINATES				
174	4704130777	Lewis	Jas McKinley Hrs	Consolidated Gas Supply Corp.	not available	not available	3 3 1	PLUGGED	39.077625	-80.518979
173	4704130773	Lewis	Clark White	Consolidated Gas Supply Corp.	Hampshire Grp	Gas	2346	UNKNOWN	39.091347	-80.527729
172	4704130720	Lewis	M L Butcher	Hope Natural Gas Company	Hampshire Grp	Oil and Gas	2206	PLUGGED	39.062687	-80.535716
171	4704130679	Lewis	Pleasant Alford	Hope Natural Gas Company	Hampshire Grp	Gas	2534	PLUGGED	39.061237	-80.524182
170	4704130659	Lewis	G L White	Hope Natural Gas Company	Hampshire Grp	Gas	2399	PLUGGED	39.079108	-80.544659
169	4704130628	Lewis	Fortunatus White	Hope Natural Gas Company	not available	not available	2702	UNKNOWN	39.119287	-80.539976
168	4704130592	Lewis	White Hall	Hope Natural Gas Company	Fifth	Gas	2250	PLUGGED	39.087966	-80.528286
167	4704130586	Lewis	Sarah A Kemper	Hope Natural Gas Company	Hampshire Grp	Gas	2241	PLUGGED	39.077727	-80.535725
166	4704130581	Lewis	Alfred Woofter	Hope Natural Gas Company	Hampshire Grp	Gas w/ Oil Show	2242	PLUGGED	39.079365	-80.533678
165	4704130578	Lewis	Fortunatus White	Hope Natural Gas Company	Hampshire Grp	Gas	2602	PLUGGED	39.117115	-80.543159
164	4704130573	Lewis	Fortunatus White	Hope Natural Gas Company	Hampshire Grp	Gas w/ Oil Show	2611	PLUGGED	39.113567	-80.546105
163	4704130572	Lewis	Israel Simmons	Hope Natural Gas Company	Hampshire Grp	Gas w/ Oil Show	2397	PLUGGED	39.098598	-80.551368
162	4704130529	Lewis	James R Bailey	Hope Natural Gas Company	Hampshire Grp	Gas w/ Oil Show	2250	PLUGGED	39.074144	-80.524931
161	4704130528	Lewis	Cora B Bailey	Hope Natural Gas Company	Hampshire Grp	Gas	2409	PLUGGED	39.077107	-80.542004
160	4704130523	Lewis	J T Lovett	Hope Natural Gas Company	Hampshire Grp	Oil and Gas	2244	PLUGGED	39.088876	-80.526763
159	4704130357	Lewis	Mary C Burnside	Hope Natural Gas Company	not available	not available	40.1	PLUGGED	39.116825	-80.535930
158	4704130319	Lewis	E W & R M Waggoner	Hope Natural Gas Company	Hampshire Grp	Gas	2443	PLUGGED	39.110702	-80.549391
157	4704130298	Lewis	Hannah Kemper	Hope Natural Gas Company	Hampshire Grp	Gas	2186	PLUGGED	39.088981	-80.526611

UPDATED 6/22/2022

AUG 1 8 2022

Viv Departmental Protection

HG Energy II Appalachia, LLC

Site Safety Plan

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

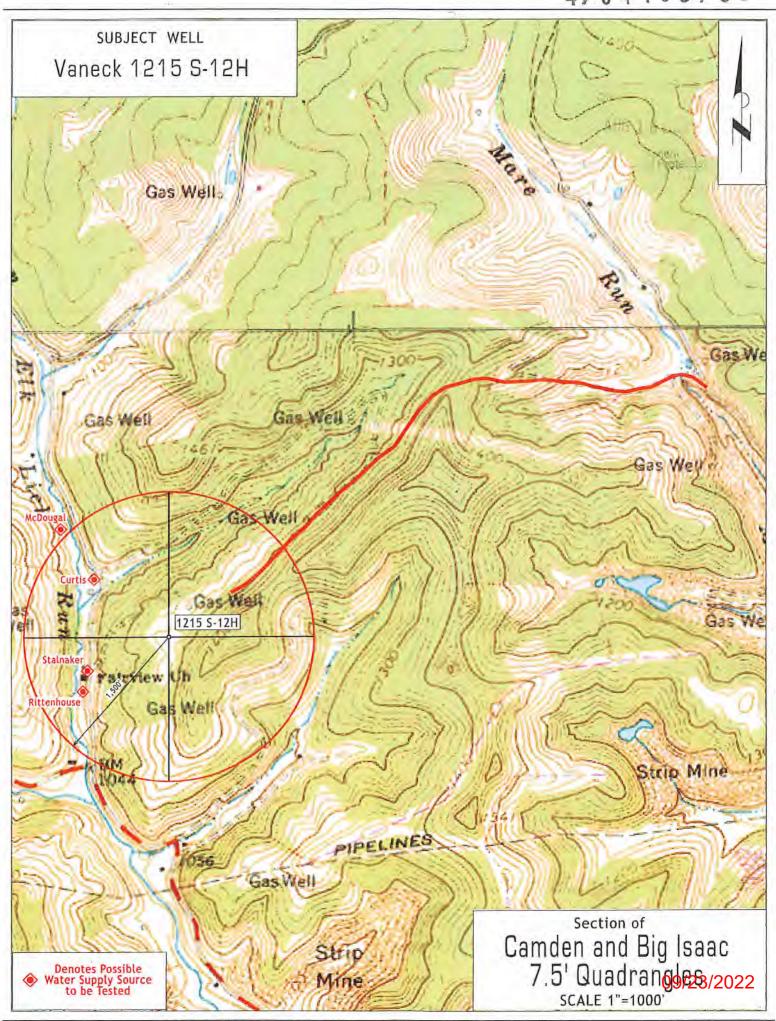
January 2022: Version 1

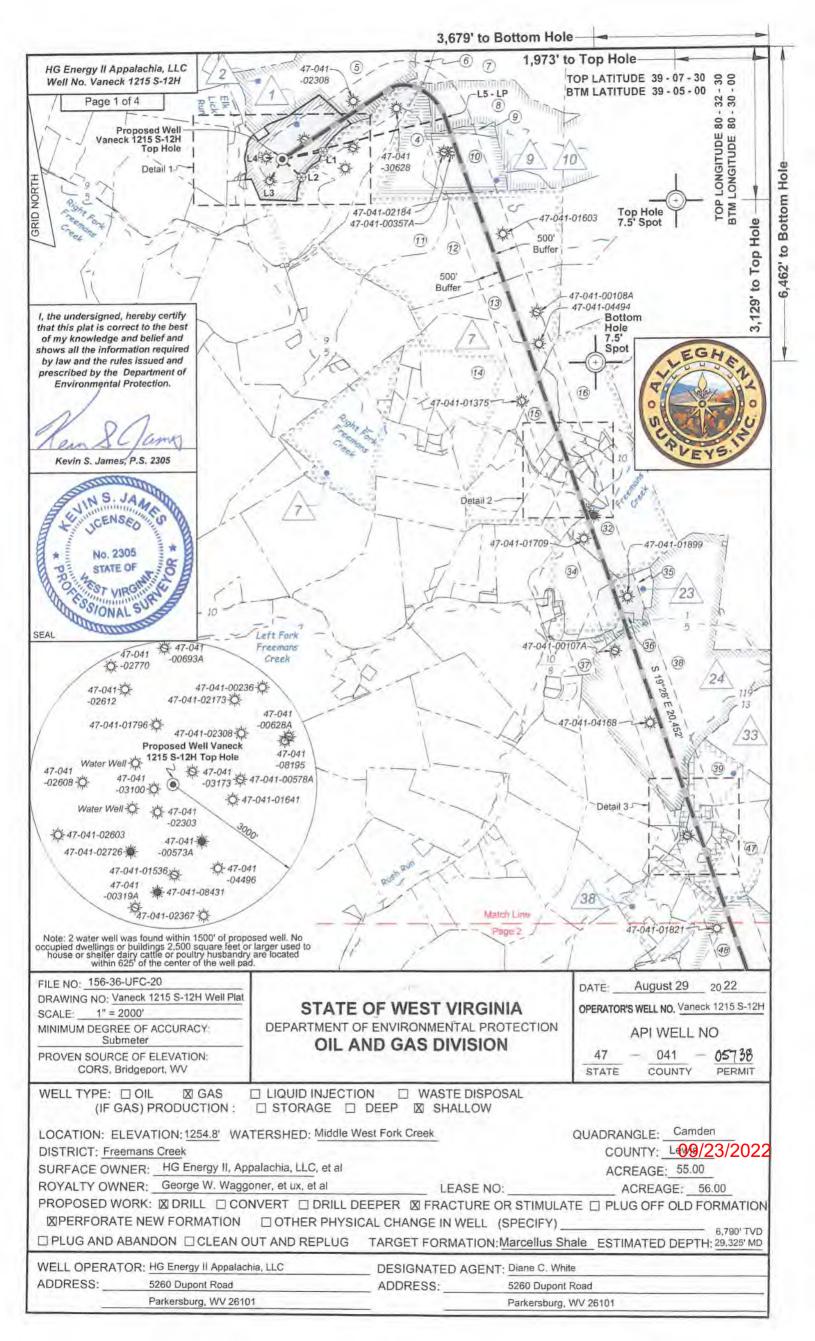
For Submission to
West Virginia Department of Environmental Protection,
Office of Oil and Gas

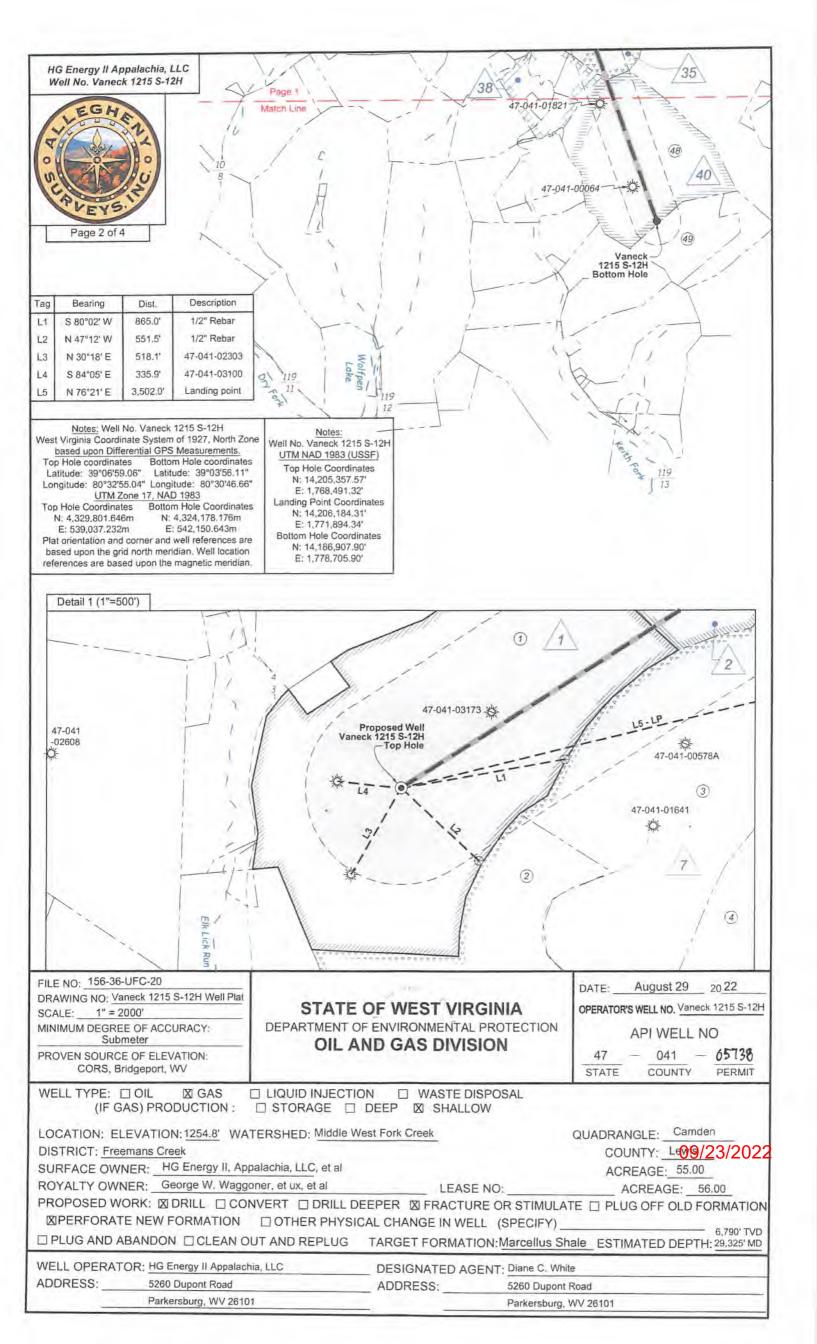
HG Energy II Appalachia, LLC

5260 Dupont Road

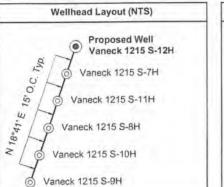
Parkersburg, WV 26101

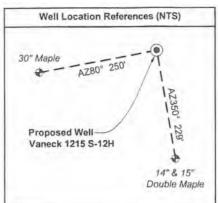






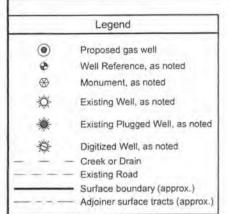
Page 3 of 4

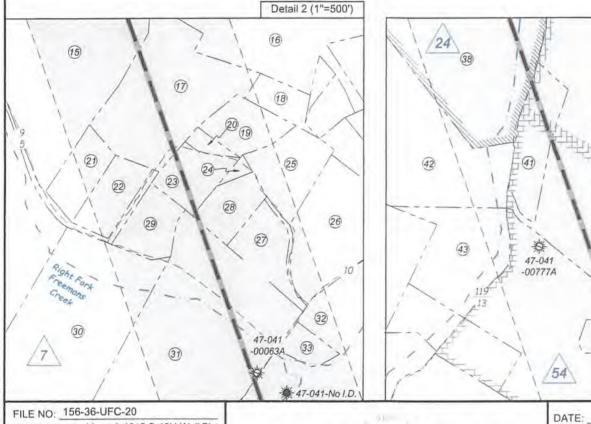


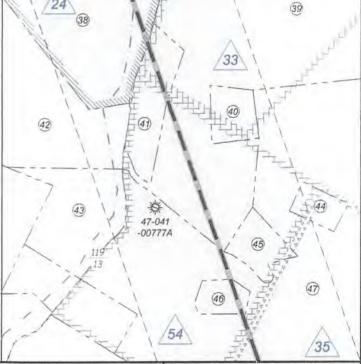




Detail 3 (1"=500')







DRAWING NO: Vaneck 1215 S-12H 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**

August 29 20 22 OPERATOR'S WELL NO. Vaneck 1215 S-12H API WELL NO 041 - 05738 47 COUNTY PERMIT STATE

WELL TYPE: ☐ OIL ☑ GAS ☐ LIQUID INJECTI (IF GAS) PRODUCTION: ☐ STORAGE ☐		
LOCATION: ELEVATION: 1254.8' WATERSHED: Middle V DISTRICT: Freemans Creek SURFACE OWNER: HG Energy II, Appalachia, LLC, et al	West Fork Creek	QUADRANGLE: Camden COUNTY: Le@9/23/2022 ACREAGE: 55.00
ROYALTY OWNER: George W. Waggoner, et ux, et al PROPOSED WORK: DRILL CONVERT DRILL CON	DEEPER STRACTURE OR STIMULA	ACREAGE: 56.00 ATE PLUG OFF OLD FORMATION
□ PLUG AND ABANDON □ CLEAN OUT AND REPLUG		6.790 1713
WELL OPERATOR: HG Energy II Appalachia, LLC	DESIGNATED AGENT: Diane C. Wh	
ADDRESS: 5260 Dupont Road	ADDRESS: 5260 Dupon	t Road
Parkersburg, WV 26101	Parkersburg	, WV 26101

Page 4 of 4



		Lewis Co Freeman Creek Dist.	Arrest Comme	
No.	TM / Par	Owner	Bk / Pg	Ac.
1	5C / 29	H.G. Energy II Appalachia, LLC	765 / 894	55.00
2	5C / 25	Raymond C. & Colona J. Waggoner	567 / 416	45.48
3	5C / 27.2	Jack E. & Cerilda M. Waggoner	547 / 691	57.97
4	5C / 22	Linda Lou Waggoner	W33 / 157	57.76
5	5C / 30	Woody Lumber Co. Inc.	590 / 438	140.50
6	5C / 31	Nancy Hayhurst, et al	F30 / 392	13,75
7	5C / 32	Robert S. Glotfelty	339 / 241	94.40
8	5C / 37	Phillip E, Burnside	766 / 831	83.75
9	5C / 38	Phillip E. Burnside	766 / 831	4.25
10	5C / 39	Phillip E. Burnside, et al	666 / 503	47.00
11	5C / 22.1	Janet L. & Joseph C. Waggoner, Sr.	705 / 183	57.53
12	5C / 45	Phillip E. Burnside, et al	666 / 503	121.42
13	5C / 46	John K. Burnside, et al	W1 / 393	60.00
14	5D / 35	Edward E. Garrett, et al	429 / 245	130.47
15	5D / 60.13	Richard B. & Erica S. Messenger	577 / 212	23.96
16	5D / 60	Dixie D. & William R. Fultineer, Sr.	627 / 496	82.66
17	5D / 60.3	Lori L. & Earl F. Hill, III	696 / 688	5.74
18	5D / 60.18	Edward Brightbill & Vicki A. Harper	750 / 120	1.23
19	5D / 60.12	Jeremy & Christina White	609 / 539	2.00
20	5D / 60.7	Jeremy & Christina White	609 / 539	0.43
21	5D / 60.1	Michael P. & Julie T. Lough	750 / 243	2.02
22	5D / 60.2	Sylvia McNeish	W22 / 297	2.02
23	5D / 60.4	Earl D. & Margaret A. Perrine	369 / 567	1.57
24	5D / 60.6	Earl D. & Margaret A. Perrine	400 / 192	0.23
25	5D / 60.15	Jeremy Bruffy	715 / 454	2.86
26	5D / 60.14	Jeremy Bruffy	715 / 454	5.86
27	5D / 60.11	Allen L. & Marsha H. Boggs	530 / 432	2.33
28	5D / 60.9	Lori L. & Earl F. Hill, III	727 / 700	1.81
29	5D / 60.5	Raymond D. Workman	717 / 475	1.69
30	5D / 37	Michael Lattea & Melissa Lattea	F32 / 55	13.86
31	5D / 38	Marsha Hall Boggs	W8 / 308	18.82
32	5D / 59	James H. Hall Trust	199 / 488	73.25
33	5D / 58	James H. Hall Trust	251 / 351	1.00
34	5D / 39	John M. & Diana L. Garrett	701 / 658	41.92
35	5D / 57	John T. Garrett, et al	728 / 296	28.70
36	5D / 57.1	John M. & Diana L. Garrett	722 / 674	1.71
37	5D / 54	Edward E. Garrett	W7 / 578	10.50
38	6D / 10	Alice J. Fisher, et al	583 / 439	252.44
39	6E/1	Bruce S. Kimmel, et al	776 / 920	42.70
40	6E / 1.6	Xavier S. Grahn & Charles Carnagey	717 / 419	1.50
41	6E / 1.9	KAIA	721 / 683	2.99
42	5E / 43	KAIA	721 / 683	58.22
43	6E / 1.8	Patricia A. & Joel S. Harris	721 / 670	4.95
44	6E / 1.1	Dennis & Cecilia H. Hodges	557 / 490	1.00
45	6E / 1.3	Mark Odle	606 / 783	1.54
46	6E / 1.2	Clint R. Stenger	748 / 55	1.00
47	6E / 1.7	Patricia A. & Joel S. Harris	721 / 670	61.20
48	6E/4	Sand Hill Land Ventures, LP	777 / 873	171.06
49	6E / 10	Sand Hill Land Ventures, LP	777 / 873	51.25

ID	Lease
1	George W. Waggoner, et ux
2	Fielding B. Riley, et al
7	F. White
9	J.A. Burnside, et al
10	Blonda S. Hall, et al
23	Charles Alan Kemper, et al
24	S.A. Hall, et al
33	Helen M, King, et al
35	Aldo McKinley
38	Simeon A. Hall, Jr., et al
40	R.H. Hall, et ux
54	Grace Rohrbough, et al

FILE NO: 156-36-UFC-20 DRAWING NO: Vaneck 1215 S-12H Well Plat SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: Submeter

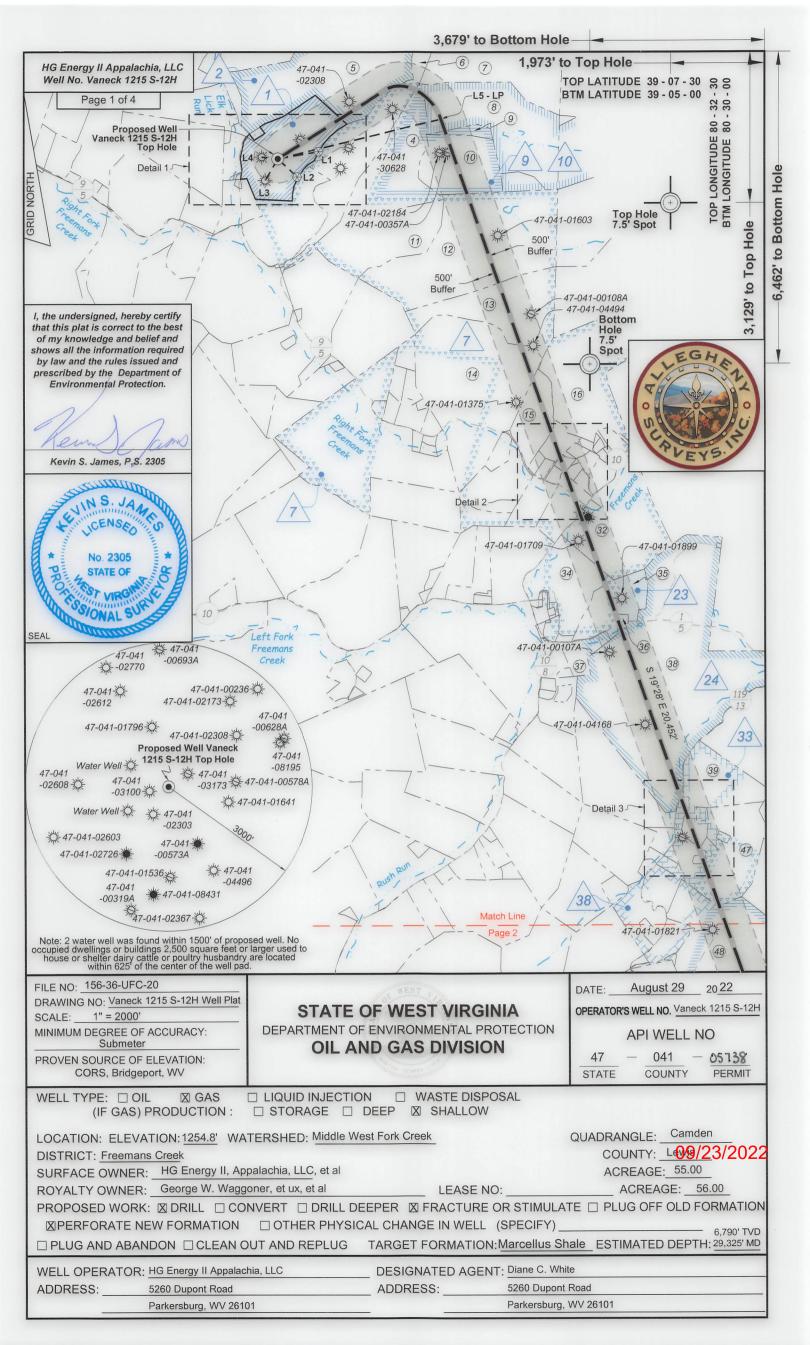
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

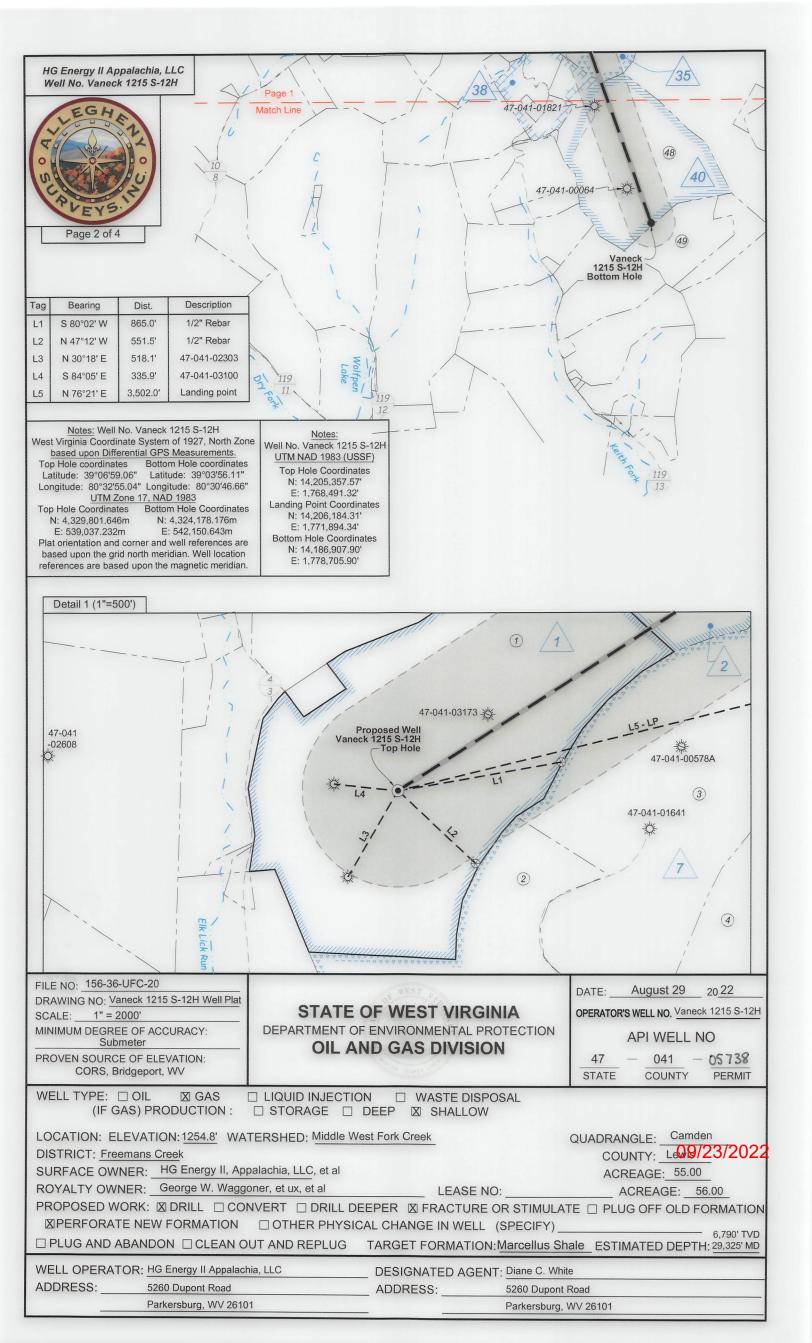
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION

DATE: _	August 29	20 22
OPERATO	R'S WELL NO. Vane	eck 1215 S-12H
	API WELL	NO

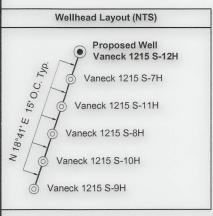
05738 47 041 STATE COUNTY PERMIT

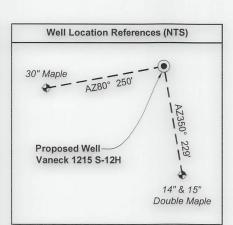
WELL TYPE: ☐ OIL ☐ GAS ☐ LIQUID INJE (IF GAS) PRODUCTION : ☐ STORAGE		
LOCATION: ELEVATION: 1254.8' WATERSHED: Middle DISTRICT: Freemans Creek SURFACE OWNER: HG Energy II, Appalachia, LLC, et al. ROYALTY OWNER: George W. Waggoner, et ux, et al. PROPOSED WORK: DRILL CONVERT DRIED DESCRIPTION OTHER PHOPOSED AND ABANDON CLEAN OUT AND REPLACEMENT.	LEASE NO: LL DEEPER IN FRACTURE OR STIM HYSICAL CHANGE IN WELL (SPECIF	Y)
WELL OPERATOR: HG Energy II Appalachia, LLC	DESIGNATED AGENT; Diane C	. White
ADDRESS: 5260 Dupont Road	ADDRESS: 5260 Du	pont Road
Parkershura WW 26101	Daskoral	WWW WWW 26404

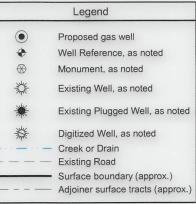


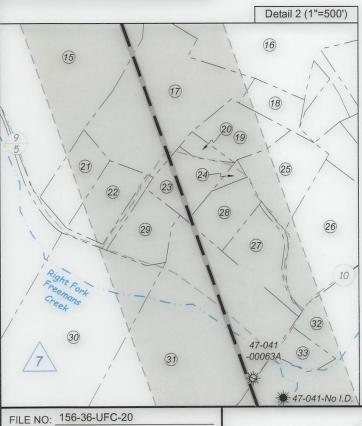


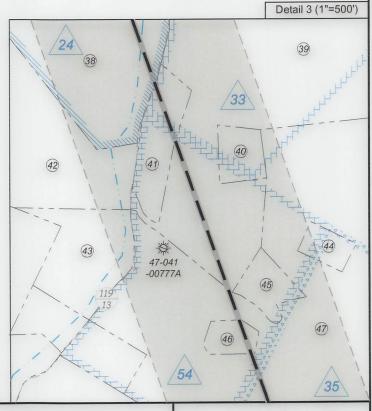












STATE

DRAWING NO: Vaneck 1215 S-12H 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: August 29 2022

OPERATOR'S WELL NO. Vaneck 1215 S-12H

API WELL NO

47 — 041 — 05738

COUNTY

COUNTY: Lew 99/23/2022

QUADRANGLE: Camden

PERMIT

WELL T	YPE:	OIL	⊠ GAS	☐ LIQUIE	INJEC	CTIC	DN 🗆	W	ASTE DISPOSA	L
	(IF	GAS) PROD	OUCTION:	☐ STOP	RAGE		DEEP	X	SHALLOW	
LOCATION	ON: E	LEVATION	:1254.8' WA	ATERSHED	o: Middl	e W	est Fork C	reel	<	

DISTRICT: Freemans Creek

ONANTE: HG Energy II Appelachia LLC et al.

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

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

LEASE NO: ACREAGE: 55.00

ACREAGE: 56.00

□ PLUG AND ABANDON □ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 29,325' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

ADDRESS: 5260 Dupont Road

Parkersburg, WV 26101

DESIGNATED AGENT: Diane C. White

5260 Dupont Road

Parkersburg, WV 26101

Parkersburg, WV 26101

Page 4 of 4



	Lewis Co Freeman Creek Dist.	DI 15	
			Ac.
5C / 29	H.G. Energy II Appalachia, LLC		55.00
5C / 25			45.48
5C / 27.2			57.97
5C / 22			57.76
5C / 30			140.50
5C / 31		F30 / 392	13.75
5C / 32		339 / 241	94.40
5C / 37	Phillip E. Burnside	766 / 831	83.75
5C / 38	Phillip E. Burnside	766 / 831	4.25
5C / 39		666 / 503	47.00
5C / 22.1	Janet L. & Joseph C. Waggoner, Sr.	705 / 183	57.53
5C / 45	Phillip E. Burnside, et al	666 / 503	121.4
	John K. Burnside, et al	W1 / 393	60.00
	Edward E. Garrett, et al	429 / 245	130.4
	Richard B. & Erica S. Messenger	577 / 212	23.96
	Dixie D. & William R. Fultineer, Sr.	627 / 496	82.66
	Lori L. & Earl F. Hill, III	696 / 688	5.74
	Edward Brightbill & Vicki A. Harper	750 / 120	1.23
	Jeremy & Christina White	609 / 539	2.00
	Jeremy & Christina White		0.43
	Michael P. & Julie T. Lough		2.02
			2.02
			1.57
			0.23
100000000000000000000000000000000000000			2.86
			5.86
40000			2.33
			1.81
			1.69
		A DA A MARKET	13.86
			18.82
			73.2
			1.00
			41.9
			28.70
			1.71
			10.50
			252.4
			42.70
			1.50
			2.99
			58.22
	5)5000000		4.95
			1.00
			1.54
			1.00
			61.20
6E / 1./	Sand Hill Land Ventures, LP	777 / 873	171.0
	5C / 27.2 5C / 22 5C / 30 5C / 31 5C / 32 5C / 38 5C / 39 5C / 22.1 5C / 45 5C / 46 5D / 35 5D / 60.13 5D / 60.13 5D / 60.12 5D / 60.7 5D / 60.1 5D / 5D /	TM / Par Owner 5C / 29 H.G. Energy II Appalachia, LLC 5C / 25 Raymond C. & Colona J. Waggoner 5C / 22 Jack E. & Cerilda M. Waggoner 5C / 22 Linda Lou Waggoner 5C / 30 Woody Lumber Co. Inc. 5C / 31 Nancy Hayhurst, et al 5C / 32 Robert S. Glotfelty 5C / 38 Phillip E. Burnside 5C / 38 Phillip E. Burnside, et al 5C / 39 Phillip E. Burnside, et al 5C / 22.1 Janet L. & Joseph C. Waggoner, Sr. 5C / 45 Phillip E. Burnside, et al 5D / 6.13 Edward E. Garrett, et al 5D / 60.13 Richard B. & Erica S. Messenger 5D / 60.13 Richard B. & Erica S. Messenger 5D / 60.3 Lori L. & Earl F. Hill, III 5D / 60.18 Edward Brightbill & Vicki A. Harper 5D / 60.19 Jeremy & Christina White 5D / 60.1 Michael P. & Julie T. Lough 5D / 60.2 Sylvia McNeish 5D / 60.4 Earl D. & Margaret A. Perrine 5D / 60.5 Jeremy Bruffy 5D / 60.15	TM / Par Owner Bk / Pg 5C / 29 H.G. Energy II Appalachia, LLC 765 / 894 5C / 25 Raymond C. & Colona J. Waggoner 567 / 416 5C / 22 Linda Lou Waggoner 547 / 691 5C / 22 Linda Lou Waggoner W33 / 157 5C / 30 Woody Lumber Co. Inc. 590 / 438 5C / 31 Nancy Hayhurst, et al F30 / 392 5C / 32 Robert S. Glotfelty 339 / 241 5C / 37 Phillip E. Burnside 766 / 831 5C / 38 Phillip E. Burnside, et al 666 / 503 5C / 39 Phillip E. Burnside, et al 666 / 503 5C / 39 Phillip E. Burnside, et al 666 / 503 5C / 45 Phillip E. Burnside, et al 466 / 503 5D / 46 John K. Burnside, et al W1 / 393 5D / 60.13 Richard B. & Erica S. Messenger 577 / 212 5D / 60.3 Lori L. & Earl F. Hill, III 666 / 688 5D / 60.18 Edward Brightbill & Vicki A. Harper 750 / 243 5D / 60.12 Jeremy & Christina White 609 / 539 <tr< td=""></tr<>

ID	Lease
1	George W. Waggoner, et ux
2	Fielding B. Riley, et al
7	F. White
9	J.A. Burnside, et al
10	Blonda S. Hall, et al
23	Charles Alan Kemper, et al
24	S.A. Hall, et al
33	Helen M. King, et al
35	Aldo McKinley
38	Simeon A. Hall, Jr., et al
40	R.H. Hall, et ux
54	Grace Rohrbough, et al

FILE NO: 156-36-UFC-20
DRAWING NO: Vaneck 1215 S-12H 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: _	August 29	2022
OPERATO	R'S WELL NO. Vane	ck 1215 S-12H

API WELL NO

 47
 041
 65738

 STATE
 COUNTY
 PERMIT

WELL TYPE: □ OIL □ GAS □ LIQUID INJECTIO (IF GAS) PRODUCTION: □ STORAGE □						
LOCATION: ELEVATION: 1254.8' WATERSHED: Middle Web DISTRICT: Freemans Creek SURFACE OWNER: HG Energy II, Appalachia, LLC, et al	est Fork Creek	QUADRANGLE: Camden COUNTY: L@9/23/2022 ACREAGE: 55.00				
ROYALTY OWNER: George W. Waggoner, et ux, et al	LEASE NO:	ACREAGE:56.00_				
PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☑ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)						
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG	TARGET FORMATION: Marcellu	us Shale ESTIMATED DEPTH: 29,325' MD				
WELL OPERATOR: HG Energy II Appalachia, LLC	DESIGNATED AGENT: Diane C	C. White				
ADDRESS: 5260 Dupont Road	ADDRESS: 5260 De	upont Road				
Parkersburg, WV 26101	Parkers	burg, WV 26101				

WW-6A1 (5/13)

Operator's Well No	. Vaneck 1215 S-12H

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

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

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

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

See Attached Sheets

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

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

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

AUG 1 8 2022

M. V. L.- partisent of Environmental Protection

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

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

HG Energy II Appalachia, LLC - Vaneck 1215 S12H Lease Chain

1215S Tract	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
				GEO. W. WAGGONER AND ROSA M. WAGGONER, HIS WIFE	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	NOT LESS THAN 1/8	73	3
				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	3
				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	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
		03-005C-0027-0001		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	
		03-003C-0023-0000		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	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	
			T	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	
			0	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	
			16 G	S. E. BARRETT	LOUIS BENNETT	ASSIGNMENT (50%)	36	
			erosis	LOUIS BENNETT AND S. E. BARRETT	J. M. GUFFEY AND JNO. H. GALEY	ASSIGNMENT (75%)	71	
			1 00 BA	S. E. BARRETT	J. M. GUFFEY AND JNO. H. GALEY	ASSIGNMENT	44	
				LOUIS BENNETT	J. M. GUFFEY AND JNO. H. GALEY	ASSIGNMENT	44	
			2022	J. M. GUFFEY AND JNO. H. GALEY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	44	
			80 20	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	85	
			3	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	
	1 1		7	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	
2	FK052230	03-005C-0030-0000	Q100666000	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	16
	711092229	44 4454 4444 4444		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	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	
	1			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
			10	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	

				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	49																	
				BOWING ENERGY THANSMISSION, INC.		THIRD AMENDMENT TO MEMORANDUM OF																			
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734 736	5																	
		- L- 02 00FC 0020 0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	/30																		
		p/o 03-005C-0020-0000 p/o 03-005C-0022-0000		F. WHITE	SOUTHERN OIL COMPANY	NOT LESS THAN 1/8	40																		
		03-005C-002Z-0001 03-005C-0023-0000		T. N.BARNSDALL, SOUTHERN OIL COMPANY, AND FRED S. RICH	RESERVE GAS COMPANY	ASSIGNMENT	85	1																	
	1	p/o 03-005C-0025-0000		RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	7																	
		03-005C-0027-0000		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294																		
		03-005C-0027-0002 03-005C-0045-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425																		
		03-005C-0046-0000		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS																		
		p/e 03-005D-0019-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS																		
		03-005D-0020-0000 p/o 03-005D-0035-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	1																	
		03-005D-0036-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684																		
		03 005D-0036-0001		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712																		
17	EV0E2007	p/o 03-005D-0036-0002 03-005D-0037-0000	0100333000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717																		
	FK053097	p/o 03-005D-0037-0000	Q100333000	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	1																	
		p/e 03-005D-0039-0000		DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos																		
		03-0050-0039-0001		Sommon invitationally ince	Estate in the state of the stat	SECOND AMENDMENT TO MEMORANDUM OF																			
		p/o 03-005D-0040-0000 p/o 03-005D-0040-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	4																	
		p/o 03-005D-0057-0000 03-005D-0059-0000 03-005D-0060-0000 03-005D-0060-0001 THRU 03-005D-0060-0018 03-005D-0061-0000 03-005D-0061-0001 03-005D-0061-0001	p/6 03-0050-0057-0000 03-005D-0059-0000 03-005D-0060-0000 03-005D-0060-0001 THRU	p/6 03-0050-0057-0000 03-005D-0059-0000 03-005D-0060-0000 03-005D-0060-0001 THRU	03-005D-0059-0000 03-005D-0060-0000 03-005D-0060-0001 THRU	p/e 03-0050-0057-0000 03-0050-0059-0000 03-0050-0060-0000 03-0050-0060-0001 THRU	03-005D-0059-0000 03-005D-0060-0000 03-005D-0060-0003 THRU		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734													
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	ī																	
				J. A. BURNSIDE AND ELLA BLANCHE BURNSIDE, HIS WIFE, EACH IN	A Committee of the Comm	Later Commence	200																		
				THEIR OWN RIGHT	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	209	4																	
	1												HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	1								
																						CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425
									CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS													
	4					CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS																
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672																		
>	1000 BY 25	03-005C-0038-0000	- A	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684																		
9	FK061775	03-005C-0039-0000	03-005C-0039-0000		The second secon		Q100785000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	_													
		p/o 03-005C-0022-0000		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																		
				- NO OFFICE AND A CONTROL OF A TOP	In the Control of the	SECOND AMENDMENT TO MEMORANDUM OF																			
		D .		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723																		
				Constitution of the constitution		THIRD AMENDMENT TO MEMORANDUM OF	500																		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734																		
		ln ln		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736																		
		nvicentnenta	Office of 18 202	BLONDA S. HALL AND LUCY S. HALL, HIS WIFE; JAMES H. HALL AND PATRICIA HALL, HIS WIFE; MABEL HALL, WIDOW; MARJORIE HALL COSBY AND ROBERT S. COSBY, JR., HER HUSBAND; ROBERTA HALL STEPHENS AND CHARLES H. STEPHENS, HER HUSBAND; MABEL JANE HALL GIBBS; AND, HERBERT F. GIBBS, JR., HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	222																		
		ntal Protection	00 377	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294																		
		27.0	/EB o 2022	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425																		
		<u> </u>	022	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS																		

	1	1		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos								
	beautical.	03-005C-0037-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154							
/10	FK064784	03-005C-0040-0000	Q101057000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57							
		03-005C-0041-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848							
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1							
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170							
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS								
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499							
		Envic	0	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558							
		5.5	AI Office	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220							
		50	0 0 7	Charles Alan Kemper AKA Alan Kemper	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	780	143							
		(a)	17.00	Connie Jane Scott FKA Connie Jane Lang FKA Connie Kemper	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	780	145							
		広島	00	William Kenneth Weaver - POA Stella Weaver	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	778	558							
		Pa		Patricia J. Fenton	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	778	402							
	1	03 0050 0053 0000	2022	Shirley V. Downs	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	778	404							
23	Tract 23	03-005D-0057-0000	22	Sharon V. Dunham	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	778	499							
		03-003D-0037-0001	04	Mary Kimberly Hutson FKA Mary K. Schwartz	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	778	550							
		a.		Patricia Priolette Johnson fka Patricia Kay Johnson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	778	497							
				Natalie Johnson Charles FKA Natalie Paige Johnson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	778	495							
				Norman Grant Johnson AKA Grant Johnson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	778	552							
				Michael London Priolette, II	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	778	548							
				S. A. HALL AND GEORGIA E. HALL, HIS WIFE; AND CLAUDE M. HALL			1000	- 25							
		03-0060-0010-0000		AND NELLE HALL, HIS WIFE	ALLEGHENY LAND AND MINERAL COMPANY	NOT LESS THAN 1/8	258	541							
				ALLEGHENY LAND AND MINERAL COMPANY	ALLEGHENY LAND AND MINERAL COMPANY	CONFIRMATORY DEED	401	538							
				ALLEGHENY LAND AND MINERAL COMPANY	Alamco, Inc.	MERGER/NAME CHANGE	457	667							
	100000			Alamco, Inc.	UMC Petroleum Corporation	ASSIGNMENT	519	24							
24	DAD41528	03-005D-0068-0000	DAD41528	UMC Petroleum Corporation	Ashland Exploration Holdings, Inc.	ASSIGNMENT	525	557 207							
	0120000	03-006D-0010-0002		Ashland Exploration Holdings, Inc.	Eastern States Oil and Gas, Inc.	ASSIGNMENT	546	207							
				2000	460, 90, 1000, 140	Heby Mande City		2-0-1-0-1-0	7-17 M 77		Eastern States Oil and Gas, Inc.	Blazer Energy Corp.	MERGER/NAME CHANGE	WVSOS	
				Blazer Energy Corp.	Equitable Production - Eastern States, Inc.	MERGER/NAME CHANGE	WVSOS								
	V			Equitable Production - Eastern States, Inc.	Equitable Production Company	MERGER/NAME CHANGE	WVSOS								
								Equitable Production Company	EQT Production Company	MERGER/NAME CHANGE ASSIGNMENT	770	560			
				EQT PRODUCTION COMPANY	HG ENERGY II APPALACHIA, LLC	ASSIGNIMENT	770	500							
				HELEN M. KING, WIDOW; ADA BAILEY, WIDOW; JULIA FAY CUNNINGHAM AND B.L. CUNNINGHAM, HER HUSBAND; GRACE ROHRBOUGH, WIDOW; PAUL MCKINLEY AND MADALINE V. MCKINLEY, HIS WIFE; RICHARD A. MCKINLEY, BY NELLIE P. MCKINLEY, HIS ATTORNEY IN FACT; NELLIE P. MCKINLEY WIFE OF RICHARD A.											
				MCKINLEY; AND CLARA E. ROWAN, WIDOW	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	314	3/							
10		p/o 03-006E-0001-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127							
33		03-006E-0001-0006		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG DEVELOPMENT COMPANY	ASSIGNMENT	432	633							
		03-006E-0001-0009		CNG DEVELOPMENT COMPANY	CNG PRODUCING COMPANY	MERGER/NAME CHANGE	WVSOS	366							
		-0,6320-0420-0450		CNG PRODUCING COMPANY	DOMINION EXPLORATION & PRODUCTION INC.	MERGER/NAME CHANGE	58 651	137							
				DOMINION EXPLORATION & PRODUCTION INC	DOMINION TRANSMISSION INC	ASSIGNMENT		22!							
				DOMINION APPALACHIAN DEVELOPMENT LLC	DOMINION TRANSMISSION, INC.	ASSIGNMENT	651	31							
	V			DOMINION TRANSMISSION INC	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	- 31							
				CONSOL ENERGY HOLDINGS LLC XVI	CONSOL GAS COMPANY	MERGER/NAME CHANGE	WVSOS	47							
				CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE									

				GRACE ROHRBOUGH, WIDOW; CLARA ROWAN, WIDOW; PAUL W.		1.5								
		p/a 03-006E-0001-0000		MCKINLEY AND MADALINE V. MCKINLEY, HIS WIFE; AND HELEN M.										
		p/o 03-006E-0001-0001		KING	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	322							
		03-006E-0001-0002		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425							
EA		p/o 03-006E-0001-0003		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG DEVELOPMENT COMPANY	ASSIGNMENT	432							
54		03-006E-0001-0005		CNG DEVELOPMENT COMPANY	CNG PRODUCING COMPANY	MERGER/NAME CHANGE	WVSOS							
		p/o 03-006E-0001-0006		CNG PRODUCING COMPANY	DOMINION EXPLORATION & PRODUCTION INC.	MERGER/NAME CHANGE	58							
		p/o 03-006E-0001-0007		DOMINION EXPLORATION & PRODUCTION INC	CONSOL GAS COMPANY	MERGER/NAME CHANGE	WVSOS							
		p/o 03-006E-0001-0009		CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	WVSOS							
				CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	766							
				ALDO MCKINLEY	SOUTHERN OIL COMPANY	NOT LESS THAN 1/8	40							
				T. N. BARNSDALL, THE SOUTHERN OIL COMPANY, FRED S. RICH, AND W. S. MORRIS	RESERVE GAS COMPANY	ASSIGNMENT	85							
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155							
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294							
	1000	Value organization and a	6-255	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	_						
35	53105	p/o 03-006E-0001-0007	53105	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos							
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS							
				DOMINION TRANSMISSION INC	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	_						
				CONSOL ENERGY HOLDINGS LLC XVI, DOMINION RESERVES INC, AND	CONSOC ENERGY HOLDINGS ELC AVI	ASSIGNMENT	00.0	_						
				DOMINION EXPLORATION & PRODUCTION INC	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9							
				CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	766	_						
					-	SIMEON A. HALL, JR AND IRENE M. HALL, HIS WIFE	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	447	_				
				LENA H. HALL, WIDOW	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	447	_						
				INEZ H. BROWN, WIDOW	STONEWALL GAS COMPANY STONEWALL GAS COMPANY	NOT LESS THAN 1/8	447	_						
						NOT LESS THAN 1/8	447	_						
				FREDA H. KITTLE, WIDOW	STONEWALL GAS COMPANY		447	_						
	1			TRUMAN L. WYANT AND GENEVA WYANT, HIS WIFE	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	447	_						
											NINA L. COTTRILL, WIDOW	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	447
			199	RUHL R. HALL AND LUCILLE HALL, HIS WIFE	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	447	_						
		03-006E-0002-0000 03-006E-0003-0000 p/o 03-006E 0003-0001 p/o 03-006E-0004-0000	100	JOHN H. HALL AND VIVIAN HALL, HIS WIFE	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	446	_						
			AUG 1 8	RUTH I. BUTCHER AND FRED D. BUTCHER, HER HUSBAND	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	448	-						
			JULIA JULIA JULIA	RUHL JUDSON BAILEY AND JOSEPHINE G. BAILEY, HIS WIFE	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	448	_						
38	DAD38009001-9015		20 m	RICHARD H. HALL, III AND PEARL E. HALL, HIS WIFE	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	446	_						
		03-005E- 0035-0000	32 - 4	BETTIE S. BUSH AND LOVELL L. BUSH, HER HUSBAND	STONEWALL GAS COMPANY	NOT LESS THAN 1/8		_						
		03-005E-00036-0000	00	KATHRYN B. DOUGLAS AND GEORGE DOUGLAS, HER HUSBAND	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	448	_						
		03-005E-0037-0000	20 N	STONEWALL GAS COMPANY	DOMINION APPALACHIAN DEVELOPMENT INC.	MERGER/NAME CHANGE	59							
			2022 2022	DOMINION APPALACHIAN DEVELOPMENT INC.	DOMINION APPALACHIAN DEVELOPMENT LLC	MERGER/NAME CHANGE	10	_						
			82 0	DOMINION APPALACHIAN DEVELOPMENT LLC	DOMINION TRANSMISSION INC.	ASSIGNMENT	651	_						
			8	DOMINION TRANSMISSION INC.	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	_						
				CONSOL ENERGY HOLDINGS LLC XVI	CONSOL GAS COMPANY	MERGER/NAME CHANGE	WVSOS	_						
				CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9	_						
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT (50%)	659	_						
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	_						
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	_						
				R. H. HALL, ET UX	RESERVE GAS COMPANY	NOT LESS THAN 1/8	68							
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	_						
			1	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							
			CNX053244	CNG DEVELOPMENT COMPANY	CNG PRODUCING COMPANY	MERGER/NAME CHANGE	WVSOS							
40	53244	p/o 03-006E-0004-0000	AGREEMENT	CNG PRODUCING COMPANY	DOMINION EXPLORATION & PRODUCTION INC.	MERGER/NAME CHANGE	58							
			131356000	DOMINION EXPLORATION & PRODUCTION INC.	DOMINION TRANSMISSION INC	ASSIGNMENT	651							

1	1	DOMINION TRANSMISSION INC	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	318
		CONSOL ENERGY HOLDINGS LLC XVI	CONSOL GAS COMPANY	MERGER/NAME CHANGE	wvsos	
		CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9	471
	1	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT (50%)	659	521
	1	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
	1	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170

AUG 1 8 2022

NV Departmental Production



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

July 29, 2022

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

RE:

Drilling Under Roads – Vaneck 1215 S-12H 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

AUG 1 8 2022

Will Department of Environmental Protection

WW-6AC (1/12)

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

Date of Notic	e Certification: 07/19/2022	API No. 47				
		Operator's W				
		Well Pad Nan	ne:Vaneck 1	215 Well Pad		
Notice has h	oeen given:					
		22-6A, the Operator has provided the requir	red parties w	ith the Notice Forms listed		
	tract of land as follows:					
State:	West Virginia		39037.2			
County:	Lewis	Northing: $\underline{43}$	329801.7	OD 40 / 0		
District:	Freemans Creek		are Run Road /	CR 1079		
Quadrangle:	Camden WV 7.5's	Generally used farm name: Va	aneck			
Watershed:	Middle West Fork Creek					
information re of giving the requirements Virginia Code	equired by subsections (b) and (c), sec surface owner notice of entry to sur of subsection (b), section sixteen of	ed in subdivisions (1), (2) and (4), subsect ction sixteen of this article; (ii) that the requi- rvey pursuant to subsection (a), section ten this article were waived in writing by the ender proof of and certify to the secretary that.	rement was of this artic surface ow	deemed satisfied as a resul ble six-a; or (iii) the notice oner; and Pursuant to Wes		
that the Ope *PLEASE CHI 1. NO	TICE OF ENTRY FOR PLAT SURV	erator has attached proof to this Notice Certification of the following: I parties with the following: NOTICE NOT REQUIRED BECAUSI SEISMIC ACTIVITY WAS CONDUCTED OF PLAT SURVEY WAS CON NOTICE NOT REQUIRED BECAUSINOTICE OF ENTRY FOR PLAT SURVEY	E NO D DUCTED E	OOG OFFICE USE ONLY RECEIVED/ NOT REQUIRED RECEIVED/ NOT REQUIRED		
		WAS CONDUCTED or ☐ WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)		101,000,000		
■ 4. NO′	TICE OF PLANNED OPERATION			RECEIVED		
■ 5. PUI	BLIC NOTICE	Office of October 1990		☐ RECEIVED		
■ 6 NO	TICE OF APPLICATION	AUG 1 8 2022		RECEIVED		
		WW Departmental Protection	1)			

Required Attachments:

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

WW-6AC (1/12)

Certification of Notice is hereby given:

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

Well Operator: HG II Appalachia, LLC Address:

By: Diane White Diane White

Its: Agent Facsimile:

Telephone: 304-420-1119 Email:

Address: 5260 Dupont Road
Parkersburg, WV 26101
Facsimile: 304-863-3172
Email: dwhite@hgenergyllc.com



Subscribed and sworn before me this 21st day of July, 2022

Cond Good 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 depprivacyofficer@wv.gov.

AUG 1 8 2022

WW-6A (9-13)

API NO. 47		
OPERATOR WE	ELL NO.	Vaneck 1215 N1H - S12H
Well Pad Name:	Vaneck 12	15

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

Notice T	ime Requireme	nt: notice shall be pro	ovided no later than	n the filing date of permit application.	
Date of 1	Notice: 01/17/2022	Date Permit Appli	ication Filed: '01/2	5/22	•
Notice o	f:	•	•		
	RMIT FOR ANY			ROVAL FOR THE AN IMPOUNDMENT OR PIT	·
Delivery	method pursus	ant to West Virginia	Code § 22-6A-10	(b)	
	RSONAL RVICE	☐ REGISTERED MAIL		OD OF DELIVERY THAT REQUIRES A PT OR SIGNATURE CONFIRMATION	
registered sediment the surface oil and good described operator more coasel work impound have a way provide was subsection records of provision Code R.	I mail or by any request of the tract on as leasehold being in the erosion at or lessee, in the el seams; (4) The k, if the surface to ment or pit as desater well, spring owater for consumpt well work activity on (b) of this section of this article to \$35-8-5.7.a requested	nethod of delivery that nired by section seven of which the well is or is g developed by the pro- nd sediment control play event the tract of land of owners of record of the fract is to be used for the scribed in section nine or water supply source potion by humans or do ty is to take place. (c) (son hold interests in the ired to be maintained p the contrary, notice to nires, in part, that the	requires a receipt of this article, and the proposed to be locally proposed well work, if an submitted pursua on which the well proposed within the well proposed tract or traction of this article; (5) A located within one mestic animals; and the lands, the applicant oursuant to section of a lien holder is not perator shall also pursuant of this article; (5) and the lands of the proposed to the lands of the proposed to the lands of	t as required by this article shall deliver, by personal sector signature confirmation, copies of the application, the she well plat to each of the following persons: (1) The outed; (2) The owners of record of the surface tract or tractices tract is to be used for roads or other land do not to subsection (c), section seven of this article; (3) The opposed to be drilled is located [sic] is known to be unducts overlying the oil and gas leasehold being developed unction, enlargement, alteration, repair, removal or abandany surface owner or water purveyor who is known to the thousand five hundred feet of the center of the well pace (6) The operator of any natural gas storage field withing tenants in common or other co-owners of interests deat may serve the documents required upon the person desight, article one, chapter eleven-a of this code. (2) Not notice to a landowner, unless the lien holder is the land of the control of the surface of this rule.	erosion and wners of record of icts overlying the isturbance as he coal owner, derlain by one or I by the proposed donment of any he applicant to I which is used to he which the scribed in described in the withstanding any lowner. W. Va.
				☑ Well Plat Notice is hereby provided to:	
Address Name:	Parkersburg, WV 2		6 Surface . also +hz Operator	Address: COAL OPERATOR Name: _NA	
Name: _ Address Name: _ Address	Nancy Hayhurst 195 Rexroad Drive Weston, WV 26452 Woody Lumber Co 201 Vicksburg Roa Buckhannon, WV 2	mpany ad 26201	·	Address: SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name: Charles Curtis Gary Stalnaker Timothy Rittenhouse Address: 377 Elk Lick Road 179 Elk Lick Road Weston, WV 28452 Weston, WV 28452 OPERATOR OF ANY NATURAL GAS STORA	AGE FIELD
Name: _	•) (Impoundments or I		Name: Dominion Energy Transmission - Attn: Ronald Waldren Address: 925 White Oaks Blvd Bridgeport, WV 26330 *Please attach additional forms if necessary	FECTIVED Office of Office Office of Office

TW Department of Environmental Restaction

4704105738

WW-6A (8-13)

API NO. 47-OPERATOR WELL NO. Vaneak 1215 N1H-512H Well Pad Name: Vaneck 1215

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

09/23/2022

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: RECEIVED: Office of Officed Gas

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

AUG 1 8 2022

VIV Penal Chemit 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)

OPERATOR WELL NO. Vanenk 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.



WW-6A (8-13)

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

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

304-420-1119 Telephone:

dwhite@hgenergyllc.com Email:

Diane White

5260 Dupont Road Address:

Parkersburg, WV 26101

304-863-2172 Facsimile:

Oil and Gas Privacy Notice:

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

OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Mark J Schall HG Energy LLC 5260 DUPONT ROAD PARKERSBURG WV 26105 MUISSION FXPIRES NOVEMBER 2.

Subscribed and swern before me this 17th day of January , 2022 Notary Public

My Commission Expires

AUG 1 8 2022

11V 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 C. White

Enclosures

AUG 19 mag



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

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

Office of Office Gas

AUG 1 8 2022

WV Department of Environmental Protection

Enclosures



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

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.

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Diane C. White

Enclosures

Ciffos as Offered Gas

AUG 1 8 2022



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



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 -

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.

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Very truly yours,

Diane White

Diane C. White

Enclosures



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.

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Very truly yours,

Diane White

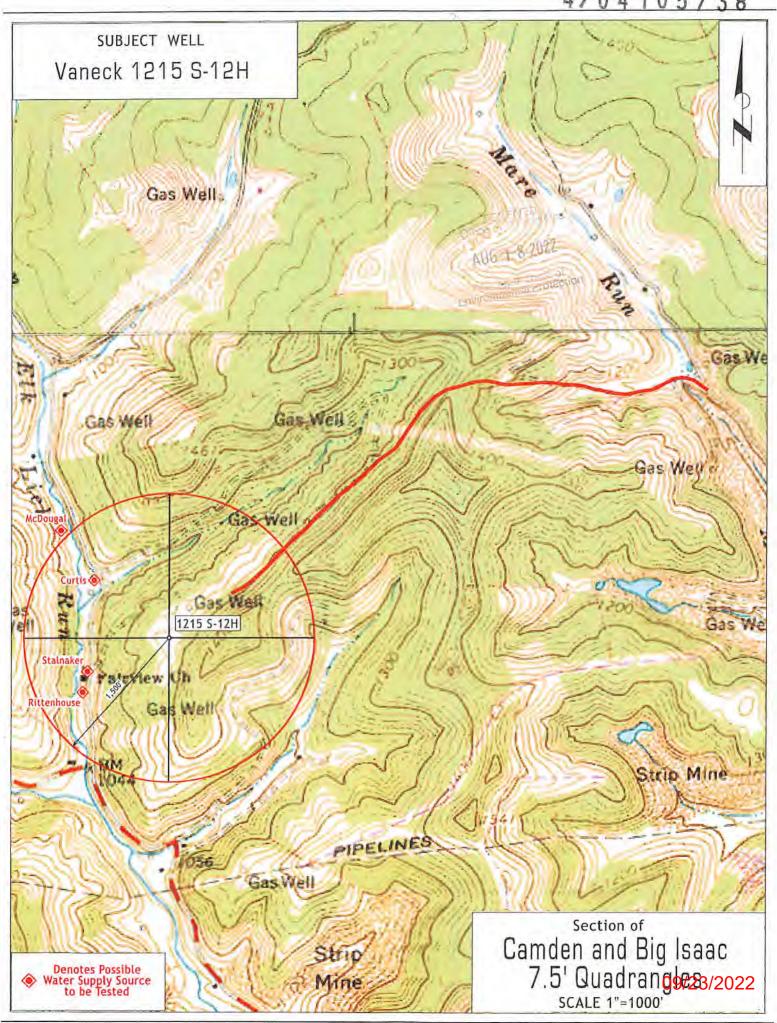
Diane C. White

Enclosures

Office of Olf and Cas

AUG 1 8 2022

MiV Dependent of Environmental Protection



Sturm Environmental Services —

VICTORIA L. HOOPS, PRESIDENT

COMPANY:

H.G. ENERGY, LLC.

DATE/TIME SAMPLED:

01-04-22 1550

SAMPLE ID:

GARY STALNAKER

DATE/TIME RECEIVED:

01-04-22 1654

VANECK 1215 SAMPLED BY: K. WILLIAMS

LABORATORY ID:

HG 220104-1

PARAMETER	TEST RESULTS	UNITS	METHOD	METHOD DETECTION LIMIT	MINIMUM REPORTING LIMIT	DATE/TIME ANALYZED	ANALYST
FIELD pH	7.6	units				01-04-22 1550	KW
FIELD TEMP	20.2	°C				01-04-22 1550	KW
FIELD COND	1233	μmhos				01-04-22 1550	KW
LATTITUDE	39 06 55.33	N				01-04-22 1550	KW
LONGITUDE	80.33 04.79	. W				01-04-22 1550	KW
рН О	7.5	units	SM 22 nd 4500 H B	.1	210.	01-05-22 1426	ZT
Fe	2.59	mg/L	EPA 200.7 Rev 4.4-1994	.05	.25	01-06-22 2007	DB
TDS	148	mg/L	USGS I-1750-85	4	4	01-06-22 1527	MRM
Cl-	3.75	mg/L	EPA 300.0 Rev 2.1-1993	1.0	1.0	01-07-26 0729	DC
MBAS	.05	mg/L	SM22 nd 5540C	.02	.04	01-05-22 2101	SW
						Car Direct	V-D
		×				AUG 18	2022
	* 1		1			Environmental Pr	

*Client Provided

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

Data Qualifiers

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

E Estimated Reported value exceeded calibration range.

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

PND Precision not determined.

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

RND Recovery not determined.

U Compound was analyzed for, but not detected.

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

T This result is not supported by our certification ID.

A Does not meet 40 CFR 136/141 compliance.

C Does not meet 47 CSR 32 compliance.

Narrative:

Approved Dough II Bost

09/23/2022

Sturm Environmental Services

VICTORIA L. HOOPS, PRESIDENT

COMPANY:

H.G. ENERGY, LLC.

DATE/TIME SAMPLED:

01-04-22 1605

SAMPLE ID:

CHARLES CURTIS

DATE/TIME RECEIVED:

01-04-22 1654

VANECK 1215 SAMPLED BY: K. WILLIAMS

LABORATORY ID:

HG 220104-2

PARAMETER .	TEST RESULTS	UNITS	METHOD	METHOD DETECTION LIMIT	MINIMUM REPORTING LIMIT	DATE/TIME ANALYZED	ANALYST
FIELD pH	7.3	units				01-04-22 1605	KW
FIELD TEMP	13.5	°C				01-04-22 1605	KW
FIELD COND	584	μmhos				01-04-22 1605	KW
LATTITUDE	39 07 05.24	N				01-04-22 1605	KW
LONGITUDE	80 33 0353	W				01-04-22 1605	KW
рН О	7.1	units	SM 22 nd 4500 H B	,1	210.	01-05-22 1426	ZT
Fe	3.87	mg/L	EPA 200.7 Rev 4.4-1994	.05	.25	01-06-22 2007	DB
TDS	146	mg/L	USGS I-1750-85	4	4	01-06-22 1527	MRM
Cl ⁻	2.70	mg/L	EPA 300.0 Rev 2.1-1993	1.0	1.0	01-07-26 0729	DC
MBAS	.03 Л	mg/L	SM22 nd 5540C	.02	.04	01-05-22 2101	SW
						-O:	
						AUG 1 8 7	V22
				*		Vin/ Departed Environmental E	rotection

*Client Provided

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

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Narrative:

Approved

Doyle H Bonsto

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Field Temp (F*or C*) circle	Field Chlorine(mg/L or ug/L) airole one	Field DO	Field Conductivity	Flow (gpm, cfs, mgd) circle one	Field pH	# of Bottles			MBAS	PH. 785,CI	Other (specify):	Sludge Soil	Wastewater	HNO ₃	H ₂ SO ₄ Plastic H ₂ SO ₄ Glass	Na ₂ S ₂ O ₃ 7C/FC	OTHER	Ice	TIME	DATE	END TIME	END DATE	START TIME	START DATE	Sample ID / Description
rcle	Č						ALTSES	METHODIAN	+		XIAT	AM :		#	TIVE	AVABSB	N4	4	AMPLE	S BARD	97	I SAMPI	TISOGMO	00	
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	Molipary of g	1 8 2022	NE 9	REET 304-744-9 1744-744-9	10 D ST 0. CHA HONE: AX: 304	d S 9	DKESSES ∀	ONMENTAL ROAD WV 26330 825-6549 S625 MAILING AD	FORF, 304-6;	USHY IDGEP	ЯВ НЧ КАЭ							1	10				sa M	D.	

WW-6A3 (1/12) Operator Well No. Vaneck 1215 N-111 to S-12H

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

	equirement: Notice shall be provided at le	ast SEVEN (7) day	ys but no more than	n FORTY-FIVE (45) days prior to
entry Date of Notice	Date of Planned Enti	ry: 01/05/2022			
	od pursuant to West Virginia Code § 22-0				
☐ PERSON.			IVERY THAT RE	OUIRES A	
SERVICE		ECEIPT OR SIGN	ATURE CONFIR	MATION	
on to the surface but no more that beneath such tr owner of miner and Sediment (Secretary, whice enable the surface	st Virginia Code § 22-6A-10(a), Prior to filing the tract to conduct any plat surveys required an forty-five days prior to such entry to: (1) act that has filed a declaration pursuant to say underlying such tract in the county tax recontrol Manual and the statutes and rules reliable statement shall include contact information ace owner to obtain copies from the secretar	pursuant to this ar The surface owner ection thirty-six, as ecords. The notice lated to oil and gas on, including the ac y.	ticle. Such notice s of such tract; (2) to ticle six, chapter to shall include a state exploration and particles of the ddress for a web particles.	shall be provided at least to any owner or lesse wenty-two of this contement that copies of roduction may be obtage on the Secretary's	east seven days e of coal seams le; and (3) any f the state Erosion tained from the s web site, to
Notice is herel	by provided to: * Notice not given	200			
SURFACE	E OWNER(s)	The state of the state of	LOWNER OR LE		
Name: HG En	ergy II Appalachia, LLC (pad, road, royalty owner)	Name:	IA.		
Address: 5260 L		Address:			
Parker	sburg, WV 26101				
Name:		Tel x marr	RAL OWNER(s)		
Address:		1 2 0 3 11 1 1 1			
XX - / / /			** See Attached List		T
Name:		Address.			
Address.		*please attacl	additional forms if ne	cessary	
a plat survey or	est Virginia Code § 22-6A-10(a), notice is he n the tract of land as follows: West Virginia	Approx, Latit	ade & Longitude:	39.117104 & 80.547833	entry to conduct
County:	Lewis	Public Road A	Access:	Mare Run Road / SR 19	
35 10 11 10 11	Freeman's Greek	Watershed:	10	Middle West Fork River	
Quadrangle:	Camden WV 7.5'	Generally use	d farm name:	Vaneck	
may be obtained Charleston, Woobtained from	tate Erosion and Sediment Control Manual and from the Secretary, at the WV Department 25304 (304-926-0450). Copies of such dothe Secretary by visiting				

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.

09/23/2022



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

AUG 1 8 2027

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 To be Dorse 105 M

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 09/23/2022 Elizabeth Carol Brown 84 Schoolhouse Lane Windsor, PA 17366

Tina Louise Hamrick 17104 Indian Grass Drive Germantown, MD 20874

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

J.P. Morgan Chase Bank, Trustee For Will E. Morris Heirs P.O. Box 659 Wichita Falls, TX 76307 Edward Earl Garrett 2151 Rush Run Rd. Weston, WV 26452

Phillip E. Burnside 3 Briarwood Ter. Fairmont, WV 26554

Barbara Jean Evans 1944 Franklin Church Road Darlington, MD 21034

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

Vickie Lynn Erickson 515 Evans Street Perryville, MD 21903

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

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

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

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

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

RECEIVED
Office of Oil and Gas

AUG 1 8 2022

MW Department of Environmental Protection

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

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

A-10(a) nave		the time to the second to the	
Notice Time I Date of Notice		provided at least TEN (10) days prior to filing. Date Permit Application Filed: 01/27/2022	a permit application.
Jate of None		Date Fermit Application Flash	
elivery metl	ood pursuant to West Virgini	ia Code § 22-6A-16(b)	
] HAND	■ CERTIFIED M	MAIL	
DELIVE		CEIPT REQUESTED	
eceipt reques drilling a hori of this subsect subsection ma and if availabl	ted or hand delivery, give the secontal well: Provided, That notion as of the date the notice way be waived in writing by the second facsimile number and electrical	least ten days prior to filing a permit application surface owner notice of its intent to enter upon otice given pursuant to subsection (a), section ras provided to the surface owner: <i>Provided</i> , he surface owner. The notice, if required, shall intend mail address of the operator and the operator	the surface owner's land for the purpose of ten of this article satisfies the requirements owever, That the notice requirements of this clude the name, address, telephone number, tor's authorized representative.
lotice is her	eby provided to the SURF	FACE OWNER(s): * Notice not sen	+ as Surface Dwner 15 also U
T ile	Energy II Appalachia, LLC	Name;	
1000			
Notice is her Pursuant to W he surface ow	est Virginia Code § 22-6A-16 mer's land for the purpose of d	Address: (b), notice is hereby given that the undersigne drilling a horizontal well on the tract of land as	follows:
Notice is her Pursuant to W the surface ow State: County:	rkersburg, WV 26101 eby given: est Virginia Code § 22-6A-16	5(b), notice is hereby given that the undersigne	follows: 539089.4
Address: 52 Pe Notice is here Pursuant to We he surface own State: County: District:	rkersburg, WV 26101 reby given: est Virginia Code § 22-6A-16 mer's land for the purpose of d West Virginia Lewis	6(b), notice is hereby given that the undersigne drilling a horizontal well on the tract of land as Easting: UTM NAD 83 Northing:	follows: 539089.4 4329869.2
Address: 52 Pe Notice is her Pursuant to W he surface ow State: County:	rkersburg, WV 26101 reby given: est Virginia Code § 22-6A-16 mer's land for the purpose of d West Virginia Lewis Freemans Creek	6(b), notice is hereby given that the undersigne drilling a horizontal well on the tract of land as Easting: UTM NAD 83 Northing: Public Road Access:	follows: 539089.4 4329869.2 Mare Run Road/ CR 10 / 9
Notice is here Pursuant to We he surface own State: County: District: Quadrangle: Watershed: This Notice Pursuant to Versuant to Versuant to Versuant to New Yearship of the Notice Pursuant to Versuant to New Yearship of the Notice Pursuant to New Yearship of New Yearsh	rkersburg, WV 26101 reby given: est Virginia Code § 22-6A-16 mer's land for the purpose of d West Virginia Lewis Freemans Creek Camden WV 7.5' Middle West Fork Creek Shall Include: West Virginia Code § 22-6A- aber and electronic mail address Geography of the container of the	6(b), notice is hereby given that the undersigne drilling a horizontal well on the tract of land as Easting: UTM NAD 83 Northing: Public Road Access:	follows: 539089.4 4329869.2 Mare Run Road/ CR 10 / 9 Vaneck dress, telephone number, and if available, ized representative. Additional information of Environmental Protection headquarters,
Notice is here Pursuant to We he surface own State: County: District: Quadrangle: Watershed: Pursuant to We here Pursuant to W	reby given: est Virginia Code § 22-6A-16 mer's land for the purpose of d West Virginia Lewis Freemans Creek Camden WV 7.5' Middle West Fork Creek Shall Include: Vest Virginia Code § 22-6A- aber and electronic mail address tizontal drilling may be obtaine 57th Street, SE, Charleston, Wereby given by:	of (b), notice is hereby given that the undersigne drilling a horizontal well on the tract of land as Easting: Northing: Public Road Access: Generally used farm name: 16(b), this notice shall include the name, ad ress of the operator and the operator's authorised from the Secretary, at the WV Department VV 25304 (304-926-0450) or by visiting www.	follows: 539089.4 4329869.2 Mare Run Road/ CR 10 / 9 Vaneck dress, telephone number, and if available, ized representative. Additional information of Environmental Protection headquarters, dep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is her ursuant to Whe surface ow tate: County: District: Quadrangle: Vatershed: Chis Notice Varsuant to Vacsimile numelated to hor ocated at 601 Notice is her	reby given: est Virginia Code § 22-6A-16 mer's land for the purpose of d West Virginia Lewis Freemans Creek Camden WV 7.5' Middle West Fork Creek Shall Include: West Virginia Code § 22-6A- ber and electronic mail addre izontal drilling may be obtaine 57th Street, SE, Charleston, W	fo(b), notice is hereby given that the undersigne drilling a horizontal well on the tract of land as UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: For 16(b), this notice shall include the name, ad ress of the operator and the operator's authorized from the Secretary, at the WV Department VV 25304 (304-926-0450) or by visiting www.	follows: 539089.4 4329869.2 Mare Run Road/ CR 10 / 9 Vaneck dress, telephone number, and if available, ized representative. Additional information of Environmental Protection headquarters, dep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is her ursuant to Whe surface ow tate: County: District: Quadrangle: Vatershed: This Notice Pursuant to Vacsimile nunelated to hor ocated at 601 Notice is here Vell Operator	reby given: est Virginia Code § 22-6A-16 mer's land for the purpose of d West Virginia Lewis Freemans Creek Camden WV 7.5' Middle West Fork Creek Shall Include: Vest Virginia Code § 22-6A- aber and electronic mail address tizontal drilling may be obtaine 57th Street, SE, Charleston, Wereby given by:	of (b), notice is hereby given that the undersigne drilling a horizontal well on the tract of land as Easting: Northing: Public Road Access: Generally used farm name: 16(b), this notice shall include the name, ad ress of the operator and the operator's authorised from the Secretary, at the WV Department VV 25304 (304-926-0450) or by visiting www.	follows: 539089.4 4329869.2 Mare Run Road/ CR 10 / 9 Vaneck dress, telephone number, and if available, ized representative. Additional information of Environmental Protection headquarters, dep.wv.gov/oil-and-gas/pages/default.aspx. e: Diane White 5260 Dupont Road
Notice is her ursuant to Whe surface ow tate: County: District: Quadrangle: Vatershed: Chis Notice Pursuant to Wacsimile numelated to hor ocated at 601 Notice is her vell Operator Address:	reby given: est Virginia Code § 22-6A-16 mer's land for the purpose of d West Virginia Lewis Freemans Greek Camden WV 7.5' Middle West Fork Creek Shall Include: Vest Virginia Code § 22-6A- ber and electronic mail addre izontal drilling may be obtaine 57 th Street, SE, Charleston, W reby given by: : HG Energy II Appalachia, LLC	6(b), notice is hereby given that the undersigne drilling a horizontal well on the tract of land as UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: -16(b), this notice shall include the name, ad ress of the operator and the operator's authorized from the Secretary, at the WV Department VV 25304 (304-926-0450) or by visiting www. Authorized Representativ Address:	follows: 539089.4 4329869.2 Mare Run Road/ CR 10 / 9 Vaneck dress, telephone number, and if available, ized representative. Additional information of Environmental Protection headquarters, dep.wv.gov/oil-and-gas/pages/default.aspx.
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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.



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

elivery met	hod pursuant to West Virginia (Code §	22-6A-16(c)		
CERTI	FIED MAIL		HAND		
	RN RECEIPT REQUESTED	_	DELIVERY		
eturn receipt the planned of equired to be rilling of a lamages to the d) The notice of notice.	requested or hand delivery, give to operation. The notice required by e provided by subsection (b), secti- horizontal well; and (3) A propose the surface affected by oil and gas of	the surface on ten of sed surface operation given to	ace owner whose land ubsection shall include if this article to a surfa- ace use and compens are to the extent the da to the surface owner a	will be used for le: (1) A copy ace owner whos ation agreemen mages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
at the addres	s listed in the records of the sherif	f at the	time of notice):		
The second second	Energy II Appalachia, LLC	_	Name:		
Address: 526		_	Address		
Notice is her Pursuant to Viperation on	Vest Virginia Code § 22-6A-16(c), the surface owner's land for the p	notice urpose	of drilling a horizonta	l well on the tra	
Notice is her Pursuant to V operation on State: County:	eby given: Vest Virginia Code § 22-6A-16(c).	notice urpose	is hereby given that the formula of drilling a horizonta UTM NAD 8 Public Road	I well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 539089.4 4329869.2 Mare Run Road / SR 19
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needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

D. Alan Reed, P.E. Charleston, West Virginia 25305-0430 • (304) 558-3505
State Highway Engineer

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

December 27, 2021

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

Subject: DOH Permit for the Vaneck 1215 Pad, Lewis County Vaneck 1215 S-12H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #07-2021-0333 which has been issued to HG Energy II Appalachia, LLC for access to the State Road for a well site located off Lewis County Route 10/9 SLS MP 1.40.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Diane White

HG Energy II Appalachia, LLC

CH, OM, D-6

File

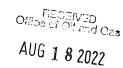
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HG Energy II Appalachia, LLC List of Frac Additives by Chemical Name and CAS # Vaneck 1215 Well Pad (N-1H to N-6H, S-7H to S-12H)

·		
Chemical Name	CAS#	Multiple CAS #'s
Pro Shale Slik 405	Mixture	68551-12-2
		7647-14-5
		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
		68607-28-3
		107-21-1
		111-76-2
		67-56-1
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
		1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
BIO CLEAR 2000	Mixture	25322-68-3
BIO GLE III 2000		10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
FRODREAK 4	WINTE	107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	







USA NAD BY 19 (1997)292 Les: NAD 89 - 80 (2897)276 Les: NAD 27 PR (1997)245 Les: NAD 27 PR (1997)245 UTM (199AD 8) S - 4730(3) 27 UTM (199AD 8) S - 240(3) 24

M IT NAD 83 (m) E: 53903 Project Contacts HG Exercy LLC

Jard Striple - Onstr 100-336-2427

HG Energy, LLC 5260 Deposit Reed Particulary, WY 761 (NJ 504-420-1100 (nm 104-801-3173

Topographic Information:

We that Delinearum as provided by Palastis Environments of dated January 12, 2021

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APPROVED WVDEP OOG XXX 3/2/2022

N118 WY-S NAD SIN PTICES AS Lei NAD SIN

1215 Well Site

Site Design, Construction Plan, & Erosion and Sediment Control Plans HG Energy LLC Lewis County Freemans Creek District Latitude 39.11678083° Longitude -80.54815578°

Pertinent Site Information 1215 Well Site. Emergency Number: 304-269-8243 Freemans Creek District, Lewis County, WV Watershed: Middle West Fork River Watershed Site 911 Address:

HG Energy Contact Number: 304-420-1100

				int – 1215 W - Lewis Count			
Owner	TM - Farest	Well 15d	AST I'sd	Arms Rost	Terent Francis	Add Cleans	Total Disturbed
HG Energy II Appelating LLC	3C-32	0.00	0.10	9.53	0.66	4.22	6.31
Navey Heatmest III Al	30.31	0.00	0.10	455	010	3.13	2.01
Woody Lumber Co	50-70	0.00	0.00	436	0.30	5.53	10.41
H5 Everyo II Appalathus LLC	50-39	7.39	1.12	1.20	1.66	621	18.08
MG Energy- II Appalantes LLC:	505-23.1	120	0.15	0,00	0.00	100	7.01

Exhibit A: Final Design: Issue for Permitting

Middle West Fork River Watershed



Surface Owner	Tid - Parcil	Sand Length	Type
HG Energy II Appalacing LLC	50-31	2,273.00	New Attent Coad Contraction
Nuncy Haylurst 21 All	50-0.1	436.18	New Access Read Construction
Wrody Limber Co	30-30	2.623.21	New Autem Kroe Creamana
HG Energy II Appelation LLC	10.70	1,089,346	New Access Road Construction

Disturbed Area	
Well Pad Constitution	8.59
AST Pad Communion	1128
Acres Revel Construction	9.97
Topsel/ Excess Mideral	263
Additional Changes	16.8
Total Distrated Aree	41.1
Additional Informat	on
Total Wooded Arres Demoted	31.4
Total Ligner Feet of Access flood	6,41

	121	5 Well Sit	e Quantiti	178	3.75	
Dwington.	Car(CY)	T Fall (CV)	Spot ICY:	Borow (CT)	Max. Slope	I mgth of Sley-
Well lad	22,619.23	45,173,20	12309:00	-	N/A	N/A
AST RM	5,723,22	4129.16	1,500.06		N/A	N/A
Wed Pad Access Room	33,919.03	32,138,44	1,350.59	323.04	11.75%	1,450.0
AST Find Attento Food	0.00	738.16	100	738.16	1210%	11632
Toronti-Fanous Marchal Stockers	-	30,309.02		30,559 to	N/A	N/A
Tetas	93,321,43	105.051.58	16,356.63	31,247.18	-	
	Total Spould	CV3-	+14,760.53	(Exc	ous Sevil Cap	aqty)

Street and Impact Cress	Diverticity)	Streetmen 121 (LP)	Stope Fift (LF)	Coest Danzels. In LOD fl.F1	(LF)
Wildertoune W (Averso Road)	84	10	4	3.02	99.02
Welercorrect LARCASE REOUT	28	16		2.43	-37-45
Watercome T (Well Past)			123.17	37E	126.75
Waterproper Y (Well Pad)	1 .		14.15	17.34	31.39

Delineated 1	Vetland Impa	ct (Square Feet)	
Weiland (Inspect Cause)	najan	Crest Datab; in LOD (SF)	Total Impact
Welland N (Access Reed)	185 E	1,370.2	1,716
Wedland Q (Access Rootl)	207.5	941.5	1,170
(Acres Reed)	177	371.6	348.5
(Vallend Z. (Torsoil Stockysie)	liav	a	110.9

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Well Locallen Restrictions

*250 Immon existing well of developed sound and for brane, or dome

regard to relation Different	12-16
reglise set el'plans.	19-21 G1-G2
tatem.	SI M1-M2
	DI-DZ RI

Diesemption

Cover Sheet
Schedule of Quandities
Sike Notes
Pro-Construction Sike Conditions
Sike Notes
Pro-Construction Sike Conditions
Sike Soil Map
Clearing Exhibit
Pro-Versill Plan View
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Cross Sections - Acress Road
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Eardowney Dividuod Area Exhibit
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Geotri-Iniand Exhibit
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Access Road Details
Access Road Details
Access Road Details
Application Exhibit
Environ and Sections - Control Details
Access Road Details
Access Road Details
Pub Details

Description

wer Sheet Well Site District 1215

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ENERGY

THIS DOCUMENT

Kily Surveying

Approach Routes:

From I-79 near Jane Lew, WV. Traveling North on I-79, take Frem I-79 nest jane Lew, W.Y. Traveling Newth on I-79, take Euch 99 towards Inne Lew, Tum Leit ento Co Ri 7 (Gilsken Creek Rd), Yolkow Co Rd I West for 0.9 mi. Tum Leift ozin USE 11 S SOM Follow Co Rd I West for 0.9 mi. Tum Leift ozin USE 11 S SOM Follow Co Rd I West for 0.9 mi. Tum Leift ozin Height min Co Rd I (2 (Leifsoms Mill Rd), Follow Co Rt 12 for Jo mi. Tum Leif neu Co Rd I (10 Mill Rd), Follow Co Rt 13 Jan Co I mi. Tum Rigid ecto Co Rd 10 (Veiley Cloped Rd). Follow Co Rd I (10 F of 10 mi. Tum Fight east Co Rd I 129) (Marc Ron Rd) Follow Co Rd I (10 F of 1 - 5 mi. The site ernance will) he net Leif (West) side of the made

HG Energy LLC will obtain an Encountament Permit (Form MM-109) from the WV Department of Transportation, Division of Highways, prior to the commencement of any construction activities

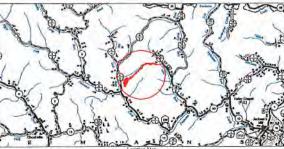
W-SNAD 318 E 3500 B 3 W-SNAD 33 N 77125 70 W-SNAD 31 N 10176 11 W-SNAD 21 N 10176 11 W-SNAD 21 N 10176 31 HAND 27 N 20180 535 Let NAD 38 - 60 547976 3 Let NAD 27 - 40 547850 6

511H WYS NAD 51 M 11 (025.52 WYS NAD 52 E 109602.54 WYS NAD 21 E 1110074.44 LIC NAD 21, 1911461960 Los NAD 27, 191160264 Lic NAD 27, 191160264

The WV Alines Website was consulted. Previous mining

WVDEP Website files show that there are
active and/or abandoned was wells within the AO

Floodplain Conditions	-
Do site compretion activities take place in a floorglain:	ND
Purroi perced from county floodplan coordinates:	NO
Flood Hazard Zone	X
HEC SAS Study completed:	Nº.A
Floredplant; thirwin on drawings;	FUA
FIRM Nep Number(s) for site 54041C	GRESE
Acres of receive tion in Breely serve 1 N/A	_



22214 STATE OF

The longeraphic information shows herein it based on arrial photography by Blue Flourisin Assed Samping, Baston, W. Know what's below. Call before you dig IT'S THE LAW

JIN 17 NADSO (GI N. S.159975 2 UMM 17 NAD 98 (GO IN S. STANDS 7 SIDEL WV-5 NAD 92 NA 2100941, 31 WV-5 NAD 92 E 2100944 81 Lei NAD 93 E 2100944 81 Lei NAD 93 NA 2164192 Lei NAD 93 NAD 93 NAD 93 NAD 93

Survey and Engineer

SOW 81412022

