

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

Friday, January 29, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re: Permit approval for FLESHER 1212 S-5H 47-041-05715-00-00

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.

James A. Martin Chief

Operator's Well Number: Farm Name: U.S. WELL NUMBER: Horizontal 6A Date Issued: 1/29/2021

Promoting a healthy environment.

API Number: 4704105715

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. <u>Failure to adhere to the specified permit</u> 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.

API	Number:	

PERMIT CONDITIONS 4704105715

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.

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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 Austin Caperton, Cabinet Secretary dep.wv.gov

ORDER ISSUED UNDER WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A

TO: HG Energy, LLC 5260 Dupont Circle Parkersburg, WV 26101

DATE: November 13, 2020 ORDER NO.: 2020-W-5

INTRODUCTION

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq*. to HG Energy, LLC (hereinafter "HG" or "Operator"), collectively the "Parties."

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

- 1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.
- 2. HG is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 5260 Dupont Circle, Parkersburg, WV 26101.
- On September 1, 2020 HG submitted a well work permit application identified as API# 47-041-05707. The well is located on the Flesher Pad in the Freemans Creek District of Lewis County, West Virginia.
- 4. On September 1, 2020 HG requested a waiver for Wetland B as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-041-05707. Wetlands Z, DD, MF, ME, MB and MD are excluded from this waiver, they are more then 100' from the LOD of the pad.

CONCLUSIONS OF LAW

- 1. West Virginia Code §22-1-6(d) requires, in part, that "in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing."
- 2. West Virginia Code §22-6A-2(a)(6) requires, in part, that "Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter."
- 3. West Virginia Code §22-6A-12(b) requires, in part, that "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 Office of Oil and Gas 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 Office of Oil and Gas 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."

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that "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. The Office of Oil and Gas grants the request for a waiver for Wetland W02 from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API#s 47-041-05707. The Office of Oil and Gas hereby **ORDERS** that HG shall meet the following site construction and operational requirements for the Flesher Well Pad:

- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height.
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs.
- c. Wetland B shall be protected by two layers of eighteen-inch (18") compost filter sock. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetlands.
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual.
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill.
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill.
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls.
- h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs.
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½") rain within any twenty-four (24) hour period.
- j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies.
- k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

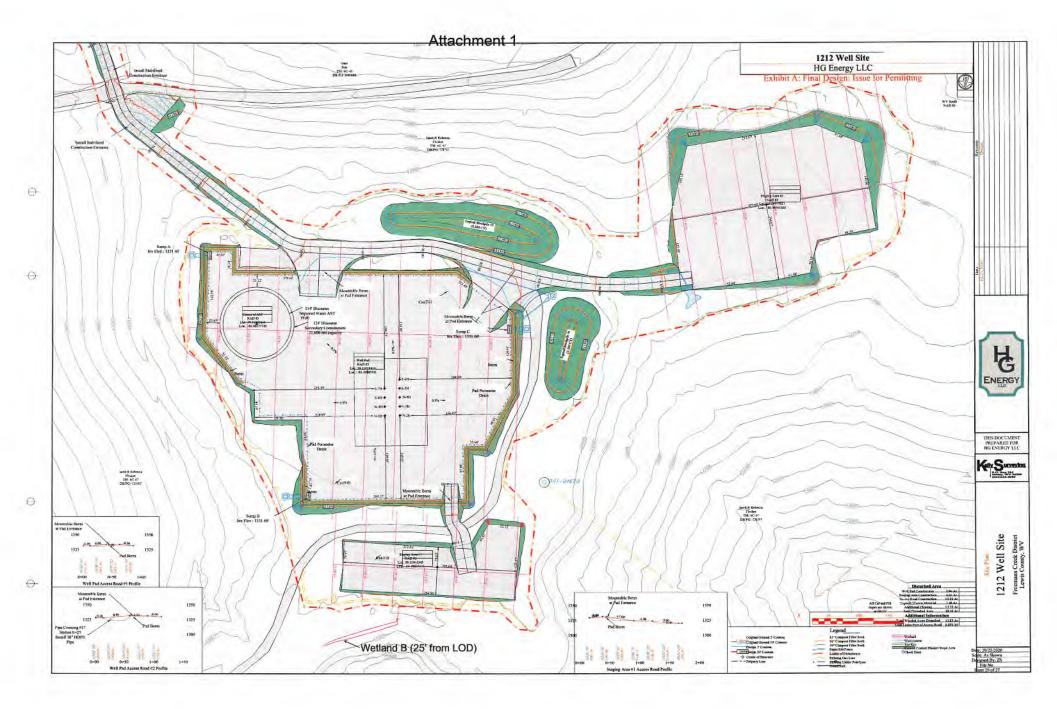
Thus ORDERED, the 13th day of November 2020.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By: James Martin Digitally signed by James Martin Date: 2020.11.13 10.42:10-0500'

JAMES A. MARTIN, CHIEF



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

OPERATOR WELL NO. Flesher 1212 S-5H Well Pad Name: Flesher 1212

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

1) Well Operator: HG Ener	gy II Appalachia	494519932	Lewis	Freemar	Weston 7.5'
r) wen operator.	0.5 11	Operator ID	County	District	Quadrangle
2) Operator's Well Number:	Flesher 1212 S-5	5H Well F	Pad Name: Fle	sher 1212	
3) Farm Name/Surface Owne	er: Flesher	Public R	oad Access: _	R19 to Kincheloe	Run Rd to Valley Chapel Rd
4) Elevation, current ground:	1338'	Elevation, propose	ed post-constru	ction: 1332'	1
5) Well Type (a) Gas <u>×</u> Other	Oil	Ur	nderground Sto	rage	
(symmetry and and	Shallow <u>×</u> Horizontal ×	Deep			
6) Existing Pad: Yes or No	No				
7) Proposed Target Formatio Marcellus at 6845'/6927' an				l Pressure(s):	
8) Proposed Total Vertical D	epth: 6925'				
9) Formation at Total Vertica		llus			
10) Proposed Total Measured	d Depth: 14719	(
11) Proposed Horizontal Leg	Length: 6333'	1.1			
12) Approximate Fresh Wate	er Strata Depths:	105', 273', 30	2'		
13) Method to Determine Fre	esh Water Depths:	Nearest offset v	vell data, (47-	041-5338, 0	218)
14) Approximate Saltwater D	Depths: 1028' (N	earest offset well o	lata, 47-041-1	373)	
15) Approximate Coal Seam	Depths: 420', 525'	830' (Surface casing i	s being extended	to cover the coa	al in the DTI Storage Field)
16) Approximate Depth to Po	ossible Void (coal	mine, karst, other)	: None		
17) Does Proposed well locat directly overlying or adjacen				No X	RECEIVED Office of Oil and Gas
			· · · · · · · · · · · · · · · · · · ·		DEC 28 2020
(a) If Yes, provide Mine Int	fo: Name: Depth:				WV Department of Environmental Protection
	Seam: Owner:				
	O wildi				

Bang Stiller 12-18-20

Page 1 of 3

API NO. 47-04105715

Well Pad Name: Flesher 1212

OPERATOR WELL NO. Flesher 1212 S-5H

WW-6B

(04/15)

18)

CASING AND TUBING PROGRAM

ТҮРЕ	<u>Size</u> (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	<u>Weight per ft.</u> (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> <u>(Cu. Ft.)/CTS</u>
Conductor	30"	New	LS	157.5	120'	120'	Drilled In
Fresh Water/Coal	20"	NEW	J-55	94	1000'	1000'	CTS
Intermediate 1	13 3/8"	NEW	J-55 BTC	68	2100'	2100'	CTS
Intermediate 2	9 5/8"	NEW	J-55 BTC	40	2900'	2900'	CTS
Production	5 1/2"	NEW	P-110 HP	23	14719'	14719'	CTS
Tubing			1.				
Liners	1.0		·				

ТҮРЕ	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	<u>Anticipated</u> <u>Max. Internal</u> <u>Pressure (psi)</u>	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	26"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate 1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Lead 40% excess, Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Lead 40% excess, Tai 9% Excess Lea
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% excess yield = 1.19, tail yield 1.94.0
Tubing							
Liners							

PACKERS

Kind:	RECEIVED Office of Oil and Gas
Sizes:	DEC 28 2020
Sizes:	WV Department of Environmental Protectio
Depths Set:	Environmental Protectio

API NO. 47			
OPERATOR WELL NO.	Flesher '	1212	S-5H
Well Pad Name: Fleshe	er 1212		
470410	57	1	5

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 6925 feet. Drill horizontal leg to estimated 6,333' lateral length, 14,719' 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): 33.17 acres

22) Area to be disturbed for well pad only, less access road (acres): 6.84 acres

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing. Freahwater/Coal - contralized every 3 joints to surface. Intermediate 1 - Bow Spring on every joint, will also be running ACP for isola Intermediate 2 - Bow Spring on tervel joint, will also be trunning ACP for isola Intermediate 2 - Bow Spring on tervel joints then overy third joint to 100 from Surfacetion. R and I to sind centralized revers 5 joints from the top of the curve

from surface. rve to surface. Run 1 spiral centralizer every 3 joints from the 1st 5.5" long joint to the top of the curve

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

Conductor -N/A, Casing to be drilled in w/ Dual Rotary Rig. Fresh Water/Coal - 15.6 ppg PNE-1 + 3% bwoc CaCl, 40% Intermediate 1 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl, 4 Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl, 4 Production - Lead: 14.5 ppg PO2.PNE-1 + 0.3% bwoc RaCl Excess Yield = 1.20, CTS 10% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS 10% Excess, Tail: 15.9 ppg, PNE-1 + 2.5% bwoc CaCl, zero% Excess, CTS 1% bwoc CG-1 v0.75 gallsk FP13L + 0.3% bwoc MPA170, Tail: 14.6 ppg PNE-1 c MPA170 20% Excess, Lead Yield=1.19, Tail Yield=1.94, CTS

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD. Fresh Water/Coal - Once casing is at setting RECEIVED Office of Oil and Gas Intermediate 2 Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole vo Production - Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until ret DEC 28 2020 W Department of **Environmental Protection** +

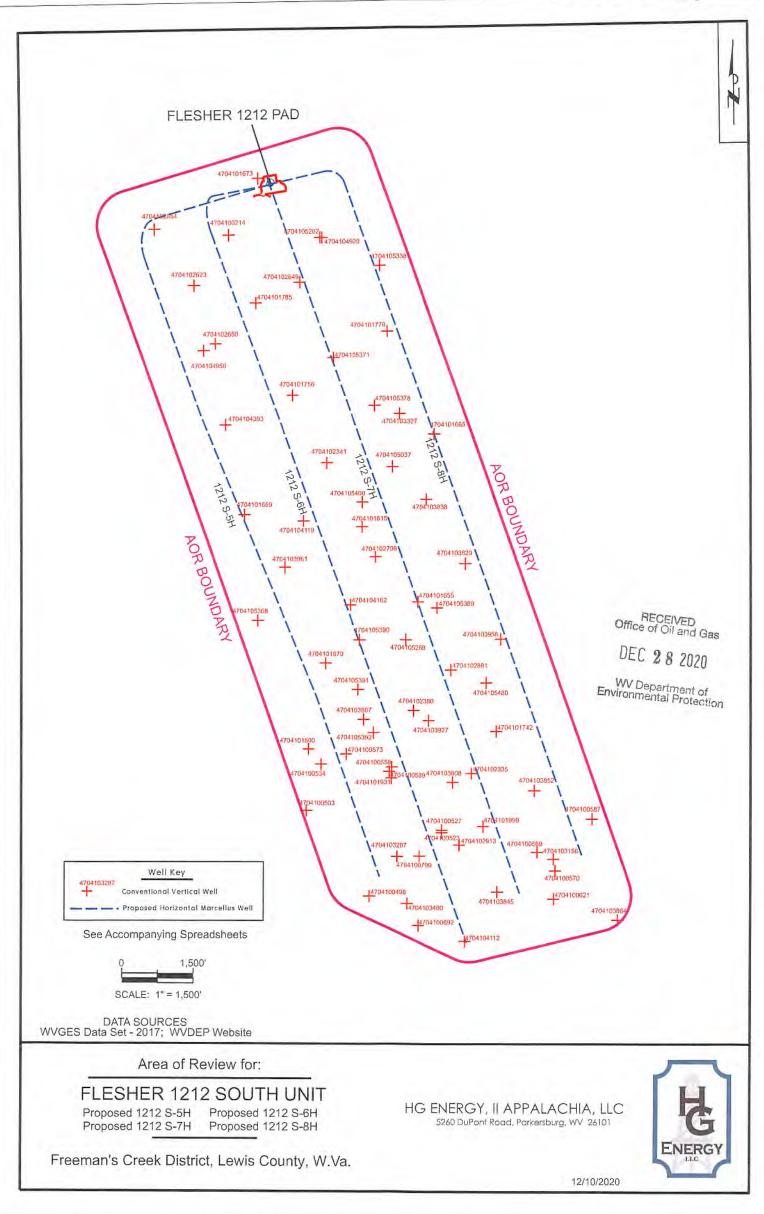
*Note: Attach additional sheets as needed.

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HG Energy II Appalachia, LLC Flesher 1212 Well Pad (N-1H, N-2H, N-3H, N-4H, N-9H, S-5H, S-6H, S-7H, S-8H) Cement Additives Cement Additives 4 7 0 4 1 0 5 7 1 5

Material Name	Material Type	Material Description Premium NE-1 is a	CAS #	%	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide	1-5	1305-78-8
		strength properties.	Magnesium oxide	1-5 0.1-1	1309-48-4 14808-60-7
remium NE-1	Portland Cement		Crystalline silica: Quartz (SiO2)	Direr	11000 00 1
		Commonly called gel, it is			
		a clay material used as a	Ingredient name	%	CAS number
		cement extender and to	bentonite	90 - 100 5 - 10	1302-78-9 14808-60-7
		control excessive free	Crystalline silica: Quartz (SiO2)	15-10	14808-00-7
entonite	Extender	water.			
Shionic	Enteringor				
		A powdered, flaked or	Ingredient name	1/2	CAS number
		pelletized material used	Calcium chloride	90 - 100	10043-52-4
		to decrease thickening time and increase the rate	euronae		
		of strength development			
alcium Chloride	Accelerator				
		Graded (3/8 to 3/4 inch)	Ingredient name	%	CAS number
		cellophane flakes used as	No hazardous ingredient		
		a lost circulation material.	ine nazardebe ingroueitt		
ello Flake	Lost Circulation				
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in	Ingredient name	%	CAS number
		cementing operations. It	Tributyl phosphate	90 - 100	126-73-8
		is very effective minimizing air	mouth hurshiere	00 / 100	
		entrapment and			
		preventing foaming			
		tendencies of latex			
	and a second	systems.			
P-13L	Foam Preventer				
		net of the state of the state	Ingredient name	%	CAS number
and the second	B. London	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
C-1		temperatures.			
		Multi-purpose polymer			
		additive used to control	Ingredient name	%	CAS number
		free fluid, fluid loss,	No hazardous ingredient	74	one number
	10.00000	rheology, and gas	The nazarooda ingredient		
1PA-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	PEGRAVED
		slurries used as either a	Calcium oxide	1 - 5	Office drontand G
		filler slurry or a sulfate			DEC Q Q DOGO
		.resistant completion cement.			DEC 28 2020
oz (Fly Ash)	Base	sertions			110.00
				Fn	WV Department of vironmental Protec
		A low temperature			
		retarder used in a wide	Ingredient name	%	CAS number
		range of slurry formulations to extend	Organic acid salt	40 - 50	Trade secret.
		the slurry thickening time.			
-3	Retarder				
				1	0.0
			Ingredient name 2-Butoxyethanol	% 20 - 30	CAS number
			2-buloxvetnanol		111-76-2
				10 - 20	Trade secret.
		Used to water wet casing	Proprietary surfactant D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	5 - 10	110615-47-9
		Used to water wet casing and formation to facilitate	Proprietary surfactant D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Alkyardsulfonate amine salt		

ERGY							£				1212 : Marcellus Sha Lewis Cor	le Horizontal		
								1212 \$	S-5H SH	IL.	14	206082.59N 17857	27.12E	
Ground	d Ele	vati	on		1332.	2'		1212	S-5H LI	2	14204561.22N 1783080.12E			
1.000.00	Azm	100112		160.539°				1212 S-5H BHL				198592.22N 17851	89.34E	
WELLBO	No. of the local distance of the local dista		M	HOLE	CASING	GEOLOGY	ТОР	BASE	MUD CEMENT		CENTRALIZERS	CONDITIONING	COMMENTS	
THEER,				HOLL	Chairia	GLOLOGI	101	BAGE	mob	GENENT	GENTIOLEADING	a cita interiora		
111					001 457 54					NUA Constante las dellas		Ensure the hole is clean at		
			x	30"	30" 157.5# LS	Conductor	0	120	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	TD.	Conductor casing = 0.5" wa thickness	
						Fresh Water	0	273		15.6 ppg PNE-1 + 3%		Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" wa	
			X	26"	20" 94# J-55	Kittaning Coal	987	992	AIR	bwoc CaCl 40% Excess	Centralized every 3 joints to surface	of one hole volume with	thickness Burst=2110 psi	
×		x			Fresh Water Protection	0	1000	1	Yield=1.20 / CTS		Fresh Water prior to pumping cement.	Burst-2110 par		
									Lead: 15.4 ppg PNE-1 +	Bow Spring on every	Once casing is at setting			
				10.00	13-3/8" 68# J-55 BTC	Big Lime	1548	1613	AIR / KCL Salt Polymer	2.5% bwoc CaCl 40% Excess / Tail: 15.9	joint	depth, Circulate and condition at TD. Circulate a	Intermediate casing = 0.480	
<		X	X	17.5"		Injun / Gantz (Storage)	1613 / 1898	1718/1958		ppg PNE-1 + 2.5% bwoc	*will also be running ACP for isolating	minimum of one hole	wall thickness Burst=3450 psi	
×		c			Intermediate 1	0	2100		CaCl zero% Excess. CTS	storage zone*	volume prior to pumping cement.			
	3	X			Fifty / Thirty Foot	2008 / 2105	2033 / 2128	3	Lead: 15.4 ppg PNE-1 +	1	Once casing is at setting	1		
			×			Gordon Stray / Gordon	2128 / 2198	2198 / 2288	AIR / KCL	2.5% bwoc CaCl	Bow Spring on first 2	depth, Circulate and	Intermediate casing = 0.395	
				12.25"	9-5/8" 40# J-55 BTC	5th Sand	2374	2416	Salt	40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc	joints then every third joint to 100' form	condition mud at TD. Circulate a minimum of one	wall thickness	
x					2-33 D10	Bayard Sand	2450	2480	Polymer	CaCl	surface	hole volume prior to	Burst=3950 psi	
						Intermediate 2	0	2900	zero%	zero% Excess. CTS		pumping cement.		
×		x				Speechley	3078	3089	100		Due d'asies assissies		· · · · · · · · · · · · · · · · · · ·	
				8.75" Vertical		Balltown	3278	3350	AIR /		Run 1 spiral centralizer every 5 joints from the			
				0.75 Vertical		Benson	4370	4382	9.0ppg SOBM	Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc	top of the curve to surface.			
						Rhinestreet	6256	6445		EC1 + 0.75 gal/sk		Once on bottom/TD with	1 C 10 C	
			Щ			Cashaqua	6445	6526		FP13L + 0,3% bwoc MPA170		casing, circulate at max allowable pump rate for at	Production casing = 0.415	
x		x	WV Depar Environmenta	DEC 2.8	5-1/2"	Middlesex	6526	6625		Tail: 14.8 ppg PNE-1 +		least 2x bottoms up, or until	wall thickness	
			VD	- 9.5" Chat	23# P-110 HP	West River	6625	6660	11.5ppg- 12.5ppg	0.35% bwoc R3 + 0.75 gal/sk FP13L + 50%		returns and pump pressures indicate the hole	Burst=16240 psi Note:Actual centralizer	
			epa	2 OF	CDC HTQ	Burkett	6660	6751	SOBM	bwoc ASCA1 + 0.5%	Run 1 spiral centralizer	is clean. Circulate a	schedules may be changed due to hole conditions	
			alp	10 m S		Tully Limestone	6751	6815	1	bwoc MPA170 20% Excess	every 3 joints from the 1st 5.5" long joint to the	minimum of one hole volume prior to pumping	due to noie conditions	
		5.1	ent	and c		Hamilton	6815	6753		Lead Yield=1.19 Tail Yield=1.94	top of the curve.	cement.		
			artment of tal Protection	0 as		Marcellus	6845	6927	44 5	CTS				
			non	8.5" Lateral		TMD / TVD (Production)	14719	6925	11.5ppg- 12.5ppg SOBM					
×		X				Onondaga	6927							
				X	Х	Х	X	-	Х	Х	Х	X X	X	
			LP @ 69:	25' TVD / 8386' MD			8.5" Hole - Cemente 5-1/2" 23# P-110 H				+/-633	33' ft Lateral	TD @ +/-6925' TVD +/-14719' MD	
	Х		-	X	X	х	X		X	Х	X	X	X=centralizers	



СТ	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4704100214	Lewis	Geo Norris	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2275	ACTIVE	39.115382	-80.490758
2	4704100498	Lewis	L Bailey 1	Deran Resources, Inc.	Up Devonian	Gas	2211	ACTIVE	39.077335	-80.480659
3	4704100503	Lewis	J J Bailey 2	Geo Energy,LLC	Price Fm & equivs	Gas w/ Oil Show	1385	ACTIVE	39.082266	-80.485313
4	4704100523	Lewis	Hope McDonald et al 1	Hays & Company	Price Fm & equivs	Gas w/ Oil Show	1750	PLUGGED	39.080961	-80.475265
5	4704100527	Lewis	B B Butcher 1	Lippizan Petroleum, Inc.	Price Fm & equivs	Gas w/ Oil Show	1410	ACTIVE	39.081106	-80.475265
6	4704100534	Lewis	Georg Dean 2	Geo Energy,LLC	Price Fm & equivs	Gas	1381	ACTIVE	39.084922	-80.48419
7	4704100558	Lewis	Doyle Butcher et al 2	Lippizan Petroleum, Inc.	Price Fm & equivs	Gas	1364	ACTIVE	39.084632	-80.47954
8	4704100569	Lewis	W W Chapman 1	Clem Energy, LLC	Unkown	Gas		ABANDONED	39.079798	-80.46819
9	4704100570	Lewis	W W Chapman 1	Law, David W.	Price Fm & equivs	Gas	1363	ABANDONED	39.079511	-80,46633
10	4704100573	Lewis	Clete Butcher et al 1	Bower, Hall and Wetzel	Price Fm & equivs	Gas	1441	PLUGGED	39.085502	-80.48233
11	4704100587	Lewis	Clay Maxwell Jr 1	Cohen, Henry	Big Injun (Grnbr)	Gas w/ Oil Show	1368	PLUGGED	39.081686	-80.46410
12	4704100589	Lewis	Doyle Vutcher 3	Law, David W.	Conemaugh Group	Dry w/ Gas Show	435	PLUGGED	39.084342	-80.47917
13	4704100621	Lewis	W W Riggs 1	Tower Service Company	Price Fm & equivs	Gas	1410	PLUGGED	39.077105	-80.46698
14	4704100799	Lewis	Carl Harrison 1	Bagwell & Trader	Price Fm & equivs	Gas	1360	ABANDONED	39.079613	-80.47693
15	4704101615	Lewis	Sophia Butcher	Dominion Energy Transmission, Inc.	Benson	Gas	4210	ACTIVE	39.098539	-80.48104
16	4704101655	Lewis	Sophia Butcher	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	4120	ACTIVE	39.094203	-80.47694
17	4704101665	Lewis	Charles F Bailey	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4250	ACTIVE	39.103826	+80.47564
18	4704101669	Lewis	Charles I Bailey	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4110	ACTIVE	39.099278	-80.48978
19	4704101670	Lewis	J W Norris	Alliance Petroleum, Co., LLC	Benson	Gas	4425	ACTIVE	39.090722	-80.48382
20	4704101673	Lewis	Cecil I Dempsey	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4509	ACTIVE	39.118627	-80,48853
21	4704101742	Lewis	WV University Board of Gov	Alliance Petroleum, Co., LLC	Benson	Gas	4205	ACTIVE	39.086743	-80.47117
22	4704101756	Lewis	W E Carpenter	Dominion Energy Transmission, Inc.	Benson	Gas	4220	ACTIVE	39.106120	-80.48615
23	4704101779	Lewis	C F Bailey	Dominion Energy Transmission, Inc.	Benson	Gas	4446	ACTIVE	39.109755	-80.47906
24	4704101785	Lewis	C L Hitt	Dominion Energy Transmission, Inc.	Benson	Gas	4440	ACTIVE	.39.111471	-80.48880
25	4704101800	Lewis	George W Dean Jr	Greylock Conventional, LLC	Benson	Gas	4305	ACTIVE	39.085792	-80.48512
26	4704101931	Lewis	Doyle Butcher 3	Lippizan Petroleum, Inc.	Benson	Gas	4163	ACTIVE	39.084052	-80.4799:
27	4704101999	Lewis	Granville Butcher	Mountain, LLC	Fifth	Gas	4436	ACTIVE	39.081302	-80.47219
28	4704102335	Lewis	G Butcher	Alliance Petroleum, Co., LLC	Hampshire Grp	Gas	2575	ACTIVE	39.084342	-80.47303
29	4704102341	Lewis	and the second	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4280	ACTIVE	39,102228	-80.48364
30	4704102380	Lewis	Burt Keister		Hampshire Grp	Gas	2000	ACTIVE	39.087967	-80.4773
31	4704102623	Lewis		Dominion Energy Transmission, Inc.	Unkown	Storage		ACTIVE	39.112510	-80,4933
32	4704102649	Lewis	George Norris	Dominion Energy Transmission, Inc.	Unkown	Storage	1 - 4 - 1	ACTIVE	39.112620	-80.4855
33	4704102650	Lewis		Dominion Energy Transmission, Inc.	Unkown	Storage	-	ACTIVE	39.109140	-80.4918
34	4704102709	Lewis	Ira L. Queen al Prent Sophia Butcher Othern	Consolidated Gas Supply Corp.	Unkown	not available		ABANDONED	39.096803	-80.4800

1				FIELD SURVEYS						
09	4704105480	Lewis	WV University Board of Gov	Devonian Gas Production	Benson	Gas	4248	ACTIVE	33.003310	-00,47101
68 69	4704105408	Lewis	Deborah D Hunt	Dominion Energy Transmission, Lac.	Greenland Gap Fm	Gas	3386	ACTIVE	39.100004 39.089518	-80.48141
67	4704105392	Lewis	Mary Lou Curry	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	2531	ACTIVE	39.086712	-80.48029
66	4704105391	Lewis	Mary Lou Curry	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	2531	ACTIVE	39.089187	-80.48143
65	4704105390	Lewis	Mary Lou Curry	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	2480	ACTIVE	39.092043	-80.48129
64	4704105389	Lewis	Lee Matthew McWhorter	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	2244	ACTIVE	39.093854	-80.4755
63	4704105378	Lewis	Charles F Bailey	Dominion Energy Transmission, Inc.	Price Fm & equivs	Gas	1777	ACTIVE	39.105497	-80.4800
62	4704105371	Lewis	Scott A Carpenter	Dominion Energy Transmission, Inc.	Price Fm & equivs	Gas	1530	ACTIVE	39.108271	-80.4830
61	4704105368	Lewis	Edward Earl Garrett	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	4470	ACTIVE	39.093188	-80.4888
60	4704105338	Lewis	Fred A Bailey	Dominion Energy Transmission, Inc.	Price Fm & equivs	Gas	1683	ACTIVE	39.113523	-80.4795
59	4704105269	Lewis	Edwin Lee Bowyer II	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	4160	ACTIVE	39.092028	-80.4778
58	4704105262	Lewis	Charles Bailey	Dominion Energy Transmission, Inc.	Weir	Gas	1776	ACTIVE	39.115179	-80.4839
57	4704105037	Lewis	Kenneth L Hunt	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	3561	ACTIVE	39.101975	-80.4787
56	4704104958	Lewis	Richard W Dunham	Dominion Energy Transmission, Inc.	Misc Sands-BNSN/BRLR	Gas	4449	ACTIVE	39.108761	-80.4927
55	4704104920	Lewis	Charles Bailey	Dominion Energy Transmission, Inc.	Misc Sands-BNSN/BRLR	Gas	4579	ACTIVE	39.115176	-80.4838
54	4704104393	Lewis	Richard D Carpenter	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4312	ACTIVE	39.104455	-80.4911
53	4704104162	Lewis	Michael L/Judy K Huntz	Berry Energy, Inc.	Greenland Gap Fm	Gas	4210	ACTIVE	39.094058	-80.4819
52	4704104119	Lewis	Patricia Jo Beeson 1	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	4190	ACTIVE	39.098896	-80.4853
51	4704103961	Lewis	John Norris	Enervest Operating, LLC	Benson	Gas	4280	ACTIVE	39.096233	-80.4868
50	4704103956	Lewis	WV Board of Control	Devonian Gas Production, Inc.	Greenland Gap Fm	Gas w/ Oil Show	4230	ACTIVE	39.092028	-80.4708
49	4704103927	Lewis	Word of Life Christians	Diversified Resources, Inc.	Benson	Gas	4170	ACTIVE	39.087387	-80.4761
48	4704103864	Lewis	Vivian Thompson 1	Alliance Petroleum, Co., LLC	Benson	Gas	4225	ACTIVE	39.075885	-80.4622
47	4704103852	Lewis	Patricia Hall	Alliance Petroleum, Co., LLC	Benson	Gas	4264	ACTIVE	39.083327	-80.4683
46	4704103845	Lewis	Alva Butcher	Alliance Petroleum, Co., LLC	Benson	Gas	4984	ACTIVE	39.077626	-80.4707
45	4704103838	Lewis	Charles F. Bailey	Dominion Energy Transmission, Inc.	Benson	Gas	4314	ACTIVE	39,100088	-80,4762
44	4704103829	Lewis	David Hamrick	Alliance Petroleum, Co., LLC	Brallier	Gas	57.91	ACTIVE	39.096668	-80,4732
43	4704103808	Lewis	Amy B Dent	Alliance Petroleum, Co., LLC	Brallier	Gas	5980	ACTIVE	39.084487	-80.4741
42	4704103807	Lewis	Martha Carpenter	Alliance Petroleum, Co., LLC	Brallier	Gas	6050	ACTIVE	39.087478	-80.4810
41	4704103490	Lewis	Martha Queen 1-A	Prince Petroleum, Inc.	Benson	Gas	4287	ABANDONED	39.076900	-80.4778
40	4704103327	Lewis	Rizpah B Carpenter	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	2380	PLUGGED	39.105009	-80.4782
39	4704103287	Lewis	Michael F Tierney Jr et al	Alliance Petroleum, Co., LLC	Brallier	Gas	5891	ACTIVE	39.079584	80.4785
38	4704103156	Lewis	John F Wyant 1	Clem Energy, LLC	Elk	Gas	5757	ACTIVE	39.078351	-80.4663
37	4704102913	Lewis	John J Oldaker III	Jackson Fuel Corporation	Benson	Gas	4384	ACTIVE	39.080236	-80.47396
36	4704102881	Lewis	WVU Board of Governors	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	4250	ACTIVE	39.090287	-80.4745
35	4704102854	Lewis	J S Norris	Dominion Energy Transmission, Inc.	not available	Storage	· · · · · · · ·	ACTIVE	39.115783	-80.49627

Dil and Gas 8 2020 Protection

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						SP6	1	- M.	14

WW-9	1100/10
(4/16)	API Number 47
DEPARTMENT OF OFFI	Operator's Well No. Flesher 1212 S-5H E OF WEST VIRGINIA ENVIRONMENTAL PROTECTION ICE OF OIL AND GAS
	DISPOSAL & RECLAMATION PLAN
Operator Name_HG Energy II Appalachia, LLC	OP Code 494501907
Watershed (HUC 10) Middle West Fork Creek	Quadrangle Weston 7.5'
Do you anticipate using more than 5,000 bbls of water to Will a pit be used? Yes No Vo	
If so, please describe anticipated pit waste: N	A.
Will a synthetic liner be used in the pit? Yes	No V If so, what ml.?
Proposed Disposal Method For Treated Pit Was	tes:
Land Application	
Underground Injection (UIC	
Reuse (at API Number TBD-	
Off Site Disposal (Supply for Other (Explain	m WW-9 for disposal location)
Will closed loop system be used? If so, describe: Yes, cutti	ings and fluids will be collected in a closed loop system, re-used or hauled to an approved disposal site or landfill.
	prizontal)? Air, freshwater, oil based, etc. Vortical - Air, Air/KCL, Air/SOBM, Horizontal - SOBM
-If oil based, what type? Synthetic, petroleum, of Additives to be used in drilling medium? Water, Soap, K0	CI, Barite, Base Oil, Wetting Agents
Drill outtings disposed method? Leave in nit landfill rer	DEC 2 9 20

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

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

-Landfill or offsite name/permit number? See Attached

My commission expires 11/2/2021

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

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

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

Company Official Signature	Diane 1	white		
Company Official (Typed Name)	Diane White			
Company Official Title	Agent			
Subscribed and sworn before me t	his 15th	day of December	, 20 20	
-6611	le		Notary Public	OFFICIAL SEAL NOTARY PUBLIC: STATE OF WEST VIRGINIA MARK J SCHALL H & Energy LLC

My Commission Expires November 2, 2021 Bany Stelling 12-18-20

PO Box 5519, Vienna, WV 26105

WV Department of

Environmental Protection

Form WW-9

Operator's Well No. Flesher 1212 S-5H

roposed Revegetation Treat	ment: Acres Disturbed32.	75 Prevegetation pH	
Lime	3 Tons/acre or to correct to	opH6.5	
Fertilizer type <u>10</u>	-20-20		
Fertilizer amount	500	_lbs/acre	
_{Mulch} Hay	2 _T	ons/acre	
	emporary	<u>Seed Mixtures</u> Perma	nent
Те			
Te Seed Type	lbs/acre	Seed Type	lbs/acre
	lbs/acre 40	Seed Type Tall Fescue	lbs/acre 40

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Key Jon B.S. Ju page /	Office of Oil and Gas
Comments: Pre-seed/mulch as soon as reasonably possible per regulation.	28 2020
Upgrade E&S if needed per WV DEP E&S manual.	WV Department of vironmental Protection
	Protection
Title: Oil & Gas Inspector Date:	
Field Reviewed? () Yes () No	

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

Wáste 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 #R80-079001 05-2010 4301 Sycamore Ridge Road Hurricane, WV 25526 304-562-2611

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

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

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

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

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

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

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

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DEC **28 2020**

WV Department of Environmental Protection

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

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

Disposal Locations:

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

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

Myers Well Service, 2001 Balipark Court Export, PA 15632

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

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

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

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 43767 614-648-8898 740-796-6495 RECEIVED Office of Oil and Gas

DEC 28 2020

WV Department of Environmental Protection 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

4704105715

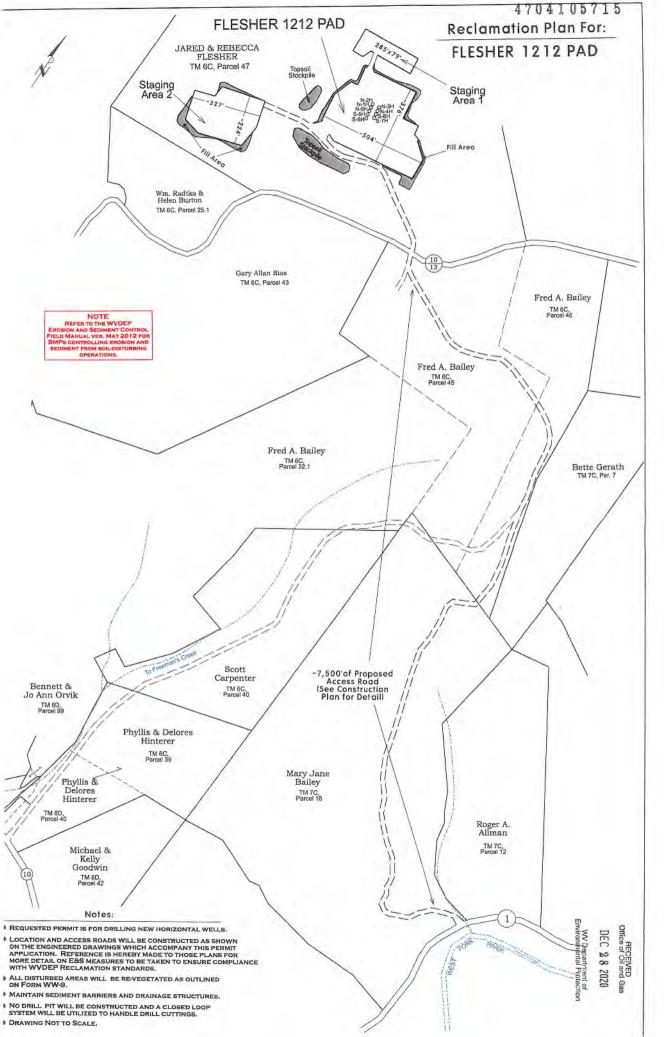
OH UIC #1. Bu keye UIC Barnesville 1 & 2 CNX Gas Con...;any, LLC 1000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-323-6568

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

Chapin #7 UIC (SWIW #7) Permit # 34-083-2-4197-00-00 Elkhead Gas& Oil Company 12163 Marne Rd. NE Newark, OH 43055 740-763-3966

Office of Oil and Gas

WV Department of Environmental Protection



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HG Energy II Appalachia, LLC

Site Safety Plan

Flesher 1212 Well Pad 630 Chapel Road Weston Lewis County, WV 26452

August 2020: Version 1

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

HG Energy II Appalachia, LLC

5260 Dupont Road

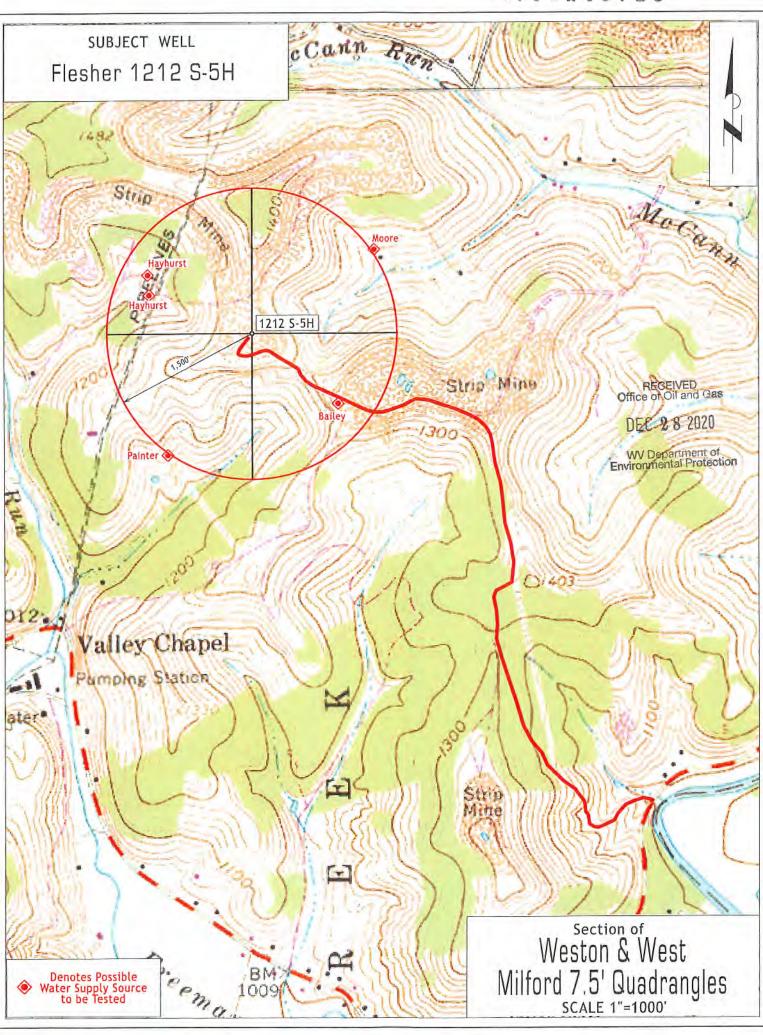
Parkersburg, WV 26101

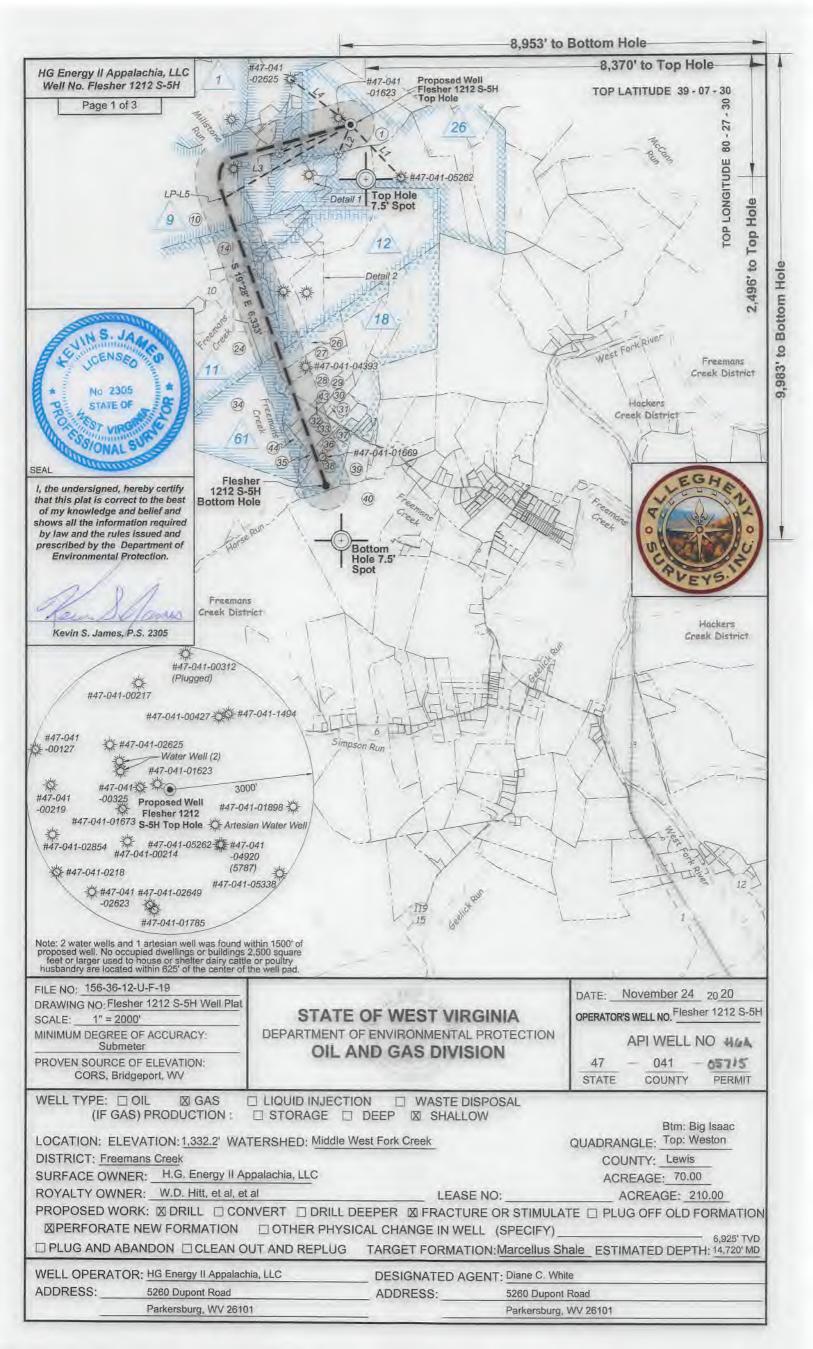
RECEIVED Office of Oil and Gas

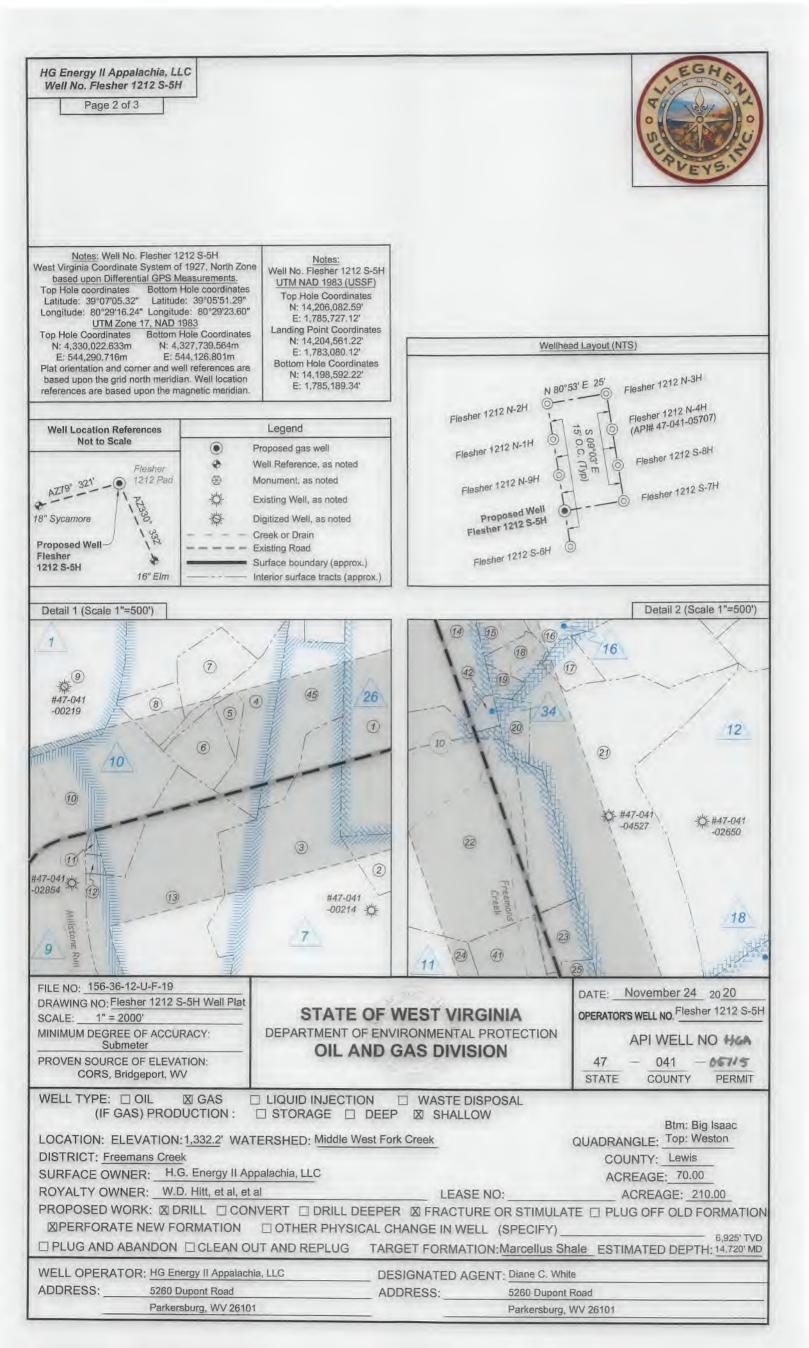
DEC 28 2020

WV Department of Environmental Protection

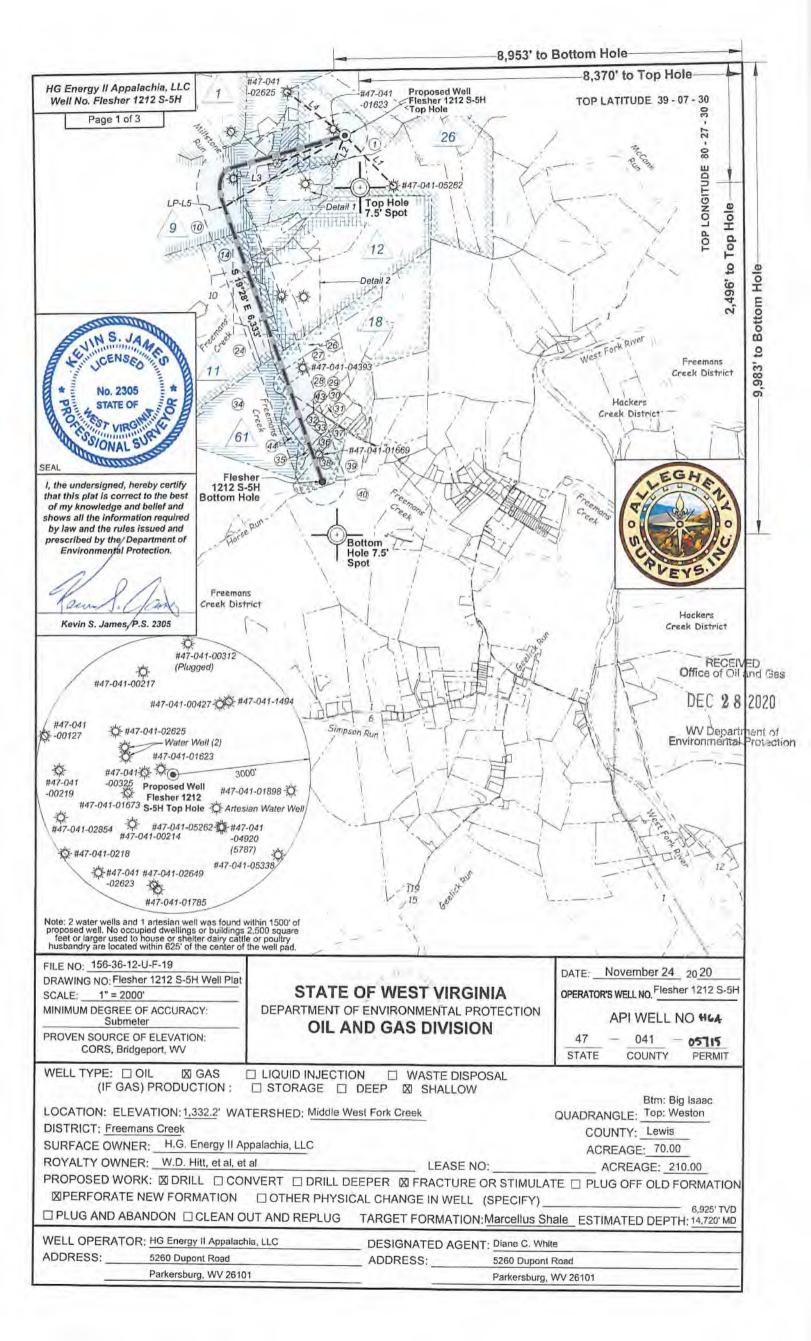
B.S. 12-18-20

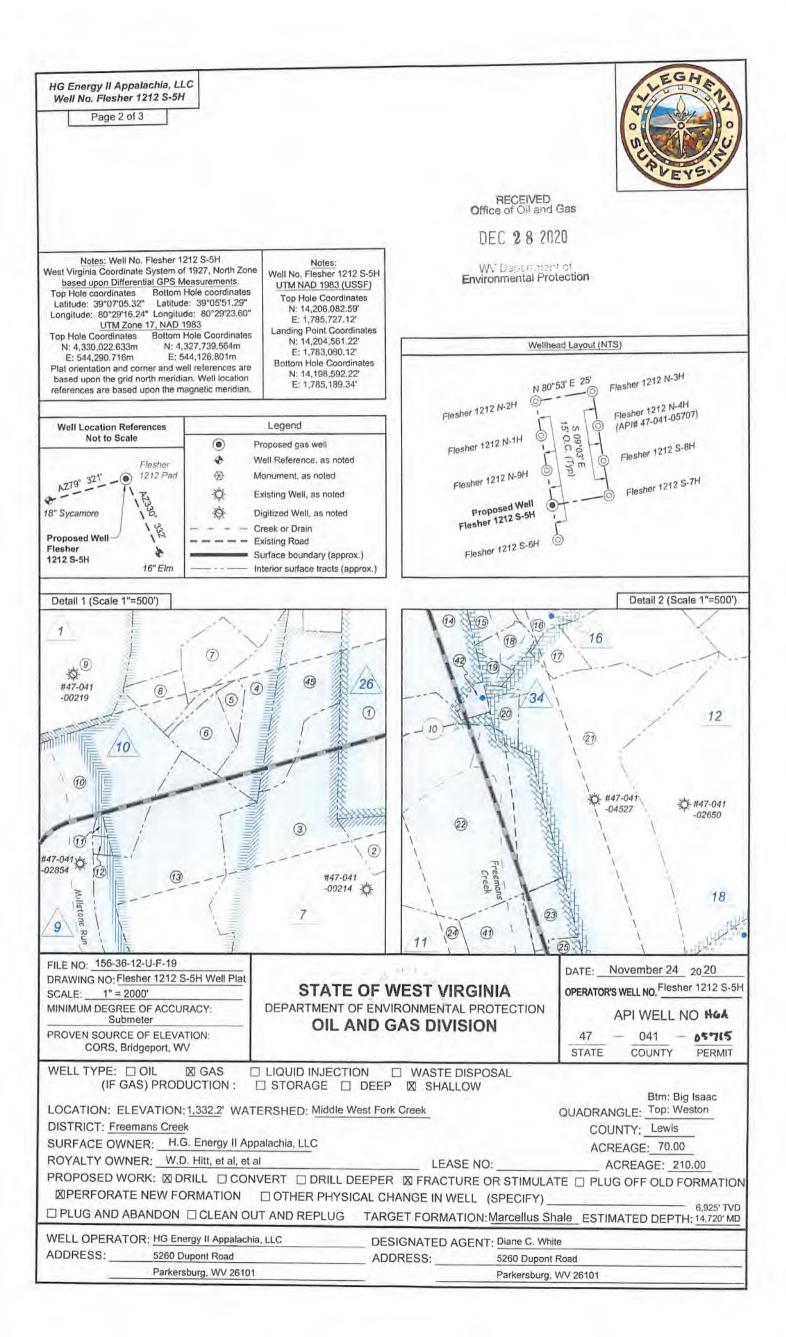






HG Energy II Appalachia, LLC Well No. Flesher 1212 S-5H Page 3 of 3		CONTRACTOR OF CONT
Lewis Co Freeman Creek Dist.No.TM / ParOwner16C / 47HG Energy II Appalachia, LLC26C / 25.1William Radtka & Helen Burton36C / 25Robert M. Painter46C / 23.4Richard G. Hayhurst, et ux56C / 23.0Gary Farris66C / 23.5Larry Jarrett & Michelle Casey96C / 23.5Larry Jarrett & Michelle Casey96C / 23.1Michael & Laura Phillips106C / 23.1Michael & Laura Phillips126C / 23.2Michael & Laura Phillips136C / 23.2Michael & Laura Phillips146C / 17Eastern Gas Transmission & Storage, Ir156C / 27.2Kenneth Roth166C / 27.3George & Lisa Cogar176C / 29Carolyn M. Sias, et al186C / 27.1Allen E. Daugherty196C / 30Richard W. Dunham206C / 14Eastern Gas Transmission & Storage, Ir236C / 14Eastern Gas Transmission & Storage, Ir246C / 12Bradford A. Taylor256C / 36Richard D. & Connie S. Carpenter (LE276C / 36Richard D. & Connie S. Carpenter (LE286C / 37Richard D. & Connie S. Carpenter (LE296D / 24Richard D. & Connie S. Carpenter (LE206D / 25Jessica L. Bailey336D / 27.1Karen Sue Carson346D / 28Alicia Sue Lang36 <th>617 / 608 265.19 445 / 493 166.25 661 / 298 0.16 661 / 298 21.32 c. 427 / 545 17.49 575 / 152 3.10 594 / 16 10.20 718 / 171 1.25 502 / 435 1.06 586 / 149 0.50 662 / 681 0.81 W11 / 100 28.52 c. 427 / 545 27.30 628 / 734 2.25 673 / 1 101.78 533 / 799 3.00 0 707 / 83 15.00 0 707 / 83 12.00 0 707 / 83 21.50 0 707 / 83 21.50 0 707 / 83 20.00 709 / 826 80.00 W31 / 530 1.68 W25 / 263 5.37 W42 / 563 1.91 W49 / 571 14.09 487 / 688 13.40 482 / 153 95.00</th> <th>Tag Bearing Dist. Description L1 N 43°30' W 1.527.6' #47-041-05262 L2 N 23°02' E 650.8' 1/2" Rebar L3 N 68°32' E 1.591.1' 1" Iron pipe L4 S 52°34' E 1.566.3' #47-041-02625 L5 S 60°07' W 3.053.1' Landing point ID Lease 1 Edwin Gaston, et al 7 Pearle A. Norris, et al 9 J.S. Norris 10 J.S. Norris 11 Abram Gaston 12 C.L. Hitt, et al 16 George Norris, et al 17 W.E. Carpenter, et al 26 W.D. Hitt, et al 34 Chas S. Paugh, et al 61 Ricky W. & Michael K. Frame</th>	617 / 608 265.19 445 / 493 166.25 661 / 298 0.16 661 / 298 21.32 c. 427 / 545 17.49 575 / 152 3.10 594 / 16 10.20 718 / 171 1.25 502 / 435 1.06 586 / 149 0.50 662 / 681 0.81 W11 / 100 28.52 c. 427 / 545 27.30 628 / 734 2.25 673 / 1 101.78 533 / 799 3.00 0 707 / 83 15.00 0 707 / 83 12.00 0 707 / 83 21.50 0 707 / 83 21.50 0 707 / 83 20.00 709 / 826 80.00 W31 / 530 1.68 W25 / 263 5.37 W42 / 563 1.91 W49 / 571 14.09 487 / 688 13.40 482 / 153 95.00	Tag Bearing Dist. Description L1 N 43°30' W 1.527.6' #47-041-05262 L2 N 23°02' E 650.8' 1/2" Rebar L3 N 68°32' E 1.591.1' 1" Iron pipe L4 S 52°34' E 1.566.3' #47-041-02625 L5 S 60°07' W 3.053.1' Landing point ID Lease 1 Edwin Gaston, et al 7 Pearle A. Norris, et al 9 J.S. Norris 10 J.S. Norris 11 Abram Gaston 12 C.L. Hitt, et al 16 George Norris, et al 17 W.E. Carpenter, et al 26 W.D. Hitt, et al 34 Chas S. Paugh, et al 61 Ricky W. & Michael K. Frame
FILE NO: 156-36-12-U-F-19 DRAWING NO: Flesher 1212 S-5H 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: November 24 2020 OPERATOR'S WELL NO. Flesher 1212 S-5H API WELL NO HGA 47 041 057/5 STATE COUNTY PERMIT
(IF GAS) PRODUCTION : LOCATION: ELEVATION: <u>1,332.2</u> ' WA' DISTRICT: <u>Freemans Creek</u> SURFACE OWNER: <u>H.G. Energy II Ap</u> ROYALTY OWNER: <u>W.D. Hitt, et al, et</u>	Depalachia, LLC al LEASE NO: NVERT DRILL DEEPER IN FRACTURE OR STIMULA OTHER PHYSICAL CHANGE IN WELL (SPECIFY) UT AND REPLUG TARGET FORMATION: Marcellus S	hale_ESTIMATED DEPTH: 14,720' MD





HG Energy II Appalachia, LLC Well No. Flesher 1212 S-5H Page 3 of 3			C SURVEYS.
Lewis Co Freeman Creek Dist. No. TM / Par Owner 1 6C / 47 HG Energy II Appalachia, LLC 2 6C / 25.1 William Radtka & Helen Burton 3 6C / 25 Robert M. Painter 4 6C / 23.4 Richard G. Hayhurst, et ux	Bk / Pg Ac. 753 / 453 70.00 655 / 681 5.85 629 / 411 23.13 565 / 326 4.13		RECEIVED Office of Oil and Gas DEC 28 2020 WV Department of Environmental Protection
5 6C / 23.10 Gary Farris 6 6C / 23.6 Gary Farris 7 6C / 23.6 Gary Farris 7 6C / 23.7 Gary C. & Brenda J. Maki 8 6C / 23.5 Larry Jarrett & Michelle Casey 9 6C / 22 Mann Family Trust 10 6C / 21 Thomas R. Zinn, et al 11 6C / 23.1 Michael & Laura Phillips 12 6C / 23.9 Michael & Laura Phillips 13 6C / 23.2 Michael & Laura Phillips 14 6C / 17 Eastem Gas Transmission & Storage, Inc 15 6C / 27.3 George & Lisa Cogar 17 6C / 29 Carolyn M. Sias, et al 18 6C / 27.1 Allen E. Daugherty 19 6C / 30 Richard W. Dunham 20 6C / 31 Chad E. Dunham	700 / 769 0.65 700 / 769 2.02 671 / 327 2.40 661 / 455 1.53 617 / 608 265.19 445 / 493 166.25 661 / 298 0.16 661 / 298 0.16 661 / 298 21.32 427 / 545 17.49 575 / 152 3.10 594 / 16 10.20 718 / 171 1.25 502 / 435 1.06 586 / 149 0.50 662 / 681 0.81	Ta L L L L	1 N 43"30' W 1.527.6' #47-041-05262 2 N 23"02' E 850.8' 1/2" Rebar 3 N 68"32' E 1.591.1' 1" Iron pipe 4 S 52"34' E 1,566.3' #47-041-02625 5 S 60"07' W 3,053.1' Landing point
21 6C / 32 Richard W. Dunham 22 6C / 14 Eastern Gas Transmission & Storage, Into 23 6C / 14 Eastern Gas Transmission & Storage, Into 23 6C / 12 Bradford A. Taylor 25 6C / 34 Richard M. Dunham 26 6C / 35 Richard D. & Connie S. Carpenter (LE) 27 6C / 36 Richard D. & Connie S. Carpenter (LE) 28 6C / 37 Richard D. & Connie S. Carpenter (LE) 29 6D / 24 Richard D. & Connie S. Carpenter (LE) 30 6D / 25 Larry & Gina F. Simon 31 6D / 25. Jessica L. Bailey 32 6D / 25.4 Jessica L. Bailey 33 6D / 27.1 Karen Sue Carson	W11 / 100 28.52 427 / 545 27.30 628 / 734 2.25 673 / 1 101.78 533 / 799 3.00 707 / 83 15.00 707 / 83 12.00 707 / 83 21.50 707 / 83 8.00 702 / 865 4.30 715 / 903 0.57 715 / 903 6.47 553 / 232 2.00		ID Lease 1 Edwin Gaston, et al 7 Pearle A, Norris, et al 9 J.S. Norris, et al 10 J.S. Norris, et al 11 Abram Gaston 12 C.L. Hitt, et al 16 George Norris, et al 18 W.E. Carpenter, et al 26 W.D. Hitt, et al 34 Chas S. Paugh, et al 61 Ricky W, & Michael K, Frame
34 6D / 23 Scott & Amy Carpenter 35 6D / 28 Alicia Sue Lang 36 6D / 28 Alicia Sue Lang 36 6D / 29 Tina M. Burnside 37 6D / 29 Tina M. Burnside 38 6D / 29.1 Mary J. Bailey Trust 39 6D / 37 Charles R. Kemper 40 6D / 55 Edward E. Garrett 41 6C / 13 Eastern Gas Transmission & Storage, Inc 42 6C / 16 Valley Chapel U.M. Church 43 6D / 25.2 WV American Water Co. 44 6D / 30 Scott & Amy Carpenter 45 6C / 23 Richard G. & Loretta E. Hayhurst FILE NO: 156-36-12-U-F-19	709 / 826 80.00 W31 / 530 1.68 W25 / 263 5.37 W42 / 563 1.91 W49 / 571 14.09 487 / 688 13.40 482 / 153 95.00 427 / 545 6.57 7 / 285 0.33 583 / 337 0.01 709 / 826 3.93 566 / 355 34.80		November 24 as 20
DRAWING NO; Flesher 1212 S-5H Well Plat SCALE:	STATE OF WE DEPARTMENT OF ENVIRON OIL AND GAS	MENTAL PROTECTION	DATE: <u>November 24</u> 20 20 OPERATOR'S WELL NO. Flesher 1212 S-5H API WELL NO #64 <u>47</u> - <u>041</u> - <u>05715</u> STATE COUNTY PERMIT
(IF GAS) PRODUCTION : LOCATION: ELEVATION: <u>1,332.2</u> ' WAT DISTRICT: <u>Freemans Creek</u> SURFACE OWNER: <u>H.G. Energy II Ap</u>	palachia, LLC	SHALLOW	Btm: Big Isaac QUADRANGLE: Top: Weston COUNTY: Lewis ACREAGE: 70.00
ROYALTY OWNER:W.D. Hitt, et al, et PROPOSED WORK: I DRILL I CON IPERFORATE NEW FORMATION PLUG AND ABANDON I CLEAN OF WELL OPERATOR: HG Energy II Appalach	VERT DRILL DEEPER X OTHER PHYSICAL CHAN JT AND REPLUG TARGET	FRACTURE OR STIMULAT GE IN WELL (SPECIFY)	6,925' TVD ale_ESTIMATED DEPTH: 14,720' MD
ADDRESS: 5260 Dupont Road Parkersburg, WV 2610	ADDRE		Road

WW-6A1 (5/13) Operator's Well No. Flesher 1212 S-5H

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

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						

RECEIVED Office of Oil and Gas

DEC 28 2020

WV Department of Environmental Protection

Page 1 of _____

				HG Energy II Appalachia, LLC - Fleshe	1212 S-5H LEASE CHAIN									
RACT #1212S	LEGACY LEASE NUMBER	ΤΑΧ ΜΑΡ	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE						
				W. D. HITT AND ALDA HITT, HIS WIFE; J. C. HITT AND DORA HITT, HIS										
				WIFE; L.A. MCCARTY AND F. R. MCCARTY, HER HUSBAND; GEORGE W.										
				NEELY AND GRACE M. NEELY, HIS WIFE	RESERVE GAS COMPANY	NOT LESS THAN 1/8	68	524						
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	20						
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	8						
		03-006C-0045-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	12						
		03-006C-0046-0000		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS							
		03-006C-0053-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS							
		03-006C-0054-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	1						
26	FK053270	03-007C-0007-0000	Q100675000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684							
		p/o 03-006C-0043-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	84						
		p/o 03-006C-0043-0001		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717							
		p/o 03-006C-0047-0000	5	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	1						
		Gas	L H	DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS							
		nd Ga 2020	ment of Protection	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	4						
									1 <u>1</u>			THIRD AMENDMENT TO MEMORANDUM OF		
			epartr ental	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	5						
		с С	ă E	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736							
		Office			PEARLE A. NORRIS AND EDNA N. PAUGH AND CHAS. S. PAUGH, HER									
		L file	≦≅	HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	219							
		0	DEC	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294							
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	1						
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS							
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS							
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672							
		03-006C-0025-0000;		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684							
7	FK064074	03-006C-0025-0001;	Q100293000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712							
· /	11004074	P/O 03-006C-0023-0000;	Q100255000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717							
		P/O 03-006C-0043-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722							
			1	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722							
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF	WVSOS							
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT THIRD AMENDMENT TO MEMORANDUM OF	723							
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734							
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736							
				J. S. NORRIS AND GEO. NORRIS AND L. N. NORRIS, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42							
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85							
	· ·			HOPE NATURAL GAS COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79	<u> </u>						
				SOUTH PENN OIL COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79							
		03-006C-0023-0000.		RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155							
		03-006C-0023-0001,		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294							
		03-006C-0023-0001,		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425							
1		03-006C-0023-0002, 03-006C-0023-0003,		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS							
		03-006C-0023-0003,		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS							
		03-006C-0023-0004,		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672							
10	FK053181	03-006C-0023-0005,	Q101024000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684							
		03-0060-0023-0008,		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712							

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1	T	05-000-0025-0007,	[CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
		03-006C-0023-0008,		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
		03-006C-0023-0009,		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
		03-006C-0023-0010,		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		03-006C-0021-0000				SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
						THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				J. S. NORRIS	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	121
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	122
				HOPE NATURAL GAS COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79	370
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	202
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		03-006C-0021-0000,		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
•	FK053129	03-006C-0021-0000,	Q100767000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
	FROJULZ	03-006C-0019-0000	053435 FEE	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
		00-000-0019-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
1	l .			NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139

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					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
					DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
n							SECOND AMENDMENT TO MEMORANDUM OF		
						HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
Ť I							THIRD AMENDMENT TO MEMORANDUM OF		
						HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
n f					ABRAHAM GASTON	RESERVE GAS COMPANY	NOT LESS THAN 1/8	68	51
					RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	20
					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	8
					CONSOLIDATED GAS SUPPLY CORPORATION O	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	12
-			03-006C-0010-0000		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
*			03-006C-0011-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
			03-006C-0012-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	15
			03-006C-0013-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	5
-			03-006C-0014-0000	Q101028000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	84
lear I	11	FK053265	03-006C-0017-0000	053390 FEE	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
•			03-006C-0018-0000	053429 FEE	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	13
		1	03-006C-0033-0000	1	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	17
			03-006C-0034-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
							SECOND AMENDMENT TO MEMORANDUM OF		
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	49
							THIRD AMENDMENT TO MEMORANDUM OF		
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	55
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	22
Γ					CHAS. S. PAUGH, ROSCOE H. JACKSON, CHAS E. ATKINS, BERTHA RADCLIFFE, AND MONA E. CARPENTER, TRUSTEES OF THE VALLEY CHAPEL EVANGELISTICAL UNITED BRETHREN CHURCH	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	219	51
					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	8
					CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	12
					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	1
					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
	34	FK064203	03-006C-0016-0000	Q100553000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	84
			03-006C-0016-0000	0019-0000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	1
					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	1
					DOMINION 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	4
1					DOMINION ENERGY TRANSPORTENT INC		THIRD AMENDMENT TO MEMORANDUM OF	734	5
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC		736	2
H					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)		1
					GEORGE NORRIS AND LAURA B. NORRIS, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	
					SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	1
					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
					CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	1
					CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
			03-006C-0027-0001		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
			03-006C-0027-0002		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	
	16 FK053173		03-006C-0027-0002		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
		03-006C-0027-0004	Q100671000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712		
		1.055175	03-006C-0030-0000	G100011000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
		1	03-008C-0030-0000	1	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	

		p/0 05-0000-0045-0000	[NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722		
		p/o 03-006C-0043-0001		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS		
		l				SECOND AMENDMENT TO MEMORANDUM OF			
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723		
						THIRD AMENDMENT TO MEMORANDUM OF			
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736		
				C. L. HITT, B. J. HITT, S. A. HITT, ELIZA A. HITT, AND LUCY M. HITT	RESERVE GAS COMPANY	NOT LESS THAN 1/8	68		
					HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155		
				RESERVE GAS COMPANY		CONFIRMATORY DEED	294		
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION		425		
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	WVSOS		
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE			
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos		
		03-006C-0028-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672		
		03-006C-0029-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684		
12	FK053269	03-006C-0032-0000	Q100338000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712		
12	PK055209	03-006C-0032-0001	Q100338000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717		
		p/o 03-006C-0031-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722		
		p/o 03-006C-0043-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722		
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS		
						SECOND AMENDMENT TO MEMORANDUM OF			
		1		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723		
						THIRD AMENDMENT TO MEMORANDUM OF			
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736		
· · ·		p/o 03-006C-0035-0000		W. E. CARPENTER AND MONA E. CARPENTER, HIS WIFE; C. W. SHUTTS					
		03-006C-0036-0000							
		03-006C-0037-0000		AND MARGARET SHUTTS, HIS WIFE, EACH IN THEIR OWN RIGHT;					
		03-006C-0038-0000		CREED L. SHUTTS AND MONA LEE SHUTTS, HIS WIFE, EACH IN THEIR					
		03-006C-0038-0001 03-006C-0040-0000	03-005C-0038-0001		OWN RIGHT; CREED L. SHUTTS AND MONA LEE SHUTTS, HIS WIFE;				
					NINA G. ALLEN, WIDOW; VIRGINIA Y. G. MCMULLEN AND T. F.				
		03-005C-0040-0001		MCMULLEN, HER HUSBAND; EDWARD D. CARPENTER AND VICTORIA					
		03-006C-0041-0000		M. CARPENTER, HIS WIFE; ARTHUR D. CARPENTER AND GLORIA R.					
		03-006C-0042-0000		CARPENTER, HIS WIFE; AND STARK D. CARPENTER AND DAISY M.					
		03-006D-0024-0000		CARPENTER, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	224		
		03-006D-0025-0000		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294		
		03-006D-0025-0002		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425		
		03-006D-0026-0000		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS		
.8	FK064858	03-006D-0026-0001	Q100600000	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS		
		03-006D-0027-0001		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672		
		03-006D-0028-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712		
	1	03-006D-0029-0000		CNX GAS COMPANY LLC	NOBLE ENERGY. INC.	ASSIGNMENT	717		
		03-006D-0029-0001		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722		
		03-006D-0030-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos		
		03-006D-0030-0001		DOMINION TRANSIVIISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF			
		03-005D-0031-0000		DOMINION ENERGY TRANSMISSION INC		FARMOUT AGREEMENT	723		
		03-006D-0032-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF			
	1	03-006D-0032-0001 03-006D-0033-0000					734		
	1	03-006D-0033-0000 03-006D-0034-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	/34		
		03-006D-0034-0001						\leq	
	1	03-006D-0035-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736		
		03-0002-0033-0000		MARGARET F. SHUTTS	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	242		
	1	1 1		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294		
						ASSIGNMENT	425		
		1							
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION				
				CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS WVSOS		

- 1					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
	61	FK066646	03-006D-0023-0000	Q100313000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139	
					DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
							SECOND AMENDMENT TO MEMORANDUM OF		
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
							THIRD AMENDMENT TO MEMORANDUM OF		
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220

Office of Oil and Gas DEC 2 8 2020 WV Department of Environmental Protection



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

4704105715

December 19, 2020

Kelly Kees WV DEP Division of Oil & Gas 601 57th Street Charleston, WV 25304

RE: Drilling Under Roads – Flesher 1212 S-5H Freemans Creek District, Lewis County West Virginia

Dear Ms. Kees:

HG Energy II Appalachia, LLC, is submitting the attached application for a new well work permit for the Flesher 1212 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 Flesher 1212 laterals will drill through including any and all roads crossed under as identified on the attached survey plat.

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

Very truly yours,

Diane White

Diane C. White

Enclosures

RECEIVED Office of Oil and Gas

DEC 28 2020

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

Date of Notice Certification: 12/21/2020

API No. 47-	-
Operator's Well No	Flesher 1212 S-5H
Well Pad Name: F	Flesher Well Pad

Notice has been given:

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

State:	West Virginia	UTM NAD 83	Easting:	544290.7
County:	Lewis	UTWINAD 05	Northing:	4330022.6
District:	Freemans Creek	Public Road Acc	cess:	Kincheloe Road / Valley Chapel Road
Quadrangle:	Weston	Generally used f	farm name:	Flesher
Watershed:	McCann Run			

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
□ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SURVEY WAS CONDUCTED	
■ 3. NOTICE OF INTENT TO DRILL or □ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED
WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION 60 60 7	RECEIVED
■ 5. PUBLIC NOTICE DEC 28 2020	RECEIVED
6. NOTICE OF APPLICATION WV Department of Environmental Protection	

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)

4704105715

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 Addr		Address:	5260 Dupont Road
By:	Diane White Diane White		Parkersburg, WV 26101
Its:	Agent	Facsimile:	304-863-3172
Telephone:	304-420-1119	Email:	dwhite@hgenergyllc.com
	OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC CASSIDY A. BOARDMAN		corn before me this 21th day of December, 2020 Carry Kachen Notary Public xpires -131 (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 <u>depprivacyofficer@wv.gov</u>.

Office of Oil and Gas

DEC 28 2020

API NO. 47-OPERATOR WELL NO. Flasher 12/12 NJ-114 to 5/ 8H Well Pad Name: Flasher 12/12

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

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

Date of Notice: 08/29/20 Date Permit Application F	Filed:	09/01/20	
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24	1.4	
IN	otice	of:
	oure	

\checkmark	PERMIT FOR ANY	CERTIFICATE OF APPROVAL FOR THE
	WELL WORK	CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

PERSONAL	REGISTERED	METHOD OF DELIVERY THAT REQUIRES	A
SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION	4

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

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

☑ SURFACE OWNER(s)	COAL OWNER OR LESSEE	
Name: HG Energy II Appalachia, LLC (Pad and Road)	Name:	
Address: 5260 Dupont Road	Address:	
Parkersburg, WV 26101	REG	EIVED
Name:	COAL OPERATOR	Dil and Gas
Address:	Name: DEC 9	8 2020
	Address: DLU Ø	0 2020
SURFACE OWNER(s) (Road and/or Other Disturbance)		artment of
Name: Fred Bailey (also surface owner of water well)		tal Protectio
Address: 4853 Old Mill Road	AND/OR WATER PURVEYOR(s)	
Jane Lew, WV 26378	Name: Robert Painter	
Name: Phyllis L & Dolores A Hinterer	Address: 445 Millstone Road	
Address: P. O. Box 730	Weston, WV 26452.	
Jane Lew, WV 26378	OPERATOR OF ANY NATURAL GAS STORAGE FIEL	D
□ SURFACE OWNER(s) (Impoundments or Pits)	Name: Dominion Energy Transmission - Attn: Konald Waldren	
Name:	Address: 925 White Oaks Blvd	
Address:	Bridgeport, WV 26330	
	*Please attach additional forms if necessary	

WW-6A (9-13) WW-6A (8 - 13)

API NO. 47 17 OPERATOR WELL NO.

Well Pad Name: Flesher 1212

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 pil.

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 over Office of Oil and Gas 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 an Eate 28 2020 purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

WV Department of

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. (c) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13)

DEC 28 2020

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

Written Comment:

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

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

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

WW-6A (8-13) API NO. 47-OPERATOR WELL NO. Flesher 1212 N-1H to S-BH Well Pad Name: Flesher 1212

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-

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

Permit Denial or Condition

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

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

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

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

Office of Oil and Gas

DEC 28 2020

WW-6A (8-13)

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC		Address: 5260 Dupont Road	
Telephone:	304-420-1119	Parkersburg, WV 26101	
Email:	dwhite@hgenergyllc.com	Facsimile: 304-863-2172	

Oil and Gas Privacy Notice:

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

OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC CASSIDY A. BOARDMAN 5301 13th Ave Vienna, WV 26105 My Commission Expires July 31, 2022	Subscribed and sworn before me this <u>29th</u> day of <u>August</u> , <u>2020</u> . <u>Cosmidy</u> <u>A. Concern</u> Notary Public My Commission Expires <u>131</u> <u>2022</u>
My Commission Expires any 01, 2022	My Commission Expires 731 2022

RECEIVED Office of Oil and Gas

DEC 28 2020

Flesher 1212 N-1H to S-8H

WW-6A (8-13) Page 1 Continued

Surface Owner of Water Well and/or Water Purveyors to be Noticed:

Richard & Loretta Hayhurst 340 Cheyenne Drive Weston, WV 26452

Fred Bailey 4853 Old Mill Road Jane Lew, WV 26378

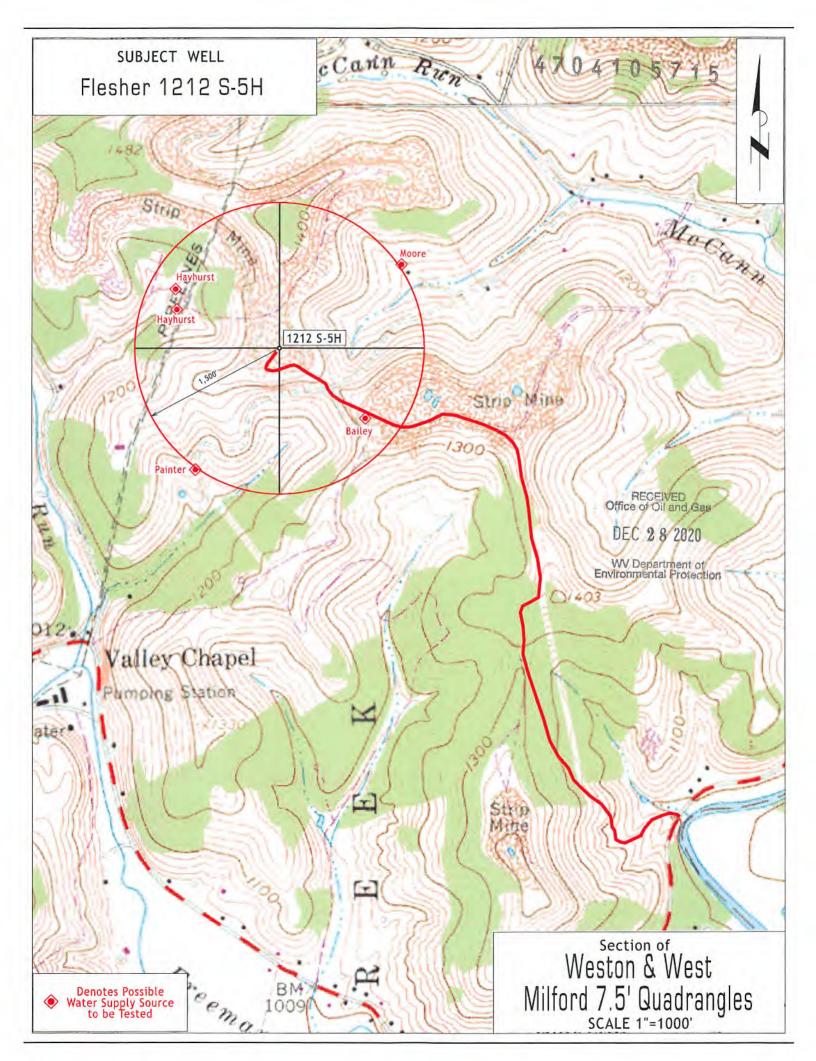
Mary Elen Nicholson 1149 Millstone Road Weston, WV 26452

Surface Owner (s) (Road and/or Other Disturbance)

Scott & Amy Carpenter 1089 Valley Chapel Road Weston, WV 26452

Office of Oil and Gas

DEC 28 2020



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- 6Λ -10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requir Date of Notice: <u>12/10</u>		be provided at least TEN (10) days prior to filing a per Date Permit Application Filed: 12/21/2020	mit application. RECEIVED Office of Oil and Gas
Delivery method pu	rsuant to West Virg	ginia Code § 22-6A-16(b)	DEC 2 8 2020
HAND DELIVERY	CERTIFIED RETURN R) MAIL RECEIPT REQUESTED	WV Department of Environmental Protection

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

Notice is	s hereby provided to the	e SURFACE OWNER(s):	* HG Energy not noticed	
	HG Energy II Appalachia, LLC		Name:	_
Address:	5260 Dupont Road		Address:	
	Parkersburg, WV 26101			

Notice is hereby given:

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

State:	West Virginia
County:	Lewis
District:	Freemans Creek
Quadrangle:	Weston 7.5'
Watershed:	Middle West Fork Creek

UTM NAD 83	Easting:	544290.7
UTM NAD 85	Northing:	4330022.6
Public Road Access: Generally used farm name:		Kincheloe Run Rd to Valley Chapel Road
		Flesher

This Notice Shall Include:

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

Notice is hereby given by:

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

Oil and Gas Privacy Notice:

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

STATE OF WEST VIRGINIA 4704105715 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

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

 Date of Notice:
 12/15/2020

 Date Permit Application Filed:
 12/21/2020

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

H.	CERTIFIED MAIL	HAND
	RETURN RECEIPT REQUESTED	DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s) * HG Energy not noticed

Name:	HG Energy II Appalachia LLC	Name:
4.4.4.56.56	5260 Dupont Road	Address:
	5260 Dupont Road Parkersburg, WV 26101	Address:

Notice is hereby given:

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

State:	West Virginia	UTNANIAD 92	Easting: Northing:	544290.7	
County:	Lewis	UTM NAD 83		4330022.6	
District:	Freemans Creek	Public Road Acce	ess:	Kincheloe Rd / Valley Chapel Road	
Quadrangle:	Weston 7.5'	Generally used fa	irm name:	Flesher	
Watershed:	Middle West Fork Run			and the second sec	

This Notice Shall Include:

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

Well Operator:	HG Energy II Appalachia, LLC		Address:	5260 Dupont Road	Office of Oil and GAR
Telephone:	304-420-1119			Parkersburg, WV 26101	DEC 28 2020
Email:	dwhite@hgenergyllc.com	Diane White	Facsimile:	304-863-3172	
	2				WV Department of Environmental Protection

Oil and Gas Privacy Notice:

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

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways

August 17, 2020

Jimmy Wriston, P. E. Deputy Secretary/ Deputy Commissioner

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 Flesher 1212 Pad, Lewis County Flesher S-5H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #07-2020-0148 which has been issued to HG Energy, LLC for access to the State Road for a well site located off Lewis County Route 10 SLS MP 16.2.

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.

Very Truly Yours,

Tary K. Clayton

Office of Oil and the

DEC 28 2020

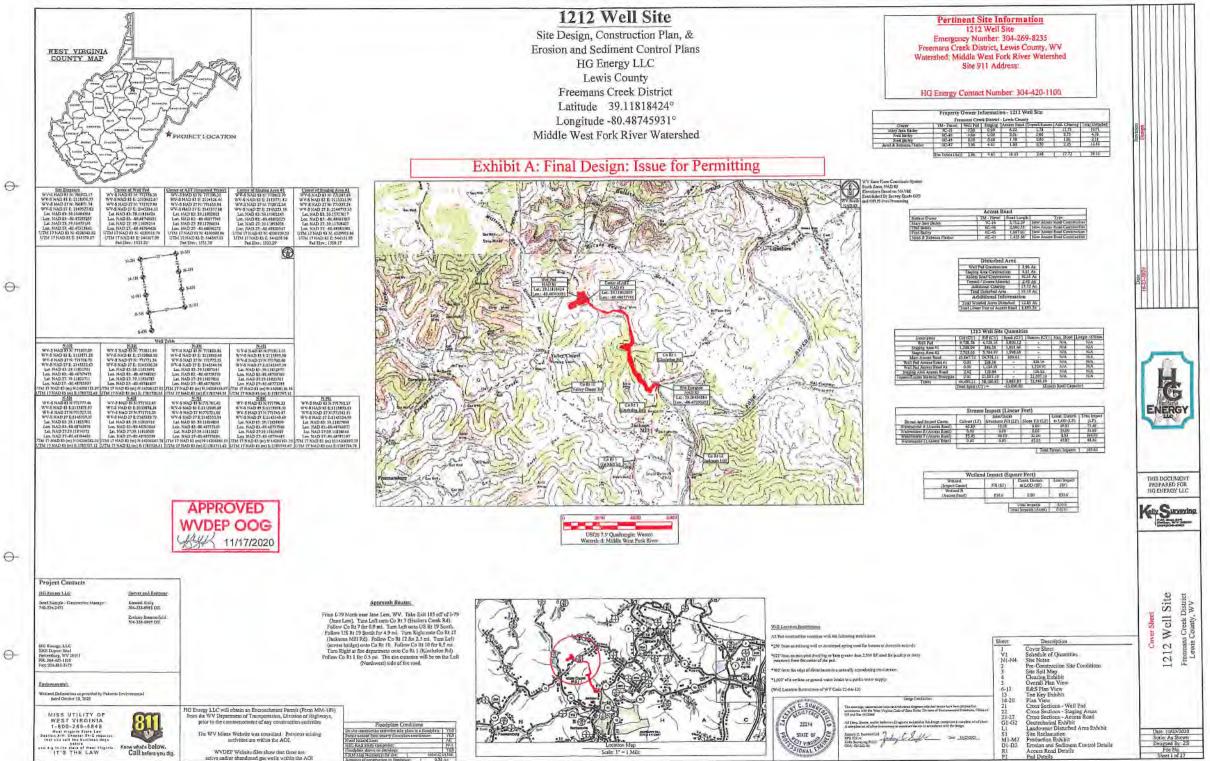
WV Departments

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

Cc: Diane White HG Energy, LLC CH, OM, D-7 File

HG Energy II Appalachia, LLC List of Frac Additives by Chemical Name and CAS # Flesher 1212 Well Pad (N-1H to N-4H, N-9H, S-5H to S-8H)

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	-
		15405-07-7	-
Hydrochloric Acid 22 DEG BE	7647-01-0		
PROGEL - 4.5	64742-96-7		_
BIO CLEAR 2000	Mixture	25322-68-3	_
BIO CLEAR 2000		10222-01-2	
SCALE CLEAR SI 112	107-21-1		
	107-21-1		Office of Oil and Pas
PROBREAK 4	Mixture	57-50-1	
		107-21-1	DEC 28 2020
Sulfamic Acid	5329-14-6		WV Department of Environmental Protection
PRO - Flow - 102-N	Mixture	67-63-0	
		68439-45-2	
		2687-96-9	_
PROGEL - 4	9000-30-0		-



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