

#### 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-7H

47-041-05716-00-00

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

Operator's Well Number: FLESHER 1212 S-7H

Farm Name: H. G. ENERGY II APPALACH

U.S. WELL NUMBER: 47-041-05716-00-00

Horizontal 6A New Drill Date Issued: 1/29/2021

API Number:	
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### **PERMIT CONDITIONS**

4704105716

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

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- 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.

## **PERMIT CONDITIONS** 4704105716

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.



#### west virginia department of environmental protection

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

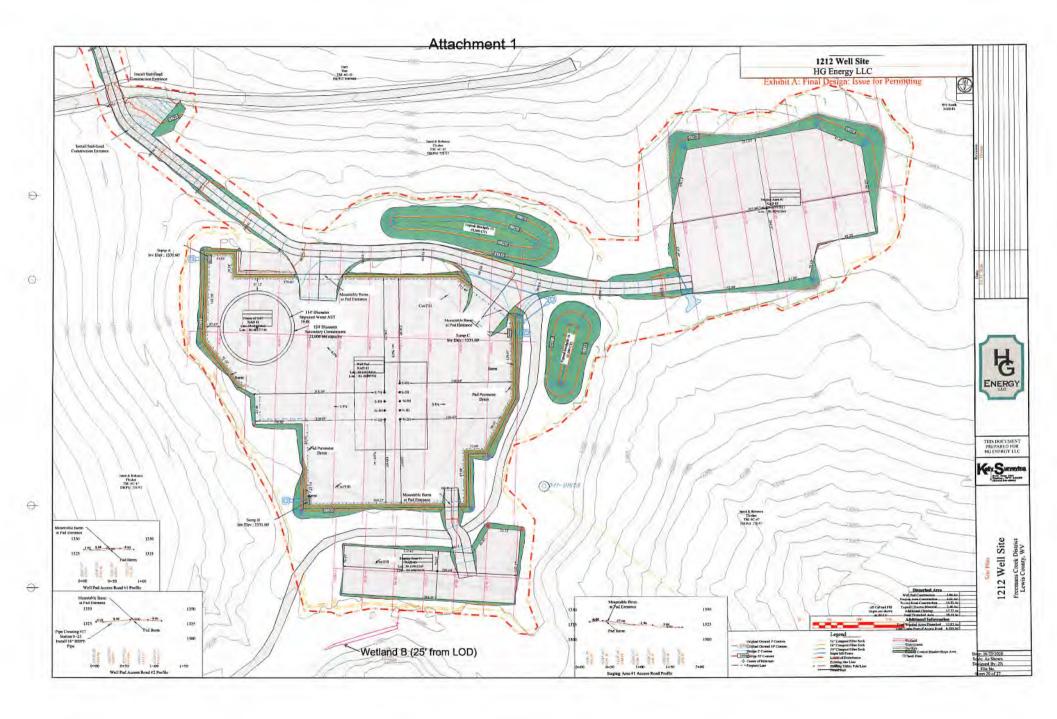
Thus ORDERED, the 13th day of November 2020.

#### 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 10-42:10-49500

JAMES A. MARTIN, CHIEF



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

1) Well Operator: HG Energy	I Appalachia, L	494519932	Lewis	Freeman	Weston 7.5'
1) Well Operator.		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Fle	sher 1212 S-7H	Well P	ad Name: Fle	sher 1212	
3) Farm Name/Surface Owner: _	Flesher	Public Re	oad Access: _S	R19 to Kincheloe	Run Rd to Valley Chapel Rd
4) Elevation, current ground:	1338' Ele	evation, propose	d post-constru	ction: 1332'	
5) Well Type (a) Gas X Other	Oil	Un	derground Sto	rage	
(b)If Gas Shal Hori	low X zontal X	Deep	-		
6) Existing Pad: Yes or No No					
7) Proposed Target Formation(s) Marcellus at 6845'/6927' and 82				Pressure(s):	
8) Proposed Total Vertical Depth	: 6925'				
9) Formation at Total Vertical D	epth: Marcellus	S			
10) Proposed Total Measured De	pth: 12645'				
11) Proposed Horizontal Leg Ler	ngth: 5300'				
12) Approximate Fresh Water St	rata Depths:	105', 273', 302	2'		
13) Method to Determine Fresh	Water Depths: N	learest offset w	ell data, (47-0	041-5338, 02	218)
14) Approximate Saltwater Dept	hs: 1028' (Near	est offset well d	ata, 47-041-16	373)	
15) Approximate Coal Seam Dep	oths: 420', 525' 830	(Surface casing is	s being extended t	to cover the coa	I in the DTI Storage Field)
16) Approximate Depth to Possil	ole Void (coal mi	ne, karst, other):	None		RECEIVED Office of Oil and Gas
17) Does Proposed well location directly overlying or adjacent to		ns Yes	1	No X	DEC 28 2020
(a) If Yes, provide Mine Info:	Name:				WV Department of Environmental Protection
	Depth:				
	Seam:				
	Owner:				

Bang Shillys 12-18-20 Page 1 of 3

APINO. 47-04105716

OPERATOR WELL NO. Flesher 1212 S-7H

Well Pad Name: Flesher 1212

#### 18)

#### CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120'	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	12645'	12645'	CTS
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	26"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate I	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 Tail 6% Excess to
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% excess yield = 1.19, tai yield 1,94.0
Tubing		)					
Liners							

### **PACKERS**

RECEIVED Office of Oil and Gas
DEC 28 2020
WV Department of Environmental Protection

B.S 12-18-20

WW-6B (10/14)

7041057

OPERATOR WELL NO. Flesher 1212 S-7H Well Pad Name: Flesher 1212

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 5,300' lateral length, 12,645' 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:

//Coal - centralized every 3 joints to surrow.

1/Coal - centralized every 3 joints to surrow.

1/Coal - centralized every 3 joints the levery third joint to 100° from the 2 - Bow Spring on first 2 joints then every third joint to 100° from the 100° from

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% Exc
Intermediate 1 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl, 40%
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl, 40%
Production - Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1%

RECEIVED

25) Proposed borehole conditioning procedures:

WV Department of Environmental Protection

Office of Oil and Gas

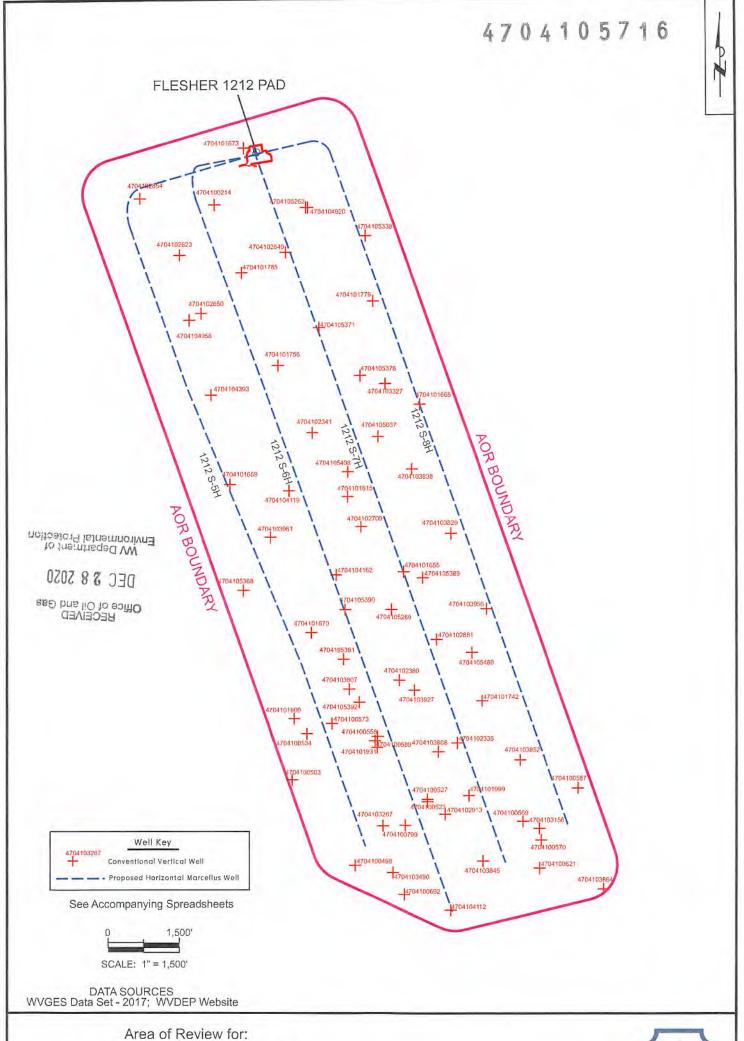
\*Note: Attach additional sheets as needed.

## 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

4704105716

laterial Name	Material Type	Material Description Premium NE-1 is a	CAS# Ingredient name	9/4	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 Crystalline silica: Quartz (SiO2)	1-5	1309-48-4 14808-60-7
mium NE-1	Portland Cement		Oryanante suica. Quarz (3102)	12	
		Commonly called gel, it is	I and think make	%	CAS number
		a clay material used as a	Ingredient name	90 - 100	1302-78-9
		cement extender and to	bentonite Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
		control excessive free water.			
onite	Extender				
		A powdered, flaked or	To account to the control of the con	%	CAS number
		pelletized material used	Ingredient name Calcium chloride	90 - 100	10043-52-4
		to decrease thickening time and increase the rate	Calcium Chloride	30 100	1000/0,000
		of strength development			
um Chloride	Accelerator				
		Graded (3/8 to 3/4 inch)	Ingredient name	%	CAS number
		cellophane flakes used as	No hazardous ingredient		
Flake	Lost Circulation	a lost circulation material.			
- 1 Whe	asses services and the				
		FP-13L is a clear liquid			
		organic phosphate antifoaming agent used in			
		cementing operations. It	Ingredient name	%	CAS number
		is very effective	Tributyl phosphate	90 - 100	126-73-8
		minimizing air			
		entrapment and			
		preventing foaming			
		tendencies of latex			
13L	Foam Preventer	systems.			
			Ingredient name	%	CAS number
		Used to retard cement	Sucrose	90 - 100	57-50-1
nulated Sugar	Retarder	returns at surface.	out was	10.00	27,20
		A proprietary product			
		that provides expansive properties and improves			
		bonding at low to	Ingredient name	%	CAS number
		moderate	Calcium magnesium oxide	90 - 100	37247-91-9
		temperatures.			
1		Multi-purpose polymer			
		THE RESERVE THE PROPERTY OF TH	Land disease and the second		
		additive used to control		1/4	CAS number
		free fluid, fluid loss,	Ingredient name  No hazardous ingredient	%	CAS number
		free fluid, fluid loss, rheology, and gas	No hazardous ingredient	1/6	CAS number
A-170	Gas Migration	free fluid, fluid loss,		%	CAS number
A-170	Gas Migration	free fluid, fluid loss, rheology, and gas		%	CAS number
A-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide).		%	CAS number
A-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan,	No hazardous ingredient		
A-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with	No hazardous ingredient  Ingredient name	9%	CAS number
\-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement	No hazardous ingredient  Ingredient name Crystalline silica: Quartz (SiO2)	% 5 - 10	CAS number 14808-60-7 PERSTRAIN
A-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a	No hazardous ingredient  Ingredient name	9%	CAS number 14808-60-7 PERSTRAIN
A-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate	No hazardous ingredient  Ingredient name Crystalline silica: Quartz (SiO2)	% 5 - 10	CAS number 14808-60-7 PEGETWED Office of Oil and G
A-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion	No hazardous ingredient  Ingredient name Crystalline silica: Quartz (SiO2)	% 5 - 10	CAS number 14808-60-7 PEGETWED Office of Oil and G
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(Fly Ash)		free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.  A low temperature retarder used in a wide range of slurry	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name Organic acid salt	% 5 - 10 1 - 5	CAS number 14808-60-7 REGETED Office of Oil and G DEC 2 8 2020 WV Department of ovironmental Protections
(Fly Ash)	Base	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.  A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name Organic acid salt	% 5 - 10 1 - 5	CAS number 14808-60-7 PEGETWED Office of Oil and G DEC 2 8 2020 WW Department of overonmental Protections CAS number Trade secret.
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(Fly Ash)	Base	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.  A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name Organic acid salt  Ingredient name 2-Butoxyethanol	% 5 - 10 1 - 5	CAS number 14808-60-7 PEGETWED Office of Oil and G DEC 2 8 2020 WW Department of overonmental Protections CAS number Trade secret.
: (Fly Ash)	Base	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.  A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name Organic acid salt  Ingredient name 2-Butoxyethanol Proprietary surfactant D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	% 5 - 10 1 - 5 Er % 40 - 50	CAS number 14808-60-7 PLOSTICED Office of Oil and G  DEC 2 8 2020  WV Department of the convironmental Protection CAS number Trade secret.    CAS number
A-170	Base	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.  A low temperature retarder used in a wide range of slurry formulations to extend the slurry thickening time.	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name Organic acid salt  Ingredient name 2-Butoxyethanol Proprietary surfactant D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Alkylandsulfonate amine salt	% 5 - 10 1 - 5 % 40 - 50	CAS number 14808-60-7 PEGETEED Office of Oil and G DEC 2 8 2020 WV Department of onvironmental Protect CAS number Trade secret.  CAS number 111-76-2 Trade secret.

	LP @ 692	5' TVD / 7345' MD			8.5" Hole - Cement 5-1/2" 23# P-110 I		1		+/-530	00' ft Lateral	TD @ +/-6925' TVD +/-12645' MD
	1 - 2 - 2 - 2	X	X	Х	X		X	X	X	X	X
X	X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	16	Onondaga	6927				V	Y	
		8.5" Lateral		(Production)	12645	6925	12.5ppg SOBM				
		100		Marcellus TMD / TVD	6845	6927	11.5ppg-	CTS			
				Hamilton	6815	6753		Tail Yjeld=1,94	in the second second		
	9			Tully Limestone	6751	6815		20% Excess Lead Yield=1.19	1st 5.5" long joint to the top of the curve.	volume prior to pumping cement.	
			CDC HTQ	Burkett	6660	6751	SOBM	bwoc ASCA1 + 0.5% bwoc MPA170	Run 1 spiral centralizer every 3 joints from the	minimum of one hole	due to hole conditions
		8,5" Curve	P-110 HP	West River	6625	6660	12.5ppg	gal/sk FP13L + 50%	Dun 1 spiral controllings	pressures indicate the hole is clean. Circulate a	Note:Actual centralizer
×	×		5-1/2" 23#	Middlesex	6526	6625	11.5ppg-	Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75		least 2x bottoms up, or until returns and pump	wali thickness Burst=16240 psi
100			374	Cashaqua	6445	6526		MPA170		allowable pump rate for at	Production casing = 0.41
				Rhinestreet	6256	6445		EC1 + 0.75 gal/sk FP13L + 0.3% bwoc		Once on bottom/TD with casing, circulate at max	
1.3						1	7.0	bwoc R3 + 1% bwoc	surface.	A 12 C T C C C C C C C C C C C C C C C C C	
3		8.75" Vertical	d	Benson	4370	4382	9.0ppg SOBM	<u>Lead</u> : 14.5 ppg POZ:PNE-1 + 0.3%	Run 1 spiral centralizer every 5 joints from the top of the curve to		
		6 7 6 W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Balltown	3278	3350	AIR /				l l
x	x			Speechley	3078	3089			B. 112	Circulate a minimum of one hole volume prior to pumping cement.	wall thickness
				Intermediate 2	0	2900		zero% Excess. CTS			
x	×	1	J-55 BTC	Bayard Sand	2450	2480	Polymer	CaCl			
		12.25"	9-5/8" 40#	5th Sand	2374	2416	AIR / KCL Salt	40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc			
	1			Gordon Stray / Gordon	2128 / 2198	2198 / 2288	AID / KO	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl	Bow Spring on first 2	Once casing is at setting depth, Circulate and	Intermediate casing = 0.39
x	x			Fifty / Thirty Foot	2008 / 2105	2033 / 2128				20.0	
				Intermediate 1	0	2100	, squisi	CaCl zero% Excess, CTS	storage zone*	volume prior to pumping cement.	
	x	17.5"	J-55 BTC	Injun / Gantz (Storage)	1613 / 1898	1718 / 1958	Salt Polymer	ppg PNE-1 + 2.5% bwoc	*will also be running ACP for isolating	minimum of one hole	wall thickness Burst=3450 psi
			13-3/8" 68#	Big Lime	1548	1613	AIR / KCL	2.5% bwoc CaCl 40% Excess / Tail: 15.9	joint	depth, Circulate and condition at TD. Circulate a	Intermediate casing = 0.48
				V 2555 - 251				Lead: 15.4 ppg PNE-1 +	Bow Spring on every	Once casing is at setting	
	x			Fresh Water Protection	0	1000		Yield=1.20 / CTS		pumping cement.	
	×	26"	94# J-55	Kittaning Coal	987	992	AIR	15.6 ppg PNE-1 + 3% bwoc CaCl Centralized every 3 40% Excess joints to surface	The state of the s	of one hole volume with Fresh Water prior to	thickness Burst=2110 psi
		600	20"	Fresh Water	0	273	,00 is		Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" w	
	X		1 4/25/ =	Conductor			and death of the second		1727 7 18 18 18 18 18		
		30"	30" 157.5# LS	Cardinati	0	120	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD,	Conductor casing = 0.5" w thickness
	1 1 1 1 1	1.544	5,,5,,5				10000			25.60.00.00.00.00.00	
WELLBORE	7.15 27 17	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
Az	m		160.53	90		1212 5	5-7H BH	IL.	14	200595.09N 17876	63.39E
Ground E	Elevation		1332.2	2'		1212	S-7H LI	, H	14	205589.56N 178589	98.54E
						1212 5	S-7H SH	WW viron	14	206086.55N 17857	51.82E
RGY							REC	C 2	Lewis Cou	unty, WV	
g							EIVE	Oil and Ga 8 2020 artment of tal Protect	Marcellus Sha		
- 1							6	nd o	1212 9	S-7H	



#### FLESHER 1212 SOUTH UNIT

Proposed 1212 S-5H Proposed 1212 S-6H Proposed 1212 S-7H Proposed 1212 S-8H

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

HG ENERGY, II APPALACHIA, LLC 5260 DuPont Road, Parkersburg, WV 26101



#### EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

### FLESHER 1212 SOUTH UNIT AND PROPOSED WELLS S-5H, S-6H, S-7H & S-8H

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	-80,484197
7	4704100558	Lewis	Doyle Butcher et al 2	Lippizan Petroleum, Inc.	Price Fm & equivs	Gas	1364	ACTIVE	39.084632	-80.479545
8	4704100569	Lewis	W W Chapman 1	Clem Energy, LLC	Unkown	Gas	1-3-1	ABANDONED	39.079798	-80.468192
9	4704100570	Lewis	W W Chapman 1	Law, David W.	Price Fm & equivs	Gas	1363	ABANDONED	39.079511	-80.466333
10	4704100573	Lewis	Clete Butcher et al 1	Bower, Hall and Wetzel	Price Fm & equivs	Gas	1441	PLUGGED	39.085502	-80.482337
11	4704100587	Lewis	Clay Maxwell Jr 1	Cohen, Henry	Big Injun (Grnbr)	Gas w/ Oil Show	1368	PLUGGED	39.081686	-80.464101
12	4704100589	Lewis	Doyle Vutcher 3	Law, David W.	Conemaugh Group	Dry w/ Gas Show	435	PLUGGED	39.084342	-80.479173
13	4704100621	Lewis	W W Riggs 1	Tower Service Company	Price Fm & equivs	Gas	1410	PLUGGED	39.077105	-80.466986
14	4704100799	Lewis	Carl Harrison 1	Bagwell & Trader	Price Fm & equivs	Gas	1360	ABANDONED	39.079613	-80.476936
15	4704101615	Lewis	Sophia Butcher	Dominion Energy Transmission, Inc.	Benson	Gas	4210	ACTIVE	39.098539	-80.481047
16	4704101655	Lewis	Sophia Butcher	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	4120	ACTIVE	39.094203	-80.476943
17	4704101665	Lewis	Charles F Bailey	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4250	ACTIVE	39.103826	-80.475644
18	4704101669	Lewis	Charles I Bailey	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4110	ACTIVE	39.099278	-80.489786
19	4704101670	Lewis	J W Norris	Alliance Petroleum, Co., LLC	Benson	Gas	4425	ACTIVE	39.090722	-80.483827
20	4704101673	Lewis	Cecil I Dempsey	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4509	ACTIVE	39.118627	-80.488538
21	4704101742	Lewis	WV University Board of Gov	Alliance Petroleum, Co., LLC	Benson	Gas	4205	ACTIVE	39.086743	-80.471172
22	4704101756	Lewis	W E Carpenter	Dominion Energy Transmission, Inc.	Benson	Gas	4220	ACTIVE	39.106120	-80.486154
23	4704101779	Lewis	C F Bailey	Dominion Energy Transmission, Inc.	Benson	Gas	4446	ACTIVE	39.109755	-80.479062
24	4704101785	Lewis	CLHitt	Dominion Energy Transmission, Inc.	Benson	Gas	4440	ACTIVE	39.111471	-80.488801
25	4704101800	Lewis	George W Dean Jr	Greylock Conventional, LLC	Benson	Gas	4305	ACTIVE	39.085792	-80.485128
26	4704101931	Lewis	Doyle Butcher 3	Lippizan Petroleum, Inc.	Benson	Gas	4163	ACTIVE	39.084052	-80.479917
27	4704101999	Lewis	Granville Butcher	Mountain, LLC	Fifth	Gas	4436	ACTIVE	39,081302	-80.472195
28	4704102335	Lewis	G Butcher	Alliance Petroleum, Co., LLC	Hampshire Grp	Gas	2575	ACTIVE	39.084342	-80.473033
29	4704102341	Lewis	Edna Brown	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4280	ACTIVE	39.102228	-80,483544
30	4704102380	Lewis	Burt Keister	Alliance Petroleum, Co., LLC	Hampshire Grp	Gas	2000	ACTIVE	39.087967	-80.477313
31	4704102583	Lewis	Geo Norris	Dominion Energy Transmission, Inc.	Unkown	Storage	2000	ACTIVE	39.112510	-80.493384
32	4704102623	Lewis		Dominion Energy Transmission, Inc.	Unkown	Storage	-	ACTIVE	39.112620	-80.485511
_		Lewis	George Norris	Dominion Energy Transmission, Inc.	Unkown	Storage		ACTIVE	39.109140	-80.491838
33	4704102650	11 200.00	Ira L. Queen	Consolidated Gas Supply Corp.	Unkown		-	ABANDONED	39.096803	-80.480078
34	4704102709	Lewis	Sophia Butcher	consolidated das supply corp.	Ullkuwii	not available		ADAINDONED	55.05005	-80.480078

35	4704102854	Lewis	J S Norris	Dominion Energy Transmission, Inc.	not available	Storage	- 2	ACTIVE	39.115783	-80.496273
36	4704102881	Lewis	WVU Board of Governors	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	4250	ACTIVE	39.090287	-80.474523
37	4704102913	Lewis	John J Oldaker III	Jackson Fuel Corporation	Benson	Gas	4384	ACTIVE	39.080236	-80.473962
38	4704103156	Lewis	John F Wyant 1	Clem Energy, LLC 5 02	Elk Elk	Gas	5757	ACTIVE	39.078351	-80.466333
39	4704103287	Lewis	Michael F Tierney Ir et al	Alliance Petroleum, Co., LLC	Brallier	Gas	5891	ACTIVE	39.079584	-80.478590
40	4704103327	Lewis	Rizpah B Carpenter	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	2380	PLUGGED	39.105009	-80.478216
41	4704103490	Lewis	Martha Queen 1-A	Prince Petroleum, Inc.	Benson	Gas	4287	ABANDONED	39.076900	-80.477868
42	4704103807	Lewis	Martha Carpenter	Alliance Petroleum, Co., LLC	So Brallier	Gas	6050	ACTIVE	39.087478	-80.481020
43	4704103808	Lewis	Amy B Dent	Alliance Petroleum, Co., LLC	ய் Brallier	Gas	5980	ACTIVE	39.084487	-80.474149
44	4704103829	Lewis	David Hamrick	Alliance Petroleum, Co., LLC	Brallier	Gas	5791	ACTIVE	39.096668	-80.473222
45	4704103838	Lewis	Charles F. Bailey	Dominion Energy Transmission, Inc.	Benson	Gas	4314	ACTIVE	39.100088	-80.476278
46	4704103845	Lewis	Alva Butcher	Alliance Petroleum, Co., LLC	Benson	Gas	4984	ACTIVE	39.077626	-80.470798
47	4704103852	Lewis	Patricia Hall	Alliance Petroleum, Co., LLC	Benson	Gas	4264	ACTIVE	39.083327	-80,468381
48	4704103864	Lewis	Vivian Thompson 1	Alliance Petroleum, Co., LLC	Benson	Gas	4225	ACTIVE	39.075885	-80.462240
49	4704103927	Lewis	Word of Life Christians	Diversified Resources, Inc.	Benson	Gas	4170	ACTIVE	39.087387	-80.476197
50	4704103956	Lewis	WV Board of Control	Devonian Gas Production, Inc.	Greenland Gap Fm	Gas w/ Oil Show	4230	ACTIVE	39.092028	-80.470801
51	4704103961	Lewis	John Norris	Enervest Operating, LLC	Benson	Gas	4280	ACTIVE	39.096233	-80,486807
52	4704104119	Lewis	Patricia Jo Beeson 1	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	4190	ACTIVE	39.098896	-80.485399
53	4704104162	Lewis	Michael L/Judy K Huntz	Berry Energy, Inc.	Greenland Gap Fm	Gas	4210	ACTIVE	39.094058	-80.481968
54	4704104393	Lewis	Richard D Carpenter	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4312	ACTIVE	39,104455	-80.491136
55	4704104920	Lewis	Charles Bailey	Dominion Energy Transmission, Inc.	Misc Sands-BNSN/BRLR	Gas	4579	ACTIVE	39.115176	80.483845
56	4704104958	Lewis	Richard W Dunham	Dominion Energy Transmission, Inc.	Misc Sands-BNSN/BRLR	Gas	4449	ACTIVE	39.108761	-80.492720
57	4704105037	Lewis	Kenneth L Hunt	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	3561	ACTIVE	39.101975	-80.478771
58	4704105262	Lewis	Charles Bailey	Dominion Energy Transmission, Inc.	Weir	Gas	1776	ACTIVE	39.115179	-80.483972
59	4704105269	Lewis	Edwin Lee Bowyer II	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	4160	ACTIVE	39.092028	-80.477873
60	4704105338	Lewis	Fred A Bailey	Dominion Energy Transmission, Inc.	Price Fm & equivs	Gas	1683	ACTIVE	39.113523	-80.479570
61	4704105368	Lewis	Edward Earl Garrett	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	4470	ACTIVE	39.093188	-80.488853
62	4704105371	Lewis	Scott A Carpenter	Dominion Energy Transmission, Inc.	Price Fm & equivs	Gas	1530	ACTIVE	39.108271	-80.483089
63	4704105378	Lewis	Charles F Bailey	Dominion Energy Transmission, Inc.	Price Fm & equivs	Gas	1777	ACTIVE	39.105497	-80.480063
64	4704105389	Lewis	Lee Matthew McWhorter	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	2244	ACTIVE	39.093854	-80.475522
65	4704105390	Lewis	Mary Lou Curry	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	2480	ACTIVE	39.092043	-80,481298
66	4704105391	Lewis	Mary Lou Curry	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	2531	ACTIVE	39.089187	-80.481436
67	4704105392	Lewis	Mary Lou Curry	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	2531	ACTIVE	39.086712	-80.480292
68	4704105408	Lewis	Deborah D Hunt	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	3386	ACTIVE	39.100004	-80.481411
69	4704105480	Lewis	WV University Board of Gov	Devonian Gas Production	Benson	Gas	4248	ACTIVE	39.089518	-80.471914
			 7) and WVDEP WEBSITE AND	Jan Larry and the same of the		S WELL WITH TVD > 4,50				

Bany Stelly 12-18-20

WW-9 (4/16)

API Number	47 -		
Ope	rator's Well No	), Flesher 1212 S-7H	

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

#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy II Appalachia, LLC 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 complete the proposed well work? Yes Will a pit be used? Yes No V	No
If so, please describe anticipated pit waste: NA	
Will a synthetic liner be used in the pit? Yes No V If so, what ml.?	
Proposed Disposal Method For Treated Pit Wastes:	
Land Application Underground Injection ( UIC Permit Number	
Reuse (at API Number_TBD - At next anticipated well  Off Site Disposal (Supply form WW-9 for disposal location)  Other (Explain	
Will closed loop system be used? If so, describe: Yes, cuttings and fluids will be collected in a closed loop system, re-used or hauled to an a	approved disposal site or landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc	Aln/KCL, Ain/SOBM, Horizontal - SORM
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Water, Soap, KCl, Barite, Base Oil, Wetting Agents	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Approved Landfill	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA	
-Landfill or offsite name/permit number? See Attached	
	Lancation to an internal
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permitt where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POL. on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protect provisions of the permit are enforceable by law. Violations of any term or condition of the general perm law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the infor application form and all attachments thereto and that, based on my inquiry of those individuals important of the information, I believe that the information is true, accurate, and complete. I am aware penalties for submitting false information, including the possibility of fine or imprisonment.	ion. I understand that the it and/or other applicable mation submitted on this nediately responsible for that the income are submitted and the income of and the income of
Company Official Signature Diane White	DEC 28 2020
Company Official (Typed Name) Diane White	WV Department of Environmental Protection
Company Official Title Agent	
Subscribed and sworn before me this 15th day of December , 20 20	DESISSIONANA
Notary Public	OFFICIAL SEAL NOTARY PUBLIC. STATE OF WEST VIRGINU MARK J SCHALL H G Energy L L C
My commission expires $(1/2/202)$	PO Box 5519, Vienna, WV 26105 My Commission Expires November 2, 2021

Form WW-9

4704105716 Operator's Well No. Flesher 1212 S-7H HG Energy II Appalachia, LLC Proposed Revegetation Treatment: Acres Disturbed 32.75 Prevegetation pH \_\_\_\_\_ 3 Tons/acre or to correct to pH 6.5 Fertilizer type 10-20-20 500 lbs/acre Fertilizer amount 2 <sub>Tons/acre</sub> Hay Mulch **Seed Mixtures** Permanent **Temporary** Seed Type lbs/acre lbs/acre Seed Type Tall Fescue 40 40 Tall Fescue 5 Ladino Clover 5 Ladino Clover Maintain E&S controls through the drilling and completion process 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: 44 for BS sole page /	
Comments: Pre-seed/mulch as soon as reasonably possible per regulation.	
Upgrade E&S if needed per WV DEP E&S manual.	
	RECEIVED Office of Oil and Gas
Oil & Gas Inspector	DEC 2 8 2020
Title:	W Department of ronmental Protection

## **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 48903 740-548-4889

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

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

Max Environnemental Technologies, Inc. Facility Permit # PAD004835146 / 301071 283 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

DEC 28 2020

### 4704105716

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 2800249 423 West 300 South Suite 200 Salt Lake City, UT 84101

Energy Solutions Services, Inc. Permit # R-73006-L24 1,560 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 48950

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

#### Disposal Locations:

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

Solidification/Incineration Soil Remediation, Inc. Permit # 02-20753 6065 Arrel-Smith Road Lowelville, OH 44436 830-536-6825

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, Sulte 303 Indiana, PA 15701

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

Equipment Transport 1 Tyler Court Carlisle, PA 17015

Myers Well Service, \_\_\_\_ 2001 Ballpark Court Export, PA 15632

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

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

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

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 48767 614-648-8898 740-796-6495 RECEIVED
Office of Oil and Gas

DEC 2 8 2020

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 # 84-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-329-7275

SOS D#1 (SWIW #12) Permit # 34-059-2-4202-00-00 Silcor Olifield 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

## 4704105716

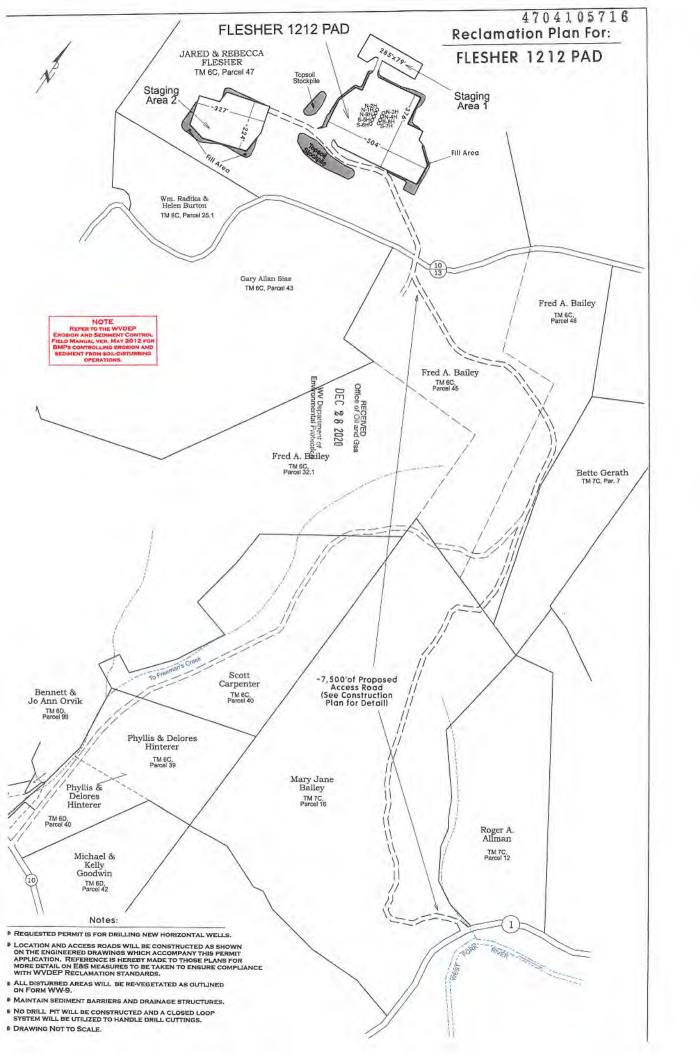
OH UIC #1 Bu keye UIC Barnesville 1 & 2 CNX Gas Con...;any, LLC 1000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-323-6568

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

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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

Office of Oil and Gas

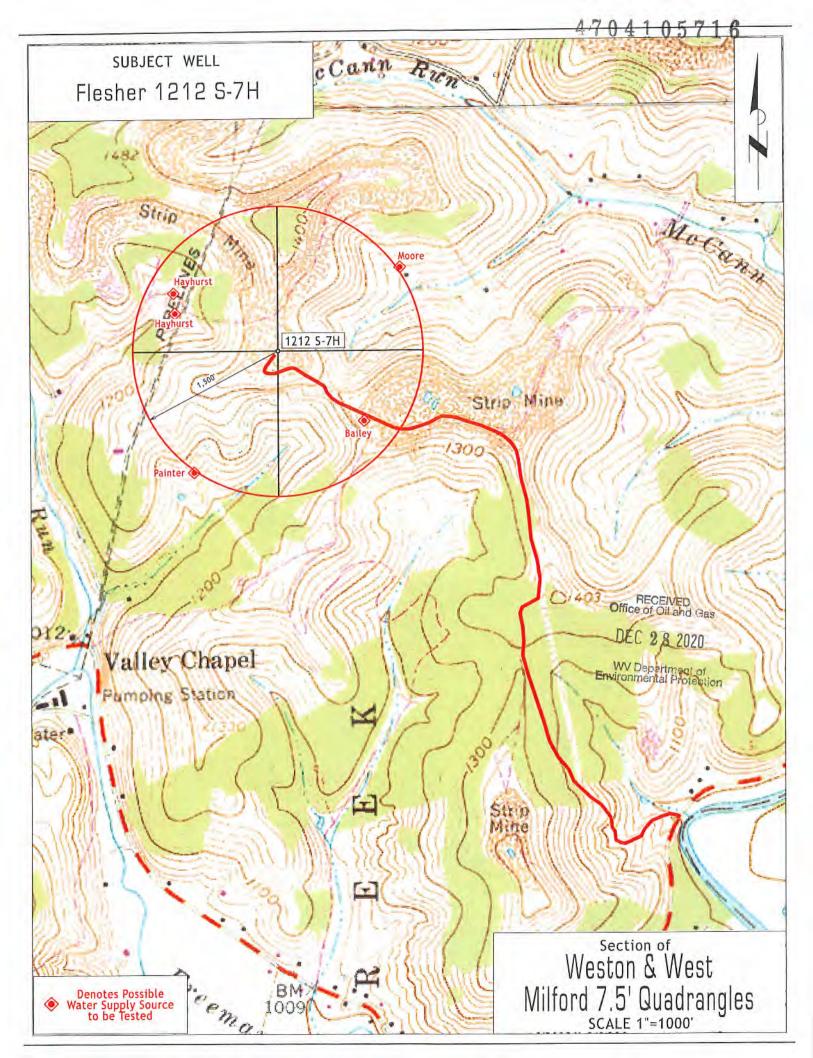
DEC 28 2020

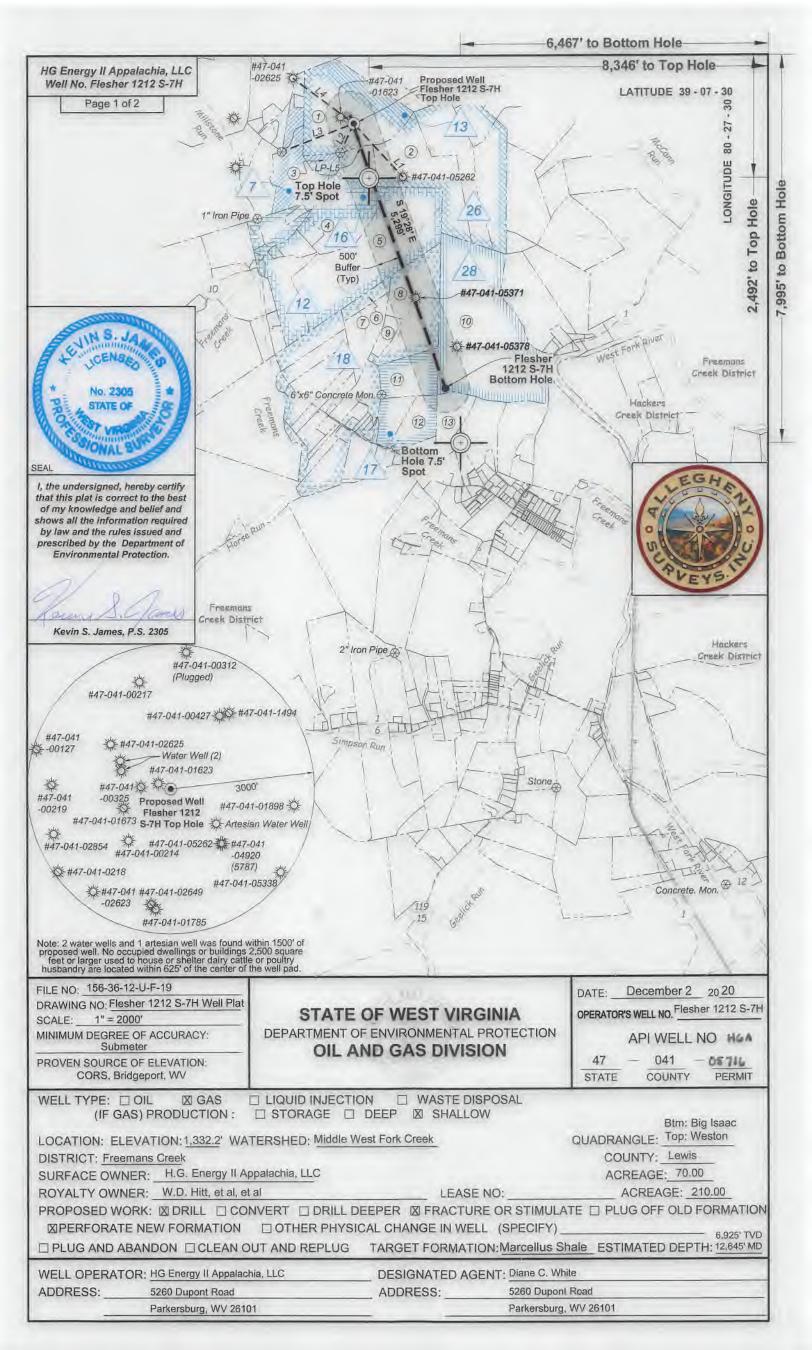
WV Department of Environmental Protection

5260 Dupont Road

Parkersburg, WV 26101

BS 12-18-20





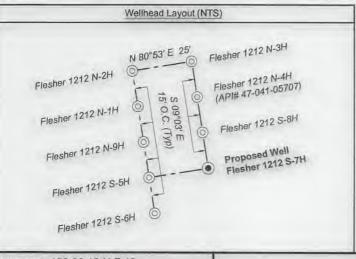
Page 2 of 2



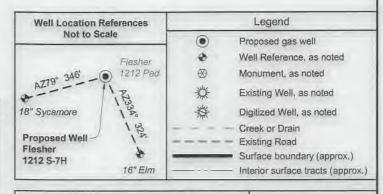
Tag	Bearing	Dist.	Description
L1	N 42°43' W	1,513.6'	#47-041-05262
L2	N 24°51' E	664.5'	1/2" Rebar
L3	N 68°43' E	1,615.6'	1" Iron pipe
L4	S 53°14' E	1,583.7	#47-041-02625
L5	S 16°27' E	518.2'	Landing point

ID	Lease
7	Pearle A. Norris, et al
12	C.L. Hitt, et al
13	Alda V. Hitt. et al
16	George Norris, et al
17	H.M. Stewart & C.J. Stewart
18	W.E. Carpenter, at al
26	W.D. Hitt, et al
28	Charles F. Bailey, et al

		Lewis Co Freeman Creek Dist.		
No.	TM / Par	Owner	Bk / Pg	Ac.
1	6C / 47	HG Energy II Appalachia, LLC	753 / 453	70.00
2	6C / 45	Fred A. Bailey	W25 / 263	48.00
3	6C / 25.1	William Radtka & Helen Burton	655 / 681	5.85
4	6C / 43	Gary A. Sias	646 / 688	50.59
5	6C / 32.1	Fred A. Bailey	W25 / 263	92.89
6	6C / 42	Fred A. Bailey	W25 / 263	6.70
7	6C / 41	Larry R. & Gina F. Simon	702 / 865	19.11
8	6C / 40	Scott & Amy Carpenter	709 / 821	45.95
9	6C / 40.1	Jeffrey R. & Pamela J. Nicholson	713 / 40	5.50
10	7C / 16	Mary Jane Bailey Trust	W49 / 571	130.50
11	6C / 39	Phyllis L. & Dolores A. Hinterer	591 / 653	23.00
12	6D / 42	Michael & Kelly M. Goodwin	682 / 485	15.98
13	6D / 43	Deborah D. Hunt	W24 / 544	17.50



Parkersburg, WV 26101



Notes: Well No. Flesher 1212 S-7H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°07'05.36" Latitude: 39°06'10.96"
Longitude: 80°29'15.92" Longitude: 80°28'52.060"

UTM Zone 17, NAD 1983

Top Hole Coordinates
N: 4,330,023.840m
E: 544,298.245m

E: 544,880.893m

E: 544,298.245m E: 544,880.893m

Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

Notes:
Well No. Flesher 1212 S-7H
UTM NAD 1983 (USSF)
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N: 14,206,086.55'
E: 1,785,751.82'
Landing Point Coordinates
N: 14,205,589.56'
E: 1,785,898.54'
Bottom Hole Coordinates
N: 14,200,595.09'
E: 1,787,663.39'

FILE NO:	156-36-12-U-F-19
DRAWING	NO: Flesher 1212 S-7H Well Pla
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:	December 2 20 20
OPERATO	OR'S WELL NO. Flesher 1212 S-7H
	API WELL NO MAA
47	- 041 - 05714

COUNTY

PERMIT

STATE

Parkersburg, WV 26101

WELL TYPE: ☐ OIL ☐ GAS ☐ LIQUID INJECTION (IF GAS) PRODUCTION : ☐ STORAGE ☐ DEE	☐ WASTE DISPOSAL EP ☒ SHALLOW	Btm: Big Isaac
LOCATION: ELEVATION: 1,332.2' WATERSHED: Middle West Fo	ork Creek	QUADRANGLE: Top: Weston
DISTRICT: Freemans Creek		COUNTY: Lewis
SURFACE OWNER: H.G. Energy II Appalachia, LLC		ACREAGE: 70.00
ROYALTY OWNER: W.D. Hitt, et al, et al	LEASE NO:	ACREAGE: 210.00
PROPOSED WORK:   DRILL   CONVERT   DRILL DEEPE  PROPOSED WORK:   DRILL   OTHER PHYSICAL OF THE		
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TAR	RGET FORMATION: Marcellus S	hale ESTIMATED DEPTH: 12,645' MD
WELL OPERATOR: HG Energy II Appalachia, LLC	ESIGNATED AGENT: Diane C. Wh	ite
ADDRESS: 5260 Dupont Road Al	DDRESS: 5260 Dupon	Road

Page 2 of 2



Tag	Bearing	Dist.	Description
L1	N 42°43' W	1,513.6'	#47-041-05262
L2	N 24°51' E	664.5	1/2" Rebar
L3	N 68°43' E	1,615.6'	1" Iron pipe
L4	S 53°14' E	1,583.7	#47-041-02625
L5	S 16°27' E	518.2	Landing point

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12	C.L. Hitt, et al	
13	Alda V. Hitt, et al	
16	George Norris, et al	
17	H.M. Stewart & C.J. Stewart	
18	W.E. Carpenter, et al	
26	W.D. Hitt, et al	
28	Charles F. Bailey, et al	

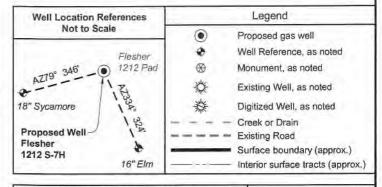
		Lewis Co Freeman Creek Dist.		
No.	TM / Par	Owner	Bk / Pg	Ac.
1	6C / 47	HG Energy II Appalachia, LLC	753 / 453	70.00
2	6C / 45	Fred A. Bailey	W25 / 263	48.00
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8	6C / 40	Scott & Amy Carpenter	709 / 821	45.95
9	6C / 40.1	Jeffrey R. & Pamela J. Nicholson	713 / 40	5.50
10	7C / 16	Mary Jane Bailey Trust	W49 / 571	130.50
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13	6D / 43	Deborah D. Hunt	W24 / 544	17.50

Wellhead Layout (NTS) Flesher 1212 N-3H N 80°53' E 25' Flesher 1212 N-2H Flesher 1212 N-4H (0) (API# 47-041-05707) 0 S 09°03'1 Flesher 1212 N-1H Flesher 1212 S-8H Flesher 1212 N-9H Proposed Well Flesher 1212 S-7H Flesher 1212 S-5H Flesher 1212 S-6H

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WV Department of Environmental Protection



Notes: Well No. Flesher 1212 S-7H West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements. Top Hole coordinates Latitude: 39°07'05.36" Latitude: 80°29'15.92" Longitude: 80°29'15.92" Longitude: 80°28'52.060" UTM Zone 17, NAD 1983

Top Hole Coordinates Bottom Hole Coordinates N: 4.330.023.840m N: 4.328.350.040m E: 544,880.893m E: 544,298.245m

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Top Hole Coordinates N: 14,206,086.55' E: 1.785.751.82" Landing Point Coordinates N: 14.205,589,56' E: 1,785,898.54 **Bottom Hole Coordinates** N: 14,200,595.09 E: 1,787,663.39

OPERATOR'S WELL NO. Flesher 1212 S-7H

PERMIT

API WELL NO HGA 47 041 05716 COUNTY

DATE: December 2 20 20

#### FILE NO: 156-36-12-U-F-19 DRAWING NO: Flesher 1212 S-7H Well Plat SCALE: 1" = 2000" MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION:

SURFACE OWNER: H.G. Energy II Appalachia, LLC

ROYALTY OWNER: W.D. Hitt, et al, et al

CORS, Bridgeport, WV

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

WELL TYPE: □ OIL	⊠ GAS	☐ LIQUID INJECTION ☐ WASTE DISPOSAL
(IF GAS) PRO	DDUCTION:	☐ STORAGE ☐ DEEP ☒ SHALLOW
LOCATION: ELEVATION	N: 1,332.2' W	VATERSHED: Middle West Fork Creek
DISTRICT: Freemans Co	eek	

Btm: Big Isaac QUADRANGLE: Top: Weston COUNTY: Lewis

STATE

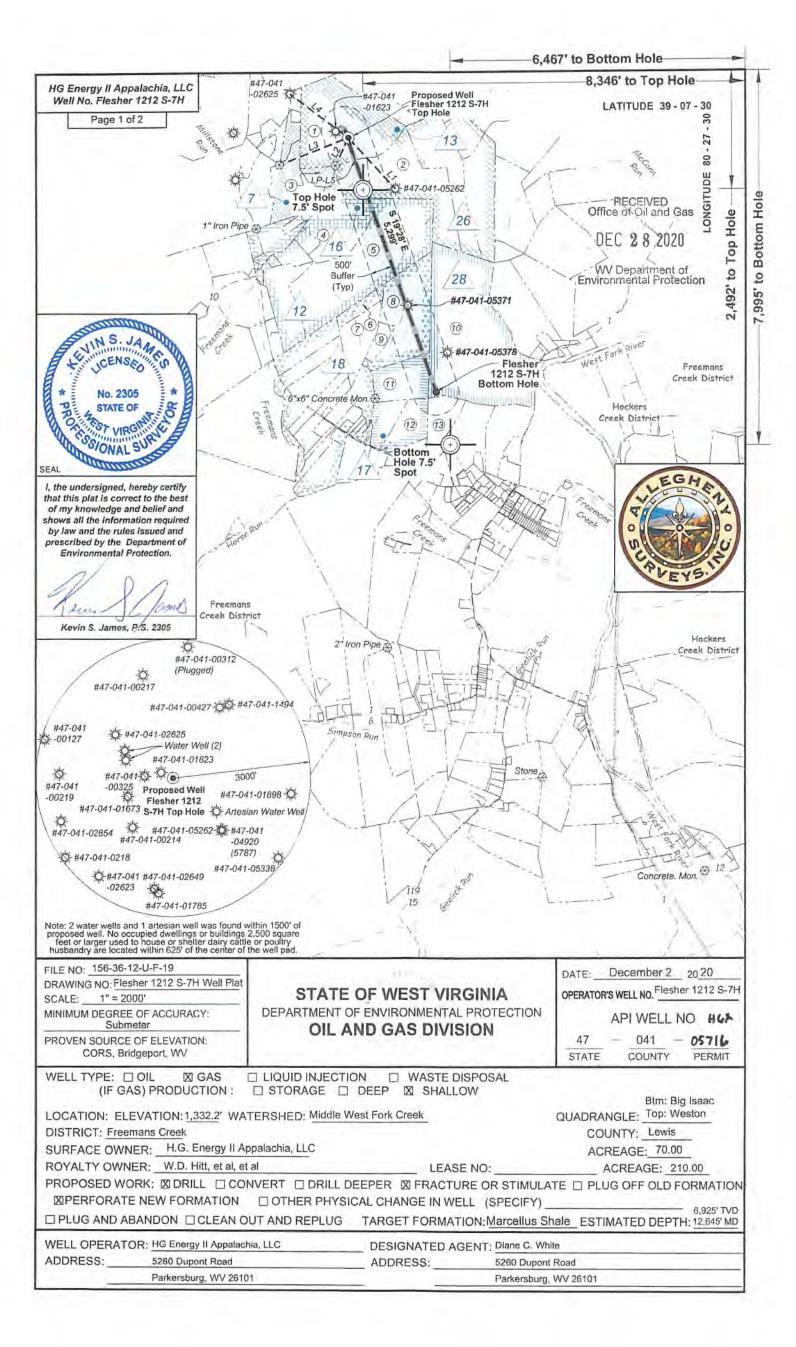
ACREAGE: 70.00 ACREAGE: 210.00

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

LEASE NO:

MPERFORATE NEW FORMATIC	IN LIGHTER PHYSIC	CAL CHANGE IN WELL	(SPECIFY)		6.925' TVD
☐ PLUG AND ABANDON ☐ CLEA	N OUT AND REPLUG	TARGET FORMATION	-Marcellus Shale	ESTIMATED DE	

WELL OPERAT	OR: HG Energy II Appalachia, LLC	DESIGNATED AC	SENT: Diane C. White	
ADDRESS: 5260 Dupo	5260 Dupont Road	ADDRESS:	5260 Dupont Road	
_	Parkersburg, WV 26101		Parkersburg, WV 26101	



Page 2 of 2



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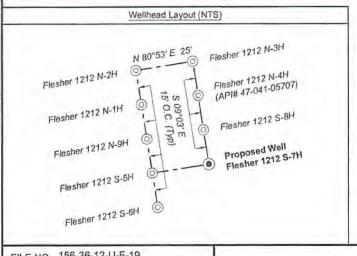
DEC 28 2020

WV Department of Environmental Protection

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		Lewis Co Freeman Creek Dist.		
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13	6D / 43	Deborah D. Hunt	W24 / 544	17.50



Legend Well Location References Not to Scale (0) Proposed gas well 4 Well Reference, as noted AZ79" 346' **(3)** Monument, as noted \* Existing Well, as noted 数 Digitized Well, as noted 18" Sycamore 324 Creek or Drain Proposed Well Existing Road 1 Surface boundary (approx.) 1212 S-7H 16" Elm Interior surface tracts (approx.)

Notes: Well No. Flesher 1212 S-7H
West Virginia Coordinate System of 1927, North Zone
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Top Hole coordinates
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FILE NO:	130-30-12-0-1-19
DRAWING	NO: Flesher 1212 S-7H Well Pla
SCALE:	1" = 2000'
MINIMUM	DEGREE OF ACCURACY: Submeter
PROVEN	SOURCE OF ELEVATION:

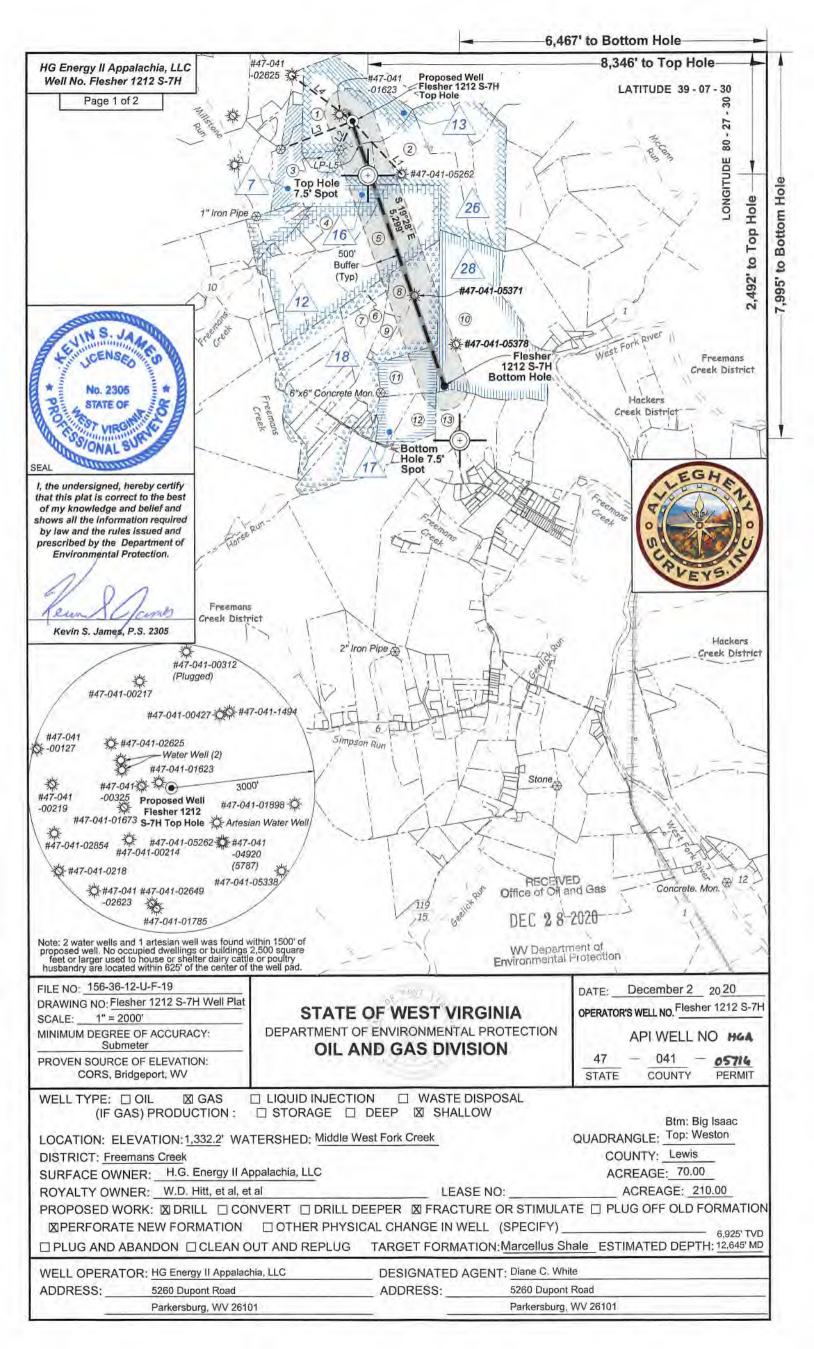
CORS, Bridgeport, WV

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

DATE: _	Dece	ember	2	20	20
OPERATO	R'S WEL	L NO. FI	esh	er 12	212 S-7F
	API	WEL	LN	10	HGA
47	-	041	_	0	5716

STATE COUNTY PERMIT

	PRODUCTION:		DEEP X SH	TE DISPOSAL HALLOW		Btm: Big Isaac
LOCATION: ELEV.	ATION: 1,332.2' WA	TERSHED: Middle We	est Fork Creek		QUADRANGLE:	Top: Weston
DISTRICT: Freeman	ns Creek				COUNTY:	
SURFACE OWNER	R: H.G. Energy II Ap	palachia, LLC			ACREAGE	: 70.00
ROYALTY OWNER	a: W.D. Hitt, et al, et	al	L	EASE NO:	ACREA	GE: 210.00
				CTURE OR STIMULAT N WELL (SPECIFY)		F OLD FORMATION  6.925' TVD
☐ PLUG AND ABA	NDON CLEAN O	UT AND REPLUG	TARGET FOR	RMATION: Marcellus Sh	ale_ESTIMATE	
WELL OPERATOR	: HG Energy II Appalach	nia, LLC	DESIGNATE	D AGENT: Diane C. Whit	e	
ADDRESS:	5260 Dupont Road		_ ADDRESS:	5260 Dupont	Road	
	Parkersburg, WV 2610	1		Parkersburg, 1	WV 26101	



WW-6A	l
(5/13)	

Operator's Well No.	Flesher 1212 S-7H
- F	

#### 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

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DEC 28 2020

WV Department of Environmental Protection

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

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

					୍ଥିତ ଲ	2020		
				HG Energy II Appalachia, LLC - 12:	L2 S-7H LEASE CHAIN	20 % % % % % % % % % % % % % % % % % % %		
					Œ.	WV D wironm		
	LEGACY LEASE				ļ			
TRACT#	NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAG
	†			W. D. HITT AND ALDA HITT, HIS WIFE; J. C. HITT AND DORA HITT, HIS				
	Į.		ļ	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	5
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	2
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
		03-006C-0045-0000	1	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	1
		03-006C-0045-0000 03-006C-0046-0000	Q100675000	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
	1	03-006C-0053-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
	1	03-006C-0054-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	1
26	FK053270	03-007C-0007-0000		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	8
		p/o 03-006C-0043-0001		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
		p/o 03-006C-0047-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	1
				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	4
				bommon Energy in momentum, men	THE EVENOT II THE TELLINY, EEC	THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	5
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	2
	FK053173			GEORGE NORRIS AND LAURA B. NORRIS, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	1
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	1
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
			i	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS SOPPER CORPORATION  CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	1
				CONSOLIDATED GAS SOFFEI CORFORATION  CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		03-006C-0027-0001 03-006C-0027-0002 03-006C-0027-0003 03-006C-0027-0004 03-006C-0030-0000 p/o 03-006C-0043-0000 p/o 03-006C-0043-0001  03-006C-0028-0000 03-006C-0029-0000 03-006C-0032-0000 03-006C-0032-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	
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			Q100671000 Q100338000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	8
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				NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	ASSIGNMENT	722	
					HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF	111303	
				DOMAINION ENERGY TRANSMICCION, INC	HC ENERGY II ARRALACHIA LLC	FARMOUT AGREEMENT	723	4
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF	- 725	
				DOMINION ENERGY TRANSMISSION, INC.	LIC ENERGY II ARRAI ACUITA LLC	FARMOUT AGREEMENT	734	
				DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	
					HG ENERGY II APPALACHIA, LLC		68	
				C. L. HITT, B. J. HITT, S. A. HITT, ELIZA A. HITT, AND LUCY M. HITT	RESERVE GAS COMPANY	NOT LESS THAN 1/8		
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155 294	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED		
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425 WVSOS	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE		
	FK053269			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
12				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	
14				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
		p/o 03-006C-0031-0000	1	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
	1	p/o 03-006C-0043-0000	I	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	

1 1	l		I	DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
					<u> </u>	SECOND AMENDMENT TO MEMORANDUM OF		
	<b> </b>			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
					0 2 08	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
		p/o 03-006C-0035-0000		W. E. CARPENTER AND MONA E. CARPENTER, HIS WIFE; C. W. SHUTTS	1	, , , , , , , , , , , , , , , , , , , ,		
		03-006C-0036-0000		AND MARGARET SHUTTS, HIS WIFE, EACH IN THEIR OWN RIGHT;	RECEI Office of Gi DEC 2 8			
		03-006C-0037-0000		CREED L. SHUTTS AND MONA LEE SHUTTS, HIS WIFE, EACH IN THEIR				
		03-006C-0038-0000	Q100600000	OWN RIGHT; CREED L. SHUTTS AND MONA LEE SHUTTS, HIS WIFE;	DE( DE( ironi			
		03-006C-0038-0001		NINA G. ALLEN, WIDOW; VIRGINIA Y. G. MCMULLEN AND T. F.	l ÿ N Si			
		03-006C-0040-0000		MCMULLEN, HER HUSBAND; EDWARD D. CARPENTER AND VICTORIA	I			
		03-006C-0040-0001		M. CARPENTER, HIS WIFE; ARTHUR D. CARPENTER AND GLORIA R.	_			
	[	03-006C-0041-0000		CARPENTER, HIS WIFE; AND STARK D. CARPENTER AND DAISY M.		1		
	]	03-006C-0042-0000		CARPENTER, HIS WIFE, AND STARK D. CARPENTER AND DAIST WI.	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	224	248
		03-006D-0024-0000 03-006D-0025-0000		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
		03-006D-0025-0002					425	127
		03-006D-0026-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	WVSOS	127
18	FK064858	03-006D-0026-0001		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
	,	03-006D-0027-0001		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	672	154
		03-006D-0028-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	712	848
		03-006D-0029-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	717	040
		03-006D-0029-0001 03-006D-0030-0000 03-006D-0031-0000 03-006D-0031-0000 03-006D-0032-0001 03-006D-0032-0001 03-006D-0033-0000 03-006D-0034-0000 03-006D-0034-0001	Q101023000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT		139
	FK053174			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		400
				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
				H. M. STEWART AND C.J. STEWART, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	147
				SOUTH PENN OIL COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79	237
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	202
				W. E. CARPENTER AND MONA CARPENTER, HIS WIFE; JESSE M. HOLT				
				AND MAUDE HOLT, HIS WIFE	HOPE NATURAL GAS COMPANY	STORAGE GRANT	219	526
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION .	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
17				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
ļ				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
1				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				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
	1	1	1	CHARLES F. BAILEY AND MARY JANE BAILEY, HIS WIFE; AND DAYTON D		1		
	1	1	1	REXROAD AND ROXIE E. REXROAD, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	212	308
	1	1	1	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
	1	1	1	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
l '		i	1	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	_

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- 1				ĺ	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
			03-007C-0016-0000	Q100938000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
28					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
	20	FW050050			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
	28	FK062268			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
			i		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
1					DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
							SECOND AMENDMENT TO MEMORANDUM OF		
				ļ	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
				l	****		THIRD AMENDMENT TO MEMORANDUM OF		
l				1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
			l	1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220

RECEIVED Office of Oil and Gas



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

December 19, 2020

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

RE:

Drilling Under Roads – Flesher 1212 S-7H

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 <a href="mailto:dwhite@hgenergyllc.com">dwhite@hgenergyllc.com</a> or 304-420-1119.

Office of Oil and Gas

DEC 28 2020

WV Department of Environmental Protection

Very truly yours, Diane White

Diane C. White

Enclosures

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

**API No. 47-**

Date of Notic	ce Certification: 12/21/2020	API No. 47	API No. 47				
		Operator's Well No. Flesher 1212 S-7H					
		Well Pad Nan	ne: Flesher We	ell Pad			
Notice has b	oeen given:						
		§ 22-6A, the Operator has provided the requir	ed parties wit	h the Notice Forms listed			
	tract of land as follows:	Fration 54	14000 0				
State:	West Virginia	IITM NAD 02	14298.2				
County:	Lewis	Northing: 43	4330023.8 Kincheloe Road / Valley Chapel Road				
District:	Freemans Creek		Flesher				
Quadrangle:	Weston	Generally used farm name:	esilei				
Watershed:	McCann Run						
it has provide information re of giving the requirements Virginia Code	ed the owners of the surface described equired by subsections (b) and (c), so surface owner notice of entry to surface of subsection (b), section sixteen of	hall contain the following information: (14) A bed in subdivisions (1), (2) and (4), subsect ection sixteen of this article; (ii) that the required pursuant to subsection (a), section ten of this article were waived in writing by the tender proof of and certify to the secretary that it.	tion (b), section frement was do of this article surface own	on ten of this article, the eemed satisfied as a resul- e six-a; or (iii) the notice er; and Pursuant to Wes			
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY	perator has attached proof to this Notice Certing and parties with the following:	ification	OOG OFFICE USE ONLY			
□ 1. NO	TICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECAUSE SEISMIC ACTIVITY WAS CONDUCTED	1.0	☐ RECEIVED/ NOT REQUIRED			
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	/EY or  NO PLAT SURVEY WAS CON	DUCTED	□ RECEIVED			
■ 3. NO	TICE 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 (PLEASE ATTACH)					
■ 4. NO	TICE OF PLANNED OPERATION	RECEIVED Office of Oil and	195	☐ RECEIVED			
■ 5. PUI	BLIC NOTICE	DEC 28 2		L RECEIVED			
■ 6. NO	TICE OF APPLICATION	WV Departme Environmental Pro	ent of Otection	RECEIVED			

#### Required Attachments:

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

### Certification of Notice is hereby given:

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

Well Operator: HG II Appalachia, LLC

By: Diane White Diane White

Telephone: Address: 5260 Dupont Road

Parkersburg, WV 26101

Facsimile: 304-863-3172

Email: dwhite@hgenergyllc.com



Subscribed and sworn before me this 21th day of December, 2020

Notary Public My Commission Expires 7 31 2022

Oil and Gas Privacy Notice:

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

Office of Oil and Gas

DEC 28 2020

WW-6A (9-13) API NO. 44 7 0 4 1 0 5 7 1 6
OPERATOR WELL NO. Flesher 1212 N-1H to St-8H
Well Pad Name: Flesher 1212

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

Noti	ce Time Requireme	ent: notice shall be provi	ded no later the	m the filing	date of permit application.	
	e of Notice: 08/29/20 ice of:	Date Permit Applica	tion Filed: 09/0	1/20		
V	PERMIT FOR AN		CATE OF API RUCTION OF		OR THE INDMENT OR PIT	
Deli	very method pursu	ant to West Virginia Co	ode § 22-6A-10	)(b)		
	PERSONAL	REGISTERED	✓ METI	OD OF DE	LIVERY THAT REQUIRES A	
	SERVICE	MAIL	RECE	IPT OR SIG	GNATURE CONFIRMATION	
sedir the soil a descooper more well important proving substractor proving the substractor of the substracto	ment control plan requestrace of the tract on and gas leasehold being ribed in the erosion a rator or lessee, in the control of the work, if the surface to condition the erosion and the erosion of this sector of the sheriff requests of the erosion and th	uired by section seven of the which the well is or is proposed by the proposed sediment control plans sevent the tract of land on which was a sevent the tract of land on which was a sevent the tract of land on which was a sevent the tract of land on which was a sevent the tract of land on which was a sevent the tract of land on which was a sevent to be used for the proposed for	his article, and oposed to be loc sed well work, is submitted pursu which the well purface tract or tracement, constant article; (5) attend within one stic animals; and f more than through, the application in holder is no cator shall also passed within and the control of the application of the app	the well plat ated; (2) The f the surface ant to subsect roposed to be acts overlying ruction, enlay Any surface thousand find (6) The op- bect enants in ant may serve eight, articles to notice to a provide the Vernanda (2)	confirmation, copies of the application to each of the following persons: (1) to each of the following persons: (1) to owners of record of the surface tract is to be used for roads or other lection (c), section seven of this article; the drilled is located [sic] is known to be the oil and gas leasehold being development, alteration, repair, removal of owner or water purveyor who is known to be the development of the center of the water of any natural gas storage field common or other co-owners of interest the documents required upon the person, chapter eleven-a of this code. (2) landowner, unless the lien holder is the Well Site Safety Plan ("WSSP") to the lin section 15 of this rule.	The owners of record of or tracts overlying the and disturbance as (3) The coal owner, be underlain by one or eloped by the proposed or abandonment of any on to the applicant to ell pad which is used to within which the ests described in the 2) Notwithstanding any are landowner. W. Va.
	Application Notice	☑ WSSP Notice ☑ E&	S Plan Notice	e	Plat Notice is hereby provided to:	
☑ S Nan	URFACE OWNER(S	S) lachia, LLC (Pad and Boad)		☐ COAL Name:	OWNER OR LESSEE	Office of Oil and Res
	lress: 5260 Dupont Road		-	Address:		DEC 2 8 2020
Nan	Parkersburg, WV 2	6101	-	T COM	OPERATOR	DEC 20 (U/U
	lress:		-	Name:	OFERATOR	WV Department of Environmental Protection
7100	11035+			Address:		Environmental Protection
		s) (Road and/or Other Di	sturbance)	Madagar.		
Nan		urface owner of water well)			ACE OWNER OF WATER WELL	
Add	Iress: 4853 Old Mill Road		_		WATER PURVEYOR(s)	
N.V.	Jane Lew, WV 263			Name:	Robert Painter  445 Millstone Road	
Nan	ne: Phyllis L & Dolores Iress: P. O. Box 730	A minterer	-0	Address:	Weston, WV 26452	
Auc	Jane Lew, WV 263	78	-	DOPER!	ATOR OF ANY NATURAL GAS S	TORAGE FIELD
ПS		s) (Impoundments or Pits	)	Name:	Dominion Energy Transmission - Attn: Ronald W	
Nan		A VOID CONTRACTOR LAND IN	*		925 White Oaks Blvd	
					Bridgeport, WV 26330	
_			-	*Please a	ttach additional forms if necessary	

WW-6A (8-13) API NO. 47OPERATOR WELL NO. Flesher 1212 N-1H to S RH
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 pit.

RECEIVED
Office of Gill and Gas

### 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 of the 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) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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

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

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

### **Well Location Restrictions**

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

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

Water Well Testing:

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

### Water Testing Laboratories:

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

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

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

#### Written Comment:

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

Office of Oil and Gas

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

DEC 2 8 2020

WV Department of Environmental Protection

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

WW-6A (8-13) API NO. 47-OPERATOR WELL NO. Flosher 1212 N.114 to S.8H

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 <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> 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) API NO. 47-OPERATOR WELL NO. Flesher 1212 N-1H to S-8H Well Pad Name: Flesher 1212

	eby given by:	1.11 COORD (1.D. 1.)
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:	
		Formation, such as name, address and telephone number, as part of our regulatory
needed to co appropriately	mply with statutory or regulatory req	to other State agencies or third parties in the normal course of business or as quirements, including Freedom of Information Act requests. Our office will u have any questions about our use or your personal information, please contact v.gov.
		Subscribed and sworn before me this29th day of _August,2020
		Notary Public
		My Commission Expires

Office of Oil and Gas

DEC 28 2020

WW-6A (8-13)

API NO. 47- OPERATOR WELL NO. Flesher 1212 N-4H
Well Pad Name: Flesher 1212

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

Telephone: 304-420-1119

Email: dwhite@hgenergyllc.com

Address: 5260 Dupont Road

Parkersburg, WV 26101 Facsimile: 304-863-2172

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 29th day of August ,2020

Notary Public

My Commission Expires 7 31 2022

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

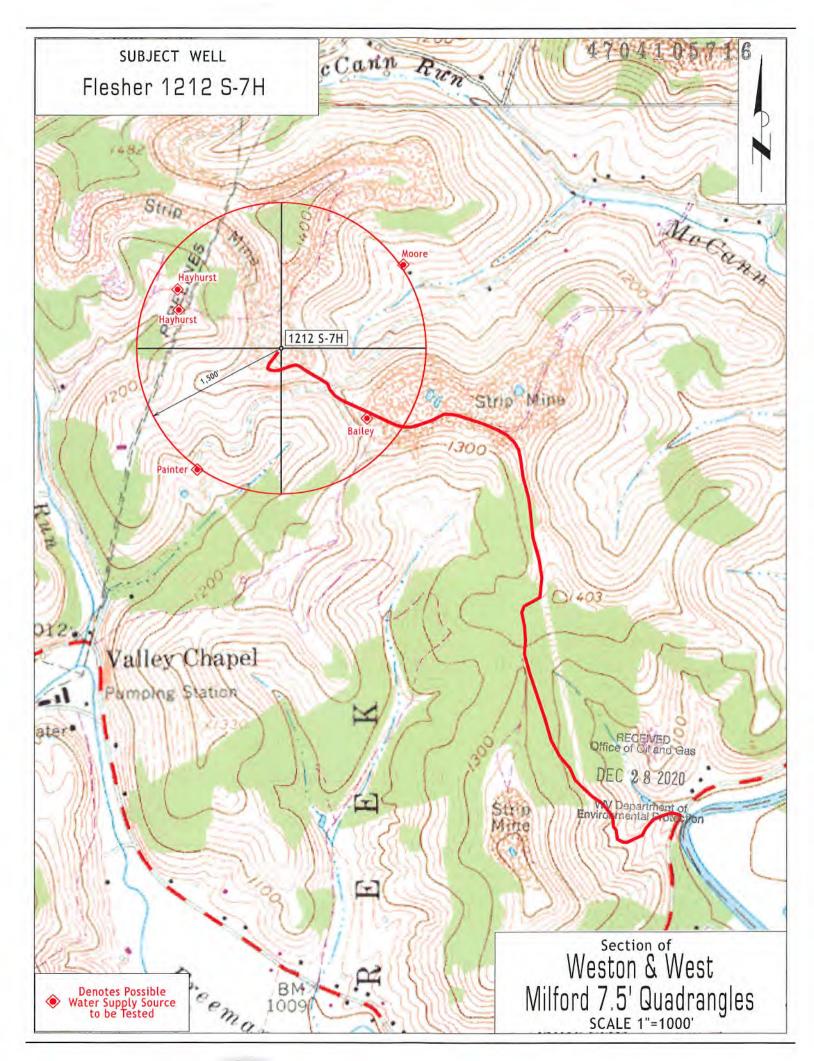
Mary Elen Nicholson 1149 Millstone Road Weston, WV 26452

# 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 § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Date of Notic		Notice shall be provided at least  Date Permit A	t TEN (10) days prior to filing a Application Filed: 12/21/2020	permit application	
Delivery met	hod pursuant	to West Virginia Code § 22-6A	-16(b)		
☐ HAND DELIVE		CERTIFIED MAIL RETURN RECEIPT REQUES	TED		
receipt reques drilling a hori of this subsec subsection me and if availab	ted or hand del zontal well: P tion as of the day be waived in le, facsimile nu	livery, give the surface owner no rovided. That notice given pursuate the notice was provided to the writing by the surface owner. In the surface owner and electronic mail address.	or to filing a permit application, otice of its intent to enter upon the uant to subsection (a), section to surface owner: <i>Provided, how</i> The notice, if required, shall include the operator and the operator of the operator and the operator of the operat	ne surface owner's in of this article sa vever, That the not ude the name, add or's authorized represent the roticed	land for the purpose of tisfies the requirements ice requirements of this ress, telephone number, resentative.  RECEIVED Office of Oil and Gas
Name: HG Energy II Appalachia, LLC		Name:		DEC 2 8 2020	
Address: 5260 Dupont Road			Address:		
Parke	rsburg, WV 26101				WV Department of Environmental Protection
the surface ov		the purpose of drilling a horizon	tal well on the tract of land as for	llows: 544298.2	
State: County:	West Virginia Lewis		UTM NAD 83 Northing:	4330023.8	
			Public Road Access:	4330023.8 Kincheloe Run Rd to V	alley Chapel Road
County: District: Quadrangle:	Lewis		Northing:		alley Chapel Road
County; District:	Lewis Freemans Creek		Public Road Access:	Kincheloe Run Rd to V	alley Chapel Road
County: District: Quadrangle: Watershed:  This Notice Pursuant to V facsimile nun related to hor	Lewis Freemans Creek Weston 7.5' Middle West Fork  Shall Include West Virginia There and electriziontal drilling	e: Code § 22-6A-16(b), this notice mail address of the operate may be obtained from the Sec	Public Road Access:	Kinchelae Run Rd to V Flesher ress, telephone nu ed representative. of Environmental F	mber, and if available, Additional information Protection headquarters,
County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor located at 601	Lewis Freemans Creek Weston 7.5' Middle West Fork  Shall Include West Virginia There and electriziontal drilling	e: Code § 22-6A-16(b), this notice ronic mail address of the operate may be obtained from the Sec. Charleston, WV 25304 (304-9).	Public Road Access: Generally used farm name:  ee shall include the name, additor and the operator's authorize retary, at the WV Department of	Kinchelae Run Rd to V Flesher ress, telephone nu ed representative. of Environmental F	mber, and if available, Additional information Protection headquarters, gas/pages/default.aspx.
County: District: Quadrangle: Watershed:  This Notice Pursuant to V facsimile nun related to hor located at 601  Notice is he	Lewis Freemans Creek Weston 7.5' Middle West Fork  Shall Includ West Virginia nber and electrizontal drilling 57 <sup>th</sup> Street, SE	e: Code § 22-6A-16(b), this notice ronic mail address of the operation of the operation of the Sec E, Charleston, WV 25304 (304-9).	Public Road Access: Generally used farm name:  ee shall include the name, additor and the operator's authorize retary, at the WV Department of	Flesher  ress, telephone nued representative. If Environmental Fep.wv.gov/oil-and-	mber, and if available, Additional information Protection headquarters,
County: District: Quadrangle: Watershed:  This Notice Pursuant to V facsimile nun related to hor located at 601  Notice is he	Lewis Freemans Creek Weston 7.5' Middle West Fork  Shall Include West Virginia Inber and electriziontal drilling 57th Street, SE  reby given by	e: Code § 22-6A-16(b), this notice ronic mail address of the operation of the Sec. Charleston, WV 25304 (304-9); Appalachia, LLC	Public Road Access: Generally used farm name:  the shall include the name, addition and the operator's authorize retary, at the WV Department of 226-0450) or by visiting www.de	Flesher  ress, telephone nued representative. If Environmental Fep.wv.gov/oil-and-	mber, and if available, Additional information Protection headquarters, gas/pages/default.aspx.
County: District: Quadrangle: Watershed:  This Notice Pursuant to V facsimile nun related to hor located at 601  Notice is he Well Operato	Lewis Freemans Creek Weston 7.5' Middle West Fork  Shall Include West Virginia The and electrizental drilling 57th Street, SF  reby given by The Energy II A	e: Code § 22-6A-16(b), this notice ronic mail address of the operation of the Sec E, Charleston, WV 25304 (304-9); Appalachia, LLC Road	Public Road Access: Generally used farm name:  see shall include the name, additor and the operator's authorize retary, at the WV Department of 226-0450) or by visiting www.de	Rincheloe Run Rd to V Flesher  ress, telephone nu ed representative. of Environmental F ep.wv.gov/oil-and-	mber, and if available, Additional information Protection headquarters, gas/pages/default.aspx.
County: District: Quadrangle: Watershed:  This Notice Pursuant to V facsimile nun related to hor located at 601  Notice is he Well Operato	Lewis Freemans Creek Weston 7.5' Middle West Fork  Shall Includ West Virginia mber and electrizontal drilling 57th Street, SF  reby given by T: HG Energy II A 5260 Dupont F	e: Code § 22-6A-16(b), this notice ronic mail address of the operation of the operation of the context of the context of the operation of the context of the	Public Road Access: Generally used farm name:  see shall include the name, additor and the operator's authorize retary, at the WV Department of 226-0450) or by visiting www.de	ress, telephone nued representative. of Environmental Fep.wv.gov/oil-and-	mber, and if available, Additional information Protection headquarters, gas/pages/default.aspx.
County; District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor located at 601 Notice is he Well Operato Address:	Lewis Freemans Creek Weston 7.5' Middle West Fork  Shall Include West Virginia Inber and electrizontal drilling 57th Street, SE  reby given by T: HG Energy II A  5260 Dupont F  Parkersburg, V	e: Code § 22-6A-16(b), this notice ronic mail address of the operation of the operation of the context of the operation of the second of the context of the	Public Road Access: Generally used farm name:  ee shall include the name, additor and the operator's authorize retary, at the WV Department of 226-0450) or by visiting www.de  Authorized Representative: Address:	ress, telephone nued representative.  of Environmental Fep.wv.gov/oil-and-  Diane White  5260 Dupont Road  Parkersburg, WV 26	mber, and if available, Additional information Protection headquarters, gas/pages/default.aspx.

### 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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

WW-6A5 (1/12)

# Operator Well No. Flesher 1212 S-7H

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

Notice Time Date of Notic	Requirement: notice shall be provided et   21/15/2020	no later than the filing Application Filed: 12/2	date of permit	application.	
Delivery met	hod pursuant to West Virginia Code	§ 22-6A-16(c)			
■ CERTI	FIED MAIL	] HAND			
and the second	RN RECEIPT REQUESTED	DELIVERY			
return receipt the planned of required to be drilling of a damages to the	V. Va. Code § 22-6A-16(c), no later the requested or hand delivery, give the supperation. The notice required by this exprovided by subsection (b), section tenderizontal well; and (3) A proposed suppersure surface affected by oil and gas operates required by this section shall be give	reface owner whose land s subsection shall include n of this article to a surfa- irface use and compensations to the extent the da	will be used for de: (1) A copy ace owner whos ation agreemen mages are comp	or the drilling of a hor of this code section in the used to the used to containing an offormable under articles.	orizontal well notice of m; (2) The information in conjunction with the er of compensation for cle six-b of this chapter.
Notice is her	eby provided to the SURFACE OWN is listed in the records of the sheriff at th	NER(s) * H& Enc	gy not no	ticed	RECEIVED Office of Oil and Gas
	Energy II Appalachia LLC	Name:			DEC 28 2020
Address: 526		Address	3.		DEC 29 7070
Notice is her	ersburg, WV 26101 eby given: Vest Virginia Code § 22-6A-16(c), notic	ce is hereby given that the	ne undersigned v	well operator has d	WV Department of Environmental Protection
operation on	the surface owner's land for the purpos	se of drilling a horizonta	I well on the tra	ct of land as follow	rs:
State:	West Virginia	UTM NAD 8	Easting:	544298.2	
County:	Lewis		Northing:	4330023,8	
District:	Freemans Creek	Public Road		Kincheloe Rd / Valley Cl	hapel Road
Quadrangle:	Weston 7.5'	Generally use	ed farm name:	Flesher	
Pursuant to V to be provid horizontal we surface affect information of	Shall Include:  Vest Virginia Code § 22-6A-16(c), this ed by W. Va. Code § 22-6A-10(b) to ell; and (3) A proposed surface use and ted by oil and gas operations to the extellated to horizontal drilling may be of located at 601 57th Street, SE, Chefault.aspx.	a surface owner whose compensation agreeme tent the damages are co btained from the Secret	e land will be unt containing an ompensable und arry, at the WV	used in conjunction offer of compensa- ler article six-b of Department of Er	n with the drilling of a attion for damages to the this chapter. Additional avironmental Protection
Well Operato	DF: HG Energy II Appalachia, LLC	Address:	5260 Dupont Road		
Telephone:	304-420-1119		Parkersburg, WV 26	3101	
Email:	dwhite@hgenergyllc.com Diane i	White Facsimile:	304-863-3172		
	A 37 A 1 0				

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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.



# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

August 17, 2020

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

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

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

Subject: DOH Permit for the Flesher 1212 Pad, Lewis County Flesher S-7H Well Site RECEIVED Office of Oil and Gas

DEC 28 2020

WV Department of Environmental Protection

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,

Gary K. Clayton, P.E.

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
To Shale Silk 165		7647-14-5
		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
10 1110 11		68607-28-3
		107-21-1
		111-76-2
		67-56-1
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
Silica Salia alia Grouna Salia	TVII/CCI C	1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROCEL 4.F	64742-96-7	
PROGEL - 4.5	04742-30 7	
BIO CLEAR 2000	Mixture	25322-68-3
BIO CLEAR 2000	Mixedie	10222-01-2
SCALE CLEAR SI 112	107-21-1	
SCALE CLEAN SI 112		
PROBREAK 4	Mixture	57-50-1
I NODILAN T		107-21-1
Sulfamic Acid	5329-14-6	
Sundinic Aciu	3323 14 0	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	

RECEIVED
Office of Oil and Gas

DEC 28 2020

