

west virginia department of environmental protection

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

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

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-8H 47-041-05717-00-00

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

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

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

James A. Martin Chief

Operator's Well Number: FLESHER 1212 S-8H Farm Name: FLESHER U.S. WELL NUMBER: 47-041-05717-00-00 Horizontal 6A New Drill Date Issued: 1/29/2021

Promoting a healthy environment.

### PERMIT CONDITIONS

4704105717

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

### CONDITIONS

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

**API Number:** 

### PERMIT CONDITIONS

4704105717

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.
- 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."

### <u>ORDER</u>

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.

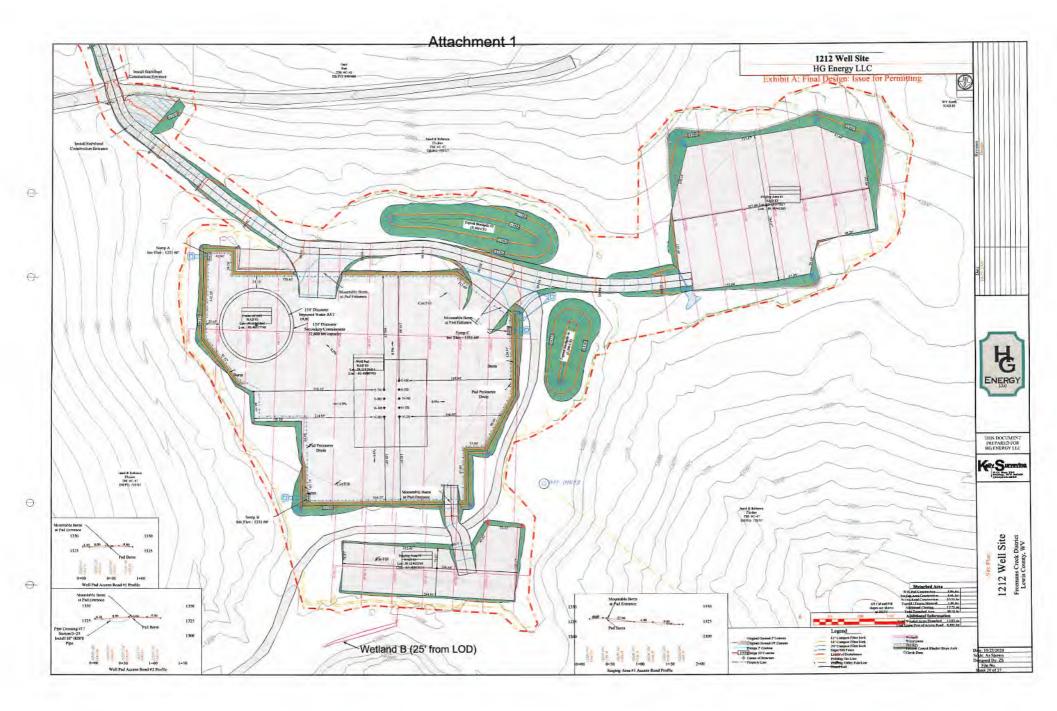
Thus ORDERED, the 13th day of November 2020.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By: \_\_\_\_\_

JAMES A. MARTIN, CHIEF



API NO. 47 70 4105717

WW-6B (04/15)

OPERATOR WELL NO. Flesher 1212 S-8H Well Pad Name: Flesher 1212

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

1) Well Operat	or: HG En	nergy II Appa	alachia, 🛔	494519932	Lewis	Freeman	Weston 7.5'
· •				Operator ID	County	District	Quadrangle
2) Operator's V	Well Numbe	r: Flesher 1	212 S-8H	Well Pa	d Name: Fl	esher 1212	
3) Farm Name	/Surface Ow	vner: Fleshe	er	Public Ro	ad Access:	SR19 to Kincheloe R	tun Rd to Valley Chapel Rd
4) Elevation, c	urrent groun	nd: <u>1338'</u>	El	evation, proposed	l post-constr	uction: <u>1332'</u>	
5) Well Type	(a) Gas Other	<u>x</u>	_ Oil	Unc	lerground St	orage	
	(b)If Gas	Shallow Horizontal	x x	Deep			
6) Existing Pac	1: Yes or No						
· •	•	••• =		ipated Thickness nticipated pressure	-	d Pressure(s):	
8) Proposed To	otal Vertical	Depth: 69	25'				RECEIVED Office of Oil and Gas
9) Formation a			Marcellu	S			DEC 29 2020
10) Proposed 7	fotal Measu	red Depth:	14368'				WV Department of Environmental Protection
11) Proposed H	Horizontal L	eg Length:	6742'				
12) Approxima	ate Fresh Wa	ater Strata De	epths:	105', 273', 302'			
13) Method to	Determine I	Fresh Water I	Depths: 1	Nearest offset we	ell data, (47	-041-5338, 02	18)
14) Approxima	ate Saltwater	r Depths: 10	028' (Nea	rest offset well da	ita, 47-041-1	673)	
15) Approxima	ate Coal Sea	m Depths: 4	20', 525' 830	)' (Surface casing is	being extended	to cover the coal	in the DTI Storage Field)
16) Approxima	ate Depth to	Possible Voi	d (coal mi	ine, karst, other):	None		
17) Does Prop directly overly				ns Yes		No X	
(a) If Yes, pr	ovide Mine	Info: Name	:				
		Deptł	ı:				
		Seam	:				

Bany Stilly 12-18-20

4704105717 API NO. 47-\_\_\_\_

OPERATOR WELL NO. Flesher 1212 S-8H Well Pad Name: Flesher 1212

WW-6B (04/15)

18)

### CASING AND TUBING PROGRAM

ТҮРЕ	<u>Size</u> (in)	<u>New</u> <u>or</u> <u>Used</u>	<u>Grade</u>	<u>Weight per ft.</u> (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (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	14368'	14368'	CTS
Tubing							
Liners							

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

RECEIVED Office of Oil and Gas

DEC 292020

### PACKERS

-

B.S. 12-18-20

### 19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 6925 feet. Drill horizontal leg to estimated 6,742' lateral length, 14,368' TMD. Hydraulically fracture stimulate and be capable of producing from the Marcellus Formation. Should we encounter an unanticipated void in the coal, we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface. We plan to run an ACP above the Gantz/Dominion Storage interval to aid in sealing off and isolating the storage interval.

### 20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

The stimulation will be completed with multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Slickwater fracturing technique will be utilized on each stage using sand, water, and chemicals. See attached list. Maximum pressure not to exceed 12,500 psi.

### 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 33.17 acres

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

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

No centralizers will be used with conductor casing Bow Spring on every joint, will also be running
 Bow Spring on first 2 joints then every third joints

### 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% Excess Yield = 1.20, CTS Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS Excess, Tail: 15.9 ppg, PNE-1 + 2.5% bwoc CaCl, zero% Excess, CTS bwoc EC1 + 0.75 cal/sk FP13L + 0.3% bwoc MPA170. Tail: 14.8 poo F nediate 1 - Lead: 15.4 ppg PNE-1 + 2.5% | nediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% | xction - Lead: 14.5 ppg POZ:PNE-1 + 0.3 MPA170 20% Excess, Lead Yield=1.19, Tail YieRECEIVED Office of Oil and Gas DEC 292020 ÷

### 25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD. Fresh Water/Coal - Once casing is at setting

n at TD. Circulate a πυταγγ n mud at TD. Circulate a n n mud at TD. Circulate a n

+

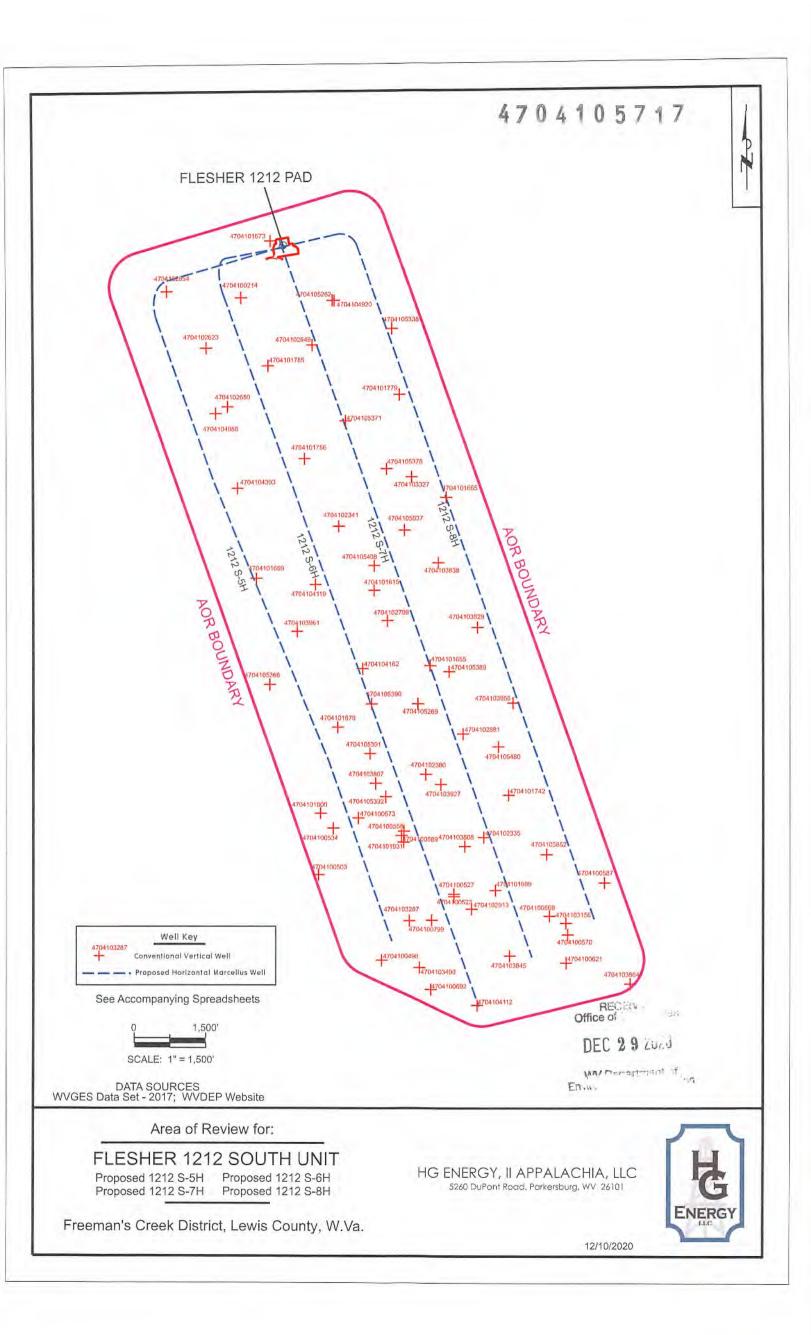
### HG Energy II Appalachia, LLC Flesher 1212 Well Pad (N-1H, N-2H, N-3H, N-4H, N-9H, S-5H, S-6H, S-7H, S-8H) Cement Additives

	Material Type	Material Description Premium NE-1 is a	CAS #	%	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide	1-5	1305-78-8 1309-48-4
		strength properties.	Magnesium oxide Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7
emium NE-1	Portland Cement		Contraction of the second se		
		Commonly called gel, it is	Installant same	%	CAS number
		a clay material used as a	Ingredient name bentonite	90 - 100	1302-78-9
		cement extender and to control excessive free water.	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
ntonite	Extender	THE			
		A powdered, flaked or	In south and the second	%	CAS number
		pelletized material used	Ingredient name Calcium chloride	90 - 100	10043-52-4
		to decrease thickening time and increase the rate of strength development	Calcium catorine		
lcium Chloride	Accelerator	er en en gen er			
		Graded (3/8 to 3/4 inch)	Ingredient name	a%	CAS number
		cellophane flakes used as	No hazardous ingredient		
llo Flake	Lost Circulation	a lost circulation material.			
		FP-13L is a clear liquid			
		organic phosphate antifoaming agent used in			1
		cementing operations. It	Ingredient name	%	CAS number
		is very effective	Tributyl phosphate	90 - 100	126-73-8
		minimizing air			RECEIVED fice of Oil and Gas
		entrapment and preventing foaming		Of	fice of Oil and Gas
		tendencies of latex		-	DEC 0 0 2020
1 1 2 1	Foam Dreventor	systems.		1	DEC 29 2020
2-13L	Foam Preventer		Investigat name	1%	W Depastment of
		Used to retard cement	Ingredient name Sucrose	90 - 100EnV	W Depastanes of ironmerial Protectio
ranulated Sugar	Retarder	returns at surface.	Suciose	Se loopin	
		A proprietary product that provides expansive			
		properties and improves	V DITT H-TH LOND	%	CAS number
		bonding at low to	Ingredient name Calcium magnesium oxide		
		moderate		190 - 100	37247-91-9
		moderate temperatures.	Calcium magnesium oxide	90 - 100	37247-91-9
-1		temperatures.	Calcium magnesium oxide	90 - 100	37247-91-9
21					CAS number
-1		temperatures, Multi-purpose polymer additive used to control free fluid, fluid loss,	Ingrédient name No hazardous ingrédient	90 - 100	
C-1 1PA-170	Gas Migration	temperatures. Multi-purpose polymer additive used to control	Ingredient name		
	Gas Migration	temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration.	Ingredient name		
	Gas Migration	temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan,	Ingredient name No hazardous ingredient		
	Gas Migration	temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas rnigration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with	Ingredient name No hazardous ingredient		
	Gas Migration	temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be	Ingredient name No hazardous ingredient		
	Gas Migration	temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create	Ingredient name No hazardous ingredient Ingredient name Crystalline sillica: Quartz (SiO2)	% % 5 - 10	CAS number CAS number 14808-60-7
	Gas Migration	temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be	Ingredient name No hazardous ingredient	%	CAS number
	Gas Migration	temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate	Ingredient name No hazardous ingredient Ingredient name Crystalline sillica: Quartz (SiO2)	% % 5 - 10	CAS number CAS number 14808-60-7
	Gas Migration	temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion	Ingredient name No hazardous ingredient Ingredient name Crystalline sillica: Quartz (SiO2)	% % 5 - 10	CAS number CAS number 14808-60-7
PA-170	Gas Migration	temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate	Ingredient name No hazardous ingredient Ingredient name Crystalline sillica: Quartz (SiO2)	% % 5 - 10	CAS number CAS number 14808-60-7
PA-170		temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.	Ingredient name No hazardous ingredient Ingredient name Crystalline sillica: Quartz (SiO2)	% % 5 - 10	CAS number CAS number 14808-60-7
PA-170		temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion	Ingredient name No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide	% % 5 - 10	CAS number CAS number 14808-60-7
PA-170		temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry	Ingredient name No hazardous ingredient Ingredient name Crystalline sillica: Quartz (SiO2)	% % 5 - 10 1 - 5	CAS number CAS number 14808-60-7 1305-78-8
IPA-170		temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name         No hazardous ingredient         Ingredient name         Crystalline silica: Quartz (SiQ2)         Calcium oxide         Ingredient name         Organic acid salt	% % 5 - 10 1 - 5 %	CAS number CAS number 14808-60-7 1305-78-8 CAS number
PA-170 pz (Fiy Ash)		temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry	Ingredient name         No hazardous ingredient         Ingredient name         Crystalline silica: Quartz (SiQ2)         Calcium oxide         Ingredient name         Organic acid salt	% % 5 - 10 1 - 5 %	CAS number CAS number 14808-60-7 1305-78-8 CAS number
	Base	temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name         No hazardous ingredient         Ingredient name         Crystalline silica: Quartz (SiO2)         Calcium oxide         Ingredient name         Organic acid salt	%           %           5 - 10           1 - 5           1 - 5           %           40 - 50	CAS number CAS number 14808-60-7 1305-78-8 CAS number Trade secret
IPA-170 Dz (Fiy Ash)	Base	temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name         No hazardous ingredient         Ingredient name         Crystalline silica: Quartz (SiO2)         Calcium oxide         Ingredient name         Organic acid salt         Ingredient name	% % 5 - 10 1 - 5 %	CAS number CAS number 14808-60-7 1305-78-8 CAS number
IPA-170 Dz (Fiy Ash)	Base	temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name         Ingredient name         Crystalline silica: Quartz (SiO2)         Calcium oxide         Ingredient name         Organic acid salt         Ingredient name         2-Butoxyethanol         Proprietary surfactant	%           %           5 - 10           1 - 5           %           40 - 50           %           20 - 30           10 - 20	CAS number CAS number 14808-60-7 1305-78-8 CAS number Trade secret. CAS number 111-76-2 Trade secret.
IPA-170 Dz (Fiy Ash)	Base	temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name         No hazardous ingredient         Ingredient name         Crystalline silica: Quartz (SiO2)         Calcium oxide         Ingredient name         Organic acid salt         Ingredient name         2-Butoxyethanol         Proprietary surfactant         D-Glucopyranose, oligomeric, C10-16-alkyl glycosides         Alkylarydsulfonate amine salt	%           %           5 - 10           1 - 5           %           40 - 50           %           20 - 30	CAS number CAS number 14808-60-7 1305-78-8 CAS number Trade secret. CAS number 111-76-2

×	×	x	Х	Onondaga X	6927 X		x	X	X THE NO	AR CONTRACTOR AND Atternal CONTRACTOR AND ATTERNATION AND ATTERNATION	X
		8.5" Lateral		TMD / TVD (Production)	14368	6925	11.5ppg- 12.5ppg SOBM	NARY.	DEC	л	
				Hamilton Marcellus	6845	6753	-	Tail Yield=1.94 CTS			
				Tully Limestone	6751 6815	6815 6753		20% Excess Lead Yield=1.19	1st 5.5" long joint to the top of the curve.	volume prior to pumping cement.	
				Burkett	6660	6751	-	bwoc MPA170	every 3 joints from the	minimum of one hole	due to hole condition
		8.5" Curve	P-110 HP CDC HTQ	West River	6625	6660	12.5ppg SOBM	gal/sk FP13L + 50% bwoc ASCA1 + 0.5%	Run 1 spiral centralizer	pressures indicate the hole is clean. Circulate a	Note:Actual centraliz schedules may be char
×	×	12223	23#	Middlesex	6526	6625	11.5ppg-	0.35% bwoc R3 + 0.75	1	returns and pump	Burst=16240 psi
	-		5-1/2"	Cashaqua	6445	6526		MPA170 Tail: 14.8 ppg PNE-1 +		allowable pump rate for at least 2x bottoms up, or until	Production casing = 0. wall thickness
				Rhinestreet	6256	6445	-	EC1 + 0.75 gal/sk FP13L + 0.3% bwoc		casing, circulate at max	and the second second
							1.	bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk		Once on bottom/TD with	
		o.re venical		Benson	4370	4382	SOBM	Lead: 14.5 ppg POZ:PNE-1 + 0.3%	top of the curve to surface.		
		8.75" Vertical		Balltown	3278	3350	AIR / 9.0ppg	Some same	every 5 joints from the		
X	X		1.0	Speechley	3078	3089	1.2		Run 1 spiral centralizer	hole volume prior to pumping cement.	Burst=3950 psi
				Intermediate 2	0	2900		zero% Excess. CTS			
x	x		0.00010	Bayard Sand	2450	2480	Polymer	CaCl			
1.		12.25"	9-5/8" 40# J-55 BTC	5th Sand	2374	2416	Salt	40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc		condition mud at TD. Circulate a minimum of one	wall thickness
				Gordon Stray / Gordon	2128 / 2198	2198 / 2288	AIR / KCL	2.5% bwoc CaCl	Bow Spring on first 2	depth, Circulate and	Intermediate casing = 0
x	x			Fifty / Thirty Foot	2008 / 2105	2033 / 2128	i	Lead: 15.4 ppg PNE-1 +	11	Once casing is at setting	
				Intermediate 1	0	2100		zero% Excess. CTS	storage zone*	cement.	
	X	17.5	J-55 BTC	Injun / Gantz (Storage)	1613 / 1898	1718/1958	Polymer	ppg PNE-1 + 2.5% bwoc CaCl	ACP for isolating	minimum of one hole volume prior to pumping	Burst=3450 psi
		17.5"	13-3/8" 68#	Big Lime	1548	1613	AIR / KCL Salt	2.5% bwoc CaCl 40% Excess / Tail: 15.9	joint	depth, Circulate and condition at TD. Circulate a	Intermediate casing = 0. wall thickness
<	X			Protection				Lead: 15.4 ppg PNE-1 +	Bow Spring on every	Once casing is at setting	
	×	20	94# J-55	Fresh Water	0	1000	1.0.5	40% Excess Yield=1.20 / CTS	joints to surface	Fresh Water prior to pumping cement.	Burst=2110 psi
	×	26"	20"	Fresh Water Kittaning Coal	987	273 992	AIR	15.6 ppg PNE-1 + 3% bwoc CaCl	Centralized every 3	depth, circulate a minimum of one hole volume with	Surface casing = 0.438" thickness
	×	-		Conductor	0	120				Once casing is at setting	
		30"	30" 157.5# LS			-	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" thickness
WELLBORE	DIAGRAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
Azr	m		160.53	9°	1	1212 \$	S-8H BH	IL	14	199791.51N 17895	and the first second second
Ground E	levation		1332.	2'		1212	S-8H LI	P	1	206145.91N 17872	
			_			1212 \$	S-8H SH	IL		206101.35N 17857	
ERGY									Lewis Co		
ERGY									Marcellus Sha		

			FLESHE	EXISTING WELLS LOCATED WIT			н			
ст	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUD
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	4	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	-80.464103
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	-80,47693
15	4704101615	Lewis	Sophia Butcher	Dominion Energy Transmission, Inc.	Benson	Gas	4210	ACTIVE	39.098539	-80.48104
16	4704101655	Lewis	Sophia Butcher	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	4120	ACTIVE	39.094203	-80.47694
17	4704101665	Lewis	Charles F Bailey	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4250	ACTIVE	39.103826	-80.47564
18	4704101669	Lewis	Charles I Bailey	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4110	ACTIVE	39.099278	-80.489786
19	4704101670	Lewis	J W Norris	Alliance Petroleum, Co., LLC	Benson	Gas	4425	ACTIVE	39.090722	-80.48382
20	4704101673	Lewis	Cecil I Dempsey	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4509	ACTIVE	39.118627	-80.488538
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	Dovle 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
20	4704102333	Lewis	Edna Brown	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4280	ACTIVE	39.102228	-80.483644
30	4704102341	Lewis	Burt Keister	Alliance Petroleum, Co., LLC	Hampshire Grp	Gas	2000	ACTIVE	39.087967	-80.477313
31	4704102580	Lewis		Dominion Energy Transmission, Inc.	Unkown	Storage	2000	ACTIVE	39.112510	-80.493384
		Lewis	Geo Norris	Dominion Energy Transmission, Inc.	Unkown		-	ACTIVE	39.112620	-80.48551
32	4704102649		George Norris		Unkown	Storage	1	ACTIVE	39.109140	-80.491838
33	4704102650 4704102709	Lewis Lewis	Ira L. Queen Sophia Butcher	Dominion Energy Transmission, Inc. Consolidated Gas Supply Corp.	Unkown	Storage not available	-	ABANDONED	39.109140	-80.491830

5	4704102854	Lewis	J S Norris	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.115783	-80.49627
5	4704102881	Lewis	WVU Board of Governors	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	4250	ACTIVE	39.090287	-80,47452
7	4704102913	Lewis	John J Oldaker III	Jackson Fuel Corporation	Benson	Gas	4384	ACTIVE	39.080236	-80.47396
8	4704103156	Lewis	John F Wyant 1	Clem Energy, LLC	Elk	Gas	5757	ACTIVE	39.078351	-80.46633
9	4704103287	Lewis	Michael F Tierney Jr et al	Alliance Petroleum, Co., LLC	Brallier	Gas	5891	ACTIVE	39.079584	-80.47859
10	4704103327	Lewis	Rizpah B Carpenter	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	2380	PLUGGED	39,105009	-80.47821
11	4704103490	Lewis	Martha Queen 1-A	Prince Petroleum, Inc.	Benson	Gas	4287	ABANDONED	39.076900	-80.47786
12	4704103807	Lewis	Martha Carpenter	Alliance Petroleum, Co., LLC	Brallier	Gas	6050	ACTIVE	39.087478	-80.48102
13	4704103808	Lewis	Amy B Dent	Alliance Petroleum, Co., LLC	Brallier	Gas	5980	ACTIVE	39.084487	-80.47414
14	4704103829	Lewis	David Hamrick	Alliance Petroleum, Co., LLC	Brallier	Gas	5791	ACTIVE	39.096668	-80.47322
15	4704103838	Lewis	Charles F. Bailey	Dominion Energy Transmission, Inc.	Benson	Gas	4314	ACTIVE	39.100088	-80,47627
16	4704103845	Lewis	Alva Butcher	Alliance Petroleum, Co., LLC	Benson	Gas	4984	ACTIVE	39.077626	-80.47079
47	4704103852	Lewis	Patricia Hall	Alliance Petroleum, Co., LLC	Benson	Gas	4264	ACTIVE	39.083327	-80.46838
18	4704103864	Lewis	Vivian Thompson 1	Alliance Petroleum, Co., LLC	Benson	Gas	4225	ACTIVE	39.075885	-80.46224
49	4704103927	Lewis	Word of Life Christians	Diversified Resources, Inc.	Benson	Gas	4170	ACTIVE	39.087387	-80.47619
50	4704103956	Lewis	WV Board of Control	Devonian Gas Production, Inc.	Greenland Gap Fm	Gas w/ Oil Show	4230	ACTIVE	39.092028	-80.47080
51	4704103961	Lewis	John Norris	Enervest Operating, LLC	Benson	Gas	4280	ACTIVE	39.096233	-80.48680
52	4704104119	Lewis	Patricia Jo Beeson 1	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	4190	ACTIVE	.39.098896	-80.48539
53	4704104162	Lewis	Michael L/Judy K Huntz	Berry Energy, Inc.	Greenland Gap Fm	Gas	4210	ACTIVE	39.094058	-80.48196
54	4704104393	Lewis	Richard D Carpenter	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4312	ACTIVE	39.104455	-80.49113
55	4704104920	Lewis	Charles Bailey	Dominion Energy Transmission, Inc.	Misc Sands-BNSN/BRLR	Gas	4579	ACTIVE	39,115176	-80.48384
56	4704104958	Lewis	Richard W Dunham	Dominion Energy Transmission, Inc.	Misc Sands-BNSN/BRLR	Gas	4449	ACTIVE	39,108761	-80.49272
57	4704105037	Lewis	Kenneth L Hunt	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	3561	ACTIVE	39.101975	-80.47877
58	4704105262	Lewis	Charles Bailey	Dominion Energy Transmission, Inc.	Weir	Gas	1776	ACTIVE	39.115179	-80.48397
59	4704105269	Lewis	Edwin Lee Bowyer II	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	4160	ACTIVE	39.092028	-80.47787
60	4704105338	Lewis	Fred A Bailey	Dominion Energy Transmission, Inc.	Price Fm & equivs	Gas	1683	ACTIVE	39.113523	-80.47957
61	4704105368	Lewis	Edward Earl Garrett	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	4470	ACTIVE	39.093188	-80.48885
62	4704105371	Lewis	Scott A Carpenter	Dominion Energy Transmission, Inc.	Price Fm & equivs	Gas	1530	ACTIVE	39.108271	-80,48308
63	4704105378	Lewis	Charles F Bailey	Dominion Energy Transmission, Inc.	Price Fm & equivs	Gas	1777	ACTIVE	39.105497	-80.48006
64	4704105389	Lewis	Lee Matthew McWhorter	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	2244	ACTIVE	39.093854	-80.47552
65	4704105390	Lewis	Mary Lou Curry	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	2480	ACTIVE	39.092043	-80.48129
66	4704105391	Lewis	Mary Lou Curry	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	2531	ACTIVE	39.089187	-80.48143
67	4704105392	Lewis	Mary Lou Curry	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	2531	ACTIVE	39.086712	-80.48029
68	4704105408	Lewis	Deborah D Hunt	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	3386	ACTIVE	39.100004	-80.48141
69	4704105480	Lewis	WV University Board of Gov	Devonian Gas Production	Benson	Gas	4248	ACTIVE	39.089518	-80.47191
0110	CE: W/VGES DAT	TASET (201	7) and WVDEP WEBSITE AND		YELLOW DENOTE	S WELL WITH TVD > 4,50	0'	GREEN DE	NOTES SURVEYED	WELLS



**WW-9** (4/16)

API Number 47 -

Operator's Well No. Flesher 1212 S-8H

### 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 con Will a pit be used? Yes No	nplete the proposed well work? Yes 🖌 No
If so, please describe anticipated pit waste: NA	
Will a synthetic liner be used in the pit? Yes	No 🖌 If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Per	mit Number)
Reuse (at API Number TBD - At ne	xt anticipated well
Off Site Disposal (Supply form W Other (Explain	/W-9 for disposal location)
Drilling medium anticipated for this well (vertical and horizo	nd fluids will be collected in a closed loop system, re-used or hauled to an approved disposal sile or landfill.
-If oil based, what type? Synthetic, petroleum, etc.	
Additives to be used in drilling medium? Water, Soap, KCl, B	arite, Base Oil, Wetting Agents
Drill cuttings disposal method? Leave in pit, landfill, remov	ed offsite, etc. Approved Landfill Office of Oil and Gas
-If left in pit and plan to solidify what medium will	be used? (cement, lime, sawdust) NA DEC 2 9 2020
-Landfill or offsite name/permit number? See Attack	wv Department of wv Department of
Permittee shall provide written notice to the Office of Oil and West Virginia solid waste facility. The notice shall be provid where it was properly disposed.	d Gas of any load of drill cuttings or associated waste rejected at any ed within 24 hours of rejection and the permittee shall also disclose

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

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

Company Official Signature_	Diane	white		
Company Official (Typed Nat	me) Diane White			
Company Official Title	Agent			
Subscribed and swom before r	ne this 15th	day of December	, 20 20	
- 41.	lee		Notary Public	OFFICIAL SEAL NOTARY PUBLIC. STATE OF WEST VIRGINIA MARK J SCHALL H G Energy LL C
My commission expires(	1/2/202	1		PO Box 5519, Vienna, WV 20106 My Commission Explore November 2, 2021

Bany-

PO Box 5519, Vienna, WV 28105 My Commission Explies November 2, 2021

**4704105717** Operator's Well No. Flesher 1212 S-8H

### HG Energy II Appalachia, LLC

ment: Acres Disturbed	32.75	Prevegetation pl	H
3 Tons/acre or to corre	ect to pH6.5		
-20-20			
5	00 lbs/acre		
	2_Tons/acre		
mporary	<u>Seed Mixtures</u>	Perma	anent
lbs/acre		Seed Type	lbs/acre
40	Tall F	escue	40
5	Ladin	o Clover	5
	3 Tons/acre or to corre -20-20 5 mporary lbs/acre 40	-20-20 500 lbs/acre 2 Tons/acre Seed Mixtures mporary lbs/acre 40 Tall F	3 Tons/acre or to correct to pH       6.5         -20-20       500 lbs/acre         2 Tons/acre       2 Tons/acre         Seed Mixtures         Perma         lbs/acre       Seed Type         40       Tall Fescue

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

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: KK Jon BS See page 1 Comments: Pre-seed/mulch as soon as reasonably possible per	regulation
comments:	
Upgrade E&S if needed per WV DEP E&S manual.	
	RECEIVED Office of Oil and Gas DEC 292020
	WV Department of Environmental Protect
	Environmental Protect
itle: Oil & Gas Inspector Date:	
eld Reviewed? ( ) Yes ( ) No	

# **Cuttings Disposal/Site Water**

### Cuttings --Haul off Company:

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

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

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

Disposal Locations:

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

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

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

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

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

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

Waste Management South Hills (Arnoni) Permit # 100592

RECEIVED Office of Oil and Gas

DEC 292020

WV Department of Environmental Protection

....

412-384-7569 Waste Management Arden Permit # 100172 200 Rangos Lane

Washington, PA 15301 724-222-3272

3100 Hill Road Library, PA 15129 724-348-7013

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

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

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

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

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

### Water Haul off Companies:

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

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

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

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

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

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

**Disposal Locations:** 

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

Solidification/Incineration Soil Remediation, Inc. Permit # 02-20753 6065 Arrel-Smith Road LowelvIIIe, OH 44436 330-536-6825

Adams #1 (Buckeye Brine, LLC) Permit # 34-031-2-7177 23986 Airport Road Coshocton, OH 43812 740-575-4484 512-478-6545 RECEIVED Office of Oil and Gas

### DEC **2 9 2020**

WV Department of Environmental Protection

CMS of Delaware Inc. DBA CMS Olifield Serv 301 Commerce Drive Moorestown, NJ 08057

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

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

Equipment Transport 1 Tyler Court Carlisle, PA 17015

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

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

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

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

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 43767 614-648-8898 740-796-6495 Adams #2 (Buckeye Brine, LLC) 2205 Westover Road Austin Tx 78703 Permit # 34-031-2-7178 740-575-4484 512-478-6545

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

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

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

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

Dudley #1 UIC (SWIW #1) Permit # 34-121-2-2459-00-00 Select Energy Services, LLC 7994 S. Pleasants Hwy St. Marys, WV 26170 304-665-2652 OH UIC #1 Bu keye UIC Barnesville 1 & 2 CNX Gas Corr., 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 # 34-083-2-4137-00-00 Elkhead Gas& Oil Company 12163 Marne Rd. NE Newark, OH 43055 740-763-3966

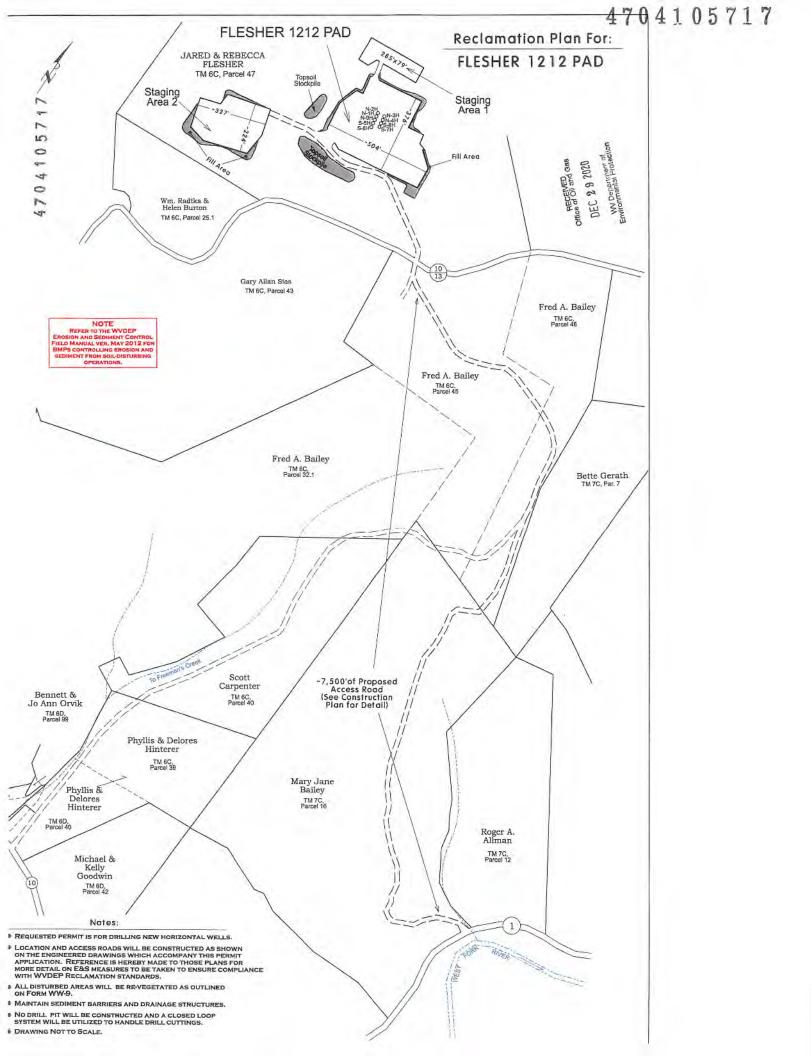
### 4704105717

RECEIVED Office of Oil and Gas

DEC 29-2020

WV Department of Environmental Protection

۰.



# **HG Energy II Appalachia, LLC**

# Site Safety Plan

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

August 2020: Version 1 Office of Oil and Gas

DEC 2 9 2020

WV Department of Environmental Protection

West Virginia Department of Environmental Protection, Office of Oil and Gas

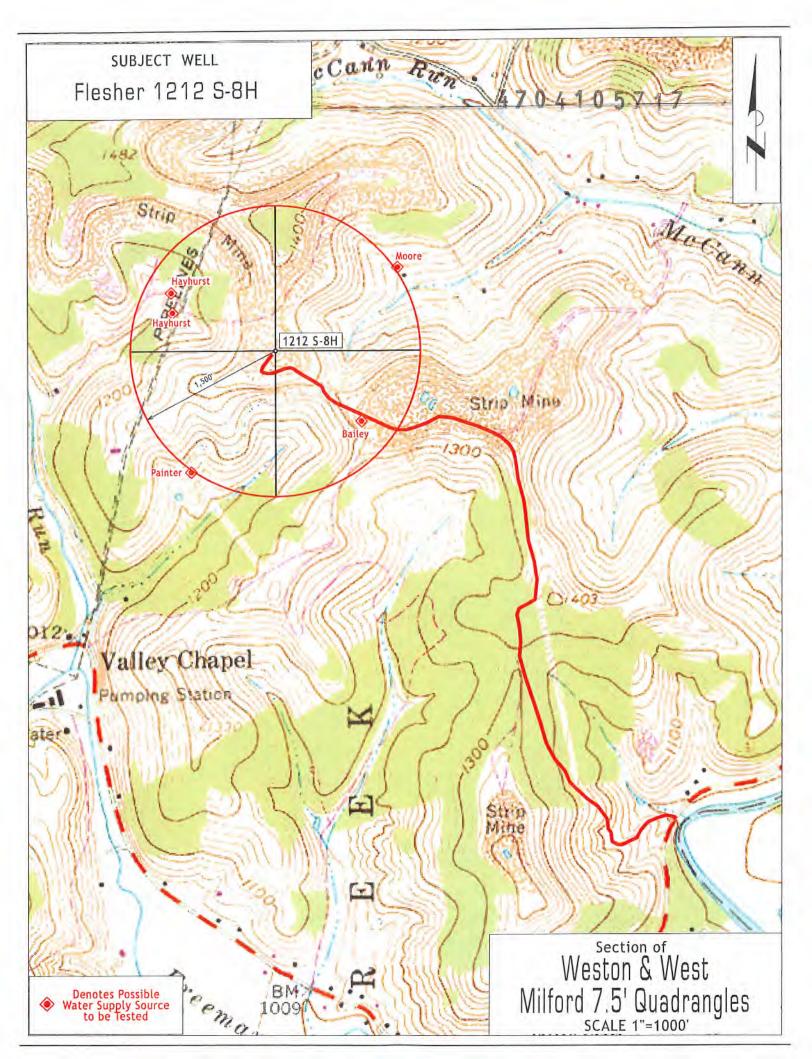
For Submission to

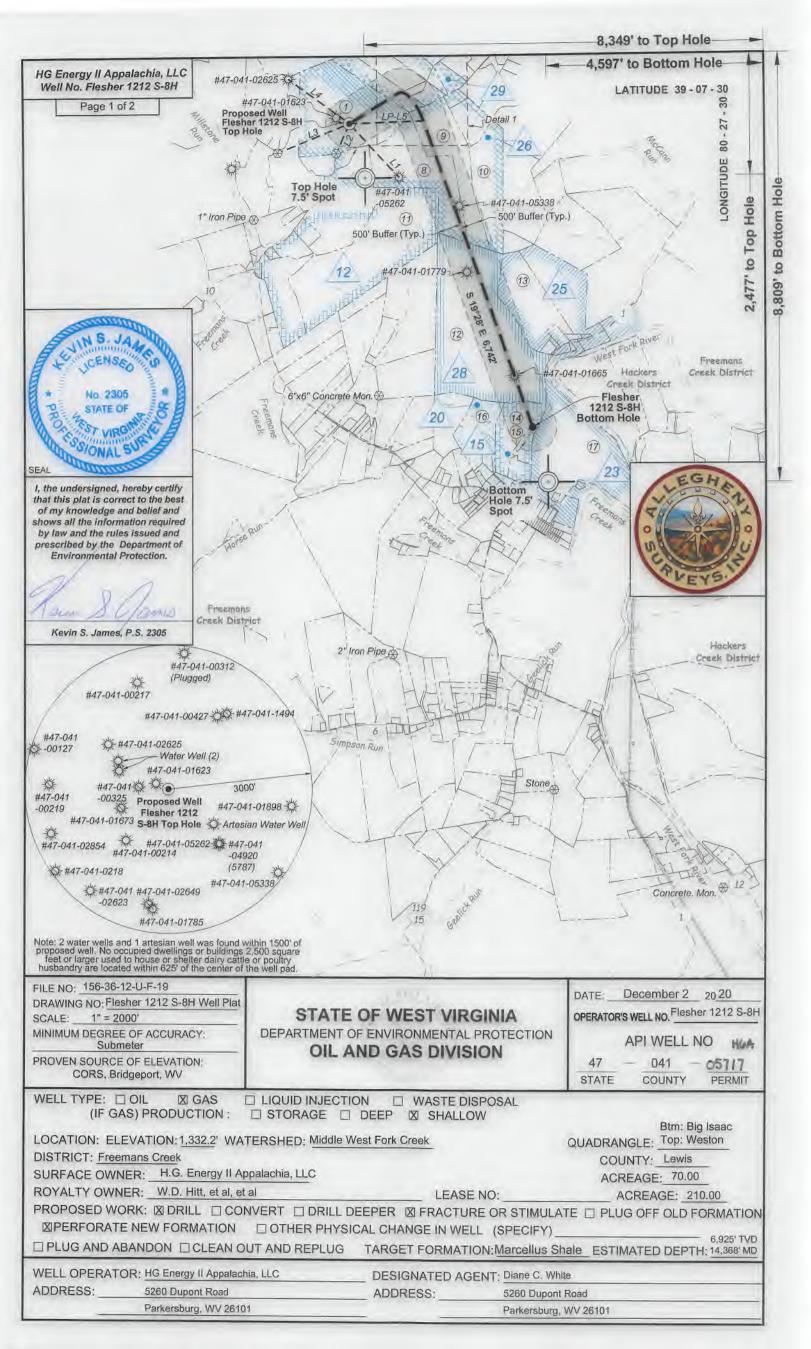
HG Energy II Appalachia, LLC

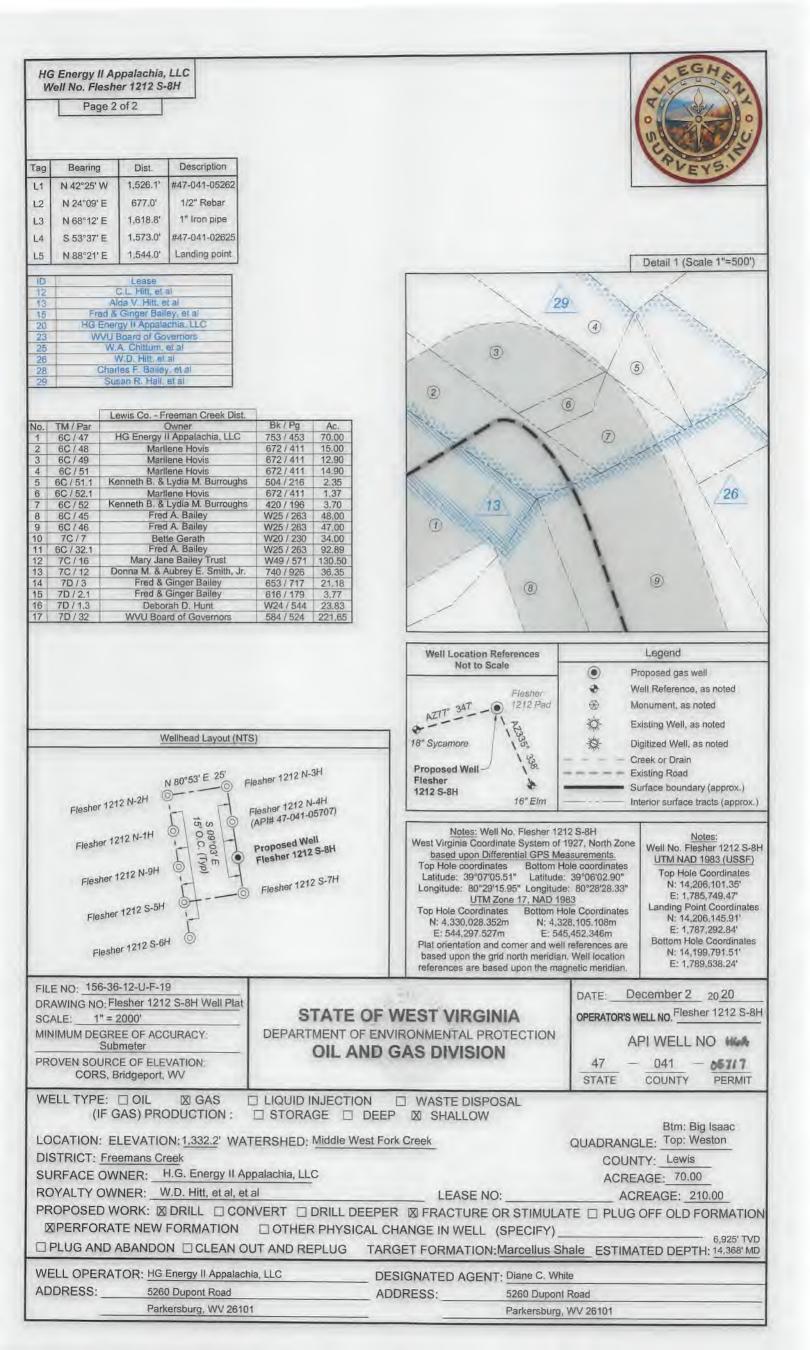
5260 Dupont Road

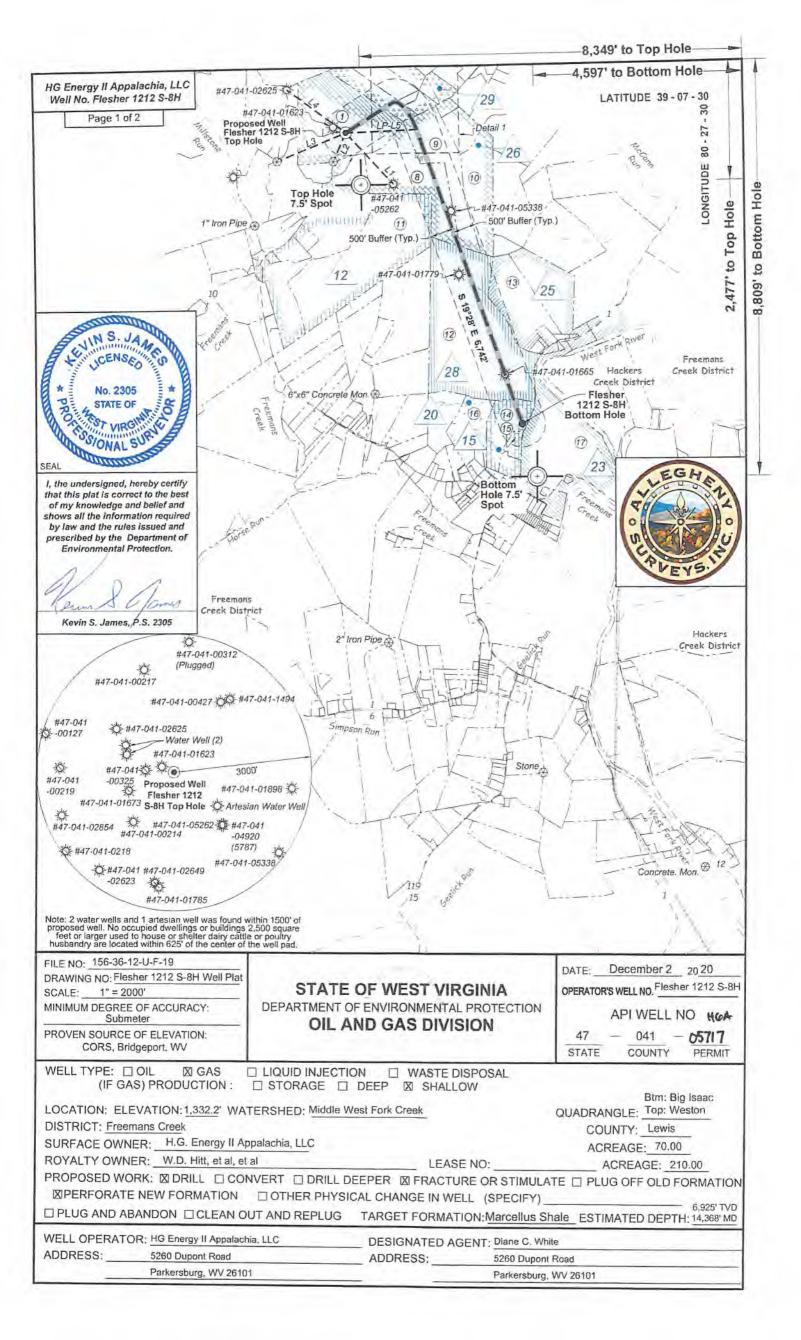
Parkersburg, WV 26101

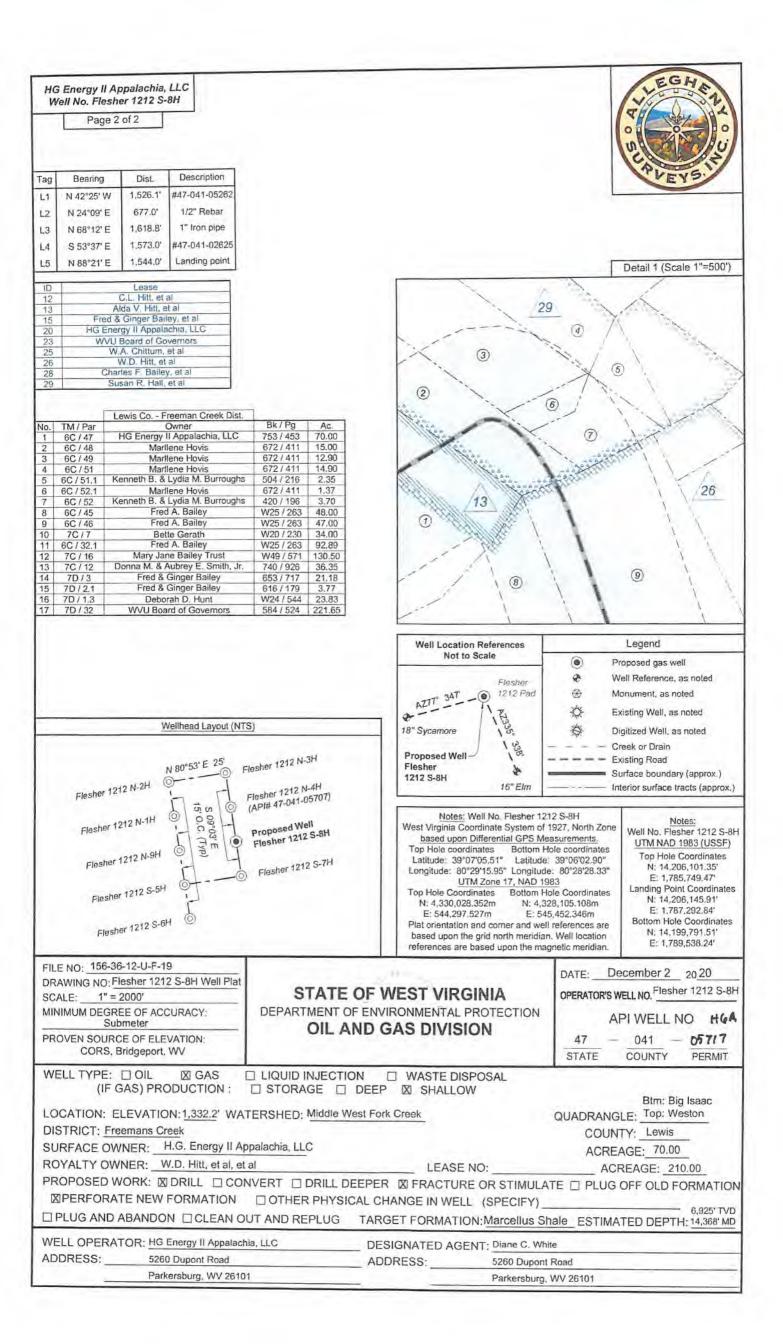
Ban











WW-6A1 (5/13)

### Operator's Well No. Flesher 1212 S-8H

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

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

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

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

\*\*See Attached Sheets\*\*

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

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

•	WV Division of Water and Waste Management	RECEIVED Office of Oil and Gas
	WV Division of Natural Resources WV Division of Highways	DEC <b>29</b> 2020
	U.S. Army Corps of Engineers U.S. Fish and Wildlife Service	WV Department of Environmental Protection
٠	County Floodplain Coordinator	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	Diare White			
Its:	Accountant				

				1212S - 8H LEASE	CHAIN			
	LEGACY LEASE							
TRACT #1212S	NUMBER	ΤΑΧ ΜΑΡ	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAG
26	FK053270	03-006C-0045-0000 03-006C-0046-0000 03-006C-0053-0000 03-006C-0054-0000 03-007C-0007-0000 p/o 03-006C-0043-0000 p/o 03-006C-0043-0001 p/o 03-006C-0047-0000	Q100675000	W. D. HITT AND ALDA HITT, HIS WIFE; J. C. HITT AND DORA HITT, HIS WIFE; L.A. MCCARTY AND F. R. MCCARTY, HER HUSBAND; GEORGE W. NEELY AND GRACE M. NEELY, HIS WIFE RESERVE GAS COMPANY HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC.	RESERVE GAS COMPANY HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC.	NOT LESS THAN 1/8 CONFIRMATORY DEED CONFIRMATORY DEED ASSIGNMENT MERGER/NAME CHANGE MEMORANDUM FARMOUT AGREEMENT LIMITED PARTIAL ASSIGNMENT (50%) PARTIAL ASSIGNMENT (50%) PARTIAL ASSIGNMENT (32%) ASSIGNMENT ASSIGNMENT MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	68 155 294 425 WVSOS WVSOS 672 684 712 717 717 722 WVSOS 723	8
		100 C	5	DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT ASSIGNMENT (68%)	734 736	55
		All and a second		ALDA V. HITT, WIDOW	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	221 294	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	CONFIRMATORY DEED ASSIGNMENT	425	
				CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		CNSOLIDATED GAS TRANSMISSION CORPORATION	DOMINION TRANSMISSION CORFORATION	MERGER/NAME CHANGE	wvsos	
		28		DOMINION TRANSMISSION CORPORATION	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	19
		A STATE		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
		4		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	8
13	FK064389	p/o 03-006C-0047-0000	Q100438000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
		p,		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	1
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	4
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	-
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)		
				SUSAN R. HALL, J. W. HALL, ALDA J. HALL AND MARY HALL	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	
				HOPE NATURAL GAS COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79 79	
				SOUTH PENN OIL COMPANY RESERVE GAS COMPANY	RESERVE GAS COMPANY HOPE NATURAL GAS COMPANY	ASSIGNMENT CONFIRMATORY DEED	155	

29	FK053178	03-006C-0048-0000 03-006C-0049-0000 03-006C-0051-0001 03-006C-0052-0000 03-006C-0052-0001 03-006C-0055-0000	Q100482000	WIFE; CLAUDE B. HALL AND META HALL, HIS WIFE; M. O. BROWN, JOHN C. CHITTUM AND MABEL CHITTUMM, HIS WIFE; HOMER L. CHITTUM AND JEWEL E. CHITTUM, HIS WIFE; RUBY FOSTER AND H.B. FOSTER, HER HUSBAND; JACK HALL, BLANCH V. FLETCHER, ANNCY M. STALNACKER AND DANIEL D. STALNACKER, HER HUSBAND; JOE HALL AND DOROTHY HALL, HIS WIFE; OVAL L. HALL, JOHN H. HALL AND MARY K. HALL, HIS WIFE; J. A. CHITTUM AND MARY E. CHITTUM, HIS WIFE; ELIZABETH HALL KING, AND EUGENE T. KING, HER HUSBAND; HOMER HALL JR. , AND FANNIE MAE HALL, HIS WIFE; PEARL A. ULLOM AND WILLIAM ULLOM SR., HER HUSBAND; ROSE M. HALL, JOHN H. HALL AND RUTH HALL, HIS WIFE; LILLIAN MOON AND BERNARD R. MOON, ER HUSBAND; ALDA V. HITT HOPE NATURAL GAS COMPANY CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC.	HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION, INC. NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	<b>4704105</b> STORAGE GRANT CONFIRMATORY DEED ASSIGNMENT MERGER/NAME CHANGE MEMORANDUM OF FARMOUT AGREEMENT LIMITED PARTIAL ASSIGNMENT (50%) PARTIAL ASSIGNMENT (32%) ASSIGNMENT ASSIGNMENT ASSIGNMENT ASSIGNMENT MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	222 294 425 WVSOS WVSOS 672 684 712 717 717 722 722 WVSOS 723 724	74 89 127 154 57 848 1 1 339 170 499 558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
28	FK062268	03-007C-0016-0000	Q100938000	CHARLES F. BAILEY AND MARY JANE BAILEY, HIS WIFE; AND DAYTON D. REXROAD AND ROXIE E. REXROAD, HIS WIFE HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC.	HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8 CONFIRMATORY DEED ASSIGNMENT MERGER/NAME CHANGE MEMORANDUM FARMOUT AGREEMENT LIMITED PARTIAL ASSIGNMENT (50%) PARTIAL ASSIGNMENT (32%) ASSIGNMENT ASSIGNMENT	212 294 425 WVSOS WVSOS 672 684 712 717 717 722	308 89 127 
				DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT ASSIGNMENT	WVSOS 723 734 736	499 558 220
		03-007D-0003-0000		CHARLES FRED BAILEY AND MARY JANE BAILEY. HUSBAND AND WIFE SCOTT OIL COMPANY AND JAMES F. SCOTT DOMINION ENERGY, INC. DOMINION APPALACHIA DEVELOPMENT. LLC DOMINION RESERVES, INC DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC	SCOTT OIL COMPANY DOMINON ENERGY, INC. DOMINON RESERVES, INC. DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC. CNX GAS COMPANY LLC NOBLE ENERGY, INC.	NOT LESS THAN 1/8 ASSIGNMENT ASSIGNMENT ASSIGNMENT MERGER/NAME CHANGE MEMORANDUM FARMOUT AGREEMENT LIMITED PARTIAL ASSIGNMENT (50%)	459 468 472 651 9 672 684	145 592 281 225 471 154 57

1	15	03-0070-0002-0000	Q100743000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
	DAD3732	03-007D-0002-0001		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				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

office of the office office of the office of



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

4704105717

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-8H Freemans Creek District, Lewis County West Virginia

Dear Ms. Kees:

HG Energy II Appalachia, LLC, is submitting the attached application for a new well work permit for the Flesher 1212 well pad. As an authorized representative, I certify HG Energy II Appalachia, LLC, has the right to drill, stimulate, extract, produce and market the oil, gas or condensate for all leases through which the Flesher 1212 laterals will drill through including any and all roads crossed under as identified on the attached survey plat.

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

Very truly yours,

Diane White

Diane C. White

Enclosures

Office of Oil and Gas

Whit Department of Environmental Station

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

Date of Notice Certification: 12/21/2020

<b>API No. 47-</b>	-
Operator's Well N	No. Flesher 1212 S-8H
Well Pad Name:	Flesher Well Pad

### Notice has been given:

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

State:	West Virginia	UTM NAD 83	Easting:	544297.5
County:	Lewis	UTWINAD 85	Northing:	4330028.4
District:	Freemans Creek	Public Road Access:		Kincheloe Road / Valley Chapel Road
Quadrangle:	Weston	Generally used f	arm name:	Flesher
Watershed:	McCann Run			

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof that the Operator has properly served the required parties with the followin	g:
*PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQ SEISMIC ACTIVITY W	· · · · · · · · · · · · · · · · · · ·
□ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SU	RVEY WAS CONDUCTED
3. NOTICE OF INTENT TO DRILL OF NOTICE NOT REQ NOTICE OF ENTRY FO WAS CONDUCTED OF	DR PLAT SURVEY NOT REQUIRED
WRITTEN WAIVE	R BY SURFACE OWNER CH)
4. NOTICE OF PLANNED OPERATION	<b>RECEIVED</b>
■ 5. PUBLIC NOTICE Office	ECEIVED of Oil and Gas
■ 6. NOTICE OF APPLICATION DEC	<b>2</b> 9 2020
WV De	Ppartment of

Environmental Protection

### **Required Attachments:**

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

### Certification of Notice is hereby given:

# 4704105717

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

Well Operator:	HG II Appalachia, LLC		Address:	5260 Dupont Road Parkersburg, WV 26101 304-863-3172 dwhite@hgenergyllc.com	
By:	Diane White Diane Whit	e			
Its:	Agent		Facsimile:		
Telephone:	304-420-1119		Email:		
	OFFICIAL SEAL STAPE OF WESTWIRGINIA NOTARY PUBLIC CASSIDY A. BOARDMAN 5301 13th Ave Vienna, WV 26105 My Commission Expires July 31, 2022			prin before me this 21th day of December, 2020. 2333 Notary Public prices $7(31)2822$	

### Oil and Gas Privacy Notice:

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

RECEIVED Office of Oil and Gas

DEC 2 9 2020

SERVICE

MAIL

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

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

		Date Permit Application	n Filed:					
Noti	ice of:							
	PERMIT FOR ANY WELL WORK		ATE OF APPROVAL FOR THE CTION OF AN IMPOUNDMENT OR PIT					
Delivery method pursuant to West Virginia Code § 22-6A-10(b)								
	PERSONAL [	REGISTERED	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION					

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

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

IN SURFA	ACE OWNER(s) * HG Energy not r	noticed	COAL C	OWNER OR LE	SSEE	
Name:	HG Energy II Appalachia, LLC (Pad and Road)		Name:			
Address:	5260 Dupont Road		Address:		Office of Oil	VED
	Parkersburg, WV 26101				oc or Oil	and Gas
Name:			COAL C	OPERATOR	DEC <b>29</b>	20.
Address:			Name:		··· 29	<u>7020</u>
			Address:		WV Departn Environmental Pr WATER WELL	
T SURF	ACE OWNER(s) (Road and/or Other Distur	(bance)				<u></u>
Name:	Fred Bailey (also surface owner of water well)					orection,
Address:	4853 Old Mill Road		AND/OR	WATER PURV	EYOR(s)	
	Jane Lew, WV 26378		Name:	Robert Painter		
Name:	Phyllis L & Dolores A Hinterer		Address:	445 Millstone Road		
Address:	P. O. Box 730			Weston, WV 26452		
	Jane Lew, WV 26378		OPERA	TOR OF ANY 1	NATURAL GAS SI	FORAGE FIELD
T SURF	ACE OWNER(s) (Impoundments or Pits)		Name:	Dominion Energy Tran	smission - Attn: Ronald Wa	aldren
Name:			Address:	925 White Oaks Blvd		<b>,</b>
Address:				Bridgeport, WV 2633	0	
			*Please at	tach additional f	orms if necessary	

RECEIVED Office of Chard Cas

API NO. 47 OPERATOR WELL NO. Flesher 1212 N-1H to 5-2H Well Pad Name: Flesher 1212

### DEC 2 9 2020

### Notice is hereby given:

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

### This Notice Shall Include:

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

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

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

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

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

#### Well Location Restrictions

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

API NO. 47-OPERATOR WELL NO. Flesher 1212 N-1H to S-8H Well Pad Name: Flesher 1212

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

### Water Well Testing:

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

### Water Testing Laboratories:

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

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

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

### Written Comment:

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

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

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

### Time Limits and Methods for Filing Comments.

API NO. 4 OPERATOR WELL NO. Flesher 1212 N-1H to S-6H Well Pad Name: Flesher 1212

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

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

#### **Comment Requirements**

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

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

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

### Permit Denial or Condition

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

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

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

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

RECEIVED Office of Oil and Gas

DEC 2 9 2020

APINO. 47.704105/1	1
OPERATOR WELL NO. Flesher 1212 N-4H	
Well Pad Name: Flesher 1212	

### Notice is hereby given by:

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

### Oil and Gas Privacy Notice:

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

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

RECEIVED Office of Oil and Gas DEC 2 9 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

> RECEIVED Office of Oil and Gas DEC 29 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.

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 12/10/2020 Date Permit Application Filed: 12/21/2020

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

HAND	CERTIFIED MAIL
DELIVERY	RETURN RECEIPT REQUESTED

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

### Notice is hereby provided to the SURFACE OWNER(s): \* HE Energy not noticed

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

#### Notice is hereby given:

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

State: County:	West Virginia	UTM NAD 83	Easting:	544297.5
County:	Lewis	UTMINAD 83	Northing:	4330028.4
District:	Freemans Creek	Public Road Ac	cess:	Kincheloe Run Rd to Valley Chapel Road
Quadrangle:	Weston 7.5*	Generally used	farm name:	Flesher
Watershed:	Middle West Fork Creek			

### This Notice Shall Include:

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

### Notice is hereby given by:

Well Operator:	HG Energy II Appalachia, LLC	D. GBS Authorized Representative:	Diane White Diane White
Address:	5260 Dupont Road	Address:	5260 Dupont Road
	Parkersburg, WV 26101 Office of	2020	Parkersburg, WV 26101
Telephone:	304-420-1119 DEC 2 9	Telephone:	304-420-1119
Email:	dwhite@hgenergyllc.com	rument of the anail:	dwhite@hgenergyllc.com
Facsimile:	dwhite@hgenergyllc.com 304-863-3172 WV Department	facsimile:	304-863-3172
	EDVITOR		

### Oil and Gas Privacy Notice:

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

WW-6A5 (1/12)

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 12/15/2020 Date Permit Application Filed: 12/21/2020

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

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

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

### Notice is hereby provided to the SURFACE OWNER(s) \* HG Energy not network

(at the ad	dress listed in the records of the sheriff a	t the time of notice):	
Name:	HG Energy II Appalachia LLC	Name:	
Address:	5260 Dupont Road	Address:	
	Parkersburg WV 26101		

### Notice is hereby given:

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

State:	West Virginia	LITEMANIA D 82	Easting:	544297.5	
County:	Lewis	UTM NAD 83	Northing:	4330028.4	
District:	Freemans Creek	Public Road Acc	ess:	Kinchelpe Rd / Valley Chapel Road	
Quadrangle:	Weston 7.5'	Generally used fa	arm name:	Flesher	
Watershed:	Middle West Fork Run				

#### This Notice Shall Include:

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

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

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

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

DEC 2 9 2020 WV Department of Environmental Protection



## WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

# **Division of Highways**

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

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

August 17, 2020

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

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

Subject: DOH Permit for the Flesher 1212 Pad, Lewis County Flesher S-8H Well Site

Dear Mr. Martin,

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

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

Very Truly Yours,

Dary & Clayton

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

RECEIVED Office of Oil and Gas

DEC 2 9 2020

WV Department of Environmental Protection

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

E.E.O./AFFIRMATIVE ACTION EMPLOYER

### 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
	Mixture	68551-12-2
Pro Shale Slik 405	IVIIXture	7647-14-5
		12125-02-9
<u> </u>		64742-47-8
Pro Hib II	Mixture	68412-54-4
		68607-28-3
		107-21-1
		111-76-2
		67-56-1
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
		1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
BIO CLEAR 2000	Mixture	25322-68-3
BIO CELAN 2000	INIXCULE	10222-01-2
		10222 01 2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
		107-21-1
Sulfamic Acid	5329-14-6	Office of C
PRO - Flow - 102-N	Mixture	67-63-0 DEC 2
		68439-45-2 MA/ Det
		2687-96-9 Environment
PROGEL - 4	9000-30-0	

