

#### west virginia department of environmental protection

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

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

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

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

Re: Permit approval for FLESHER 1212 S-6H

47-041-05714-00-00

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-6H

Farm Name: H. G. ENERGY II APPALACH

U.S. WELL NUMBER: 47-041-05714-00-00

Date Issued: 1/29/2021

Horizontal 6A New Drill

Promoting a healthy environment.

API Number:	
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## PERMIT CONDITIONS

4704105714

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

#### **CONDITIONS**

- This proposed activity may require permit coverage from the United States Army Corps of Engineers
  (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed
  activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply 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** 4704105714

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, 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 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 Fax: (304) 926-0452 Austin Caperton, Cabinet Secretary dep.wv.gov

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

TO: HG Energy, LLC 5260 Dupont Circle

Parkersburg, WV 26101

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

## INTRODUCTION

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

### FINDINGS OF THE CHIEF

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

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

### **CONCLUSIONS OF LAW**

- 1. West Virginia Code §22-1-6(d) requires, in part, that "in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing."
- 2. West Virginia Code §22-6A-2(a)(6) requires, in part, that "Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter."
- 3. West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary."

#### **ORDER**

West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetland W02 from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API#s 47-041-05707. The Office of Oil and Gas hereby **ORDERS** that HG shall meet the following site construction and operational requirements for the Flesher Well Pad:

- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height.
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs.
- c. Wetland B shall be protected by two layers of eighteen-inch (18") compost filter sock. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetlands.
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual.
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill.
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill.
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls.
- h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs.
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch ( $\frac{1}{2}$ ") 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.

Order No. 2020-W-5

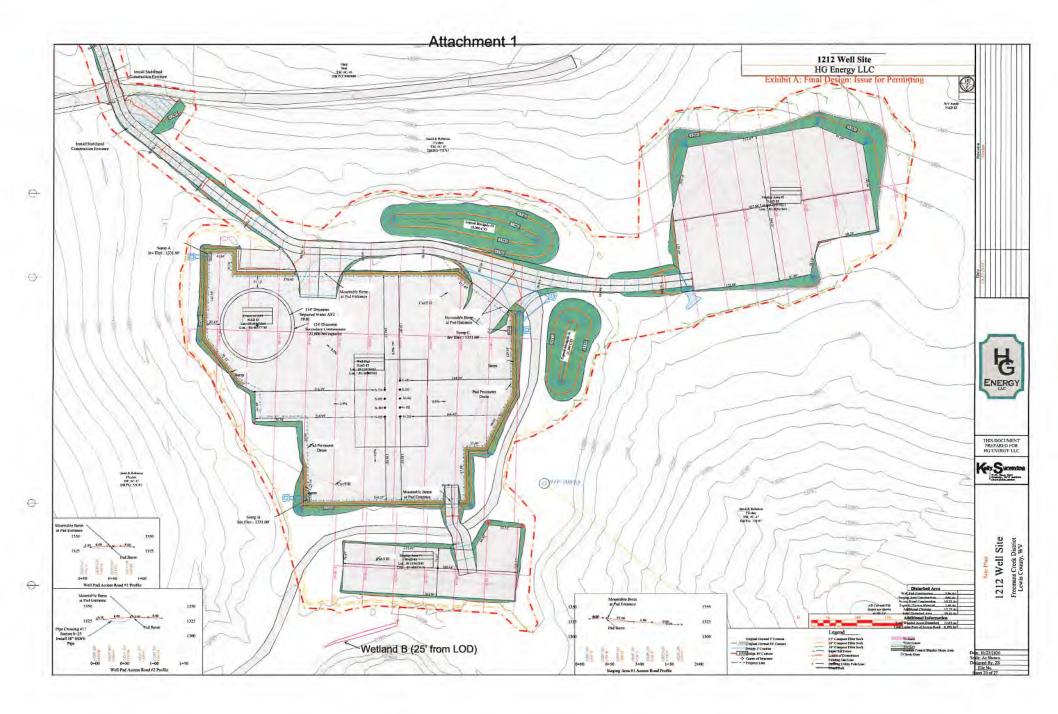
Thus ORDERED, the 13th day of November 2020.

## IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By: James Martin Digitally signed by James Martin Date: 2020.11.13 10:42:10-05:00

JAMES A. MARTIN, CHIEF



WW-6B (04/15)

API NO. 47	
OPERATOR WELL NO	Flesher 1212 S-6H
Well Pad Name: Flesher	1212

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

) Well Operator: HG Ene	rgy II Appa	lachia, 📙	494519932	Lewis	Freeman	Weston 7.5'
		_	Operator ID	County	District	Quadrangle
2) Operator's Well Number:	Flesher 12	212 S-6H	Well Pad	Name: Fles	sher 1212	
3) Farm Name/Surface Own	er: Fleshe	r	Public Road	d Access: _SF	R19 to Kincheloe R	un Rd to Valley Chapel Rd
4) Elevation, current ground	: 1338'	El	evation, proposed p	oost-construc	tion: 1332'	
5) Well Type (a) Gas <u>&gt;</u> Other	(	_ Oil	Unde	rground Stor	rage	
	Shallow Horizontal	<u>х</u>	Deep			
6) Existing Pad: Yes or No	No					
7) Proposed Target Formation  Marcellus at 6845'/6927' at			•	-	Pressure(s):	
B) Proposed Total Vertical D	Depth: 692	25'				
9) Formation at Total Vertic	al Depth: _	Marcellu	S			
10) Proposed Total Measure	d Depth:	13572'				
11) Proposed Horizontal Leg	g Length: _	5927'				
12) Approximate Fresh Wat	er Strata De <sub>l</sub>	pths:	105', 273', 302'			
13) Method to Determine Fr	esh Water D	epths: N	Nearest offset wel	l data, (47-0	41-5338, 02 <sup>-</sup>	18)
14) Approximate Saltwater l	Depths: 10	28' (Nea	rest offset well data	a, 47-041-16	73)	
15) Approximate Coal Seam	Depths: 42	20', 525' 830	)' (Surface casing is be	eing extended to	o cover the coal i	n the DTI Storage Field)
16) Approximate Depth to P	ossible Void	d (coal mi	ne, karst, other):	None		- DEALER III-II
17) Door Proposed well loor	ation contain	s coal sear	ms			Office of Oil and Gas
<ol> <li>Does Proposed well local directly overlying or adjacer</li> </ol>			Yes	N	10 X	DEC 28 2020
(a) If Yes, provide Mine Ir	nfo: Name:	:				WV Department of Environmental Protection
	Depth	:				
	Seam:					
	Öwnei	r:				

Bany Stilly 12-18-20

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API No. 77-0 4 1 0 5 7 1 4

OPERATOR WELL NO. Flesher 1212 S-6H

Well Pad Name: Flesher 1212

18)

## CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120'	Drilled In
Fresh Water/Coal	20"	NEW	J-55	94	1000'	1000'	CTS
Intermediate 1	13 3/8"	NEW	J-55 BTC	68	2100'	2100'	CTS
Intermediate 2	9 5/8"	NEW	J-55 BTC	40	2900'	2900'	CTS
Production	5 1/2"	NEW	P-110 HP	23	13572'	13572'	CTS
Tubing	J. T.						
Liners		1		1			

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	26"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate 1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Lead 40% excess, Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Lead 40% excess, Tall 0% Excess Lead
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% excess yield = 1.19, tail yield 1,94.0
Tubing							
Liners							

**PACKERS** 

RECEIVED Office of Oil and Gas

	DEC 2 8 2020
Kind:	WV Department of Environmental Protection
Sizes:	
Depths Set:	

BS 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 5,927' lateral length, 13,572' 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.
Freshwater/Coal centralized every 3 joints to surface.
Intermediate 1 - Bow Spring on every joint, will also be running ACP for isolating storage zone
Intermediate 2 - Bow Spring on first 2 joints then every third joint to 100' from surface.
Production - Run 1 spiral centralizer every 5 joints from the top of the curve
Production - Run 1 spiral centralizer every 5 joints from the top of the curve

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

Conductor -N/A, Casing to be diffied in w/ Dual Rotary Rig.
Fresh Water/Coat - 15.6 ppg PNE-1 + 3% bwoc CaCl, 40% Excess Yield = 1.20, CTS
Intermediate 1 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl, 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl, 20% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl, 20% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl, 20% Excess, CTS
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl, 40% Excess, Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl, 20% Excess, CTS
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl, 40% Excess, Tail: 15.9 ppg, PNE-1 + 2.5% bwoc CaCl, 20% Excess, Lead Yield=1.19, Tail Yield=1.94, CT
Production - Lead: 1.45 ppg PNE-1 + 0.3% bwoc RS + 1% bwoc CaCl - 10.75 galark PNF-10.4 - 0.3% bwoc RS + 10.75 galark FP13L + 50% bwoc ASCAI + 0.5% bwoc MPA170 20% Excess, Lead Yield=1.19, Tail Yield=1.94, CT

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD.
Frash Water/Coal - Once casing is at setting depth, circulate a minimum of one hole volume with Frash Water prior to pumping cement.
Intermediate 1 - Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.
Intermediate 2 - Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.
Formulation - Once casing is at setting depth, Circulate and condition must at TD. Circulate a minimum of one hole volume prior to pumping cement.
Formulation - Once on bottom/TD with casing, circulate at mix allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.

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Office of Oil and Gas

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DEC 28 2020

WV Department of Environmental Protection

\*Note: Attach additional sheets as needed.

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## 1212 S-6H

## Marcellus Shale Horizontal

Lewis County, WV

110											Lewis Cou	inty, wv		
								1212 5	6-6H SH	L	14	206067.78N 17857:	29.51E	
Groun	d Elev	ation			1332.	2'		1212	S-6H LF		14	205089.45N 17844	34.36E	
Azm				160.141°			1212 S-6H BHL				199517.04N 17864	97.05E		
	ORE DIA	GRAM		HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS	
1 1 1			1 1					1						
			x	30"	30" 157.5# LS	Conductor	0	120	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5" wa thickness	
						Fresh Water	0	273	15.0 ppg F NL-1 + 570	Construction 1	Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" wall		
			X	26°	20" 94# J-55	Kittaning Coal	987	992		CALLA CONTROL SOCIAL	Centralized every 3 joints to surface	of one hale volume with	thickness Burst=2110 psi	
×		)			2.5,2.75	Fresh Water Protection	0	1000		Yield=1,20 / CTS	3500 0000000	Fresh Water prior to pumping cement.	Bullet Et le per	
									AIR / KCL - Salt Polymer	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl	Bow Spring on every	Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping	Intermediate casing = 0.480'	
1 8 3				17.5"	13-3/8" 68# J-55 BTC	Big Lime	1548	1613		40% Excess / Tail: 15.9	ACP for isolating			
×		)		17.5		Injun / Gantz (Storage)	1613 / 1898	1718 / 1958					Burst=3450 psi	
	1					Intermediate 1	0	2100			storage zone*	cement.		
X	1	X			9-5/8" 40#	Fifty / Thirty Foot	2008 / 2105	2033 / 2128		Lead: 15.4 ppg PNE-1 +		Once casing is at setting		
						Gordon Stray / Gordon	2128 / 2198	2198 / 2288	AIR / KCL	2.5% bwoc CaCl	Bow Spring on first 2	depth, Circulate and condition mud at TD.	Intermediate casing = 0.39	
					12.25"	J-55 BTC	5th Sand	2374	2416	Salt Polymer	40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc	joints then every third joint to 100' form	Circulate a minimum of one	wall thickness Burst=3950 psi
×		X				Bayard Sand	2450	2480	AIR /	CaCl zero% Excess, CTS	surface	hole volume prior to pumping cement.	Edition Cook put	
						Intermediate 2	0	2900		Zelo % Excess. C13		pumping cement.		
X		X				Speechley	3078	3089			Run 1 spiral centralizer every 5 joints from the top of the curve to surface.	Once on bottom/TD with		
100				8,75" Vertica		Balltown	3278	3350						
						Benson	4370	4382	SOBM					
100			1			Rhinestreet	6256	6445		EC1 + 0.75 gal/sk				
	m					Cashaqua	6445	6526		FP13L + 0.3% bwoc MPA170		casing, circulate at max allowable pump rate for at	Production casing = 0.41	
X	N/I	X C	2		5-1/2" 23#	Middlesex	6526	6625	11.5ppg-	Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75	11% 011	least 2x bottoms up, or until returns and pump	wall thickness Burst=16240 psi	
	JUS.	DEC	Office	8.5" Curve	P-110 HP	West River	6625	6660	12.5ppg	gal/sk FP13L + 50%		pressures indicate the hole	Note:Actual centralizer	
	nen	2	0.1	5	CDC HTQ	Burkett	6660	6751	SOBM	bwoc ASCA1 + 0.5% bwoc MPA170	Run 1 spiral centralizer every 3 joints from the	is clean. Circulate a minimum of one hole	schedules may be change due to hole conditions	
	ital	00	5:1			Tully Limestone	6751	6815		20% Excess	1st 5.5" long joint to the	volume prior to pumping	gad to fibre containoffa	
1	Pro	2020	and	;		Hamilton	6815	6753		Lead Yield=1.19 Tail Yield=1.94	top of the curve.	cement.		
	tec	20	Gas			Marcellus	6845	6927	115	CTS				
	WV Department of Environmental Protection		Ċ	8.5" Lateral		TMD / TVD (Production)	13572	6925	11.5ppg- 12.5ppg SOBM					
X	1	X				Onondaga	6927		30BW					
			- 1	X	X	X	X		X	X	X	X	X	
		LP	_	TVD / 7645' MD			8,5" Hole - Cement 5-1/2" 23# P-110 I		1		+/-592	7' ft Lateral	TD @ +/-6925' TVD +/-13572' MD	
	Х			X	X	X	X		X	X	X	X	X=centralizers	

# 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)

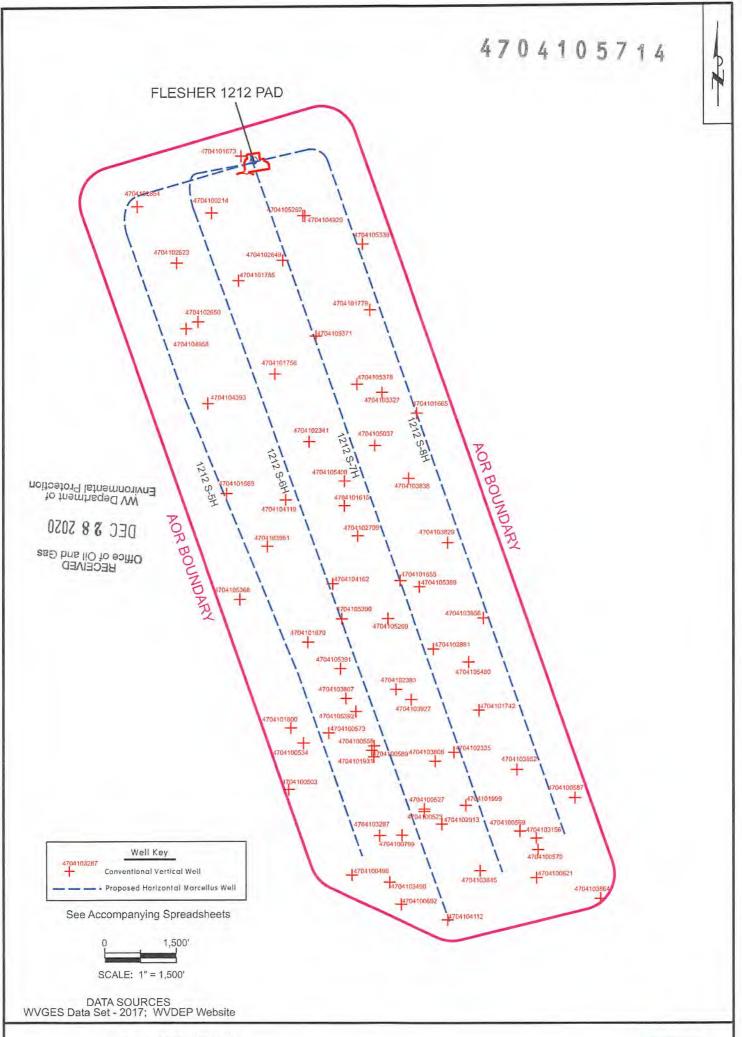
Cement Additives

4704105714

Naterial Name	Mantarial Tresa				
	Material Type	Material Description Premium NE-1 is a	CAS#	%	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide	1 - 5	1305-78-8
		strength properties.	Magnesium oxide	1 - 5	1309-48-4
emium NE-1	Portland Cement	3.0.0	Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7
		Commonly called gel, it is	Ingredient name	%	CAS number
		a clay material used as a	bentonite	90 - 100	1302-78-9
		cement extender and to	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
		control excessive free water.			
ntonite	Extender	water.			
		A powdered, flaked or	The state of the s	- In	CASamehan
		pelletized material used	Ingredient name	%	CAS number
		to decrease thickening	Calcium chloride	90 - 100	10043-52-4
		time and increase the rate			
works the	Same and	of strength development			
ium Chloride	Accelerator				
		Graded (3/8 to 3/4 inch)	Towns all the second	%	CAS number
		cellophane flakes used as	Ingredient name	70	CAG HUMBER
		a lost circulation material.	No hazardous ingredient		
o Flake	Lost Circulation				
- Ang					
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in		12:	Tere .
		cementing operations. It	Ingredient name	%	CAS number
		is very effective	Tributyl phosphate	90 - 100	126-73-8
		minimizing air			
		entrapment and			
		preventing foaming			
		tendencies of latex			
		systems.			
13L	Foam Preventer				
			Ingredient name	%	CAS number
		Used to retard cement	Sucrose	90 - 100	57-50-1
anulated Sugar	Retarder	returns at surface.	Sucrose	00,100	1,000
Section of the Control of the Contro		A proprietary product			
		that provides expansive			
		properties and improves			
		bonding at low to	Ingredient name	%	CAS number
		moderate	Calcium magnesium oxide	90 - 100	37247-91-9
		temperatures.			
-1					
		Multi-purpose polymer			
		additive used to control	Ingredient name	%	CAS number
		free fluid, fluid loss,	No hazardous ingredient		
		rheology, and gas			3.11
PA-170	Gas Migration	migration.			
		Charles and			
		A synthetic pozzolan,			
		(primarily Silicon Dioxide).			
		When blended with			
		cement, Pozzolan can be	Ingredient name	%	CAS number
		used to create	Crystalline silica: Quartz (SiO2)	5-10 REC	CEIVED14808-60-7 Oil and 36558-8
		lightweight cement slurries used as either a	Calcium oxide	Office of	Oil and 36558-8
		filler slurry or a sulfate			11-1-11-11-1
		resistant completion		DEC 6	8 2020
		cement.		DLC	A O CACA
(Fly Ash)	Base	Seringerity.			Commond ve
A court	Dusc			_ WV Dep	partment of ntal Protection
		A low temperature		Environme	nial Protection
		retarder used in a wide	Ingredient name	%	CAS number
		range of slurry	Organic acid salt	40 - 50	Trade secret.
		formulations to extend	Organic acid sait	40 - 30	Tiede secret.
		the slurry thickening time.			
e <sup>1</sup>	Retarder				
			Ingredient name	%	CAS number
					222 70 0
			2-Butoxyethanol	20 - 30	111-76-2
			Proprietary surfactant	10 - 20	Trade secret.
		Used to water wet casing and formation to facilitate	Proprietary surfactant D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Alkylarylsulfonate amine salt		

cement bonding.

Surfactant



Area of Review for:

## FLESHER 1212 SOUTH UNIT

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

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



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

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

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

API COUN	TY FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
100214 Lewi	s Geo Norris	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2275	ACTIVE	39,115382	-80,490758
100498 Lewi	s L Bailey 1	Deran Resources, Inc.	Up Devonian	Gas	2211	ACTIVE	39.077335	-80.480659
100503 Lewi	s J J Bailey 2	Geo Energy,LLC	Price Fm & equivs	Gas w/ Oil Show	1385	ACTIVE	39.082266	-80.485313
1100523 Lewi	s Hope McDonald et al 1	Hays & Company	Price Fm & equivs	Gas w/ Oil Show	1750	PLUGGED	39.080961	-80.475265
100527 Lewi	s B B Butcher 1	Lippizan Petroleum, Inc. 🙍 💢	Price Fm & equivs	Gas w/ Oil Show	1410	ACTIVE	39.081106	-80.475265
100534 Lewi	s Georg Dean 2	Lippizan Petroleum, Inc. Geo Energy,LLC Go the Lippizan Petroleum, Inc. Ging Lippizan Petroleum,	Price Fm & equivs	Gas	1381	ACTIVE	39.084922	-80.484197
1100558 Lewi	s Doyle Butcher et al 2	Lippizan Petroleum, Inc. பூர் 2	Price Fm & equivs	Gas	1364	ACTIVE	39.084632	-80.479545
1100569 Lewi	s W W Chapman 1	Clem Energy, LLC	Unkown	Gas	1	ABANDONED	39.079798	-80.468192
1100570 Lewi	s W W Chapman 1	Law, David W.	Price Fm & equivs	Gas	1363	ABANDONED	39.079511	-80.466333
1100573 Lewi	S Clete Butcher et al 1	Bower, Hall and Wetzel	Price Fm & equivs	Gas	1441	PLUGGED	39.085502	-80.482337
1100587 Lewi	clay Maxwell Jr 1	Cohen, Henry	Big Injun (Grnbr)	Gas w/ Oil Show	1368	PLUGGED	39.081686	-80.464101
1100589 Lewi	is Doyle Vutcher 3	Law, David W.	Conemaugh Group	Dry w/ Gas Show	435	PLUGGED	39.084342	-80.479173
1100621 Lewi	is W W Riggs 1	Tower Service Company	Price Fm & equivs	Gas	1410	PLUGGED	39.077105	-80.466986
1100799 Lew	is Carl Harrison 1	Bagwell & Trader	Price Fm & equivs	Gas	1360	ABANDONED	39.079613	-80.476936
1101615 Lewi	Sophia Butcher	Dominion Energy Transmission, Inc.	Benson	Gas	4210	ACTIVE	39.098539	-80.481047
4101655 Lewi	s Sophia Butcher	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	4120	ACTIVE	39.094203	-80.476943
4101665 Lew	is Charles F Bailey	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4250	ACTIVE	39,103826	80.475644
4101669 Lew	is Charles I Bailey	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4110	ACTIVE	39.099278	-80.489786
4101670 Lew	is J W Norris	Alliance Petroleum, Co., LLC	Benson	Gas	4425	ACTIVE	39.090722	-80.483827
4101673 Lew	is Cecil I Dempsey	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4509	ACTIVE	39.118627	-80.488538
4101742 Lew	is WV University Board of Gov	Alliance Petroleum, Co., LLC	Benson	Gas	4205	ACTIVE	39.086743	-80.471172
4101756 Lew	is W E Carpenter	Dominion Energy Transmission, Inc.	Benson	Gas	4220	ACTIVE	39,106120	-80.486154
4101779 Lew	is C F Bailey	Dominion Energy Transmission, Inc.	Benson	Gas	4446	ACTIVE	39.109755	-80.479062
4101785 Lew	is CLHitt	Dominion Energy Transmission, Inc.	Benson	Gas	4440	ACTIVE	39,111471	-80,488801
4101800 Lew	is George W Dean Jr	Greylock Conventional, LLC	Benson	Gas	4305	ACTIVE	39.085792	-80.485128
4101931 Lew		Lippizan Petroleum, Inc.	Benson	Gas	4163	ACTIVE	39.084052	-80.479917
4101999 Lew		Mountain, LLC	Fifth	Gas	4436	ACTIVE	39.081302	-80.472195
4102335 Lew		Alliance Petroleum, Co., LLC	Hampshire Grp	Gas	2575	ACTIVE	39.084342	-80.473033
4102341 Lew		Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4280	ACTIVE	39.102228	-80.483644
4102380 Lew	144774 47741111	Alliance Petroleum, Co., LLC	Hampshire Grp	Gas	2000	ACTIVE	39.087967	-80.477313
4102623 Lew	201413010301	Dominion Energy Transmission, Inc.	Unkown	Storage		ACTIVE	39,112510	-80.493384
			Unkown	77.77		ACTIVE	39,112620	-80.485511
				A 5 91		ACTIVE	39.109140	-80.491838
	5 - 4 - 5 - 5 - 5 - 5					1.325-2-1		-80.480078
4102649 4102650 4102709	Lew	Lewis George Norris  Lewis Ira L. Queen  Lewis Sophia Butcher	Lewis Ira L. Queen Dominion Energy Transmission, Inc.	Lewis Ira L. Queen Dominion Energy Transmission, Inc. Unkown	Lewis Ira L. Queen Dominion Energy Transmission, Inc. Unkown Storage	Lewis Ira L. Queen Dominion Energy Transmission, Inc. Unkown Storage -	Lewis Ira L. Queen Dominion Energy Transmission, Inc. Unkown Storage - ACTIVE	Lewis Ira L. Queen Dominion Energy Transmission, Inc. Unkown Storage - ACTIVE 39.109140

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69	4704105480	Lewis	WV University Board of Gov	Devonian Gas Production	Benson	Gas	4248	ACTIVE	39.089518	-80.47191
68	4704105408	Lewis	Deborah D Hunt	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	3386	ACTIVE	39.100004	-80.48141
67	4704105392	Lewis	Mary Lou Curry	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	2531	ACTIVE	39.086712	-80.48029
66	4704105391	Lewis	Mary Lou Curry	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	2531	ACTIVE	39.089187	-80.48143
65	4704105390	Lewis	Mary Lou Curry	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	2480	ACTIVE	39.092043	-80.48129
64	4704105389	Lewis	Lee Matthew McWhorter	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	2244	ACTIVE	39.093854	-80.4755
63	4704105371	Lewis	Charles F Bailey	Dominion Energy Transmission, Inc.	Price Fm & equivs	Gas	1777	ACTIVE	39.105497	-80.4800
62	4704105371	Lewis	Scott A Carpenter	Dominion Energy Transmission, Inc.	Price Fm & equivs	Gas	1530	ACTIVE	39.108271	-80,4830
61	4704105368	Lewis	Edward Earl Garrett	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	4470	ACTIVE	39.093188	-80.4888
60	4704105338	Lewis	Fred A Bailey	Dominion Energy Transmission, Inc.	Price Fm & equivs	Gas	1683	ACTIVE	39.113523	-80,4795
59	4704105262	Lewis	Edwin Lee Bowyer II	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	4160	ACTIVE	39.092028	-80.4778
58	4704105057	Lewis	Charles Bailey	Dominion Energy Transmission, Inc.	Weir	Gas	1776	ACTIVE	39.115179	-80,4839
57	4704104938	Lewis	Kenneth L Hunt	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	3561	ACTIVE	39.101975	-80.4787
56	4704104920	Lewis	Richard W Dunham	Dominion Energy Transmission, Inc.	Misc Sands-BNSN/BRLR	Gas	4449	ACTIVE	39.108761	-80.4927
54 55	4704104393	Lewis	Richard D Carpenter Charles Bailey	Dominion Energy Transmission, Inc.	Misc Sands-BNSN/BRLR	Gas	4579	ACTIVE	39,104433	-80,4911
	4704104162	Lewis	Michael L/Judy K Huntz	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4312	ACTIVE	39,104455	-80,4911
53	4704104119	Lewis	Patricia Jo Beeson 1	Berry Energy, Inc.	Greenland Gap Fm	Gas	4210	ACTIVE	39.094058	-80.4819
51 52	4704103961 4704104119	Lewis	John Norris	Alliance Petroleum, Co., LLC	Benson Greenland Gap Fm	Gas Gas	4190	ACTIVE	39.098896	-80,4853
50	4704103956	Lewis	WV Board of Control	Enervest Operating, LLC			4230	ACTIVE	39.096233	-80.4868
49	4704103927	Lewis	Word of Life Christians	Devonian Gas Production, Inc.	Greenland Gap Fm	Gas Gas w/ Oil Show	4170	ACTIVE	39.092028	-80.4761
48	4704103864	Lewis	Vivian Thompson 1	Alliance Petroleum, Co., LLC  Diversified Resources, Inc.	Benson Benson	Gas	4225	ACTIVE	39.075885 39.087387	-80.4622 -80.4761
47	4704103852	Lewis	Patricia Hall	Alliance Petroleum, Co., LLC	Benson	Gas	4264	ACTIVE	39.083327	-80.4683
46	4704103845	Lewis	Alva Butcher	Alliance Petroleum, Co., LLC	Benson	Gas	4984	ACTIVE	39.077626	-80.4707
45	4704103838	Lewis	Charles F. Bailey	Dominion Energy Transmission, Inc.	<u>க</u> Benson	Gas	4314	ACTIVE	39.100088	-80,4762
44	4704103829	Lewis	David Hamrick	<del></del>	S.S. Brallier	Gas	5791	ACTIVE	39.096668	-80.4732
43	4704103808	Lewis	Amy B Dent	<u>9 W</u>	1.6	Gas	5980	ACTIVE	39.084487	-80.4741
42	4704103807	Lewis	Martha Carpenter	Alliance Petroleum, Co., LLC	127 (1)	Gas	6050	ACTIVE	39.087478	-80.4810
41	4704103490	Lewis	Martha Queen 1-A	Prince Petroleum, Inc.	Benson	Gas	4287	ABANDONED	39.076900	-80.47786
40	4704103327	Lewis	Rizpah B Carpenter	Dominion Energy Transmission, Inc. 20		Gas	2380	PLUGGED	39.105009	-80.4782
39	4704103287	Lewis	Michael F Tierney Jr et al	Alliance Petroleum, Co., LLC	Brallier	Gas	5891	ACTIVE	39,079584	-80,4785
38	4704103156	Lewis	John F Wyant 1	Clem Energy, LLC	Elk	Gas	5757	ACTIVE	39.078351	-80.4663
37	4704102913	Lewis	John J Oldaker III	Jackson Fuel Corporation	Benson	Gas	4384	ACTIVE	39.080236	-80.4739
36	4704102881	Lewis	WVU Board of Governors	Alliance Petroleum, Co., LLC	Greenland Gap Fm	Gas	4250	ACTIVE	39.090287	-80.4745
5	4704102854	Lewis	J S Norris	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.115783	-80,4962

## 4704105714

API Number 47 - \_\_\_\_ - \_\_\_ - \_\_\_ Operator's Well No. Flesher 1212 S-6H

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

## FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy II Appalachia, LLC OP Code 494501907	
Watershed (HUC 10) Middle West Fork Creek Quadrangle Weston 7.5'	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes	No
If so, please describe anticipated pit waste: NA  Will a synthetic liner be used in the pit? Yes No V If so, what ml.?	
Proposed Disposal Method For Treated Pit Wastes:	
Land Application Underground Injection ( UIC Permit Number	
Reuse (at API Number TBD - At next anticipated well  Off Site Disposal (Supply form WW-9 for disposal location)  Other (Explain	)
Will closed loop system be used? If so, describe: Yes, pultings and fluids will be collected in a closed loop system, re-used or hauled to an app	groved disposal site or landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Vertical Air, Air, Air, Air, Air, Air, Air, Air,	KCL, Alr/SOBM, Horizontal - SOBM
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	RECEIVED Office of Oil and Gas
Additives to be used in drilling medium? Water, Soap, KCl, Barite, Base Oil, Wetting Agents	DEC 2 8 2020
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Approved Landfill	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA	WV Department of Environmental Protection
-Landfill or offsite name/permit number? See Attached	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated west Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee where it was properly disposed.	waste rejected at any e shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLL on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection provisions of the permit are enforceable by law. Violations of any term or condition of the general permit 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 form and all attachments thereto and that, based on my inquiry of those individuals immediatining the information, I believe that the information is true, accurate, and complete. I am aware the penalties for submitting false information, including the possibility of fine or imprisonment.	on. I understand that the and/or other applicable nation submitted on this ediately responsible for
Company Official Signature Diane White	
Company Official (Typed Name) Diane White	
Company Official Title Agent	
Subscribed and sworn before me this 15th day of December , 20 20	<del></del>
My commission expires 11/2/2021 Notary Public	OFFICIAL SEAL NOTARY PUBLIC. STATE OF WES MARK J SCHALL H G Energy L L G PO Box 8519, Vienna, W/ 2

Bany. Staller 12-18-20

Operator's Well No. Flesher 1212 S-6H

HG Energy II Appal	achia, LLC				<del></del>
Proposed Revegetation Treat	ment: Acres Disturbed	32.75	Prevegetation pl	I	
Lime	3 Tons/acre or to co	rrect to pH _	6.5		
Fertilizer type10	-20-20				
Fertilizer amount	w	500 <sub>lbs/</sub>	acre		
Mulch_ Hay		2 Tons/act	re		
		Seed 3	<u>Mixtures</u>		
Te	mporary		Perma	nent	
Seed Type <b>Tall Fescue</b>	lbs/acre 40		Seed Type Tall Fescue	lbs/acre 40	
Ladino Clover	5		Ladino Clover	5	
					<del></del>
Maintain E&S contr	ols through the o	drilling ar	nd completion process		
Photocopied section of invol	1		ce page 1	Of	RECEIVED
Comments: Pre-seed	mulch as soor	n as rea	sonably possible per	regulation.	DEC 28 20
			&S manual.	W Envir	N Department onmental Prot
opgicae Lae ii i					
				<u></u>	
<sub>Title:</sub> Oil & Gas Ins	pector		Date:		

## **Cuttings Disposal/Site Water**

## Cuttings -Haul off Company:

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

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

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

## Disposal Locations:

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

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

Sycamore Landfill Inc. Permit #R90-079001 05-2010 4301 Sycamore Ridge Road Hurricane, WV 25526 304-562-2611

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

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

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

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

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

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

Brooke County Landfill Permit # SWF-103-97 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 304-748-0014 RECEIVED
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DEC 28 2020

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

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

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

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

## Water Haul off Companies:

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

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

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

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

Mustang Olifield Services LLC PO Box 739 St. Clairsville, OH 48950

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

## Disposal Locations:

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

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

Adams #1 (Buckeye Brine, LLC) Permit # 34-031-2-7177 23986 Airport Road Coshocton, OH 43812 740-575-4484 512-478-6545 CMS of Delaware Inc. DBA CMS Olifield Serv 301 Commerce Drive Moorestown, NJ 08057

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DEC 28 2020

WV Department of Environmental Protection

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

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

Equipment Transport 1 Tyler Court Carlisle, PA 17015

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

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

Nichlos 1-A (SWIW #13) Permit # 3862 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-829-7275

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

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 43767 614-648-8898 740-796-6495

## 4704105714

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

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

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

Goff SWD #1 (SWIW # 27) Permit # 84-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-829-7275

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

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

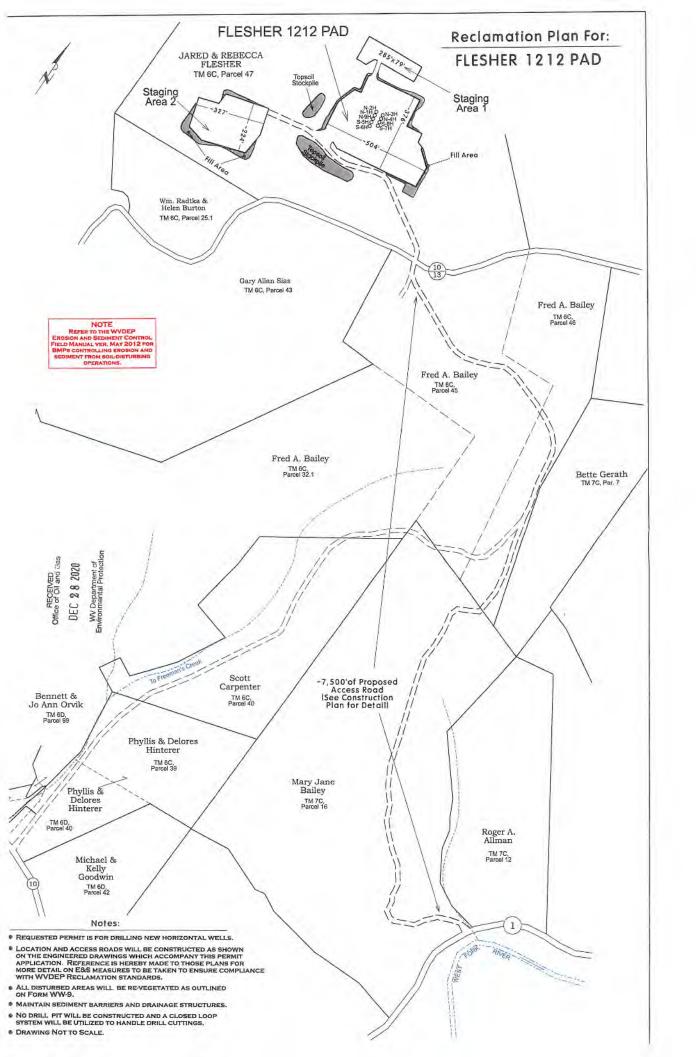
US Steele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15730 304-323-6568

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

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WV Department of Environmental Protection



## HG Energy II Appalachia, LLC

# **Site Safety Plan**

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

August 2020: Version 1

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

HG Energy II Appalachia, LLC

5260 Dupont Road

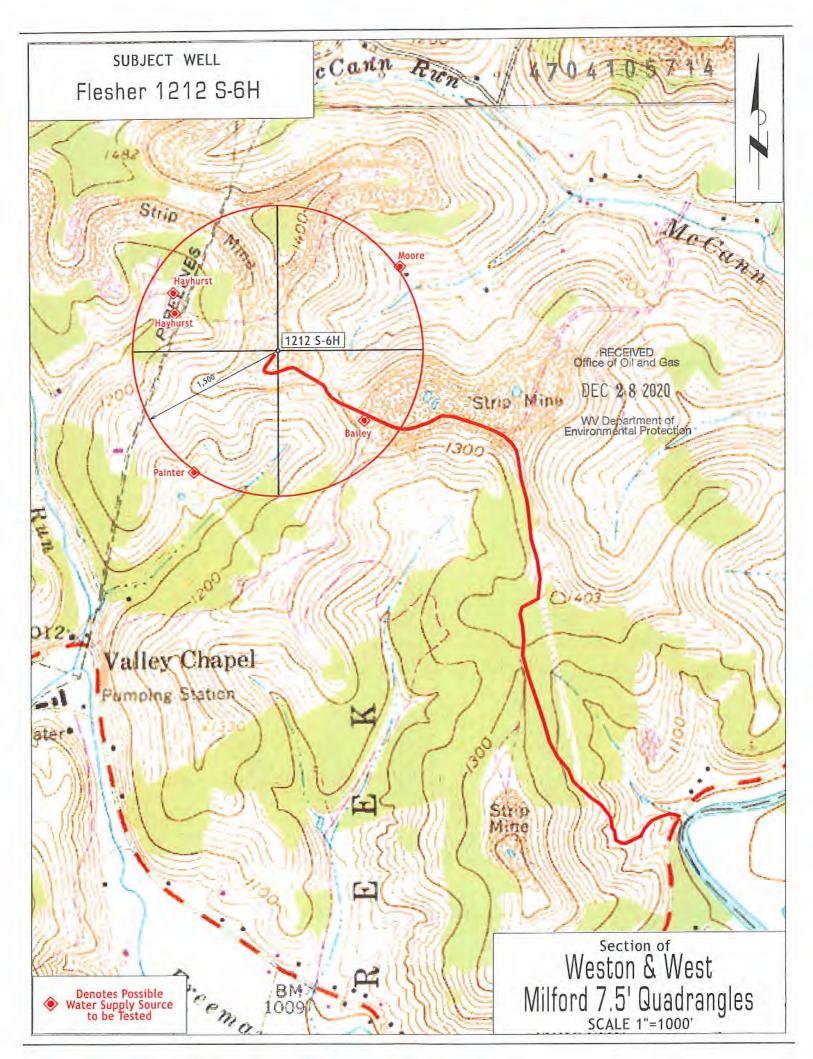
Parkersburg, WV 26101

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DEC 28 2020

WV Department of Environmental Protection

BS 12-18-20

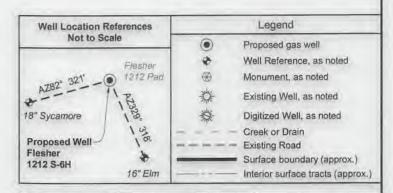


Page 3 of 3



		Lewis Co Freeman Creek Dist.	DI / D	
No.	TM / Par	Owner	Bk/Pg	Ac.
1	6C / 47	HG Energy II Appalachia, LLC	753 / 453	70.00
2	6C / 25.1	William Radtka & Helen Burton	655 / 681	5.85
3	6C / 25	Robert M. Painter	629 / 411	27.48
4	6C / 23	Richard G. & Loretta E. Hayhurst	566 / 355	34.80
5	6C / 23.4	Richard G. Hayhurst, et ux	565 / 326	4.13
6	6C / 23.10	Gary Farris	700 / 769	0.65
7	6C / 23.6	Gary Farris	700 / 769	2.02
8	6C / 23.2	Michael & Laura Phillips	661 / 298	21.32
9	6C / 27.4	21st Mortgage Corporation	749 / 527	2.03
10	6C / 27.3	George & Lisa Cogar	594 / 16	10.20
11	6C / 43	Gary A. Sias	646 / 688	50.59
12	6C / 43.1	Robert M. Painter	598 / 001	3.89
13	6C / 28	Carolyn M. Sias, et al	718 / 171	6.10
14	6C / 32	Richard W. Dunham	W11 / 100	28.52
15	6C / 32.1	Fred A. Bailey	W25 / 263	92.89
16	6C / 42	Fred A. Bailey	W25 / 263	6.70
17	6C / 41	Larry R. & Gina F. Simon	702 / 865	19.11
18	6C / 40.1	Jeffrey R. & Pamela J. Nicholson	713 / 40	5.50
19	6C / 40	Scott & Amy Carpenter	709 / 826	45.95
20	6C / 35	Richard D. & Connie S. Carpenter (LE)	707 / 83	15.00
21	6C / 36	Richard D. & Connie S. Carpenter (LE)	707 / 83	12.00
22	6C / 37	Richard D. & Connie S. Carpenter (LE)	707 / 83	21.50
23	6D / 24	Richard D. & Connie S. Carpenter (LE)	707 / 83	8.00
24	6D / 25	Larry & Gina F. Simon	702 / 865	4.30
25	6D / 26	Elden R. Jackson	468 / 370	3.99
26	6D / 26.1	Bennett D. & Jo A. Orvik	444 / 89	0.25
27	6D / 99	Bennett D. & Jo A. Orvik	412 / 147	10.00
28	6C / 39	Phyllis L. & Dolores A. Hinterer	591 / 653	23.00
29	6D / 40	Phyllis L. & Dolores A. Hinterer	591 / 653	10.25
30	6D / 32	Elden R. Jackson	468 / 370	2.85
31	6D / 32.1	Kenneth E. & Jennifer A. Peters	325 / 513	1.00
32	6D / 31	Taylor & Tyler Beckner	747 / 635	0.96
33	6D / 33	William C. & Dorotha M. Casto	313 / 601	1.03
34	6D / 34.1	Bennett D. & Jo A. Orvik	419 / 528	0.21
35	6D / 34	Jacob S. Davisson	716 / 631	0.81
36	6D / 35	Jacob S. Davisson	716 / 631	1.06
37	6D / 36	Phyllis L. & Dolores A. Hinterer	591 / 653	0.33
38	6D / 37	Charles R. Kemper	487 / 688	13,40
39	6D / 38.1	Gary L. & Karen L. Messenger	346 / 43	1.07
40	6D / 38	Michael D. & Ernie D. Batten	669 / 494	3.43
41	6D / 54	Kenneth D. Huffman	W32 / 293	0.98
42	6D / 44	Richard Messenger	F25 / 680	4.96
43	6D / 41	Tyler L. & Emily L. Syrews	684 / 52	1.57
44	6D / 42	Michael & Kelly M. Goodwin	682 / 485	15.98

ID	Lease
7	Pearle A Noms, et al
10	J.S. Norris, et al
12	C.L. Hitt et al
16	George Norris, et al
17	H.M. Stewart & C.J. Stewart
18	W.E. Carpenter, et al
26	W.D. Hitt, et al
32	Zeffie M. Keister, et al



Notes: Well No. Flesher 1212 S-6H West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.

Top Hole coordinates Bottom Hole coordinates
Latitude: 39°07'05.18" Latitude: 39°06'00.36"

Longitude: 80°29'16.21" Longitude: 80°29'06.94" UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates

N: 4,328,021.450m E: 544,525.389m N: 4.330.018.119m E: 544,291,444m Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

Notes: Well No. Flesher 1212 S-6H UTM NAD 1983 (USSF) Top Hole Coordinates N: 14,206,067.78' E: 1,785,729.51' Landing Point Coordinates N: 14,205,089,45' E: 1,784,484.36 Bottom Hole Coordinates N: 14,199,517.04' E: 1.786,497.05'

05714

PERMIT

DRAWING NO: Flesher 1212 S-6H Well Plat 1" = 2000" SCALE: MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION:

CORS, Bridgeport, WV

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

DATE: November 30 20 20 OPERATOR'S WELL NO. Flesher 1212 S-6H

API WELL NO MGA 47 041

COUNTY

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

Btm: Big Isaac

LOCATION: ELEVATION: 1,332.2' WATERSHED: Middle West Fork Creek DISTRICT: Freemans Creek SURFACE OWNER: H.G. Energy II Appalachia, LLC

QUADRANGLE: Top: Weston COUNTY: Lewis ACREAGE: 70.00

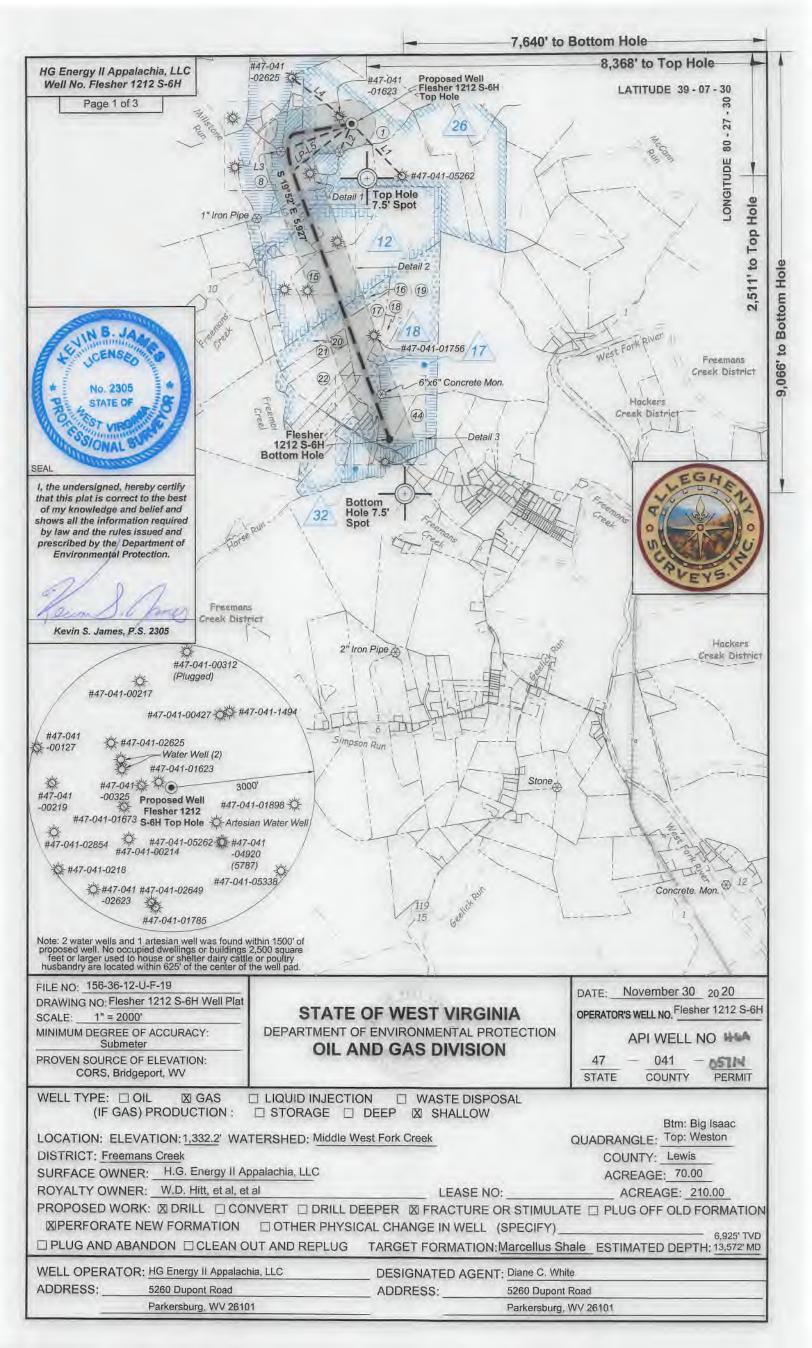
STATE

ROYALTY OWNER: W.D. Hitt, et al, et al ACREAGE: 210.00 LEASE NO: PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION

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

☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 13,572' MD WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White

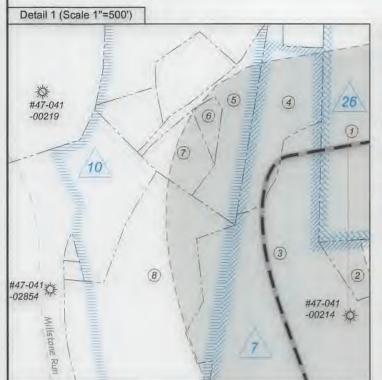
ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road Parkersburg, WV 26101 Parkersburg, WV 26101



Page 2 of 3



Detail 3 (Scale 1"=500')



Wellhead Layout (NTS)

N 80°53' E 25'

9

S 09°03' I 15' O.C. (T

X GAS

m

	Detail 2 (Scale 1"=500')
8 3	
10 7	0
100	,
16	#47-041 -01785
0	\ \
12	500' Buffer (Typ.)
500' Buffe	or (Typ.)
#47-041 -04527 #47-041 -02650	1

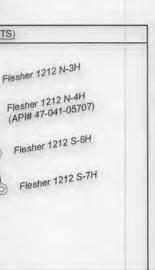
Tag	Bearing	Dist.	Description
L1	N 43°49' W	1,515.2'	#47-041-05262
L2	N 23°41' E	638.2'	1/2" Rebar
L3	N 69°03' E	1,588.01	1" Iron pipe
L4	S 52°12' E	1,577.3'	#47-041-02625
L5	S 51°51' W	1,583.5'	Landing point

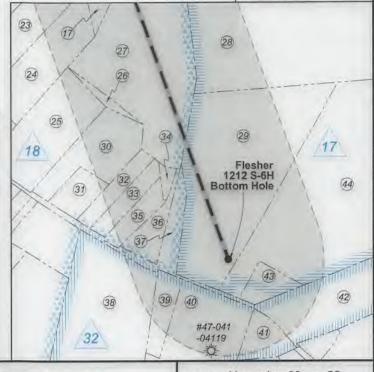
Flesher 1212 N-2H

Flesher 1212 N-1H

Flesher 1212 N-9H

Flesher 1212 S-5H





Proposed Well Flesher 1212 S-6H FILE NO: 156-36-12-U-F-19 DRAWING NO: Flesher 1212 S-6H Well Plat 1" = 2000" SCALE: MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION:

CORS, Bridgeport, WV

WELL TYPE: OIL

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

November 30 20 20 DATE: OPERATOR'S WELL NO. Flesher 1212 S-6H API WELL NO 47 041 05714 COUNTY PERMIT STATE

Btm: Big Isaac

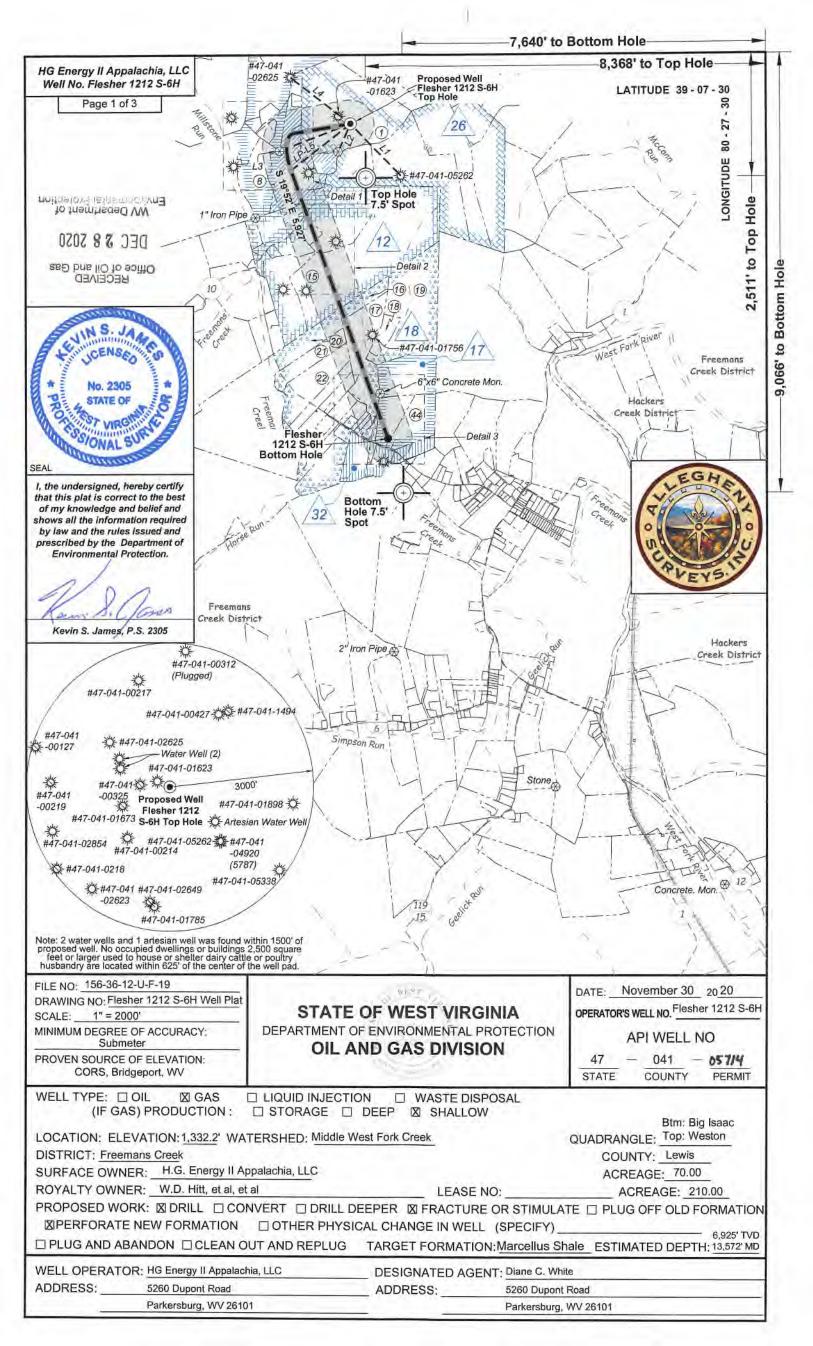
☐ WASTE DISPOSAL ☐ LIQUID INJECTION (IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW LOCATION: ELEVATION: 1,332.2' WATERSHED: Middle West Fork Creek **DISTRICT:** Freemans Creek SURFACE OWNER: H.G. Energy II Appalachia, LLC

QUADRANGLE: Top: Weston COUNTY: Lewis ACREAGE: 70.00 ACREAGE: 210.00

ROYALTY OWNER: W.D. Hitt, et al, et al LEASE NO: PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION ☑ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH; 13,572' MD ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG

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



HG Energy II Appalachia, LLC Well No. Flesher 1212 S-6H Page 2 of 3 Detail 2 (Scale 1"=500') Detail 1 (Scale 1"=500') 8 11 淼 #47-041 -00219 (5) 26 4 10 6 1 (10) (12) 7 16 #47-041 10 -01785荣 (13) (14) 3 2 12 500' Buffer (Typ.) #47-041 -02854 #47-041 (15) -00214 💥 Millstone Run 500' Buffer (Typ.) #47-041 -02650 X -04527 Detail 3 (Scale 1"=500') Bearing Description RECEIVED Office of Oil and Gas N 43°49' W 1,515.2 #47-041-05262 L1 (23) 1/2" Rebar (17) N 23°41' E 638.2 (28) DEC 28 2020 1,588.01 27 L3 N 69°03' E 1" Iron pipe 14 S 52°12' E 1,577.3 #47-041-02625 WV Department of Environmental Protection (24) (26) 1.583.5 Landing point L5 S 51°51' W Wellhead Layout (NTS) 25 34 (29) 17 18 Flesher 1212 N-3H N 80°53' E 25' Flesher 1212 S-6H Bottom Hole Flesher 1212 N-2H Flesher 1212 N-4H (44) 31) (API# 47-041-05707) 5 0 0 Flesher 1212 N-1H 09°03 35 Flesher 1212 S-8H (37) Flesher 1212 N-9H Flesher 1212 S-7H Flesher 1212 S-5H (42) (40) 38 4 Proposed Well Flesher 1212 S-6H #47-041 32 34 FILE NO: 156-36-12-U-F-19 November 30 20 20 DRAWING NO: Flesher 1212 S-6H Well Plat OPERATOR'S WELL NO. Flesher 1212 S-6H STATE OF WEST VIRGINIA 1" = 2000' SCALE: MINIMUM DEGREE OF ACCURACY: DEPARTMENT OF ENVIRONMENTAL PROTECTION API WELL NO Submeter OIL AND GAS DIVISION PROVEN SOURCE OF ELEVATION: 47 041 - 05714 CORS, Bridgeport, WV COUNTY STATE PERMIT WELL TYPE: □ OIL X GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL (IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW Btm: Big Isaac QUADRANGLE: Top: Weston LOCATION: ELEVATION: 1,332.2' WATERSHED: Middle West Fork Creek **DISTRICT:** Freemans Creek COUNTY: Lewis SURFACE OWNER: H.G. Energy II Appalachia, LLC ACREAGE: 70.00 ROYALTY OWNER: W.D. Hitt, et al, et al LEASE NO: ACREAGE: 210.00 PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION ☑ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 13,572' MD WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road Parkersburg, WV 26101 Parkersburg, WV 26101

Page 3 of 3



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DEC 28 2020

WV Department of Environmental Protection

ID	Lease
7	Pearle A. Norris, et al
10	J.S. Norris, et al
12	C.L. Hitt, et al
16	George Norris, et al
17	H.M. Stewart & C.J. Stewart
18	W.E. Carpenter, et al
26	W.D. Hitt, et al
32	Zeffie M. Keister, et al.

		Lewis Co Freeman Creek Dist.		
No.	TM / Par	Owner	Bk / Pg	Ac.
1	6C / 47	HG Energy II Appalachia, LLC	753 / 453	70.00
2	6C / 25.1	William Radtka & Helen Burton	655 / 681	5.85
3	6C / 25	Robert M. Painter	629 / 411	27.48
4	6C / 23	Richard G. & Loretta E. Hayhurst	566 / 355	34.80
5	6C / 23.4	Richard G. Hayhurst, et ux	565 / 326	4.13
6	6C / 23.10	Gary Farris	700 / 769	0.65
7	6C / 23.6	Gary Farris	700 / 769	2.02
8	6C / 23.2	Michael & Laura Phillips	661 / 298	21.32
9	6C / 27.4	21st Mortgage Corporation	749 / 527	2.03
10	6C / 27.3	George & Lisa Cogar	594 / 16	10.20
11	6C / 43	Gary A. Sias	646 / 688	50.59
12	6C / 43.1	Robert M. Painter	598 / 001	3.89
13	6C / 28	Carolyn M. Sias, et al	718 / 171	6.10
14	6C / 32	Richard W. Dunham	W11 / 100	28.52
15	6C / 32.1	Fred A. Bailey	W25 / 263	92.89
16	6C / 42	Fred A. Bailey	W25 / 263	6.70
17	6C / 41	Larry R. & Gina F. Simon	702 / 865	19.11
18	6C / 40.1	Jeffrey R. & Pamela J. Nicholson	713 / 40	5.50
19	6C / 40	Scott & Amy Carpenter	709 / 826	45.95
20	6C / 35	Richard D. & Connie S. Carpenter (LE)	707 / 83	15.00
21	6C / 36	Richard D. & Connie S. Carpenter (LE)	707 / 83	12.00
22	6C / 37	Richard D. & Connie S. Carpenter (LE)	707 / 83	21.50
23	6D / 24	Richard D. & Connie S. Carpenter (LE)	707 / 83	8.00
24	6D / 25	Larry & Gina F. Simon	702 / 865	4.30
25	6D / 26	Elden R. Jackson	468 / 370	3.99
26	6D / 26.1	Bennett D. & Jo A. Orvik	444 / 89	0.25
27	6D/99	Bennett D. & Jo A. Orvik	412 / 147	10.00
28	6C / 39	Phyllis L. & Dolores A. Hinterer	591 / 653	23.00
29	6D / 40	Phyllis L. & Dolores A. Hinterer	591 / 653	10.25
30	6D / 32	Elden R. Jackson	468 / 370	2.85
31	6D / 32.1	Kenneth E. & Jennifer A. Peters	325 / 513	1.00
32	6D / 31	Taylor & Tyler Beckner	747 / 635	0.96
33	6D / 33	William C. & Dorotha M. Casto	313 / 601	1.03
34	6D / 34.1	Bennett D. & Jo A. Orvik	419 / 528	0.21
35	6D / 34	Jacob S. Davisson	716 / 631	0.81
36	6D / 35	Jacob S. Davisson	716 / 631	1.06
37	6D / 36	Phyllis L. & Dolores A. Hinterer	591 / 653	0.33
38	6D / 37	Charles R. Kemper	487 / 688	13.40
39	6D / 38.1	Gary L. & Karen L. Messenger	346 / 43	1.07
40	6D / 38	Michael D. & Ernie D. Batten	669 / 494	3.43
41	6D / 54	Kenneth D. Huffman	W32 / 293	0.98
42	6D / 44	Richard Messenger	F25 / 680	4.96
43	6D / 41	Tyler L. & Emily L. Syrews	684 / 52	1.57
44	6D / 42	Michael & Kelly M. Goodwin	682 / 485	15.98

Well Location References Not to Scale		Legend		
		•	Proposed gas well	
	Flesher	*	Well Reference, as noted	
AZ82° 321' -(	1212 Pad	⊗	Monument, as noted	
AZ82	IR	禁	Existing Well, as noted	
18" Sycamore	1328	袋	Digitized Well, as noted	
	13/8		Creek or Drain	
Proposed Well	100		Existing Road	
Flesher 1212 S-6H	*	-	Surface boundary (approx.)	
1212 0-011	16" Elm		Interior surface tracts (approx.)	

Notes: Well No. Flesher 1212 S-6H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates
Latitude: 39°07'05.18"
Longitude: 80°29'16.21"
Longitude: 80°29'06.94"
UTM Zone 17, NAD 1983

Top Hole Coordinates
N: 4,330,018.119m
E: 544,291,444m

Bottom Hole Coordinates
N: 4,328,021.450m
E: 544,525.389m

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

Notes:
Well No. Flesher 1212 S-6H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,206,067.78'
E: 1,785,729,51'
Landing Point Coordinates
N: 14,205,089.45'
E: 1,784,484.36'
Bottom Hole Coordinates
N: 14,199,517.04'
E: 1,786,497.05'

FILE NO: 156-36-12-U-F-19

DRAWING NO: Flesher 1212 S-6H Well Plat
SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION:

DISTRICT: Freemans Creek

CORS, Bridgeport, WV

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

DATE: November 30 20 20

OPERATOR'S WELL NO. Flesher 1212 S-6H

API WELL NO

47 — 041 — **057/4** 

COUNTY

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

LOCATION: ELEVATION: 1,332.2' WATERSHED: Middle West Fork Creek

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

.....

STATE

Btm: Big Isaac

PERMIT

QUADRANGLE: Top: Weston
COUNTY: Lewis

ACREAGE: 70.00 ACREAGE: 210.00

ROYALTY OWNER:	W.D. Hitt,	et al, et al		LEASE NO:	ACREAGE: 210.00
PROPOSED WORK:	<b>⊠</b> DRILL	□ CONVERT	☐ DRILL DEEPER	X FRACTURE OR STIMU	JLATE   PLUG OFF OLD FORMATION
Name of the State of the State of State	Arte San Landson St.				

☑PERFORATE NEW FORMATION	OTHER PHYSIC	CAL CHANGE IN WELL	(SPECIFY)	THE RESERVE OF THE PERSON OF T	6.925' TVD
☐ PLUG AND ABANDON ☐ CLEAN O	JT AND REPLUG	TARGET FORMATION	:Marcellus Shale		

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

WW-6A1 (5/13)

Operator's Well No. Flesher 1212 S-6H

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

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

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

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

\*\*See Attached Sheets\*\*

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

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

• WV Division of Water and Waste Management

• WV Division of Natural Resources WV Division of Highways

- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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DEC 28 2020

WV Department of Environmental Protection

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

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

				1212S - 6H LEASE	CHAIN			
TRACT#	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
				W. D. HITT AND ALDA HITT, HIS WIFE; J. C. HITT AND DORA HITT, HIS				
	1			WIFE; L.A. MCCARTY AND F. R. MCCARTY, HER HUSBAND; GEORGE W.				
				NEELY AND GRACE M. NEELY, HIS WIFE	RESERVE GAS COMPANY	NOT LESS THAN 1/8	68	524
	1			RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	
l			1	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
1		03-006C-0045-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
		03-006C-0046-0000		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
		03-006C-0053-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		03-006C-0054-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	154
26	FK053270	03-007C-0007-0000	Q100675000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
		p/o 03-006C-0043-0000	Ì	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%) ASSIGNMENT	712	848
	1	p/o 03-006C-0043-0001		CNX GAS COMPANY LLC	NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	717	120
		p/o 03-006C-0047-0000	1	NOBLE ENERGY, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	139
Į.				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSIVISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF	WVSUS	
		5	Office of C	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	1 400
			HE HE	DOMINION ENERGY TRANSMISSION, INC.	ING ENERGY II AFFALACHIA, ELC	THIRD AMENDMENT TO MEMORANDUM OF	/23	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
Ĭ		-	RECE ice of C	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	
			8	PEARLE A. NORRIS AND EDNA N. PAUGH AND CHAS. S. PAUGH, HER	THE ENERGY HAVE THE TENENTY ELEC	7 SSIGNIMENT (SS70)	/30	
		1	a-⊂ 0 m	HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	219	218
1			Fig. 25 do	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	219	89
			ED Gas	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
			ect of as	CONSOLIDATED GAS SOFFET CORPORATION  CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	12/
	1		Ę	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
			Γ	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
		03-006C-0025-0000;	i	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
	<b> </b>	03-006C-0025-0001;		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
7	FK064074	P/O 03-006C-0023-0001;	Q100293000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
ì		P/O 03-006C-0023-0000,	1	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
1		F/O 03-000C-0043-0000	1	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
			1			SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
			1		·	THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
1	1	l		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	
<b> </b>				GEORGE NORRIS AND LAURA B. NORRIS, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	124
		1	1	SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	127
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
		1		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
1		02.0060.0027.0004		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
1		03-006C-0027-0001		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
1		03-006C-0027-0002		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
	54053473	03-006C-0027-0003	Q100671000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
16	FK053173	03-006C-0027-0004	(T009, T000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
1	1	03-006C-0030-0000 p/o 03-006C-0043-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
Į.		p/0 03-006C-0043-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170

ı	i	p/ 0 03-000C-00+3-000±		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:
ł				Definition given or the watering and	The Estation with Estation years	THIRD AMENDMENT TO MEMORANDUM OF	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	5
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	2
				C. L. HITT, B. J. HITT, S. A. HITT, ELIZA A. HITT, AND LUCY M. HITT	RESERVE GAS COMPANY	NOT LESS THAN 1/8	68	5
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	2
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	1
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		03-006C-0028-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	1.
		03-006C-0029-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
	FKOESSCO	03-006C-0032-0000	Q100338000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	8-
12	FK053269	03-006C-0032-0001	Q100338000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
		p/o 03-006C-0031-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	1
		p/o 03-006C-0043-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	1
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
						SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	4:
		1				THIRD AMENDMENT TO MEMORANDUM OF		
		Į		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	5.
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	2:
		p/o 03-006C-0035-0000		W. E. CARPENTER AND MONA E. CARPENTER, HIS WIFE; C. W. SHUTTS				
		03-006C-0036-0000		AND MARGARET SHUTTS, HIS WIFE, EACH IN THEIR OWN RIGHT;				
		03-006C-0037-0000 03-006C-0038-0000		CREED L. SHUTTS AND MONA LEE SHUTTS, HIS WIFE, EACH IN THEIR				
		03-006C-0038-0001		OWN RIGHT; CREED L. SHUTTS AND MONA LEE SHUTTS, HIS WIFE;				
		03-006C-0040-0000		NINA G. ALLEN, WIDOW; VIRGINIA Y. G. MCMULLEN AND T. F.				
		03-006C-0040-0001		MCMULLEN, HER HUSBAND; EDWARD D. CARPENTER AND VICTORIA				
		03-006C-0041-0000		M. CARPENTER, HIS WIFE; ARTHUR D. CARPENTER AND GLORIA R.				
		03-006C-0042-0000		CARPENTER, HIS WIFE; AND STARK D. CARPENTER AND DAISY M.	LIGHT NATURAL CAS COLABANY			
		03-006D-0024-0000		CARPENTER, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	224	24
		03-006D-0025-0000		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
		03-006D-0025-0002 03-006D-0026-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	12
10	FK064858	03-006D-0026-0001	Q100600000	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
18	FN004636	03-006D-0027-0001	Q10000000	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		03-006D-0028-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	MEMORANDUM OF FARMOUT AGREEMENT	672	15
		03-006D-0029-0000		DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%) ASSIGNMENT	712 717	84
		03-006D-0029-0001		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT		
	1	03-006D-0030-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.		722	13
		03-006D-0030-0001		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF	wvsos	
		03-006D-0031-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	40
	1	03-006D-0032-0000 03-006D-0032-0001		DOMINION ENERGY TRANSMISSION, INC.	ITO ENERGY II AFFADAÇITIA, EEC	THIRD AMENDMENT TO MEMORANDUM OF	/23	49
	İ	03-006D-0033-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	724	
		03-006D-0034-0000		DOMINION ENERGY TRANSMISSION, INC.	ING ENERGY II AFFADACHIA, EEC	FARMOOT AGREEMENT	734	55
	ì	03-006D-0034-0001						
		03-006D-0035-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	22
		Virg	Office DEC	H. M. STEWART AND C.J. STEWART, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	14
	1	21		SOUTH PENN OIL COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79	23
	1	× × × ×		RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	2
	1	epan ental	RECEIVED of Oil and	W. E. CARPENTER AND MONA CARPENTER, HIS WIFE; JESSE M. HOLT				
		a a	<b>∞</b> ≅	AND MAUDE HOLT, HIS WIFE	HOPE NATURAL GAS COMPANY	STORAGE GRANT	219	5
		Protec	AED and Ga	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
		. ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	_ ~ ~ ~ ~ ~	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	

1	1	1	1	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
		03-006D-0040-0000,	· •	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
	i			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
17	FK053174	03-006D-0041-0000,	Q101023000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
		03-006D-0042-0000,		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
		03-006C-0039-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
	ľ			NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
	1			NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
	ł					SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
			İ			THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
	1			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220

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



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

December 19, 2020

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

RECEIVED Office of Oil and Gas

DEC 28 2020

WV Department of Environmental Protection

RE:

 $Drilling\ Under\ Roads-Flesher\ 1212\ S\text{-}6H$ 

Freemans Creek District, Lewis County

West Virginia

Dear Ms. Kees:

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

Should you have any questions or desire further information, please contact me at <a href="https://dwh.desire.gov/dwh.desire.g

Very truly yours,

Diane White

Diane C. White

Enclosures

API No. 47-\_\_\_\_\_

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

Date of Notic	e Certification: 12/21/2020	API N	No. 47				
			Operator's Well No. Flesher 1212 S-6H				
		Well 1	Pad Name:Flesher	Well Pad			
Notice has b	een given:			tara se e e e e e e e e e e e e e e e e e e			
Pursuant to th	e provisions in West Virginia Code §	22-6A, the Operator has provided t	he required parties v	with the Notice Forms listed			
	tract of land as follows:	The set	F44004 4				
State:	West Virginia	UTM NAD 83 Eastin					
County:	Lewis	North		Valley Chapel Road			
District:	Freemans Creek	Public Road Access:		Valley Chaper Noad			
Quadrangle:	Weston	Generally used farm na	IIIe. Flesilei				
Watershed:	McCann Run						
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and sleed the owners of the surface described equired by subsections (b) and (c), securificate owner notice of entry to surface owner notice of entry to surface of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall to have been completed by the applicant	ped in subdivisions (1), (2) and (4) ction sixteen of this article; (ii) that rivey pursuant to subsection (a), seef this article were waived in writing ender proof of and certify to the second	, subsection (b), set the requirement was ction ten of this arting by the surface ov	ction ten of this article, the deemed satisfied as a resulcte six-a; or (iii) the notic wner; and Pursuant to Wes			
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the required ECK ALL THAT APPLY		tice Certification	OOG OFFICE USE ONLY			
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED B SEISMIC ACTIVITY WAS CON		☐ RECEIVED/ NOT REQUIRED			
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or   NO PLAT SURVEY W.	AS CONDUCTED	□ RECEIVED			
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED B NOTICE OF ENTRY FOR PLAT WAS CONDUCTED or		RECEIVED/ NOT REQUIRED			
		☐ WRITTEN WAIVER BY SU (PLEASE ATTACH)	JRFACE OWNER				
_	TICE OF PLANNED OPERATION	Of	RECEIVED ffice of Oil and Gas	RECEIVED			
_	BLIC NOTICE	1	DEC 28 2020	RECEIVED			
■ 6. NO	TICE OF APPLICATION	) Fnv	MV Department of ironmental Protection	RECEIVED			

#### **Required Attachments:**

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

WW-6AC (1/12)

#### Certification of Notice is hereby given:

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

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

 By:
 Diane White
 Diane White
 Parkersburg, WV 26101

 Its:
 Agent
 Facsimile:
 304-863-3172

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



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

Casada Boards

Notary Public

My Commission Expires 7 31 2022

Oil and Gas Privacy Notice:

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

Office of Oil and Gas

DEC 28 2020

API NO. 47- 4704105714

OPERATOR WELL NO. Plesher 1212 N-1H to 5 8H

Well Pad Name: Flesher 1212

# 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 ma	n the ming date of permit application.	
Date of Notice: 08/29/20 Date Permit Application Filed: 09/01 Notice of:	1/20	
☑ PERMIT FOR ANY ☐ CERTIFICATE OF APP	ROVAL FOR THE	
에 <del>하는</del> 데 그렇게 빠져서면 열심하게 소설하면 보다 하다면 보다 보고 있다면 하고 있다면 하고 있다면 하다.	AN IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virginia Code § 22-6A-10	(b)	
☐ PERSONAL ☐ REGISTERED ☑ METHO	OD OF DELIVERY THAT REQUIRES A	
	PT OR SIGNATURE CONFIRMATION	
registered mail or by any method of delivery that requires a receipt of sediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be located and gas leasehold being developed by the proposed well work, if described in the erosion and sediment control plan submitted pursual operator or lessee, in the event the tract of land on which the well proposed well work, if the surface tract is to be used for the placement, construction impoundment or pit as described in section nine of this article; (5) A have a water well, spring or water supply source located within one provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than three subsection (b) of this section hold interests in the lands, the applicant records of the sheriff required to be maintained pursuant to section of provision of this article to the contrary, notice to a lien holder is not Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide water purveyor or surface owner subject to notice and water testing	the well plat to each of the following persons: (1) The owners of record of the surface tract or tractive the surface tract is to be used for roads or other land dignt to subsection (c), section seven of this article; (3) The roposed to be drilled is located [sic] is known to be underest overlying the oil and gas leasehold being developed function, enlargement, alteration, repair, removal or abandary surface owner or water purveyor who is known to the thousand five hundred feet of the center of the well padd (6) The operator of any natural gas storage field within the tenants in common or other co-owners of interests despit may serve the documents required upon the person desight, article one, chapter eleven-a of this code. (2) Notwoods to a landowner, unless the lien holder is the land rovide the Well Site Safety Plan ("WSSP") to the surface	wners of record of cts overlying the sturbance as e coal owner, erlain by one or by the proposed donment of any ne applicant to which is used to which the scribed in the withstanding any lowner. W. Va.
☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice		
SURFACE OWNER(s) + HE Energy not noticed	☐ COAL OWNER OR LESSEE	
Name: HG Energy II Appalachía, LLC (Pad and Road)	Name:	
Address: 5260 Dupont Road	Address:	
Parkersburg, WV 26101	COAL OPERATOR	
Name:Address:	☐ COAL OPERATOR Name:	RECEIVED
Address:	Address:	Office of Oil and Gas
SURFACE OWNER(s) (Road and/or Other Disturbance)	rudicss,	DEC 28 2020
Name: Fred Bailey (also surface owner of water well)	☐ SURFACE OWNER OF WATER WELL	DLC 20 2020
Address: 4853 Old Mill Road	AND/OR WATER PURVEYOR(s)	WV Department of
Jane Lew, WV 26378	Name: Robert Painter	Environmental Protection
Name: Phyllis L & Dolores A Hinterer	Address: 445 Millstone Road	
Address: P. O. Box 730	Weston, WV 26452	
Jane Lew, WV 26378	OPERATOR OF ANY NATURAL GAS STORA	GE FIELD
☐ SURFACE OWNER(s) (Impoundments or Pits)	Name: Dominion Energy Transmission - Attn: Ronald Waldren	
Name:	Address: 925 White Oaks Blvd	
Address:	Bridgeport, WV 26330	
	*Please attach additional forms if necessary	

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

Notice is hereby given:

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

#### This Notice Shall Include:

DEC 28 2020

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

Environmental Protection

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

4704105714 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

### 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:

drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

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

#### Written Comment:

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

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

DEC 28 2020

WV Department of **Environmental Protection** 

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

API NO. 47-\_\_\_\_ OPERATOR WELL NO. Fleesher 12/12 N-1H to S-6H
Well Pad Name: Flesher 12/12

### Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

#### Permit Denial or Condition

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

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

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

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

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Office of Oil and Gas

DEC 28 2020

4704105714

OPERATOR WELL NO. Flesher 1212 N-4H

Well Pad Name: Flesher 1212

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC 304-420-1119

Telephone:

dwhite@hgenergyllc.com Email:

Address: 5260 Dupont Road

Parkersburg, WV 26101

Facsimile: 304-863-2172

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 29th day of August Notary Public My Commission Expires

Office of Oil and Gas

DEC 28 2020

WW-6A (8-13) Page 1 Continued Flesher 1212 N-1H to S-8H

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

Richard & Loretta Hayhurst 340 Cheyenne Drive Weston, WV 26452

Fred Bailey 4853 Old Mill Road Jane Lew, WV 26378

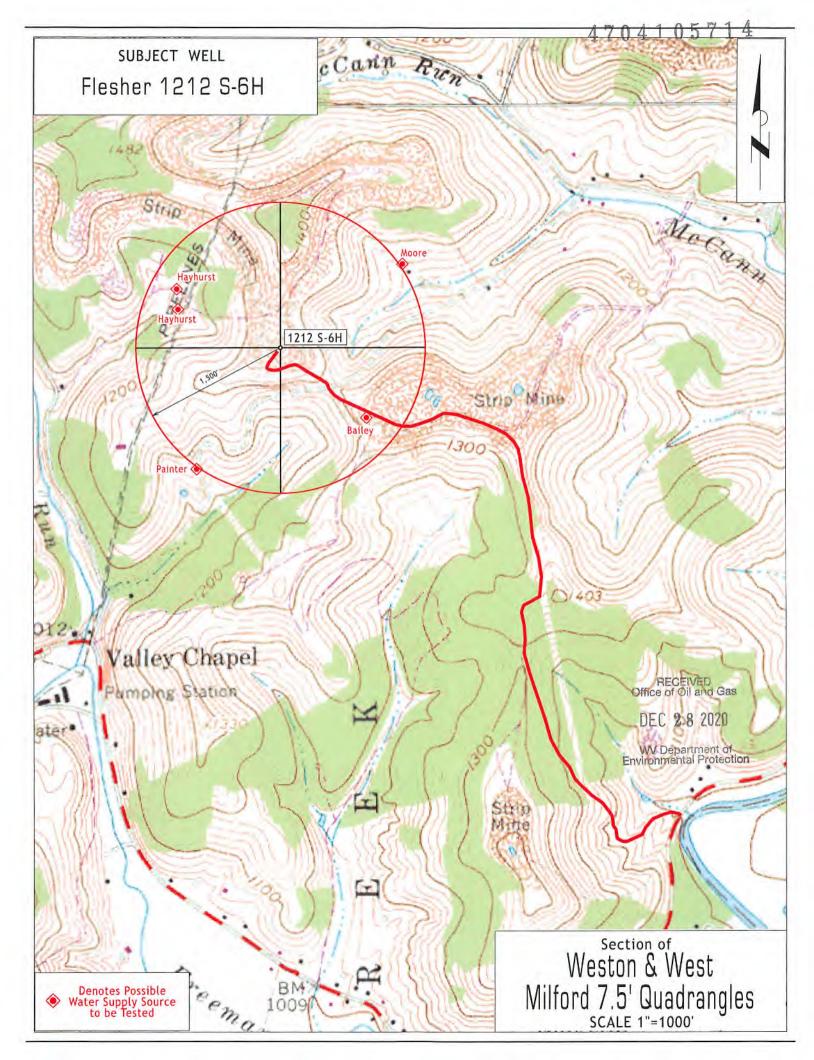
Mary Elen Nicholson 1149 Millstone Road Weston, WV 26452

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

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

Office of Oil and Gas

DEC 28 2020



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

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

Notice Time Date of Notic		ne provided at least TEN (10) days prior to filing a Date Permit Application Filed: 12/21/2020	permit applicat	ion.
Date of Home	C. January			
Delivery met	hod pursuant to West Virg	nia Code § 22-6A-16(b)		
☐ HAND	■ CERTIFIED	MAII.		
DELIVE		ECEIPT REQUESTED		
receipt reques drilling a hori of this subsec subsection ma	ted or hand delivery, give th zontal well: <i>Provided</i> , That tion as of the date the notice by be waived in writing by the	t least ten days prior to filing a permit application, e surface owner notice of its intent to enter upon the notice given pursuant to subsection (a), section to was provided to the surface owner: <i>Provided, how</i> e surface owner. The notice, if required, shall include extraction and the operator and the operator	he surface owner on of this article wever, That the lude the name, a	er's land for the purpose of e satisfies the requirements notice requirements of this address, telephone number,
Notice is he	reby provided to the SUI		of noticed	Office of Oil and Gas
	nergy II Appalachia, LLC	Name:		DEC 0 0 page
Address: 5260	Dupont Road	Address:		DEC 2 8 2020
	rsburg, WV 26101			
Notice is he Pursuant to W the surface ov	rsburg, WV 26101  reby given: /est Virginia Code § 22-6A-	16(b), notice is hereby given that the undersigned f drilling a horizontal well on the tract of land as for the tract of land as for Easting:	well operator h ollows: 544291.4	WV Department of Environmental Protection
Notice is he Pursuant to W the surface ov State:	reby given: /est Virginia Code § 22-6A- vner's land for the purpose o	16(b), notice is hereby given that the undersigned f drilling a horizontal well on the tract of land as fo	544291.4 4330018.1	WV Department of Environmental Protection as an intent to enter upon
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Oil and Gas Privacy Notice:

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

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

	Time Roof Notice:	equirement: notice shall		later than the filing oplication Filed: 12/2:		application.	
Delive	ery metho	od pursuant to West Vir	ginia Code § 2	22-6A-16(c)			
ш	CERTIFI	ED MAIL	T	HAND			
		RECEIPT REQUESTE		DELIVERY			
return the pl requir drillin damas (d) Th of not	receipt re anned ope ed to be p g of a ho ges to the he notices ice.	Va. Code § 22-6A-16(c) equested or hand delivery eration. The notice required by subsection (b) rizontal well; and (3) A surface affected by oil an required by this section so by provided to the SURF isted in the records of the	, give the surfatired by this surfatired by this surfation ten of proposed surfatid gas operationshall be given to FACE OWNER	ce owner whose land absection shall include this article to a surface use and compensate to the extent the date to the surface owner a	will be used for le: (1) A copy lee owner whos ation agreemen mages are comp t the address list	or the drilling of a hor of this code section; se land will be used in it containing an offer pensable under article sted in the records of	izontal well notice of (2) The information conjunction with the of compensation for six-b of this chapter.
Name		ergy II Appalachia LLC	Shorm at the t	Name:			
Addre	SS: 5260 D	upont Road		Address	:		DEC 28 2020
Pursu opera State: Coun Distri Quad	tion on the ty:	st Virginia Code § 22-6A te surface owner's land fo West Virginia Lewis Freemans Creek Weston 7.5'	16(c), notice in the purpose of	of drilling a horizonta  UTM NAD 8  Public Road	well on the tra Easting: Northing:	well operator has devo tet of land as follows: 544291.4 4330018.1 Kincheloe Rd / Valley Chap Flesher	
Pursu to be horize surfac inform heade gas/pu	Notice Sh ant to We provided ontal well be affected		6A-10(b) to a stace use and coons to the external may be obta	surface owner whose impensation agreement the damages are co- tined from the Secret	land will be not containing and containing and compensable under ary, at the WV	used in conjunction on the confer of compensation of the compensation of the confer of Environment of Environme	with the drilling of a on for damages to the is chapter. Additional ironmental Protection
Emai		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Facsimile:			
milat		dwhite@hgenergyllc.com	mune W	www.			-
Oil a	nd Gas P	rivacy Notice: Oil and Gas processes you	ur personal info	ormation, such as nam	e, address and	telephone number, as	part of our regulatory

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



## WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

August 17, 2020

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

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

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

Subject: DOH Permit for the Flesher 1212 Pad, Lewis County Flesher S-6H 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,

Office of Oil and Gas

DEC 28 2020

WV Department of Environmental Protection

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Dia

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

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

	T	
Chemical Name	CAS#	Multiple CAS #'s
Pro Shale Slik 405	Mixture	68551-12-2
		7647-14-5
		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
		68607-28-3
		107-21-1
		111-76-2
		67-56-1
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
		1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
DIO GLEAD 2000	B distance	25222 60.2
BIO CLEAR 2000	Mixture	25322-68-3
		10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
		107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	

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Office of Oil and Gas

DEC 28 2020

