

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 22, 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 N-9H

47-041-05713-00-00

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 N-9H

Farm Name: H. G. ENERGY II APPALACH

U.S. WELL NUMBER: 47-041-05713-00-00

Horizontal 6A New Drill Date Issued: 1/22/2021

API Number:	4 75 7 7 4
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PERMIT CONDITIONS

4704105713

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.

COND	TTON	c
CUILD		S

- 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: 4704105713

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.



west virginia department of environmental protection

Office of Oil and Gas 601 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:

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

CONCLUSIONS OF LAW

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

ORDER

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

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

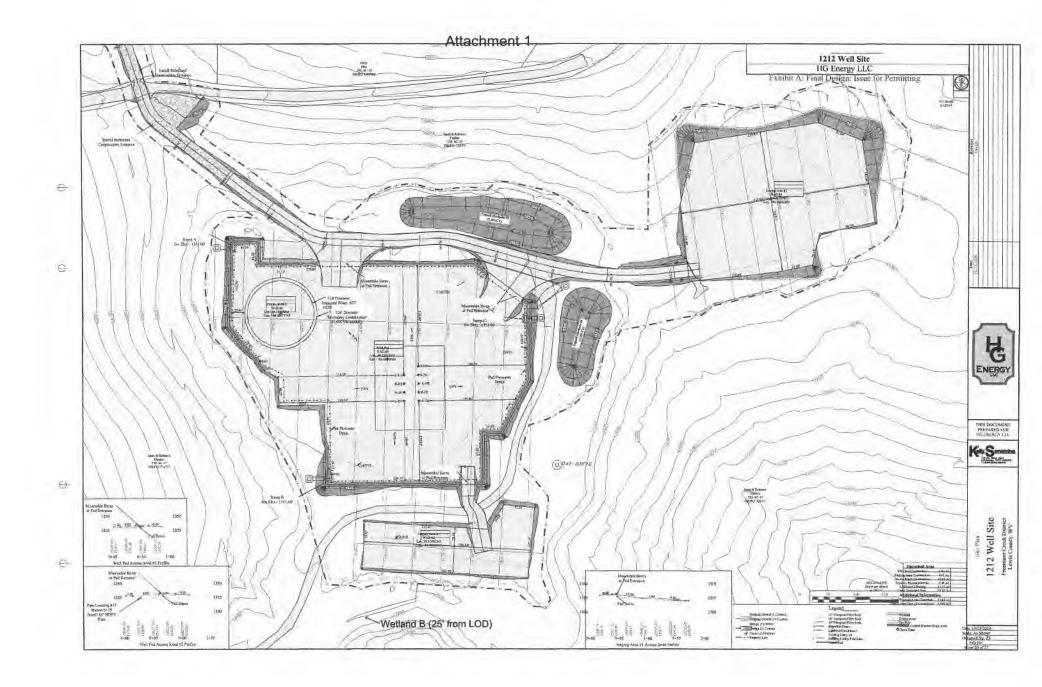
Thus ORDERED, the 13th day of November 2020.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By: James Martin Object 2020.11.13 10702-10-005007

JAMES A. MARTIN, CHIEF



WW-6B (04/15)

API NO. 47	·
OPERATOR WELL NO.	Flesher 1212 N-9H
Well Pad Name: Fleshe	r 1212

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

1) Well Operator: HG Energy	II Appalachia, 🔓	494519932	Lewis	Freeman	Weston 7.5'
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Fle	esher 1212 N-9H	Well Pad	Name: Flesh	er 1212	
3) Farm Name/Surface Owner:	Flesher	Public Road	d Access: SR19	to Kincheloe F	Run Rd to Valley Chapel Rd
4) Elevation, current ground:	1338' Ele	evation, proposed j	oost-construction	on: 1332'	
5) Well Type (a) Gas X Other	Oil	Unde	rground Storag	ge	
、 /	llow X	Deep			
6) Existing Pad: Yes or No No					
7) Proposed Target Formation(s Marcellus at 6845'/6927' and 8		•	-	ressure(s):	
8) Proposed Total Vertical Dept	h: 6925'				
9) Formation at Total Vertical D	epth: Marcellus	S			
10) Proposed Total Measured D	epth: 23753'				
11) Proposed Horizontal Leg Le	ngth: _15332'				
12) Approximate Fresh Water S	trata Depths:	105', 273', 302'			
13) Method to Determine Fresh	Water Depths:	Nearest offset wel	l data, (47-04	1-5338, 02	18)
14) Approximate Saltwater Dept	ths: 1028' (Near	rest offset well data	a, 47-041-1673	3)	
15) Approximate Coal Seam De	pths: 420', 525' 830)' (Surface casing is be	eing extended to c	over the coal	in the DTI Storage Field)
16) Approximate Depth to Possi	ble Void (coal mi	ne, karst, other):	None		
17) Does Proposed well location directly overlying or adjacent to		ns Yes	No	X	RECEIVED Office of Oil and Gas
(a) If Yes, provide Mine Info:	Name:				DEC 1 8 2020
	Depth:				WV Department of
	Seam:			<u> </u>	Vironmental Protection
	Owner:				

B.S. 11-20-20

WW-6B (04/15)

.PI NO. 47	
OPERATOR WELL NO.	Flesher 1212 N-9H
Well Pad Name: Fleshe	er 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	23753'	23753'	CTS
Tubing							
Liners							

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

PACKERS

		RECEIVED
Kind:		Office of Oil and Gas
		DEC 1 0 000
Sizes:		DEC 1 8 2020
		WV Dono
Depths Set:		WV Department of Environmental Protection
_		Flotection

B.S.11-20-20

4704105713

WW-6B (10/14) API NO. 47-___OPERATOR WELL NO. Flesher 1212 N-9H
Well Pad Name: Flesher 1212

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

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 6925 feet. Drill horizontal leg to estimated 15,332 lateral length, 23,753 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 when every third joint to 100' from surface.
Production - Run 1 sprind centralizer every 5 joints from the top of the curve. Run 1 spiral centralizer every 3 joints from the 1st 5.5" long joint to the top of the curve.

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

Conductor -N/A, Casing to be drilled in wi Dual Rotary Rig.
Fresh Water/Coal -15.5 ppg PNE-1 + 3% bwcc CaCl, 40% Excess Yield = 1.20, CTS
Intermediate 1 - Lead: 15.4 ppg PNE-1 + 2.5 bwcc CaCl, 40% Excess Yail: 15.5 ppg PNE-1 + 2.5 bwcc CaCl, 20% Excess, CTS
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg PNE-1 + 2.5 bwcc CaCl, 20% Excess, CTS
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg, PNE-1 + 2.5 bwcc CaCl, 200% Excess, CTS
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg, PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg, PNE-1 + 2.5 bwcc CaCl, 200% Excess, CTS
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg, PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg, PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg, PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg, PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg, PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg, PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg, PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg, PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg, PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg, PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg, PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg, PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg, PNE-1 bwcc CaCl, 40% Excess, Tail: 15.9 ppg,

25) Proposed borehole conditioning procedures:

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

DEC 1 8 2020

WV Department of Environmental Protection

*Note: Attach additional sheets as needed.

Page 3 of 3

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

laterial Name	Material Type	Material Description	CAS#		
		Premium NE-1 is a	Ingredient name	%	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide Magnesium oxide	1-5	1305-78-8 1309-48-4
Total Comment		strength properties.	Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7
remium NE-1	Portland Cement				
		Commonly called gel, it is			
		a clay material used as a	Ingredient name	%	CAS number
		cement extender and to	bentonite	90 - 100	1302-78-9
		control excessive free	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
		water.			
entonite	Extender				
		A powdered, flaked or			
		pelletized material used	Ingredient name	%	CAS number
		to decrease thickening	Calcium chloride	90 - 100	10043-52-4
		time and increase the rate			
		of strength development			
cium Chloride	Accelerator				
		0 1 1/0/0 0/4: 11			
		Graded (3/8 to 3/4 inch)	Ingredient name	%	CAS number
		cellophane flakes used as a lost circulation material.	No hazardous ingredient		
lo Flake	Lost Circulation	a roat engaration material.			
	2000 011 041 041 011				
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in	Ingredient name	%	CAS number
		cementing operations. It	Tributyl phosphate	90 - 100	126-73-8
		is very effective	Tributyi priospriate	90 - 100	120-73-0
		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
nulated Sugar	Retarder	returns at surface.	Sucrose	90 - 100	57-50-1
		A proprietary product			
		that provides expansive			
		properties and improves			100000000000000000000000000000000000000
		bonding at low to	Ingredient name	%	CAS number
		moderate temperatures.	Calcium magnesium oxide	90 - 100	37247-91-9
1		temperatures.			
		Multi-purpose polymer			
		additive used to control	Z	Total	Table 1 - 12-
		free fluid, fluid loss,	Ingredient name	%	CAS number
		rheology, and gas	No hazardous ingredient		7
A-170	Gas Migration	migration.			
		A synthetic pozzolan,			
		(primarily Sillcon Dioxide). When blended with			
		when blended with cement, Pozzolan can be			
		used to create	Ingredient name	%	CAS number
		lightweight cement	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
		slurries used as either a	Calcium oxide	RECEIV	ED 1305-78-8
		filler slurry or a sulfate		Office of Oil a	nd Gas
		resistant completion			
		cement.		DEC 18	2020
Fly Ash)	Base			01010	2020
		A CONTRACTOR OF THE PARTY.			
		A low temperature		WV Departme	ent of .
		retarder used in a wide	Ingredient name	Environmental P	CAS number
		range of slurry formulations to extend	Organic acid salt	40 - 50	Trade secret.
		the slurry thickening time.		-	
	Retarder	The sign I strikering title.			
	AND ASSESSED.				
			Ingredient name	%	CAS number
			the state of the s		
			2-Butoxyethanol	20 - 30	111-76-2
			Proprietary surfactant	10 - 20	Trade secret.
		Used to water wet casing	Proprietary surfactant D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	10 - 20 5 - 10	Trade secret. 110615-47-9
	Surfactant	Used to water wet casing and formation to facilitate cement bonding.	Proprietary surfactant	10 - 20	Trade secret.

VED and Gas.
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1212 N-9H 4 7 0 4 1 0 5 7 1 3 Marcellus Shale Horizontal

			PECEN	epartmer entral Pro		4040	011 011		Lewis Cou	206097.39N 17857	04 79E												
			9 77 9 8						VIII and I														
Ground E	Elevation		1332.	Z' Q AAA		1212	N-9H LF		14205519.13N 1782734.84E														
Az	m		340.53	9° 🗓		1212 N	-9H BH	L	14	219969.73N 17776	28.54E												
WELLBORE	E DIAGRAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS												
1 1 1																							
	l l 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												
			00"	Fresh Water	0	105, 273, 302		15.6 ppg PNE-1 + 3%	Centralized every 3	Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" w												
	x	26"	20" 94# J-55	Kittaning Coal	987	992	AIR	bwoc CaCl 40% Excess	joints to surface	of one hole volume with Fresh Water prior to	thickness Burst=2110 psi												
×				Fresh Water Protection	0	1000		Yield≃1.20 / CTS		pumping cement.	Buist-2116 por												
								Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl	Bow Spring on every	Once casing is at setting depth, Circulate and	ACTION AND THE SE												
		17.5"	13-3/8" 68#	Big Lime	1548	1613	AIR / KCL Salt	40% Excess / Tail: 15.9	joint *will also be running	condition at TD. Circulate a	Intermediate casing = 0.480" wall thickness												
×	X	17.5	J-55 BTC	Injun / Gantz (Storage)	1613 / 1898	1718 / 1958	Polymer	ppg PNE-1 + 2,5% bwoc CaCl	ACP for isolating	minimum of one hole volume prior to pumping	Burst=3450 psi												
				Intermediate 1	0	2100		zero% Excess, CTS	storage zone*	cement.													
' x x '	x		Fifty / Thirty Foot	2008 / 2105	2033 / 2128		Lead: 15.4 ppg PNE-1 +		Once casing is at setting														
	12,2	12,25"		Gordon Stray / Gordon	2128 / 2198	2198 / 2288	Salt	2.5% bwoc CaCl Bow Spring on fit 40% Excess / Tail: 15.9 joints then every	Bow Spring on first 2	depth, Circulate and	Intermediate casing = 0.395" wall thickness Burst=3950 psi												
			9-5/8" 40# J-55 BTC	5th Sand	2374	2416																	
X	×			Bayard Sand	2450	2480	Polymer	CaCl zero% Excess. CTS	surface														
				Intermediate 2	0	2900		Zero% Excess. C15															
X	X			Speechley	3078	3089		1	Run 1 spiral centralizer every 5 joints from the top of the curve to surface.	every 5 joints from the	Run 1 spiral centralizer	Run 1 spiral centralizer											
	10)	8,5" Vertical	214 6	Balltown	3278	3350	AIR / 9.0ppg	Lead: 14.5 ppg															
				Benson	4370	4382	SOBM	POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc		Once on bottom/TD with casing, circulate at max													
				Rhinestreet	6256	6445		EC1 + 0.75 gal/sk FP13L + 0.3% bwoc															
				Cashaqua	6445	6526	11,5ppg-	MPA170				ā										allowable pump rate for at	Production casing = 0.41
×	×		5-1/2" 23#	Middlesex	6526	6625		Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75												least 2x bottoms up, or until returns and pump	wall thickness Burst=16240 psi		
		8.5" Curve	P-110 HP	West River	6625	6660	12.5ppg	gal/sk FP13L + 50%	La companya da	pressures indicate the hole													
			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													
				Tully Limestone	6751	6815		20% Excess	1st 5.5" long joint to the	volume prior to pumping													
				Hamilton	6815	6753		Lead Yield=1.19 Tail Yield=1.94	top of the curve,	cement.													
			Marcellus	6845	6927	11.5ppg-	CTS																
		8.5" Lateral		TMD / TVD (Production)	23753	6925	12.5ppg SOBM																
×	x	V	V.	Onondaga	6927		V	V			v												
		X	X	X	X		X	X	X	×	X												
		5' TVD / 8421' MD			8.5" Hole - Cement 5-1/2" 23# P-110				+/-153	32' ft Lateral	TD @ +/-6925' TVD +/-23753' MD												
	X	Х	X	X	X	AA	X	Х	X	. X	X=centralizers												

Minus.

WW-9 (4/16)

My commission expires 11/2/2021

API Number 47 -	*
Operator's Well No). Flesher 1212 N-9H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

FEOIDS, COTTINGS DISTOSAL & RESERVATION COM	
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
Will a pit be used? Yes No ✓	
If so, please describe anticipated pit waste: NA	
Will a synthetic liner be used in the pit? Yes No V If so, what ml.?	
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number	
Reuse (at API Number TBD - At next anticipated well)
Off Site Disposal (Supply form WW-9 for disposal location)	
Other (Explain_	
Will closed loop system be used? If so, describe: Yes, cuttings and fluids will be collected in a closed loop system, re-used or hauled to an a	oproved disposal site or landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc	Air/KCL, Ait/SOBM, Horizontal - SOBM
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Water, Soap, KCl, Barite, Base Oil, Wetting Agents	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Approved Landfill	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA	
-Landfill or offsite name/permit number? See Attached	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permitt where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLI on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protect provisions of the permit are enforceable by law. Violations of any term or condition of the general perm law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information form and all attachments thereto and that, based on my inquiry of those individuals immobitaining the information, I believe that the information is true, accurate, and complete. I am aware penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature	ion. I understand that the it and/or other applicable mation submitted on this nediately responsible for
B) with the	DEC 1 8 2020
Company Official (Typed Name) Diane White	
Company Official Title Agent	WV Department of Environmental Protection
	Protection
Subscribed and sworn before me this 9th day of November , 20 20 Notary Public	OFFICIAL SEAL NOTARY PUBLIC. STATE OF WEST VIRIGINA MARK J SCHALL H G Energy L L C PO Box 5519, Visinia, W2 28108
My commission expires $11/2/2021$	My Commission Expires November 2, 2021

4704105713Operator's Well No. Flesher 1212 N-9H

1.70	A Distanted	32.75 Province totion nl	Ι
roposed Revegetation Treatm			1
Lime		t to pri	
Fertilizer type Fertilizer amount	E	00 lbs/acre	
Mulch Hay		Tons/acre	
TVILLION_			
		Seed Mixtures	
Tem	porary	Perma	nent
Seed Type	lbs/acre	Seed Type Tall Fescue	lbs/acre 40
Tall Fescue	40		
Ladino Clover	5	Ladino Clover	5
Maps(s) of road, location, pit a provided). If water from the pi acreage, of the land application	it will be land applied, inc n area.	d application (unless engineered plans included dimensions (L \times W \times D) of the pit, and	ding this info have been I dimensions (L x W), and a
provided). If water from the piacreage, of the land application	it will be land applied, inc n area. ed 7.5' topographic sheet.	clude dimensions (L x W x D) of the pit, and	ding this info have been I dimensions (L x W), and a
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Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application Photocopied section of involve Plan Approved by: Plan Approved by: Pre-seed/r	it will be land applied, inc n area. ed 7.5' topographic sheet. auf Dukp nulch as soon a	as reasonably possible per	d dimensions (L x W), and a
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Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application Photocopied section of involve Plan Approved by: Plan Approved by: Pre-seed/r	it will be land applied, inc n area. ed 7.5' topographic sheet. auf Dukp nulch as soon a	as reasonably possible per	regulation. RECEI Office of Oil DEC 18
Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application Photocopied section of involve Plan Approved by: Plan Approved by: Pre-seed/r	it will be land applied, incon area. ed 7.5' topographic sheet. The property of the control of	as reasonably possible per	regulation. RECEI Office of Oil WV Departmental Professional Professions (L x W), and an

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 Belie Vernon, PA 15012 724-929-7694

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

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

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

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

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

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

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

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

Energy Solutions, LLC Permit # UT 2300249 423 West 300 South Suite 200 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 MIDO20906814 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 1.1942 Veterans Memorial Highway Masontown, WV 26542

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

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

Disposal Locations:

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

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

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

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

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

Equipment Transport 1 Tyler Court Carlisle, PA 17015

Myers Well Service, 2001 Ballpark Court Export, PA 15632

Burns Orllling & Excavating 618 Crabapple Road P.O. Box Wind Ridge, PA 15380 RECEIVED
Office of Oil and Gas

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

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

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

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

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

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

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

Dudley #1 UIC (SWIW #1) Permit # 34-121-2-2459-00-00 Select Energy Services, LLC 7994 S. Pleasants Hwy St. Marys, WV 26170 304-665-2652

4704105/13

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

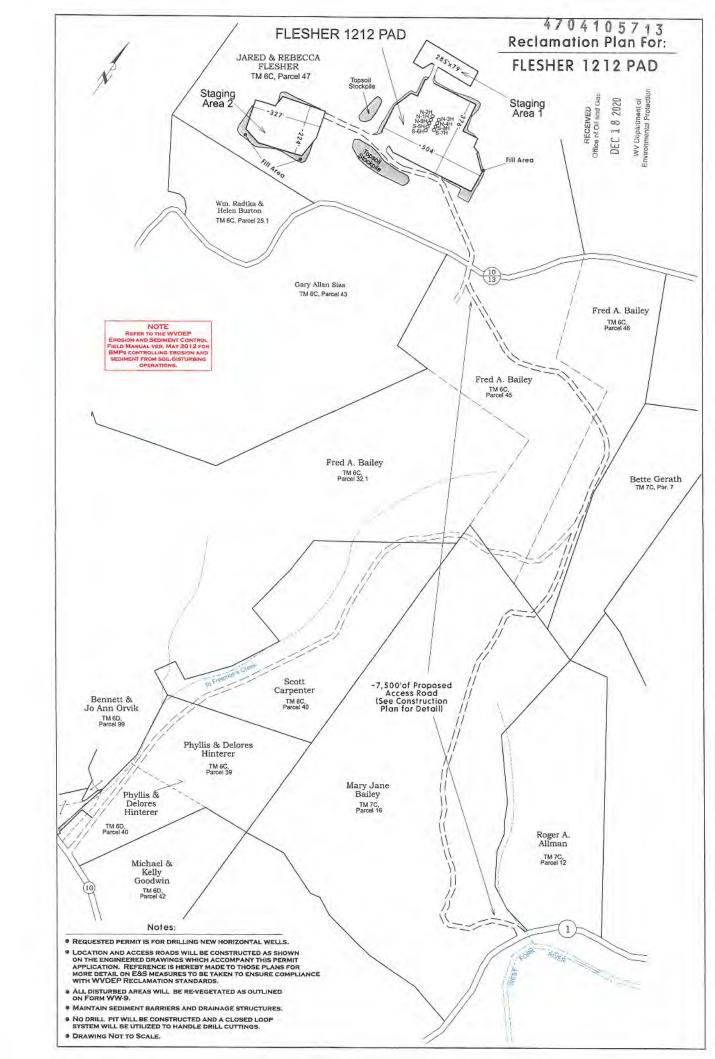
US Steele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15730 304-323-6568

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

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EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

FLESHER 1212 NORTH UNIT AND PROPOSED WELLS N-1H, N-2H, N-3H, N-4H & N-9H

CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4703301574	Harrison	Beeghley	Dominion Energy Transmission, Inc.	Hampshire Grp 👓	E Gas	2625	ACTIVE	39.152970	-80.508015
2	4703302719	Harrison	Coffindaaffer, J	Tenmile Land LLC	Elku 5	G Gas	5512	ACTIVE	39.161514	-80.512726
3	4703303090	Harrison	C C Tallman/M P Davis 1	Dominion Energy Transmission, Inc.	Hampshire Grp	> Gas	2385	PLUGGED	39.149500	-80.502237
4	4703303166	Harrison	R Stanley	Dominion Energy Transmission, Inc.	Alexander	S E Gas	5273	ACTIVE	39,150573	-80.510360
5	4703303236	Harrison	William L/S Coffindaffer	Alliance Petroleum Co., LLC	Greenland Gap Fm	Gas	5200	ACTIVE	39,163430	-80.506373
6	4703303272	Harrison	William L Coffindaffer	Alliance Petroleum Co., LLC	Greenland Gap Fm	Gas	5000	ACTIVE	39.166933	-80.502915
7	4703303298	Harrison	Loxie V McLung	Alliance Petroleum Co., LLC	Balltown	Oil and Gas	3650	ACTIVE	39,159262	-80.507375
8	4703303299	Harrison	Sherry D Baldwin etal	Alliance Petroleum Co., LLC	Greenland Gap Fm	Gas	5100	ACTIVE	39,162227	-80.500606
9	4703303858	Harrison	Catherine C Price	Diversified Resources, Inc.	not available	not available	*	Not Drilled	39.157331	-80.500374
10	4703304114	Harrison	Catherine C Price 1	Enervest Operating, LLC	Greenland Gap Fm	Gas	4800	ACTIVE	39.157941	-80.499754
11	4703304758	Harrison	Geraldine C Dickenson Est	Dominion Energy Transmission, Inc.	Benson	Gas	4950	ACTIVE	39.171609	-80.505825
12	4703305291	Harrison	William R Dallas	Consol Gas Company	not available	not available		Not Drilled	39.150104	-80.497282
13	4703305737	Harrison	William R Dallas	Dominion Energy Transmission, Inc.	Alexander	Gas	4950	ACTIVE	39.150090	-80.497450
14	4704100127	Lewis	Edwin Gaston	Dominion Energy Transmission, Inc.	Fifth	Gas	2380	PLUGGED	39.121173	-80.498140
15	4704100213	Lewis	W T Garton	Dominion Energy Transmission, Inc.	Gantz	Storage	1850	ACTIVE	39.127276	-80.488549
16	4704100214	Lewis	Geo Norris	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2275	ACTIVE	39.115382	-80.490758
17	4704100217	Lewis	Edwin Gaston	Dominion Energy Transmission, Inc.	Gantz	Storage	1890	ACTIVE	39.124393	-80.489885
18	4704100221	Lewis	F L Post 2	Dominion Energy Transmission, Inc.	Gantz	Storage	1970	ACTIVE	39.132930	-80.486946
19	4704100311	Lewis	A Hughes	Dominion Energy Transmission, Inc.	Up Devonian	Storage	2199	ACTIVE	39.144083	-80.502504
20	4704100312	Lewis	W T Garton	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	2263	PLUGGED	39.126053	-80.486425
21	4704100314	Lewis	F L Post	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2397	ACTIVE	39.134769	-80.485998
22	4704100322	Lewis	A H Hughes	UNKNOWN	Hampshire Grp	Gas	2601	PLUGGED	39.140364	-80.507823
23	4704100324	Lewis	Clark Gaston	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2106	ACTIVE	39.134155	-80,495652
24	4704100325	Lewis	George Norris	Hope Natural Gas Company	Hampshire Grp	Gas	2228	PLUGGED	39.120161	-80.492216
25	4704100328	Lewis	H J Hughes	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2401	ACTIVE	39.138624	-80,498743
26	4704100363	Lewis	N J Oldaker	UNKNOWN	Up Devonian	Storage	1905	PLUGGED	39.139006	-80.489544
27	4704101467	Lewis	H J Hughes	UNKNOWN	Fifth	Storage	2407	PLUGGED	39.143186	-80.493922
28	4704101494	Lewis	S R Hall	Dominion Energy Transmission, Inc.	Fifth	Storage	2453	ACTIVE	39.122439	-80.484011
29	4704101535	Lewis	Virginia Hughes	Dominion Energy Transmission, Inc.	Fifth	Dry	2576	PLUGGED	39.146842	-80.505298
30	4704101673	Lewis	Cecil I Dempsey	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4509	ACTIVE	39,118627	-80.488538
31	4704101892	Lewis	Edwin Gaston	Dominion Energy Transmission, Inc.	Benson	Storage	4470	ACTIVE	39.120917	-80.498325
32	4704102625	Lewis	J S Norris	Dominion Energy Transmission, Inc.	not available	Storage	<u> </u>	ACTIVE	39.120873	-80.492026
33	4704102626	Lewis	A R Frashuer	Dominion Energy Transmission, Inc.	not available	Storage		ACTIVE	39.128328	-80.494641

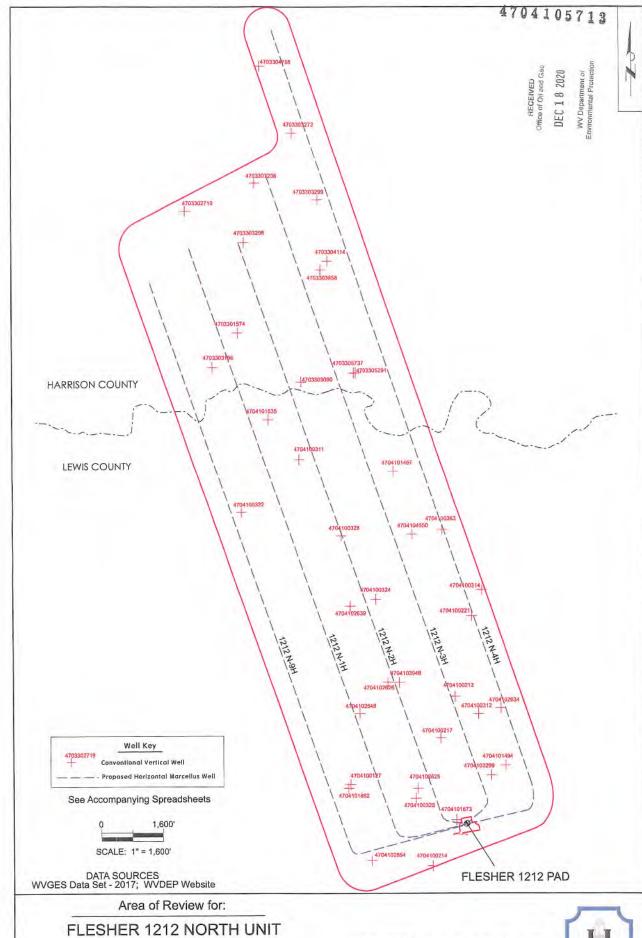
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					YELLOW DENOTE	S WELL WITH TVD > 4,5	00'	GREEN D	ENOTES SURVEYED	WELLS
41										
40	4704104550	Lewis	R E/Terry Brincefield	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4618	ACTIVE	39.138691	-80.492300
39	4704103948	Lewis	John Mann	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4575	ACTIVE	39.128306	-80.493609
38	4704103299	Lewis	Susan Hall	Dominion Energy Transmission, Inc.	not available	not available	2368	PLUGGED	39.122284	-80.485081
37	4704102854	Lewis	J S Norris	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.115783	-80.496273
36	4704102648	Lewis	Edwin Gaston	Dominion Energy Transmission, Inc.	not available	Storage	2	ACTIVE	39.126152	-80.497246
35	4704102639	Lewis	H L Frashuer	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.133693	-80.497995
34	4704102634	Lewis	T S Allman	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.126443	-80.484399

SOURCE: WVGES DATASET (2017) and WVDEP WEBSITE AND FIELD SURVEYS

RECEIVED Office of Oil and Gas

WV Department of Environmental Protection



Proposed 1212 N-1H Proposed 1212 N-2H Proposed 1212 N-3H Proposed 1212 N-4H Proposed 1212 N-9H

Freeman's Creek District, Lewis County, W.Va. & Union District, Harrison County, W.Va.

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



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

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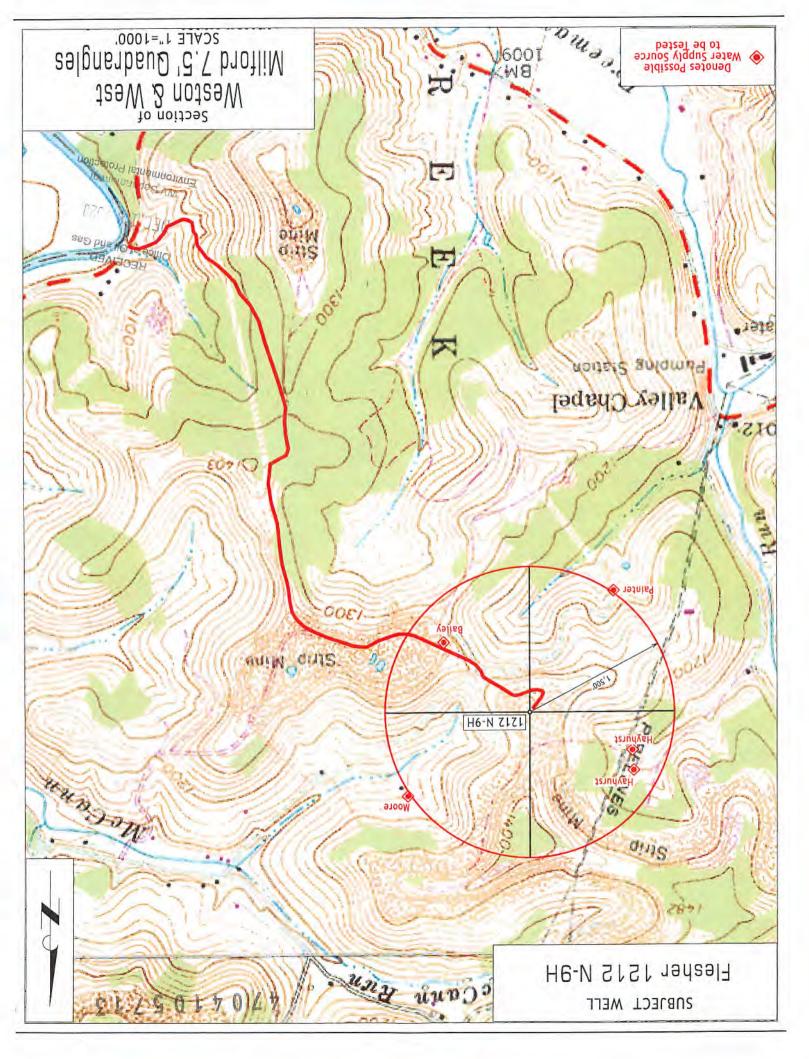
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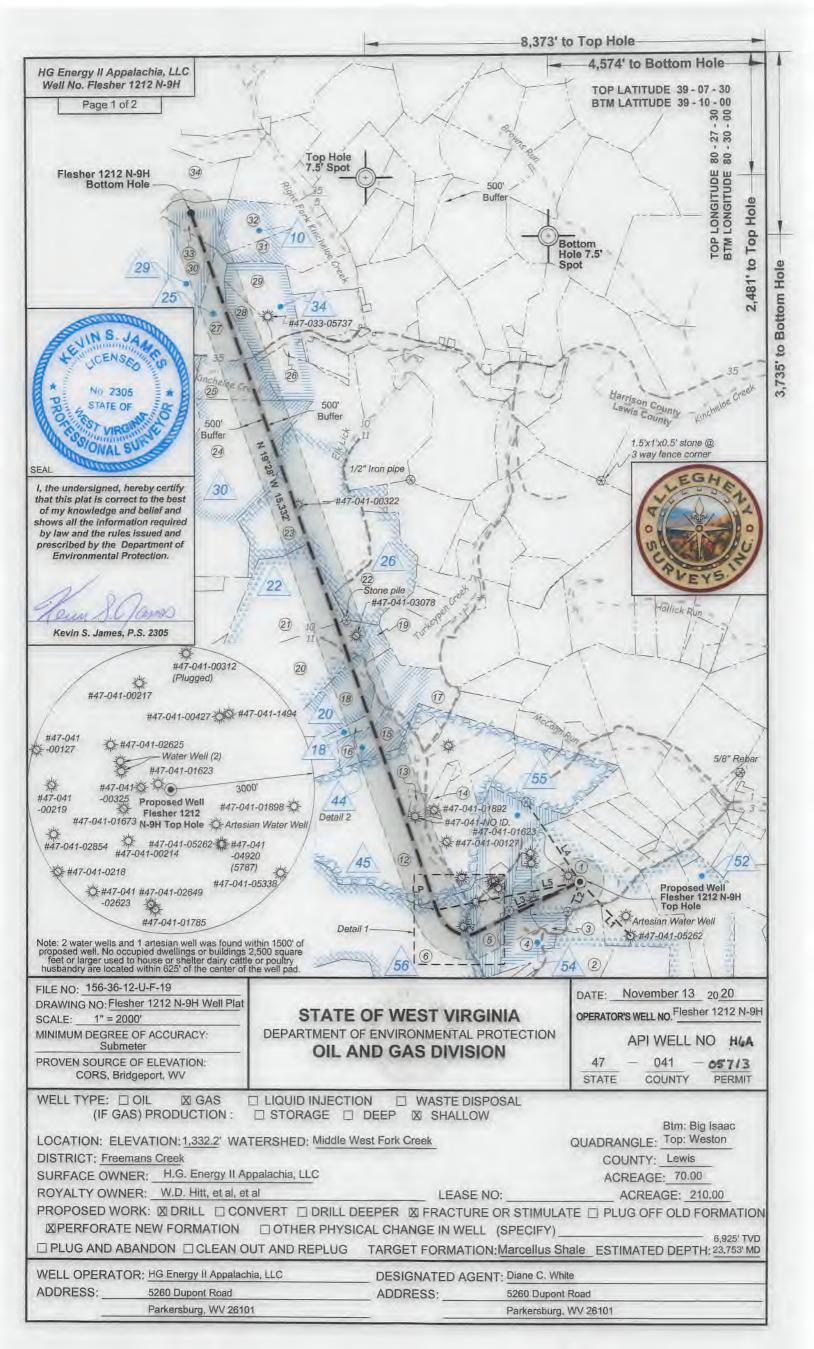
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WV Department of Environmental Protection

Parkersburg, WV 26101

Bary Stelly 11-20-20





HG Energy II Appalachia, LLC Well No. Flesher 1212 N-9H



Page 2 of 2

Tag	Bearing	Dist.	Description						
L1	N 43°11' W	1,539.9'	#47-041-05262						
L2	N 22°20' E	663.6'	1/2" Rebar						
L3	N 68°00' E	1.594.4'	1" Iron pipe						
L4	S 34°14' E	2,006.4	5/8" Rebar						
L5	S 79°03' W	3,045.3'	Landing point						

Well Location References
Not to Scale

Flestler
1212 Pad
18" Sycamore

Proposed Well

1212 N-9H

Legend

Proposed gas well

Well Reference, as noted

Monument, as noted

Existing Well, as noted

Digitized Well, as noted

Creek or Drain

Existing Road

Surface boundary (approx.)

Interior surface tracts (approx.)

Notes: Well No. Flesher 1212 N-9H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates
Latitude: 39°07'05.47"
Longitude: 80°29'16.27"
Longitude: 80°29'16.27"
UTM Zone 17, NAD 1983
Top Hole Coordinates
Bottom Hole Coordinates

A

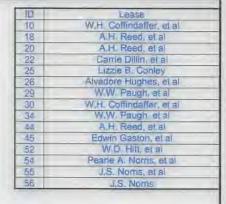
16" Elm

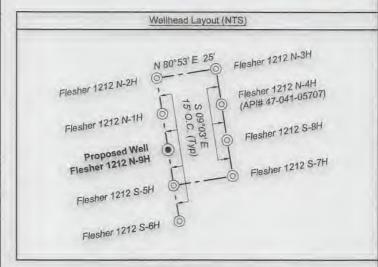
Top Hole Coordinates
N: 4,330,027.145m
E: 544,290.002m
Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

Notes: Well No. Flesher 1212 N-9H UTM NAD 1983 (USSF)

Top Hole Coordinates N: 14,206,097.39' E: 1,785,724.78' Landing Point Coordinates N: 14,205,519.13' E: 1,782,734.84' Bottom Hole Coordinates N: 14,219,969.73' E: 1,777,628.54'







		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 / 43	Gary Allen Sias	646 / 688	50.59
3	6C / 25.1	William Radtka & Helen Burton	655 / 681	5.85
4	6C / 25	Robert M. Painter	629 / 411	27.48
5	6C / 23.2	Michael & Laura Phillips	661 / 298	21.32
6	6C / 21	Thomas R. Zinn, et al	445 / 493	166.25
7	6C / 23.4	Richard G. Hayhurst, et ux	565 / 326	4.13
8	6C / 23.10	Gary Farris	700 / 769	0.65
9	6C / 23.6	Gary Farris	700 / 769	2.02
10	6C / 23.1	Michael & Laura Phillips	661 / 298	0.16
11	6C / 23.9	Michael & Laura Phillips	661 / 298	0.25
12	6C / 22	Mann Family Trust	617 / 608	265.19
13	6C / 22.3	MannFarm, LLC	722 / 660	5.00
14	6C / 22.2	Stephen P. & Wendy T. Mann	718 / 175	5.97
15	6B / 12	Edward E. Garrett, et al	429 / 245	27.75
16	6B / 11	Edward E. Garrett, et al	429 / 245	30.00
17	6B / 13	Mann Family Trust	617 / 608	38.55
18	6B / 14	Edward E. Garrett, et al	429 / 245	30.00
19	6B / 16	Mann Family Trust	617 / 608	21.45
20	6B / 15	Edward E. Garrett, et al	429 / 245	30.75
21	6B / 18	Berlin Family Irrevocable Trust	743 / 893	100.00
22	6B / 19.1	Robert E. Brincefield, Jr. & Terri Lynne Trust, et al	578 / 630	52.00
23	6B / 21	Mark D. Roles	W50 / 769	195.9
24	6B/3	Eric B. & Kathy A. Beevers	509 / 198	99.00
		Harrison Co Union-Outside Dist.		
No.	TM / Par	Owner	Bk / Pg	Ac.
25	442/12	Eric & Kathy Beevers	1237 / 941	30.00
26	442 / 14	Jackie & Barbara Caplinger	1416 / 1052	12.00
27	442 / 11	Douglas L. & Donna S. Nolan	1478 / 929	34.13
28	442 / 13.1	Virginia E. Grogg	1379 / 1109	15.20
29	442 / 13	Kimberly S. Shaw	1544 / 132	34.02
30	442 / 10	Mike Ross Inc	1590 / 158	64.53
31	422 / 38	Jody B. Ross & Dawn R. Price	1283 / 546	36.77
32	422 / 37	Jody B. Ross & Dawn R. Price	1283 / 546	34.70
33	422 / 34.1	Mark J. Coffindaffer, et al	W160 / 415	24.07
34	422 / 34	Terry Bostardi, et al	1617 / 374	66.56

DRAWING NO: Flesher 1212 N-9H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:

CORS, Bridgeport, WV

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

DATE: November 13 20 20

OPERATOR'S WELL NO. Flesher 1212 N-9H

API WELL NO 1444

47 — 041 — 057/3

STATE COUNTY PERMIT

Btm: Big Isaac

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

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

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

DISTRICT: Freemans Creek

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

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

□ PLUG AND ABANDON □ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH; 23,753' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

ADDRESS: 5260 Dupont Road

Parkersburg, WV 26101

DESIGNATED AGENT: Diane C. White

5260 Dupont Road

Parkersburg, WV 26101

Parkersburg, WV 26101

WW-6A1 (5/13)

Operator's Well No. Flesher 1212 N-9H

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:

RECEIVED
Office of Oil and Gas**

- 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

DEC 18 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				

HG Energy II Appalachia, LLC Flesher 1212 N-9H

1212N 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	
			1	RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
		03-006C-0045-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	1
		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	
52	FK053270	03-007C-0007-0000	Q100675000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
		p/o 03-006C-0043-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	
		p/o 03-006C-0043-0001		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
		p/o 03-006C-0047-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	1
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
						SECOND AMENDMENT TO MEMORANDUM OF		
			l	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	4
						THIRD AMENDMENT TO MEMORANDUM OF		_
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	2
				PEARLE A. NORRIS AND EDNA N. PAUGH AND CHAS. S. PAUGH, HER				
			1	HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	219	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	1
			ł	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	<u> </u>
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	1
		03-006C-0025-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	POWER OF ATTORNEY	21	
		03-006C-0025-0001	İ	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
54	FK064074	p/o 03-006C-0023-0000	Q100293000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	
		p/o 03-006C-0023-0000 p/o 03-006C-0043-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
		p/0 05-006C-0045-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
		ш		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
		<u>~</u> <:	₽	DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	5
		DE i	₩			SECOND AMENDMENT TO MEMORANDUM OF		
			₽ 22	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	3 4
		C 1 Depa	ŽΩ̈́			THIRD AMENDMENT TO MEMORANDUM OF		
			RECEIVE	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	
		Pr 2	长	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	
		020 nt of stept	* ·	J. S. NORRIS AND GEO. NORRIS AND L. N. NORRIS, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	
		<u> </u>)	SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	
		9	ľ	HOPE NATURAL GAS COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79	
				SOUTH PENN OIL COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79	
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	
		03-006C-0023-0000		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
		03-006C-0023-0001		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
	l	03-006C-0023-0002		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
	1	03-006C-0023-0003		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	S
		03-006C-0023-0004	1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	2
	ENOUS 4 C4	03-006C-0023-0005	0404634333	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	POWER OF ATTORNEY	21	1
55	FK053181	03-006C-0023-0006	Q101024000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	4
		03-006C-0023-0007		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	2

1	ı	02 0000 0022 0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
		03-006C-0023-0008 03-006C-0023-0009		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
		1		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
		03-006C-0023-0010			DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		03-006C-0021-0000		DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
						THIRD AMENDMENT TO MEMORANDUM OF	774	rro
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734 736	558 220
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	42	121
				J. S. NORRIS	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	85	122
i				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	79	370
				HOPE NATURAL GAS COMPANY	RESERVE GAS COMPANY	ASSIGNMENT		202
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	89
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	454
		03-006C-0021-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
56	FK053129	03-006C-0021-0000 03-006C-0002-0000	Q100767000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
56	FKU53129		053435	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
		03-006C-0019-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
						SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
						THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				EDWIN GASTON AND LAURA L. GASTON, HUSBAND; CLARK GASTON AND IDA GASTON, HIS WIFE; W. GASTON AND SUSAN GASTON, HIS	PERSONAL CAR COMPANY	NOT LESS THAN 1/9	71	318
				WIFE; I. V. GASTON	RESERVE GAS COMPANY	NOT LESS THAN 1/8 ASSIGNMENT	155	202
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY		294	89
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	425	127
		Mapped as		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	WVSOS	12/
		03-006B-0029-0000		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
		03-006B-0048-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE		154
		03-006C-0022-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
45	FK053267	Assessed as	Q100387000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
73	11033207	03-006C-0022-0000	FEEHGII0066	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
		03-006C-0022-0000 03-006C-0022-0001		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
	İ	03-006C-0022-0001 03-006C-0058-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
		03-006C-0058-0000 03-006C-0061-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
		02-0000-0001-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		ш		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
		nvin O		DOMINION ENERGY TRANSMISSION ING	ILC ENERGY II ARRAI ACUIA LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
		Office DEC WV D. wironm		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
			<u> </u>	DOMINION ENERGY TRANSMISSION, INC.	nd energy if Appalachia, LLC	ASSIGNIVIENT (0876)	750	
		of Oil and Gas	CE	A. H. REED, WIDOWER; BERTIE R. FLETCHER AND RALPH FLETCHER, HER HUSBAND; MADGE R. BARBE AND WEAVER BARBE, HER			ĺ	
			Ž	HUSBAND; AND H. MAY TAYLOR	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	215	24
		ˈˈo̪r 2 ˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈˈ	<u>rī</u>		CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	8
		and Ga 2020 ent or rotect	<u></u>	HOPE NATURAL GAS COMPANY		ASSIGNMENT	425	12
		Chase Color		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
		_ = *		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.		672	15
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT		8
	I	I .		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	POWER OF ATTORNEY	21	

44	FK062736	03-006B-0012-0000	Q100788000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684		
77	FK108075	p/o 03-006B-0013-0000	Q100700000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712		
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717		
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722		
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722		
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos		
						SECOND AMENDMENT TO MEMORANDUM OF			
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723		
						THIRD AMENDMENT TO MEMORANDUM OF			
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736		
				A. H. REED, WIDOWER; BERTIE R. FLETCHER AND RALPH FLETCHER,					
				HER HUSBAND; MADGE R. BARBE AND WEAVER BARBE, HER					
				HUSBAND; AND H. MAY TAYLOR	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	215		
				CHARLES M. GARRETT AND DELPHIA GARRETT, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	216		
		i		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294		
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425		
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos		
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos		
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672		
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	POWER OF ATTORNEY	21		
18	FK062735	03-006B-0011-0000	Q100942000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684		
	FK062961	p/o 03-006B-0013-0000	Q100693000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712		
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717		
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722		
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722		
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos		
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF			
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	
				DOMINION ENERGY TRANSIVISSION, INC.	HO ENERGY II AFFALACIIIA, ELC	THIRD AMENDMENT TO MEMORANDUM OF			
				DOMINION ENERGY TRANSMISSION, INC.	LIC ENERGY II ARRALACHIA LLC	FARMOUT AGREEMENT	734		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNIVIENT (68%)	730		
				A. H. REED, WIDOWER; BERTIE R. FLETCHER AND RALPH FLETCHER,					
				HER HUSBAND; MADGE R. BARBE AND WEAVER BARBE, HER	LIONE MATURAL CAS COMPANIA	NOT LESS THAN 1/9	215		
				HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	294		
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	425		
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	WVSOS		
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE			
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos		
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672		
		03-006B-0014-0000	1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	POWER OF ATTORNEY	21		
20	FK062734	p/o 03-006B-0013-0000	Q100940000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684		
	FK108073	p/o 03-006B-0016-0000	4100540000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712		
		b/o oo ooon-ooto-ooo		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717		
	1	1	l	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722		
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722		
			1	DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos		
		1				SECOND AMENDMENT TO MEMORANDUM OF			
			l	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723		
						THIRD AMENDMENT TO MEMORANDUM OF			
	1	ū	1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734		
		Envi	L	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736		
		§ ₹ PE	## T						
	1	00	1	CARRIE DILLIN, SINGLE; HARVEY DILLON, ATTORNEY-IN-FACT FOR:				I	
	1	pa H	t ö′	HAROLD DILLON, EDNA C. DILLON, HERBERT DILLON AND JANICE	1	1			
	i	1 = 7 3	ECEIVED	DILLON, HIS WIFE; HELEN DILLON BROWN AND CHARLES BROWN, HEF	₹	l l	i	1	
	1				har a penny	NOT LESS THAN 1/8	386	1	
		\$ 2020 ment of Protection	S	HUSBAND; GLORIA DILLON, WIFE OF HARVEY DILLON	W. B. BERRY BERRY ENERGY CONSULTANTS & MANAGERS, INC.	ASSIGNMENT	398		

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				BERRY ENERGY CONSULTANTS & MANAGERS, INC.	J & J ENTERPRISES, INC	ASSIGNMENT	688	
	1			J & J ENTERPRISES, INC	EASTERN AMERICAN ENERGY CORPORATION	CONFIRMATORY DEED	479	
				EASTERN AMERICAN ENERGY CORPORATION	ENERGY CORPORATION OF AMERICA	CONFIRMATORY DEED	641	
				ENERGY CORPORATION OF AMERICA	CNX GAS COMPANY LLC	PARTIAL ASSIGNMENT	697	
		03-006B-0018-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
22 FK	FK065437	03-006B-0015-0000	Q102365000	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
		p/o 03-006B-0016-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	CORRECTIVE ASSIGNMENT	725	
		1		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
				CONSOLIDATED GAS SUPPLY CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	PARTIAL LIMITED ASSIGNMENT (50%)	684	
		1		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	
	1					THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	
				ALVADOR HUGHES, WIDOWER; MARIE HUGHES, WIFE OF PAUL				
			01 Q101054000	HUGHES; ICIE L. LAW, WIDOW; PAUL HUGHES, A MARRIED MAN; ALDA			1	
				DAVIS. WIDOW; ALDA DAVIS, ATTORNEY-IN-FACT FOR LAWRENCE A.			1	
				HUGHES; LAWRENCE A. HUGHS AND GLENNA F. HUGHES, HIS WIFE;			1	
				AND HENRIETTA HUGHES, WIDOW	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	220	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
	i			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		03-006B-0019-0001		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	
26	FK064222	03-006B-0020-0001 p/o 03-006B-0021-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)		
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	
J				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
	J	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	
				•		THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	
		1		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	
	1							
		Office DE(wv t		W. H. COFFINDAFFER AND MAXIE COFFINDAFFER, HIS WIFE; C. CLYDE				
				COFFINDAFFER AND HAZEL COFFINDAFFER, HIS WIFE; R. S.				
				COFFINDAFFER AND BEULAH B. COFFINDAFFER, HIS WIFE; ELVA				
		EC EC		CURREY AND H. T. CURREY, HER HUSBAND; BERTHA COFFINDAFFER,				
		led j etc		WIDOW; C. Z. COFFINDAFFER AND PAULINE E. COFFINDAFFER, HIS			1	
				WIFE; WINNIE WILLIAMS AND L. T. WILLIAMS, HER HUSBAND; J.G.			1	
		RECEI e of Oi C 1 a Depar		2,				
		li tm		TIMBERLAKE, TRUSTER OFFICER, THE UNION NATIONAL BANK OF			1	
		1 T 3 2 2 2						
		/ED and Ga 2020 ment o		TIMBERLAKE, TRUSTER OFFICER, THE UNION NATIONAL BANK OF				
		/ED and Ga 2020 ment o		TIMBERLAKE, TRUSTER OFFICER, THE UNION NATIONAL BANK OF CLARKSBURG, GUARDIAN FOR JAMES R. RODGERS, A MINER; MARY				
		1 T 3 2 2 2		TIMBERLAKE, TRUSTER OFFICER, THE UNION NATIONAL BANK OF CLARKSBURG, GUARDIAN FOR JAMES R. RODGERS, A MINER; MARY LEE GIBSON AND CRAMER m. GIBSON, HER HUSBAND; TAYLOR			HARRISON 743	
		/ED and Ga 2020 ment o		TIMBERLAKE, TRUSTER OFFICER, THE UNION NATIONAL BANK OF CLARKSBURG, GUARDIAN FOR JAMES R. RODGERS, A MINER; MARY LEE GIBSON AND CRAMER M. GIBSON, HER HUSBAND; TAYLOR COFFINDAFFER AND VIRGINIA B. COFFINDAFFER, HIS WIFE; MARY H.	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	HARRISON 743 LEWIS 229	
		/ED and Ga 2020 ment o		TIMBERLAKE, TRUSTER OFFICER, THE UNION NATIONAL BANK OF CLARKSBURG, GUARDIAN FOR JAMES R. RODGERS, A MINER; MARY LEE GIBSON AND CRAMER M. GIBSON, HER HUSBAND; TAYLOR COFFINDAFFER AND VIRGINIA B. COFFINDAFFER, HIS WIFE; MARY H. COFFINDAFFER, WIDOW; AND E. WAYNE COFFINDAFFER AND LAURA	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	LEWIS 229	
		/ED and Gas 2020 ment of Protection		TIMBERLAKE, TRUSTER OFFICER, THE UNION NATIONAL BANK OF CLARKSBURG, GUARDIAN FOR JAMES R. RODGERS, A MINER; MARY LEE GIBSON AND CRAMER M. GIBSON, HER HUSBAND; TAYLOR COFFINDAFFER AND VIRGINIA B. COFFINDAFFER, HIS WIFE; MARY H. COFFINDAFFER, WIDOW; AND E. WAYNE COFFINDAFFER AND LAURA R. COFFINDAFFER, HIS WIFE			LEWIS 229 HARRISON 903	
		#ED and Gas 2020 ment of Protection 20-0442-0012-0000		TIMBERLAKE, TRUSTER OFFICER, THE UNION NATIONAL BANK OF CLARKSBURG, GUARDIAN FOR JAMES R. RODGERS, A MINER; MARY LEE GIBSON AND CRAMER M. GIBSON, HER HUSBAND; TAYLOR COFFINDAFFER AND VIRGINIA B. COFFINDAFFER, HIS WIFE; MARY H. COFFINDAFFER, WIDOW; AND E. WAYNE COFFINDAFFER AND LAURA	HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8 CONFIRMATORY DEED	LEWIS 229 HARRISON 903 LEWIS 294	
30	FK065365	2020 and Gas 2020 and Gas 2020 20-0442-0012-0000 p/o 20-0442-0012-0001	Q100604000	TIMBERLAKE, TRUSTER OFFICER, THE UNION NATIONAL BANK OF CLARKSBURG, GUARDIAN FOR JAMES R. RODGERS, A MINER; MARY LEE GIBSON AND CRAMER M. GIBSON, HER HUSBAND; TAYLOR COFFINDAFFER AND VIRGINIA B. COFFINDAFFER, HIS WIFE; MARY H. COFFINDAFFER, WIDOW; AND E. WAYNE COFFINDAFFER AND LAURA R. COFFINDAFFER, HIS WIFE HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	LEWIS 229 HARRISON 903 LEWIS 294 HARRISON 1136	
30	FK065365	2020 and Gas 2020 and Gas 2020 and Gas 20-0442-0012-0000 p/o 20-0442-0012-0001 03-0068-0003-0000		TIMBERLAKE, TRUSTER OFFICER, THE UNION NATIONAL BANK OF CLARKSBURG, GUARDIAN FOR JAMES R. RODGERS, A MINER; MARY LEE GIBSON AND CRAMER M. GIBSON, HER HUSBAND; TAYLOR COFFINDAFFER AND VIRGINIA B. COFFINDAFFER, HIS WIFE; MARY H. COFFINDAFFER, WIDOW; AND E. WAYNE COFFINDAFFER AND LAURA R. COFFINDAFFER, HIS WIFE HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	CONFIRMATORY DEED ASSIGNMENT	LEWIS 229 HARRISON 903 LEWIS 294	
30	FK065365	2020 and Gas 2020 and Gas 2020 20-0442-0012-0000 p/o 20-0442-0012-0001		TIMBERLAKE, TRUSTER OFFICER, THE UNION NATIONAL BANK OF CLARKSBURG, GUARDIAN FOR JAMES R. RODGERS, A MINER; MARY LEE GIBSON AND CRAMER M. GIBSON, HER HUSBAND; TAYLOR COFFINDAFFER AND VIRGINIA B. COFFINDAFFER, HIS WIFE; MARY H. COFFINDAFFER, WIDOW; AND E. WAYNE COFFINDAFFER AND LAURA R. COFFINDAFFER, HIS WIFE HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION	CONFIRMATORY DEED ASSIGNMENT MERGER/NAME CHANGE	LEWIS 229 HARRISON 903 LEWIS 294 HARRISON 1136	
30	FK065365	2020 and Gas 2020 and Gas 2020 and Gas 20-0442-0012-0000 p/o 20-0442-0012-0001 03-0068-0003-0000		TIMBERLAKE, TRUSTER OFFICER, THE UNION NATIONAL BANK OF CLARKSBURG, GUARDIAN FOR JAMES R. RODGERS, A MINER; MARY LEE GIBSON AND CRAMER M. GIBSON, HER HUSBAND; TAYLOR COFFINDAFFER AND VIRGINIA B. COFFINDAFFER, HIS WIFE; MARY H. COFFINDAFFER, WIDOW; AND E. WAYNE COFFINDAFFER AND LAURA R. COFFINDAFFER, HIS WIFE HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	CONFIRMATORY DEED ASSIGNMENT	LEWIS 229 HARRISON 903 LEWIS 294 HARRISON 1136	

1 1	:	1 1			T		HARRISON 1543	1235
		i		CNIV CAS COMPANIVITIC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	LEWIS 684	57
				CNX GAS COMPANY LLC		PARTIAL ASSIGNMENT (32%)	1576	125
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY	ASSIGNMENT (52.76)	1584	942
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1600	660
		i		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF	HARRISON 1601	581
		1					LEWIS 723	499
		}		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT		962
	1	ļ				THIRD AMENDMENT TO MEMORANDUM OF	HARRISON 1621	
ł.	i	i		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	LEWIS 734 736	558 220
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)		
				LIZZIE B. CONLEY	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	740	39
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
		1		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
		1		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33
		1						
			Q100601000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT OF FARMOUT AGREEMENT	1524	491
25	EKOCESAE	20 0442 0011 0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
25	FK065215	20-0442-0011-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	660
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
						SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
				•	·	THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	1295
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				W. W. PAUGH AND VIRGINIA S. PAUGH, HIS WIFE, AND LENA V. BYERS				
	i			AND H. BYERS, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	740	44
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33
		20-0442-0013-0000		BOWINTION TO WASHISSION, INC.	CITY OF D COMPANY LLC			
		I I	0-0442-0013-0001 0-0442-0014-0000 03-006B-0021-0000 3-006A-0003-0000 DEC 1 8 2020 WV Department of	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT OF FARMOUT AGREEMENT	1524	491
34	FK065223	l i		BOMMION TO MONIBOLON, INC.	CHANGE COMPANY LLC	SECOND AMENDMENT TO MEMORANDUM OF		
J-1	1 11005225	1		DOMINION TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
		* *		BOMINION MANUSION, INC.	Ind Enemoti in All TAB territy 220	THIRD AMENDMENT TO MEMORANDUM OF		
		03 0004 0003 0000		DOMINION TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	1295
		Off D Enviro		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA. LLC	ASSIGNMENT	1600	660
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	1
		1 ≥ > 111 0 1		DOMINION FRANSINISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
	 			W.W. PAUGH AND VIRGINIA S. PAUGH, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	740	
	1	ECEI of Oil 1 & Pepartu ental				CONFIRMATORY DEED	903	
		EIVED		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
				CONSOLIDATED GAS SUPPLY CORPORATION		MERGER/NAME CHANGE	51	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	58	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MEMORANDUM OF FARMOUT AGREEMENT	1522	33
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	IVICIVIORANDUIVI OF FARIVIOUT AGREEIVIENT	1322	
	1			DOMINON TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT OF FARMOUT AGREEMENT	1524	49:
	1			CNIV CAS COMPANIVILIC	NOBLE ENERGY INC	LIMITED PARTIAL ASSIGNMENT (50%)	1543	123
29	FK065218	p/o 20-0422-0010-0000	Q100602000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.		1576	
I	I	n/o 20-0422-0024-0001		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	13/0	

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1		h\0 \0-0+55-003+-000T		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
	}			NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
			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	1601	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	1637	1081
1	1			BETTY A. COFFINDAFFER	ANTERO RESOURCES APPALACHIAN CORPORATION	NOT LESS THAN 1/8	1499	125
11	1	\		THOMAS A. TRICOT	ANTERO RESOURCES APPALACHIAN CORPORATION	NO LESS THAN 1/8	1499	344
11	1\	\	l l	WADE H. COFFINDAFFER III	ANTERO RESOURCES APPALACHIAN CORPORATION	NOT LESS THAN 1/8	1502	174
1 \	1 \	\		CONNIE SUE PERRELL	ANTERO RESOURCES APPALACHIAN CORPORATION	NOT LESS THAN 1/8	1502	184
1 \	1 \	\ \ I		DEBRA COFFINDAFFER STANSBURY OYLER	ANTERO RESOURCES APPALACHIAN CORPORATION	NOT LESS THAN 1/8	1503	142
1 \	1 \			SANDRA JO HARDWAY	ANTERO RESOURCES APPALACHIAN CORPORATION	NOT LESS THAN 1/8	1504	338
1 \	1 \			JACKIE LYN GEAR	ANTERO RESOURCES ARPALACHIAN CORPORATION	NOT LESS THAN 1/8	1504	348
\	1 \	\ \ I		MARK JEFFREY COFFINDAFFER	ANTERO RESOURCES APPALACHIAN CORPORATION	NOT LESS THAN 1/8	1503	730
) ,	1 \	20-0422-0034-0000		DIANA C. ESTEVE	ANTERO RESOURCES APPALACHIAN CORPORATION	NOT LESS THAN 1/8	1504	292
1 7	1 \	p/o 20-0422-0034-0001		JANE ANN BARTON	ANTERO RESOURCES APPALACHIAN CORPORATION	NOT LESS THAN 1/8	1504	343
\	1 \	\ \		TRICOT FAMILY REVOCABLE LIVING TRUST	ANTERO RESOURCES APPALACHIAN CORPORATION	NOT LESS THAN 1/8	1601	1023
1				ANTERO RESOURCES APPALACHIAN CORPORATION	ANTERO RESOURCES CORPORATION	MERGER/NAME CHANGE	2	914
1				TIMOTHY SANGER	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	\1685	\860
1	1 \	\ \		STEPHEN SANGER	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	\ 685	<u>\810</u>
1	1	\ \ \		MICHELE SANGER	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	1687	860 810 113 118 587
1	1	\ \ \		STEVE SHAHEEN	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	1687	118
1	.1 \	\		CHRISTOPHER SHAHEEN	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	1687	58 \ Z
L	\	<u> </u>				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	\

RECEIVED Office of Oil and Gas DEC 18 2020

December 13, 2020

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

RE:

Drilling Under Roads - Flesher 1212 N-9H

Freeman 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 dwhite@hgenergyllc.com or 304-420-1119.

Very truly yours,

Diane White

Enclosures

RECEIVED
Office of Qill and Gas

DEC 1 8 2020

WV Department of Environmental Protection

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

Date of Notic	e Certification: 12/13/2020		API No. 47			
			s Well No. Flesh			
		Well Pad	Name: Flesher	Well Pad		
	oeen given: e provisions in West Virginia Code { tract of land as follows:	22-6A, the Operator has provided the re	equired parties v	with the Notice Forms listed		
State:	West Virginia	Easting:	544296.1			
County:	Lewis	UTM NAD 83 Pasting: Northing:				
District:	Freemans Creek	Public Road Access:	Kincheloe Road / Valley Chapel Road			
Quadrangle:	Weston	Generally used farm name:	Flesher			
Watershed:	Middle West Fork Creek					
prescribed by it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and s ed the owners of the surface descril equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen o	every permit application filed under thall contain the following information: (ped in subdivisions (1), (2) and (4), sulction sixteen of this article; (ii) that the representation to subsection (a), section f this article were waived in writing by ender proof of and certify to the secretary.	14) A certification of the control of the certification (b), se equirement was ten of this artification of the surface of the	on from the operator that (i) ction ten of this article, the deemed satisfied as a result icle six-a; or (iii) the notice wner; and Pursuant to West		
	West Virginia Code § 22-6A, the Oprator has properly served the require	erator has attached proof to this Notice d parties with the following:	Certification	OOC OFFICE USE		
*PLEASE CHECK ALL THAT APPLY				OOG OFFICE USE ONLY		
☐ 1. NOT	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECA SEISMIC ACTIVITY WAS CONDUC		☐ RECEIVED/ NOT REQUIRED		
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or 🔳 NO PLAT SURVEY WAS O	CONDUCTED	□ RECEIVED		
■ 3. NOT	FICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECANOTICE OF ENTRY FOR PLAT SUR WAS CONDUCTED or		RECEIVED/ NOT REQUIRED		
		☐ WRITTEN WAIVER BY SURFA (PLEASE ATTACH)	ACE OWNER			
■ 4. NOT	TICE OF PLANNED OPERATION		EIVED Dil and Gas	RECEIVED		
■ 5. PUB	BLIC NOTICE	DEC 1	8 2020	RECEIVED		
■ 6. NOT	TICE OF APPLICATION	WV Depa Environment	ortment of al 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.

Certification of Notice is hereby given:

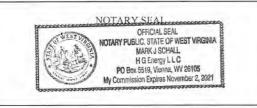
THEREFORE, I Diane White _______, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, 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
 Parkersburg, WV 26101

 Its:
 Agent
 Facsimile:
 304-863-3172

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



Subscribed and sworn before me this 13th day of December, 2020

Notary Public

My Commission Expires 11/2/2021

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.

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Office of Oil and Gas

DEC 1 8 2020

WV Department of Environmental Protection WW-6A (9-13)

4704105713

OPERATOR WELL NO. Flesher 1212 N-1H to S-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 than the filing date of permit application. Date of Notice: 08/29/20 Date Permit Application Filed: 09/01/20 Notice of: ☐ CERTIFICATE OF APPROVAL FOR THE PERMIT FOR ANY CONSTRUCTION OF AN IMPOUNDMENT OR PIT WELL WORK Delivery method pursuant to West Virginia Code § 22-6A-10(b) REGISTERED METHOD OF DELIVERY THAT REQUIRES A ☐ PERSONAL RECEIPT OR SIGNATURE CONFIRMATION **SERVICE** MAIL Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: ☐ COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) HG Energy II Appalachia, LLC (Pad and Road) Name: Name: Address: 5260 Dupont Road Address: Parkersburg, WV 26101 RECEIVED Office of Oil and Gas □ COAL OPERATOR Name: Address: Name: DEC 1 8 2020 Address: ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) ☐ SURFACE OWNER OF WATER WELL WV Department of Fred Bailey (also surface owner of water well) Name: Environmental Protection Address: 4853 Old Mill Road AND/OR WATER PURVEYOR(s) Jane Lew, WV 26378 Name: Robert Painter Address: 445 Millstone Road Name: Phyllis L & Dolores A Hinterer Address: P. O. Box 730 Weston, WV 26452 Jane Lew, WV 26378 ☑ OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: Dominion Energy Transmission in Ronald Waldren ☐ SURFACE OWNER(s) (Impoundments or Pits) 925 White Oaks Blvd Name: Address: Bridgeport, WV 26330 Address: *Please attach additional forms if necessary

API NO. 47-0 4 1 0 5 7 1 3
OPERATOR WELL NO. Flesher 1212 N-11-100 S-SH
Well Pad Name: Flesher 1212

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-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 WW-6A (8-13) 4704105713

API NO. 47-____OPERATOR WELL NO. Flesher 1212 N-1H to S-8H

Well Pad Name: Flesher 1212

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

DEC 1 8 2020

WV Department of Environmental Protection

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

WW-6A (8-13) API NO. 47-70-4105713

OPERATOR WELL NO. Flosher 1212 N-1H to 5-6H

Well Pad Name: Flesher 1212

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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



WW-6A (8-13)

API NO. 47-OPERATOR WELL NO. Flesher 1212 N-4H, NIH - 58H Well Pad Name: Flesher 1212

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

Telephone: 304-420-1119

Email: dwhite@hgenergyllc.com

Address: 5260 Dupont Road

Parkersburg, WV 26101

Facsimile: 304-863-2172

Oil and Gas Privacy Notice:

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



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

Notary Public My Commission Expires 1 31 2022

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Office of Oil and Gas

DEC 1 8 2020

WV Department of Environmental Protection 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

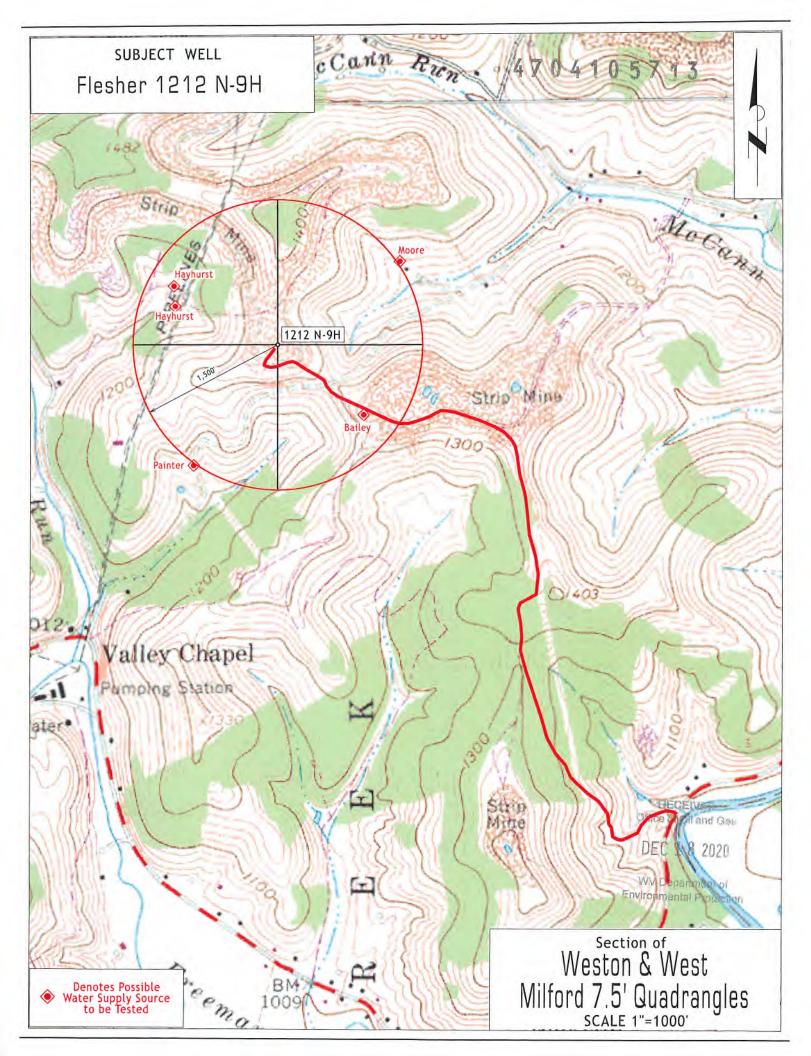
Surface Owner (s) (Road and/or Other Disturbance)

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

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Office of Oil and Gas

DEC 1 8 2020

WV Department of Environmental Protection



4704105713

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

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

Date of Noti	ce: 11/17/2020 Date Permit	Application Filed: 11/25/2020		
Delivery me	thod pursuant to West Virginia Code § 22-6	A-16(b)		
☐ HAND	■ CERTIFIED MAIL			
DELIVI		STED		
receipt reque drilling a hou of this subsection m	V. Va. Code § 22-6A-16(b), at least ten days p sted or hand delivery, give the surface owner r izontal well: <i>Provided</i> , That notice given pure tion as of the date the notice was provided to a pay be waived in writing by the surface owner. The steering has a provided to the facsimile number and electronic mail addresses.	notice of its intent to enter upon the suant to subsection (a), section te the surface owner: <i>Provided, how</i> . The notice, if required, shall incline	ne surface owner's land for the of this article satisfies the vever. That the notice require ude the name, address, teleptons.	he purpose of requirements ements of this hone number,
	ereby provided to the SURFACE OWNE	ER(s): HG Energy LLC , Name:	was not noticed	
Address: 526	Dupont Road	Address:		
Park	ersburg, WV 26101			
Pursuant to V the surface o	reby given: Vest Virginia Code § 22-6A-16(b), notice is howner's land for the purpose of drilling a horizo West Virginia	ntal well on the tract of land as fo	llows:	to enter upon
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Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to ho	Vest Virginia Code § 22-6A-16(b), notice is highwar's land for the purpose of drilling a horizo West Virginia Lewis Freemans Creek Weston 7.5'	ntal well on the tract of land as fo UTM NAD 83 Easting; Northing; Public Road Access: Generally used farm name: ice shall include the name, addrator and the operator's authorize cretary, at the WV Department of	Allows: 544290.0 4330027.1 Kincheloe Run Rd to Valley Chapel Flesher ess, telephone number, and ad representative. Additiona f Environmental Protection	Road if available, l information headquarters,
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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.

Operator Well No. Flesher 1212 N-9H 4 7 0 4 1 0 5 7 1 3

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

Notice Time Re Date of Notice:	equirement: notice shall be provi	ded no late nit Applic	r than the filing ation Filed: 11/2	date of permit 5/2020	application.	
Delivery metho	od pursuant to West Virginia Co	de § 22-6	A-16(c)			
CERTIFIE	ED MAIL	□ на	ND			
	RECEIPT REQUESTED		LIVERY			
eturn receipt re he planned ope equired to be pe drilling of a hor lamages to the s d) The notices of notice.	Va. Code § 22-6A-16(c), no late equested or hand delivery, give the eration. The notice required by rovided by subsection (b), section rizontal well; and (3) A propose surface affected by oil and gas op required by this section shall be g	e surface of this subsect the ten of this disurface userations to tiven to the	wner whose land ction shall include article to a surface and compens the extent the day surface owner a	I will be used for de: (1) A copy ace owner whose action agreement amages are compate the address list	or the drilling of a horizontal of this code section; (2) The seland will be used in conjust containing an offer of copensable under article six-basted in the records of the shadow of	If well notice of the information with the impensation for of this chapter.
	y provided to the SURFACE O' isted in the records of the sheriff		of notice):	ly was not	L Morricea	
	ergy II Appalachia LLC	. /	Name:			
ddress: 5260 Du	upont Road	V	Address	S:		
Parkersh	ourg, WV 26101					
County: L District: F	Vest Virginia Lewis Freemans Creek Veston 7.5'		UTM NAD 8 Public Road Generally use	Northing:	544290.0 4330027.1 Kincheloe Rd./ Valley Chapel Road Flesher	
Vatershed: M	AcCann Run					
o be provided norizontal well; surface affected nformation rela	st Virginia Code § 22-6A-16(c), the by W. Va. Code § 22-6A-10(b) and (3) A proposed surface use at the by oil and gas operations to the lated to horizontal drilling may be becated at 601 57th Street, SE,	to a surfa and compe- extent the e obtained	ce owner whose nsation agreeme damages are co from the Secret	e land will be un nt containing ar ompensable und tary, at the WV	used in conjunction with the offer of compensation for ler article six-b of this chapt Department of Environment	ne drilling of a damages to the oter. Additional ental Protection
Well Operator:	HG Energy II Appalachia, LLC		Address:	5260 Dupont Road		Cir Hing i
			- 1			
The second Company of the	304-420-1119			Parkersburg, WV 26	5101	DEC 1 8 202
Telephone: Bmail:	V 100 100 100 100 100 100 100 100 100 10	White	Facsimile:		9101	WV Department

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 deprivacyofficer@wv.gov.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

December 14, 2020

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

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

> RECEIVED Office of Oil and Gas

DEC 1 8 2020

WV Department of Environmental Protection

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

Subject: DOH Permit for the Flesher 1212 Pad, Lewis County Flesher N-9H 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,

Gary K. Clayton, P.E.

Regional Maintenance Engineer

Central Office O&G Coordinator

Cc:

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

File

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

Chemical Name	CAS#	Multiple CAS #'s		
Pro Shale Slik 405	Mixture	68551-12-2		
		7647-14-5		
		12125-02-9		
		64742-47-8		
Pro Hib II	Mixture	68412-54-4		
		68607-28-3		
		107-21-1		
		111-76-2		
		67-56-1		
		107-19-7		
Silica Sand and Ground Sand	Mixture	14808-60-7		
		1344-28-1		
		1309-37-1		
		13463-67-7		
Hydrochloric Acid 22 DEG BE	7647-01-0			
PROGEL - 4.5	64742-96-7			
BIO CLEAR 2000	Mixture	25322-68-3		
		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			

RECEIVED Office of Oil and Gas

DEC 1 8 2020

WV Department of Environmental Protection Erosion and Sediment Control Plans HG Energy LLC Lewis County Freemans Creek District Latitude 39.11818424°

Longitude -80.48745931° Middle West Fork River Watershed

Pertinent Site Information

1212 Well Site Emergency Number: 304-269-8235 Freemans Creek District, Lewis County, WV Watershed: Middle West Fork River Watershed Site 911 Address

HG Energy Contact Number: 304-420-1100

				Levit Cour			
Ding	ZM - Parcel	Well Pal	Stigging	Argest Road	Togsoil Excess	Add Cleaning	Total Exputte
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Protrietev	6C-46	0.00	0.000	201	10.00	175	0.76
Fred Bizley	62.45	0.00	0.00	1.10	(0.00)	2.02	211
Leret.A. Rebecca Flasher	16C-82	3.95	4.61	Liki	-030	2.25	1235

Exhibit A. Final Design: Issue for Permitting





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1283.
18,875

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Stailte Atea b.	7,701.64	2.704.93	1,59833	- 8	50'A	N/A
Man Appear Read	25.567.72	24,078.11	887.0		14/3	NA.
Well Pol Access Root #1	0.00	328 16		129 18	REA.	No.
Wall Paid Agness Repet #2	11.00	1,124.95	4.	1.124.91	JAIA.	StA
Stante Area Acogo Road	2.42	128.91	-	12631	NA.	NA
Topsof/Expost Mineral Spockytis	0.02	21 007 10		71,007.70	174/A.	NA.
Tutalis	44200.11	38.180.93	9.889.87	12,586.59		
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Wastropitus F. (Agosta Road)	57,042	0.50	0.00	3540	35.65
Waterpote in 1 (Acopta Road)	85.45	44.05	3.00	8.03	163.03
Witnesseame / t A oness Roads	0.00	0.56	41/27	1230	R8.70

Wells	nd Impact (Sq	naire Feet)	
Welled Onped Office	Taligan.	Cont Datab	Total Inguit
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	-	DaveInseev	850.6
		Stall Impairts T Aurent	0.0124



PREPARED FOR HG ENERGY LLC





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1212 Well Site

	Exhibit A; Final Design: Issue for Permitting
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	Maffel Chings Maffel
	Votes Cheed to See To S
Pressandure	CONT Lighter All

APPROVED WVDEP OOG 11/17/2020

WVAS MATERIA DE TERRO TO WVAS MATERIA DE TERRO DE WVAS MATERIA DE TERRO DE WVAS MATERIA DE TERRO DE WVAS MATERIA DE TERRO DE LOS MATERIA DE TERRO DE LOS MATERIA DE TERRO DE LOS MATERIA DE TERRO DE LOS MATERIA DE TERRO DE TERRO DE TERRO DE TERRO DE PORTO DE TERRO DE TERRO DE PORTO DE TERRO DE TERRO DE PORTO DE TERRO D

USGS 7.5' Quadrangle: Weston Watershed: Middle West Fork Rive

Project Contacts

WEST VIRGINIA COUNTY MAP

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HIS Energy LLC Survey and Engineer Contributions Vol.334.6985 Off

Know what's below, Call before you dig.

(IG Energy, LLC 5250 Daport Read Parkesbury, WV 2610) Pht. 824-426-4160 Enc. 301/863-3175

Environmental:

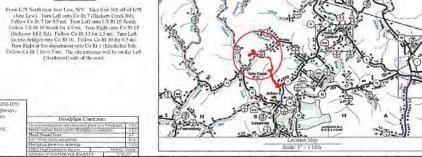
MISS UTILITY OF WEST VIRGINIA 1-800-245-4848 IT'S THE LAW

HG Energy LLC will obtain an Engreachment Permit (Form MM-168) from the WV Department of Transportation, Division of Highways prior to the commencement of any construction activities

The WV Mines Website was consulted. Previous mining activities are within the AOL

Approach Routes:

WVIEF Website files show that there are



Well Location Restrictions



Schedule of Quantities
Site Notes
Pre-Construction Site Conditions
Site Soil Map
Site Soil Map
However Site Soil Map
Overall Plan View
Toe Rey Exhibit
Plan View
Cases Sections - Well Pad
Coxes Sections - Studing Areas
Coxes Sections - Access Road
Landower Disturbed Area Exhibit
Landower Disturbed Area Exhibit
Landower Disturbed Area Exhibit Landowrer Disturbed Area Exhibit Site Reclamation Site Reclamation Production Exhibit Emission and Sediment Control Details Access Road Details Pad Details

Cover Sheet Schedule of Quantities



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