

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 www.dep.wv.gov

Tuesday, November 5, 2019 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re: Permit approval for MCDONALD 1211 N-5H 47-041-05701-00-00

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.

Operator's Well Number: MCDONALD 1211/N-5H

Farm Name: HG ENERGY II APPALACHIA

James A. Martin Chief

U.S. WELL NUMBER: 47-041-05701-00-00

Horizontal 6A New Drill Date Issued: 11/5/2019

API Number:	

PERMIT CONDITIONS

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

CONDITIONS

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

API Number:	

PERMIT CONDITIONS

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 II Appalachia, LLC 5260 Dupont Circle Parkersburg, WV 26101

DATE: October 16, 2019 ORDER NO.: 2019-W-13

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 II Appalachia, LLC (hereinafter "HG Energy" 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 Energy 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 August 16, 2019 HG Energy submitted a well work permit application identified as API# 47-041-05701. The proposed well is to be located on the McDonald 1211 Pad in the Freemans Creek District of Lewis County, West Virginia.
- On August 16, 2019 HG Energy requested a waiver for Wetland K 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# 47-041-05701.

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 K from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-041-05701. The Office of Oil and Gas hereby **ORDERS** that HG Energy shall meet the following site construction and operational requirements for the McDonald 1211 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 K is above the cut slope from the proposed well pad thus no run off from construction will reach the wetland;
- 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.

Order No. 2019-W-13

Thus ORDERED, the 16th day of October, 2019.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By:

AMES A. MARTIN, CHIEF

SETBACK WAIVER REQUEST

1211 WELL PAD PROJECT LEWIS COUNTY, WEST VIRGINIA

Submitted to:

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS 601 57TH STREET CHARLESTON, WEST VIRGINIA 25305

Prepared for:

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD PARKERSBURG, WEST VIRGINIA 26101

Prepared by:

CIVIL & ENVIRONMENTAL CONSULTANTS, INC. 600 MARKET PLACE, SUITE 200 BRIDGEPORT, WEST VIRGINIA 26330

CEC Project 190-016

August 2019







August 8, 2019

Mr. James Martin, Chief West Virginia Department of Environmental Protection Office of Oil and Gas 601 57th Street Charleston, West Virginia 25304

Dear Mr. Martin:

Subject: Setback Waiver Request

HG Energy II Appalachia, LLC

1211 Well Pad Project

Lewis County, West Virginia

CEC Project 190-016

Office of Oil and Gas

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1.0 INTRODUCTON

On behalf of HG Energy II Appalachia, LLC (HG Energy), Civil & Environmental Consultants, Inc., (CEC) is submitting a Setback Waiver Request pursuant to Chapter 22 Article 6A Section 12 of West Virginia Code. HG Energy is requesting a waiver for one wetland which lies within 100-feet from the limit of disturbance (LOD) of the proposed 1211 Well Pad Project located in Lewis County, West Virginia.

HG Energy is proposing to construct a natural gas well pad with attendant facilities and associated access roads. The total LOD for the 1211 Well Pad Project is 20.96 acres and will support up to ten horizontal wells. The waiver request form is included as Attachment A and the following sections provide a detailed description as required by the waiver.

2.0 WETLAND WAIVER REQUEST

Question 1: Describe the proposed project location, including unique identifying names of all wetlands, and the names of perennial streams for which the waiver is sought.

The proposed 1211 Well Pad Project is located in northern Lewis County, West Virginia near the town of Kincheloe, as shown on the attached portion of the West Milford, West Virginia USGS quadrangle map (Attachment B). The proposed well pad LOD is within 100-feet of one wetland, Wetland K. Wetland K is located approximately 7.03 linear feet to the northeast of the proposed well pad LOD.

Question 2: Justify the proposed activity by describing alternatives to this project that were considered

a. Include a No-Action Alternative as to show "the future without the project".

Mr. James Martin Project 190-016 Page 2 August 8, 2019

The No-Action alternative does not represent "no alteration" of the existing environment, as future development could likely occur. However, under this alternative, the 1211 Well Pad Project would not be constructed and would produce no immediate environmental impacts and, consequently would not require a waiver; however, this option would not fulfill the project's purpose and need.

b. Location alternatives must be shown.

Prior to the currently proposed design of the 1211 Well Pad, HG Energy considered a design with a larger footprint for the well pad area of the project (PP02, Attachment C). This design required filling the entirety of Wetland K. This design also included a different configuration for soil stockpiles, and lacked an onsite aboveground storage tank.

The final design has a smaller footprint for the 1211 Well Pad site. This final design does not include impacts to Wetland K, but necessitates a wetland waiver due to the proximity of the new proposed well pad LOD to Wetland K.

The proposed design represents the minimum degradation alternative and HG Energy's commitment to reducing aquatic impacts to the furthest extent practicable while still meeting the projects purpose and need; however, a waiver is now required for Wetland K. The proposed Site Plans are included as Attachment D.

c. Must demonstrate why a one hundred foot buffer cannot be maintained.

Maintaining a 100-foot buffer from all on-site wetlands and streams was not feasible due to topographic restraints and location of the existing features. To maintain a 100-foot buffer from Wetland K, the pad would need to be shifted to the south or southwest. Shifting the well pad to the south would impact several identified potential roost trees and shift the well pad onto a steeper grade, requiring more earthwork. This would increase the size of proposed soil stockpiles and would require a larger footprint for the project overall. Shifting the well pad to the southwest would cause impacts to an additional stream, Watercourse J (Attachment D, Sheet 6), as well as introducing the same earthwork and stability issues present with shifting the well pad to the south.

The only other alternative to meet the setback requirements would be a reduction in the project's footprint and the proposed design represents the minimum footprint required to meet the projects purpose and need. A reduction in the pad's limits would mean the project could not be developed.

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Mr. James Martin Project 190-016 Page 3 August 8, 2019

d. Describe how the proposed project is the least environmentally damaging practicable alternative.

The proposed 1211 Well Pad design represents the alternative which reduces permanent impacts to the greatest degree. The conceptual design would have reduced the need to obtain wetland waivers but instead would have resulted in additional impacts, large amounts of earthwork, potentially less stable graded slopes, and a larger project footprint due to the necessary soil stockpile.

Question 3: Identify sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect waters of the state. This description should include all additional erosion and sediment control measures and devices that will be used.

As part of their permitting process, HG Energy has prepared an Erosion and Sedimentation Control Plan (E&SCP) specific for this project which stipulates specific seed mix for post-construction soil stabilization. The E&SCP will be implemented to reduce soil erosion, compaction, and sedimentation of receiving streams and wetlands. Proper construction sequencing and implementation of the E&SCP will ensure water quality impacts are minimized throughout the project area. HG Energy will also ensure that any contaminants will be strictly controlled. Furthermore, appropriate stormwater management features and culverts will be installed along the access roads to prevent the damming and funneling of water that might otherwise reach wetland areas.

Question 4: Proved mapping, plans, specifications and design analysis for the preferred alternative to the project.

a. Specify in writing what additional controls, measures, devices, monitoring, etc. will be used to protect wetlands and/or perennial streams for which the waiver is sought.

West Virginia Department of Environmental Protection approved erosion and sediment controls will be maintained continuously throughout the project. Diversion Ditches 1 and 2 will be constructed around the northeastern limits of the well pad that will direct water into a roadside ditch and a riprap outfall, respectively. The riprap outfall will serve to slow the velocity of concentrated water flows to reduce erosion and minimize sedimentation.

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The following attachments are included with this waiver request:

Attachment A: Wetland Waiver Request Form

Attachment B: Site Location Map Attachment C: Conceptual Plans

Attachment D: Proposed Final Site Plans

3.0 CLOSING

We appreciate your review of this Wetland Waiver Request. Please contact Jared Stemple at (740) 336-2477, or at jstemple@hgenergyllc.com, if you have any questions or require additional information.

Respectfully submitted,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC

Anthony Ludovici Assistant Project Manager Jacqulyn Kester Principal

Enclosures

cc: Mr. Jared Stemple, HG Energy II Appalachia, LLC

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ATTACHMENT A WETLAND WAIVER REQUEST FORM

RECEIVED Office of Oil and Gas

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11/3/14		API Number:	Not yet assigned
Wetland and Pe	erennial Stream Waiver Request	Operator's Well Number:	
Well Operator:	HG Energy II Appalachia, LLC		
	N-1H, N-2H, N-3H, N-4H, N-5H, S-6H, S-7H, S-8H, S-9H, S-10H	Well Pad Name: 1211 Well Pad	
•	, Quadrangle of Well Location: Lewis Cou	nty, Freemans Creek District, Wes	t Milford Quad

Answer the questions below to request a waiver from West Virginia Department of Environmental Protection for any wetlands or perennial streams which lie within one hundred feet of proposed project Limit of Disturbance (LOD), which includes any erosion and sediment control devices to be used.

This waiver shall be requested pursuant to Chapter 22 Article 6A Section 12 of West Virginia Code, which states:

§22-6A-12(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.

§22-6A-12(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.

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11/3/14 Wetland and Perennial Stream Waiver Request

API Number:	Not yet assigned
Operator's Well Number:	

Answer in the space provided, or use additional pages as necessary to fully answer the questions below:

1. Describe the proposed project location, including unique identifying names of all wetlands, and the names of perennial streams for which the waiver is sought.

Please refer to Section 2.0, Question 1 of the letter.

- 2. Justify the proposed activity by describing alternatives to this project that were considered.
 - a. Include a No-Action Alternative as to show "the future without the project"
 - b. Location Alternatives must be shown
 - c. Must demonstrate why a one hundred foot buffer cannot be maintained
 - d. Describe how the proposed project is the least environmentally damaging practicable alternative

Please refer to Section 2.0, Question 2 of the letter.

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11/3/14
Wetland and Perennial Stream Waiver Request

API Number:	Not yet assigned
Operator's Well Number:	

3. Identify sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. This description should include all additional erosion and sediment control measures and devices that will be used.

Please refer to Section 2.0, Question 3 of the letter.

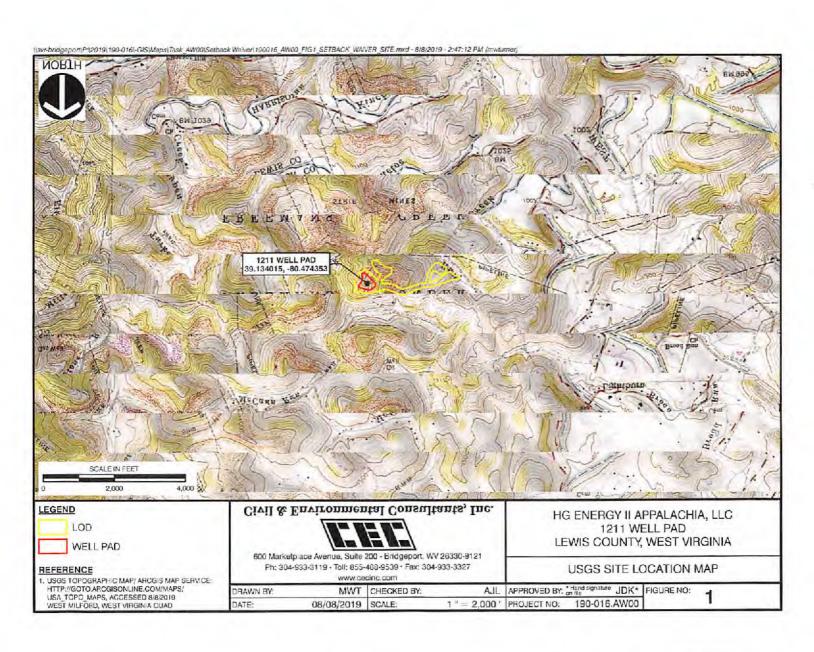
- 4. Provide mapping, plans, specifications and design analysis for the preferred alternative to the project.
 - a. Specify in writing what additional controls, measures, devices, monitoring, etc. will be used to protect these wetlands and/or perennial streams for which the waiver is sought.

Please refer to Section 2.0, Question 4 of the letter.

ATTACHMENT B SITE LOCATION MAP

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ATTACHMENT C CONCEPTUAL PLANS

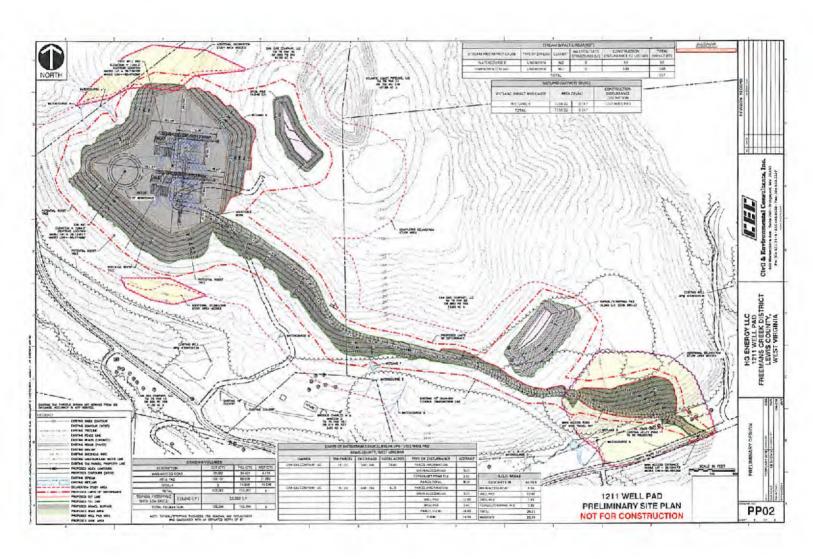
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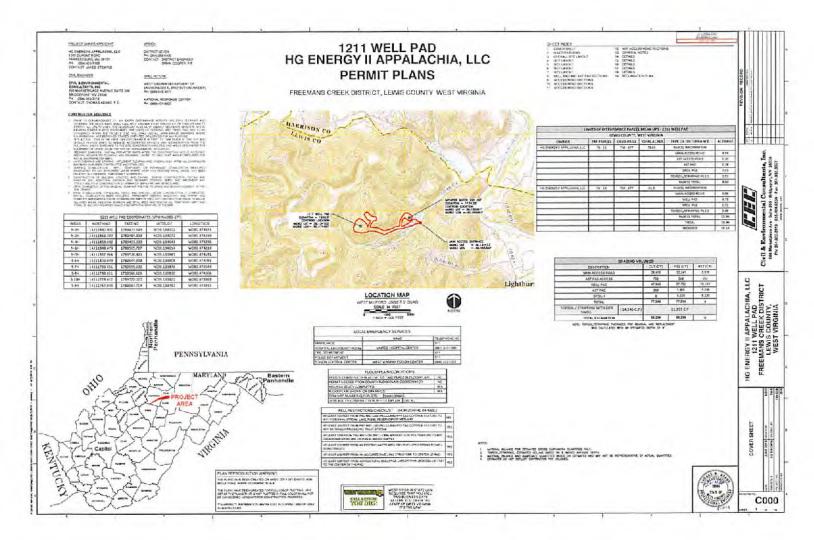
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PROPOSED FINAL SITE PLANS

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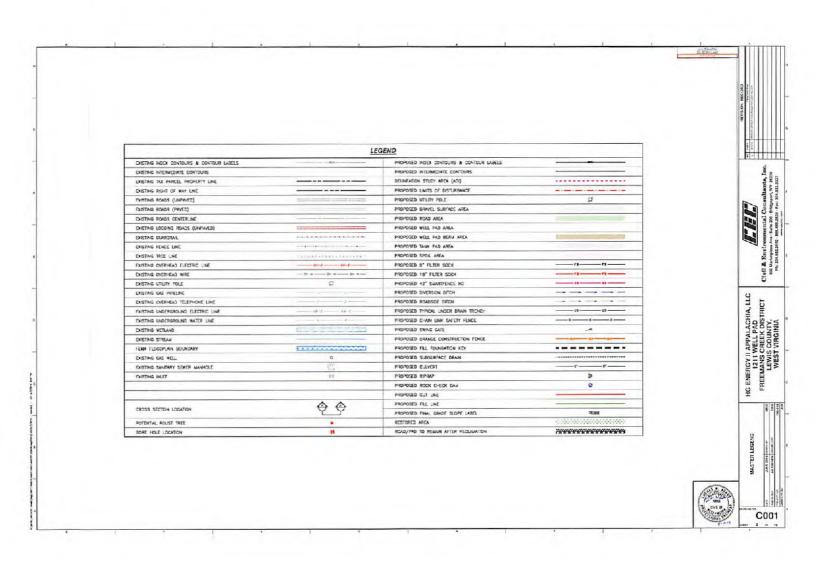
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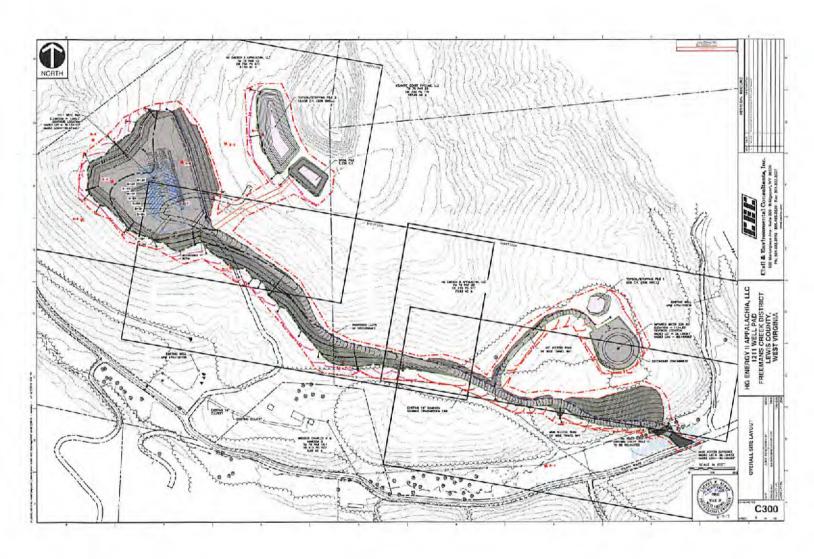


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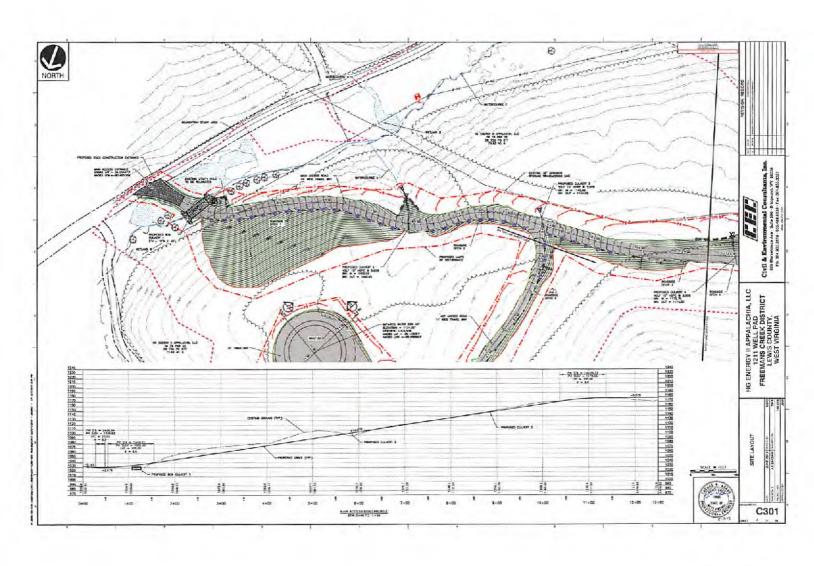
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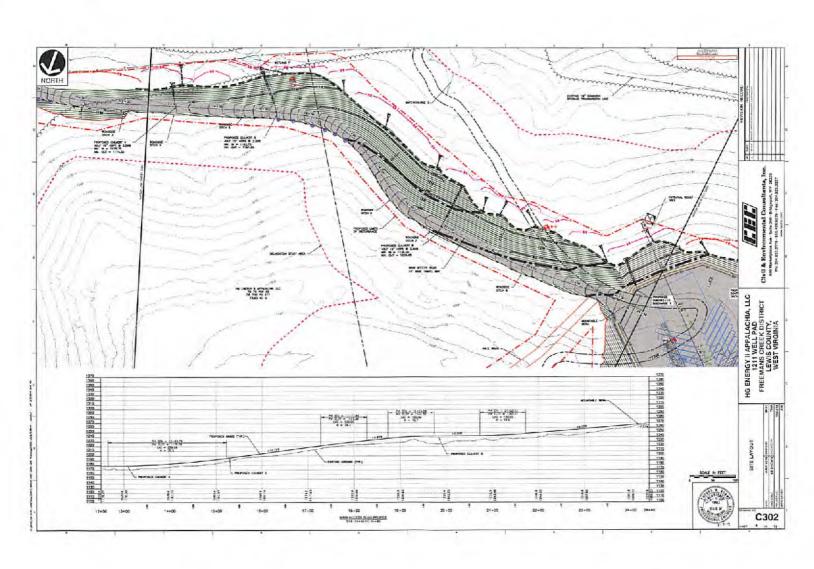
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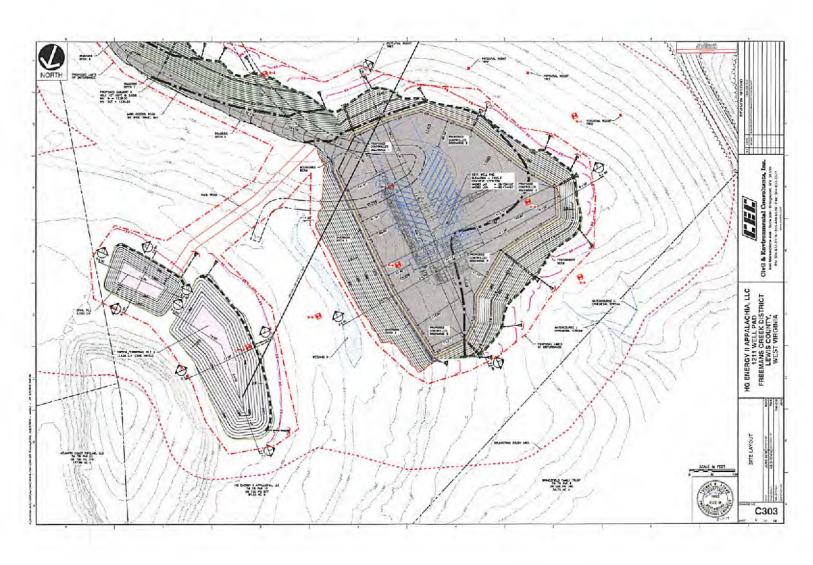
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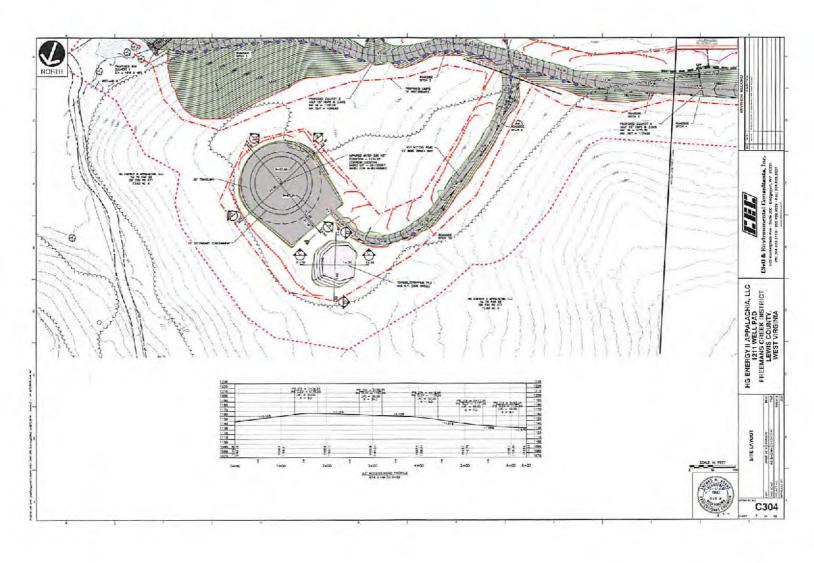
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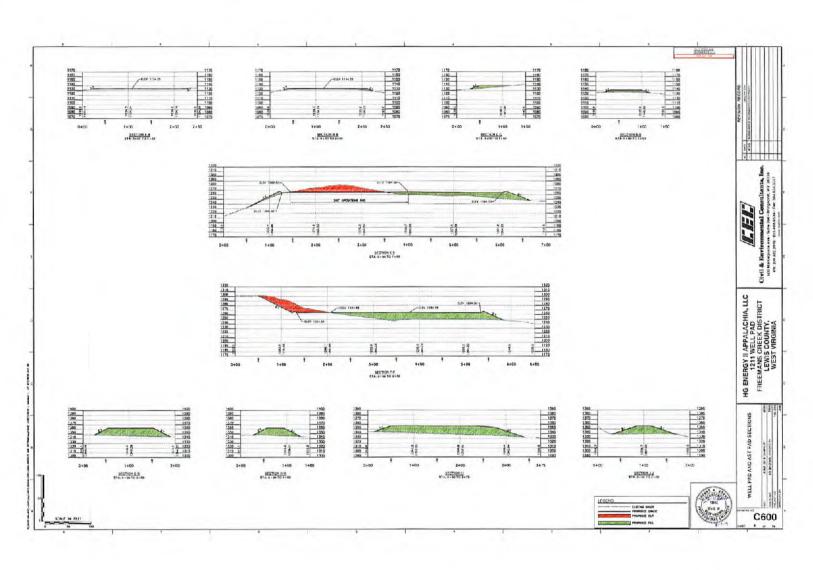
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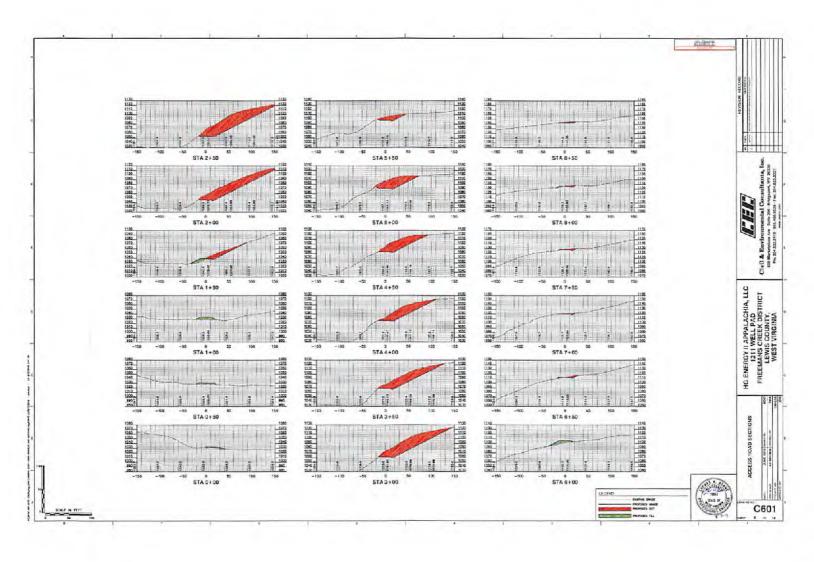
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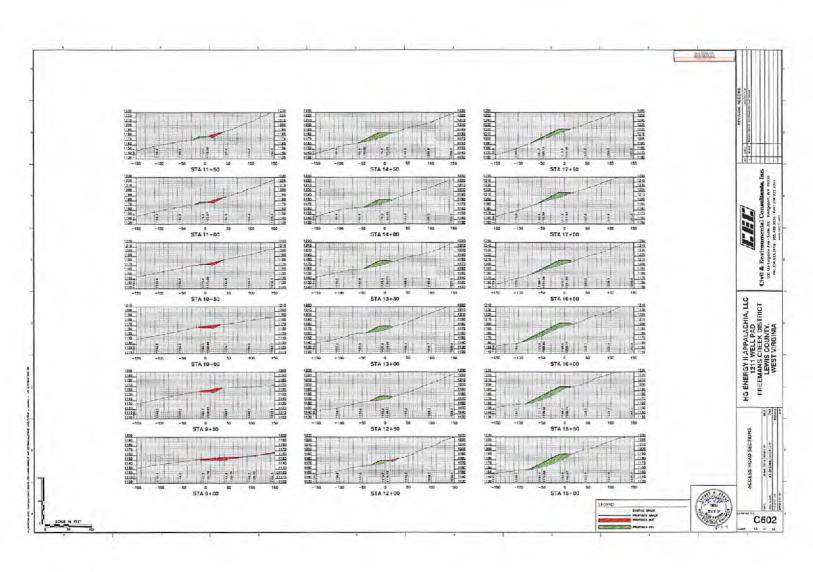
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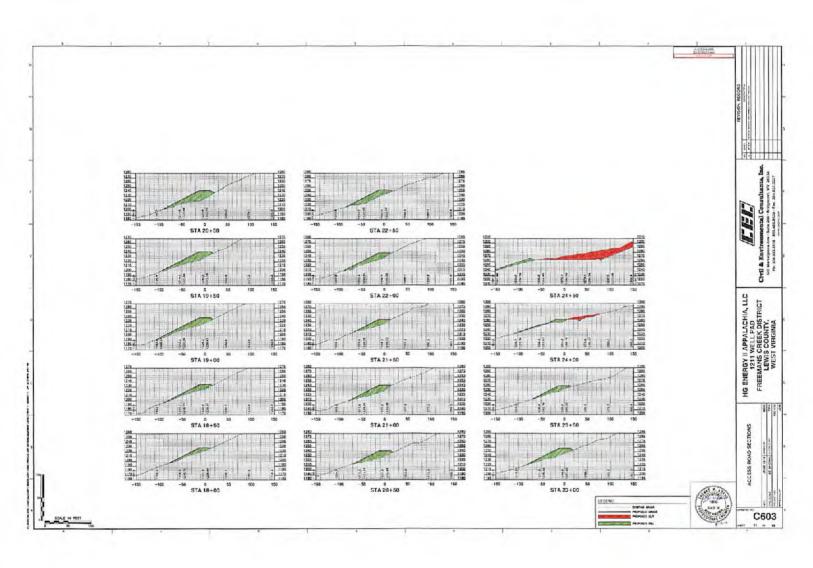
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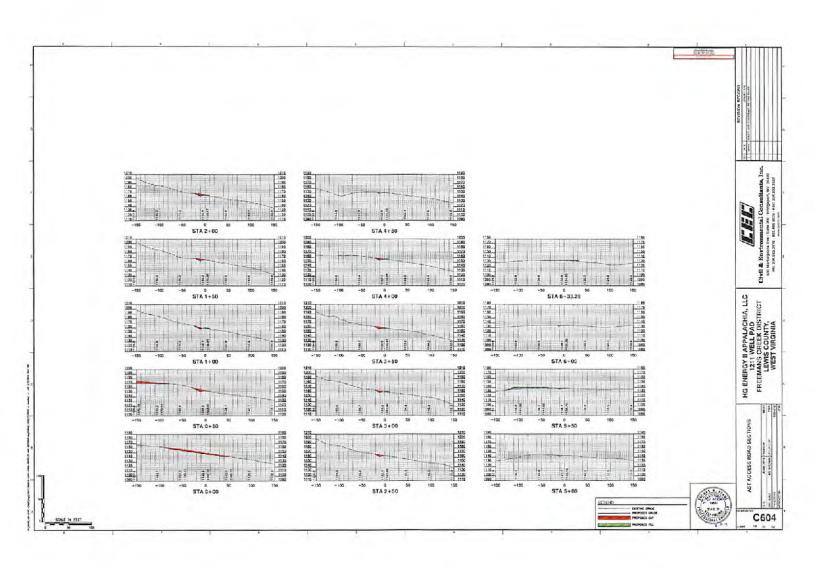
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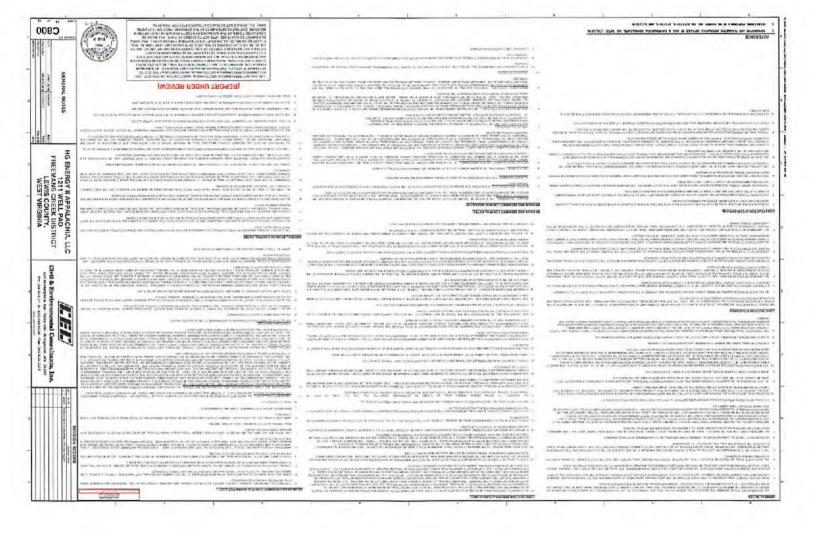


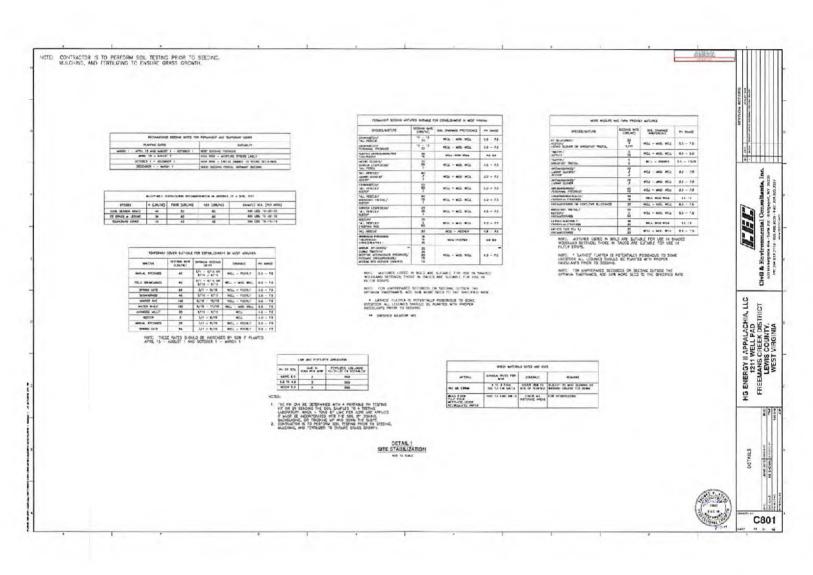
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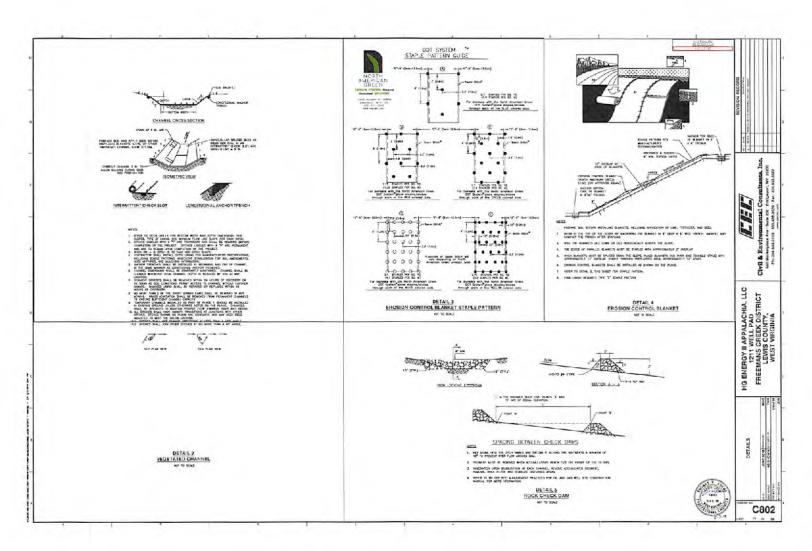
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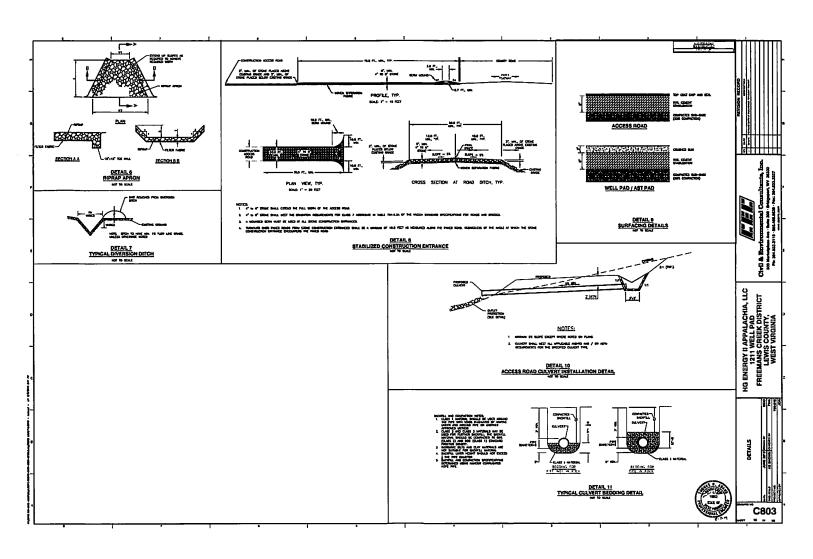
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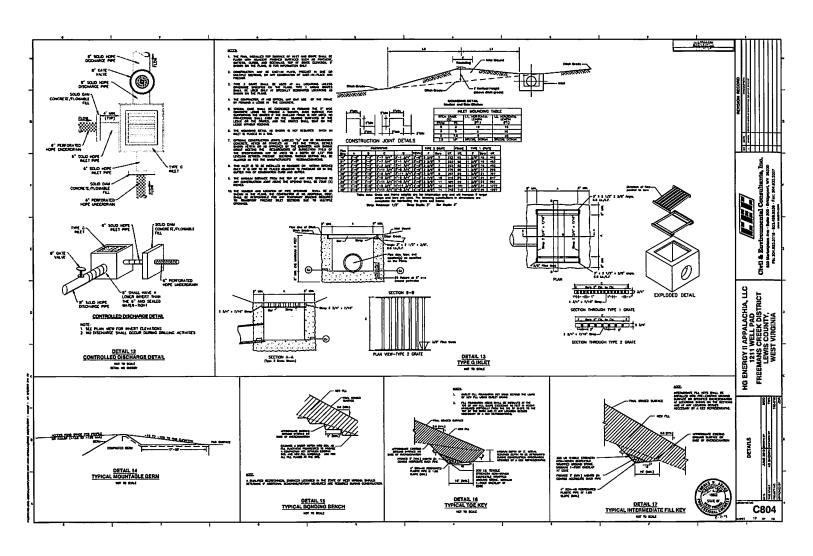
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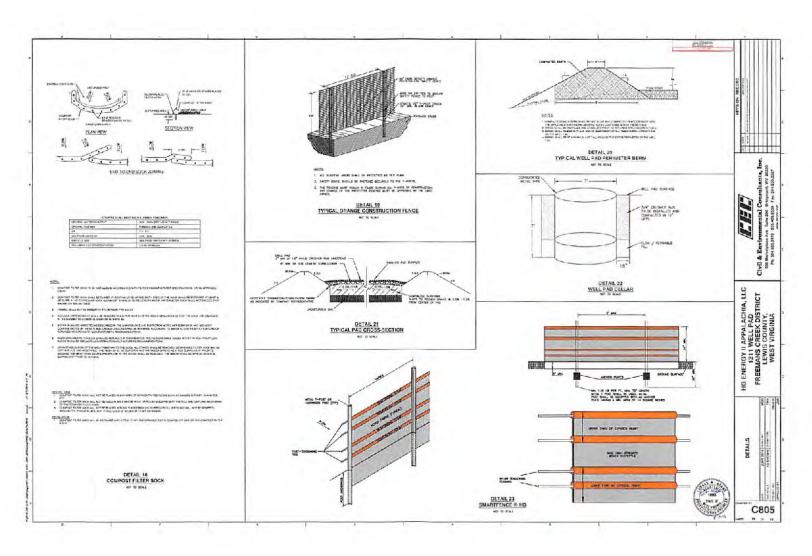
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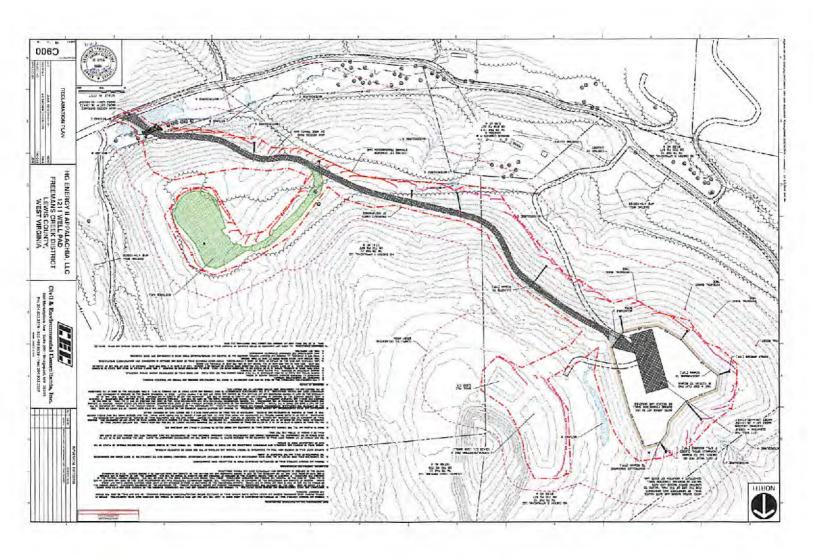
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WW-6B (04/15)

API NO. 47	
OPERATOR WELL N	O. McDonald 1211 N-5H
Well Pad Name: M	cDonald 1211

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

1) Well Onera	tor: HG Ene	rav II Appa	ilachia.	494519932	Lewis	Freeman	West Milford 7.5'
1) Wen Opera	tor. <u></u>	37 41-		Operator ID	County		Quadrangle
2) Operator's \	Well Number:	McDonald	1211	N-5H Well	Pad Name: Mo	Donald 1211	
3) Farm Name	/Surface Owne	er: McDor	nald	Public I	Road Access: _	SR 19	
4) Elevation, c	urrent ground:	1280'	1	Elevation, propos	ed post-constru	action: 1264.5	
5) Well Type	(a) Gas <u>X</u> Other		_ Oil _	U	nderground Sto	orage	
	(b)If Gas	Shallow	x	Deep			
6) Existing Page	d: Yes or No	Horizontal No	<u>x</u>				
7) Proposed Ta	arget Formatio	n(s), Depth		icipated Thicknes Anticipated pressu		d Pressure(s):	
8) Proposed To	otal Vertical D	epth: 680	0'				
9) Formation a	nt Total Vertica	al Depth: [Marcell	us			
10) Proposed	Total Measured	d Depth:	22,692'	<i>J</i>			
11) Proposed I	Horizontal Leg	Length:	15,348'				
12) Approxima	ate Fresh Wate	r Strata De	pths:	34', 107', 205	5', 229', 249'		
•	Determine Fre ate Saltwater D		_	Nearest offset 75'	well data, (47-	041-5128, 393	38, 4929)
15) Approxima	ate Coal Seam	Depths: 8	10' to 8	15'			
				mine, karst, other): None		
17) Does Prop	osed well loca ing or adjacen	tion contair	o coal se	eams	_	No X	
(a) If Yes, pr	ovide Mine In	fo: Name	:				
		Depth	:				
		Seam:					
		Owne	r:			 	
			RE Office of	CEIVED f Oil and Gas	3	.S. 9-	24-19

OCT 1 5 2019

Page 1 of 3

4704105701

API NO. 47-_____OPERATOR WELL NO. McDonald 1211 N-5H
Well Pad Name: McDonald 1211

18)

CASING AND TUBING PROGRAM

ТҮРЕ	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	2040'	2040' 🗸	CTS
Intermediate 2	9 5/8"	NEW	J-55 BTC	40	2750'	2750' 🗸	CTS
Production	5 1/2"	NEW	P-110 HP	23	22692'	22692' 🗸	CTS
Tubing				-			
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	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	12000	Type 1/ClassA	20% excess yield = 1.19, tail yield 1.94.0
Tubing							
Liners							

PACKERS

Kind:		
Sizes:		
Depths Set:		

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Office of Oil and Gas API NO. 47-

OCT 1 5 2019

OPERATOR WELL NO. McDonald 1211 N-5H Well Pad Name: McDonald 1211

WV Department of **Environmental Protection**

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 6800 feet. Drill horizontal leg to estimated 15,348 lateral length, 22,692 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 ECP 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): 22.75 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 7.31 acres
- 23) Describe centralizer placement for each casing string:

WW-6B (10/14)

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

25) Proposed borehole conditioning procedures:

*Note: Attach additional sheets as needed.

McDonald 1211 Well Pad (N-1H to N-5H, S-6H to S-10H) Cement Additives

and the second		Le al-	5		
Material Name	Material Type	Material Description	CAS#	17.	
		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
Premium NE-1	Portland Cement	strength properties.	Crystalline silica: Quartz (SiO2)	0.1-1	14808-60-7
Terming ME-T	Fordand Cement				
		Commonly called gel, it is	And the second s		
		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.			
lentonite	Extender				
		A powdered, flaked or	The second secon	122	I-u-
		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			
lcium Chloride	Accelerator				
		CALLERY CARROL			
		Graded (3/8 to 3/4 inch)	Ingredient name	%	CAS number
		cellophane flakes used as	No hazardous ingredient		
		a lost circulation material.			
llo Flake	Lost Circulation				
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in		le:	lese.
		cementing operations. It	Ingredient name	%	CAS number
		is very effective	Tributyl phosphate	90 - 100	126-73-8
		minimizing air			
		entrapment and			
		preventing foaming			
		tendencies of latex			
		systems.			
13L	Foam Preventer				
				122	loss
		Hand or any order	Ingredient name	%	CAS number
and the latest and	NAME OF THE OWNER OWNER OF THE OWNER	Used to retard cement	Sucrose	90 - 100	57-50-1
anulated Sugar	Retarder	returns at surface.			
		A proprietary product			
		that provides expansive			
		properties and improves	Transactions and the second	a)	CARmonter
		bonding at low to	Ingredient name	%	CAS number
		moderate	Calcium magnesium oxide	90 - 100	37247-91-9
		temperatures.			
		Multi-purpose polymer			
		additive used to control	Ingredient name	%	CAS number
		free fluid, fluid loss,	No hazardous ingredient		712
		rheology, and gas	The Hazardone maliantain		
A-170	Gas Migration	migration.			
		A synthetic pozzolan,			
		(primarily Silicon Dioxide).			
		When blended with			
		cement, Pozzolan can be	Ingredient name	%	CAS number
		used to create		5 - 10	14808-60-7
		lightweight cement	Crystalline silica: Quartz (SiO2) Calcium oxide	1 - 5	1305-78-8CEIVE
		slurries used as either a	Salution Colors	1	Office of Oil at
		filler slurry or a sulfate			
		resistant completion			ALIC TO
		cement.			AUG 16
Fly Ash)	Base				
					WW Decarto
		A low temperature			WV Departmentel E
		retarder used in a wide	Ingredient name	%	CAS number
		range of slurry	Organic acid salt	40 - 50	Trade secret.
		formulations to extend	organic acid but	70.00	1,000,000,000
		the slurry thickening time.			
	Retarder	The second second second			
	.,				
			Ingredient name	%	CAS number
			2-Butoxyethanol	20 - 30	111-76-2
			Proprietary surfactant	10 - 20	Trade secret.
		Used to water wet casing	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	5 - 10	110615-47-9
		and formation to facilitate	Alkylarylsulfonate amine salt	1-5	Trade secret. Trade secret.
	Surfactant	cement bonding.	Polyoxyalkylenes	0.1 - 1	ridue secret.
	Surfactarit	cement bonding.			

List of Frac Additives by Chemical Name and CAS

McDonald 1211 Well Pad (N-1H to N-5H, S-6H to S-10H)

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	
212 21 21 22 22 2		25222 50 2
BIO CLEAR 2000	Mixture	25322-68-3
		10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
		107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	

Office of Oil and Gas

AUG 1 6 2019

WV Department of Environmental Protection

Diane White

From: Adkins, Laura L <Laura.L.Adkins@wv.gov>
Sent: Wednesday, August 7, 2019 9:37 AM

To: Diane White

Subject: RE: [External] FW: [External] McDonald 1211 Well Permit Applications

Yes, I apologize for not getting back to you. I'm good with it.:)

From: Diane White <dwhite@hgenergyllc.com>

Sent: Tuesday, August 6, 2019 3:22 PM
To: Adkins, Laura L < Laura.L.Adkins@wv.gov>

Subject: [External] FW: [External] McDonald 1211 Well Permit Applications

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and are expecting the content. -- WV Office of Technology

Laura,

I'm sorry to bother you again.

I've scheduled a meeting with Barry Stollings on Thursday morning to walk the 1211 site and go over the drilling permit application, including the WW-6B and the casing schematic.

Have you by chance, had an opportunity to review the 1211 casing schematic?

Please let me know if I can get you any other information for your review.

Thanks, Diane

From: Diane White <dwhite@hgenergyllc.com>

Sent: Friday, August 2, 2019 4:50 PM

To: Adkins, Laura L < Laura.L. Adkins@wv.gov>

Subject: RE: [External] McDonald 1211 Well Permit Applications

Laura,

Yes, see the attached casing schematic. The fresh water is at 205' and the coal is at 924', so we wanted to run the FW casing

to 1000' to close off the coal. I know that normally there's the regulation about the FW casing only extending 100' to 150' below the water. That's why I wanted to talk with you about it prior to submitting the applications.

Let me know what other information you need, and thanks,

Diane

From: Adkins, Laura L < Laura.L.Adkins@wv.gov>

Sent: Friday, August 2, 2019 4:27 PM

To: Diane White <dwhite@hgenergyllc.com>

Subject: RE: [External] McDonald 1211 Well Permit Applications

Diane,

It depends on where the freshwater and coal depths are, can you tell me where the fw and coal are and how far you want to run the casing?

From: Diane White <dwhite@hgenergyllc.com>

Sent: Friday, August 2, 2019 3:22 PM

To: Adkins, Laura L < Laura.L.Adkins@wv.gov>

Subject: [External] McDonald 1211 Well Permit Applications

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and are expecting the content. -- WV Office of Technology

Laura,

Good afternoon. I'm beginning to work on HG's 1211 well work applications. This pad is in close proximity to the 1209 and 1210 well pads. We anticipate drilling

conditions will be similar. Because of this, we'd like to submit the WW-6B's with the fresh water casing extending 76 feet below the coal seam.

Can you review this request and approve? Or do I need to submit something more formal with the permit application? I'm hoping to meet with Barry Stollings next week to review one of the well work applications.

Please advise, and thank you, Diane

Diane C. White



HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 304-420-1119 (O) 304-482-0108 (C) dwhite@hgenergyllc.com

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> > AUG 1 6 2019

WV Department of Environmental Protection



HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101

(304) 420-1100 - Office (304) 863-3172 - Fax

September 17, 2019

Ms. Laura Adkins WVDEP Division of Oil & Gas 601 57th Street Charleston, West Virginia 25304 RECEIVED Office of Oil and Gas

OCT 1 5 2019

WV Department of Environmental Protection

RE: McDonald 1211 N-5H Permit Revision – (47-041-05701)

Union District, Harrison County

West Virginia

Dear Ms. Adkins:

Per our discussions, enclosed are revised forms (survey plat, mylar, WW-6B, casing schematic and WW6A-1) for the McDonald 1211 N-5H well work pending application.

Based on production data for nearby producing wells in this field; the drilling/engineered plans are being revised to allow for greater distance between the laterals, (increased to 1500' from 1000'). The surface location of the well won't move, the only change to the well being modified is the lateral spacing being requested which impacts the TMD and lateral horizontal leg.

Please let me know if you have any questions or require additional information. I can be reached at (304) 420-1119 or dwhite@hgenergyllc.com.

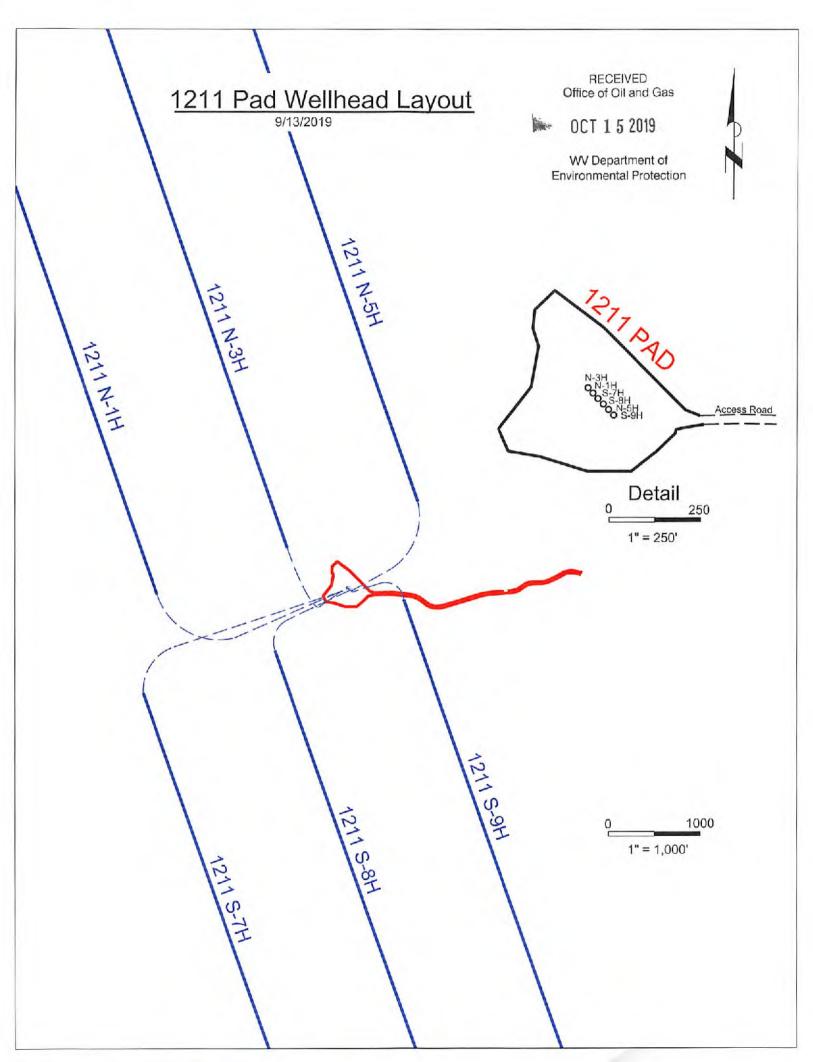
Very truly yours,

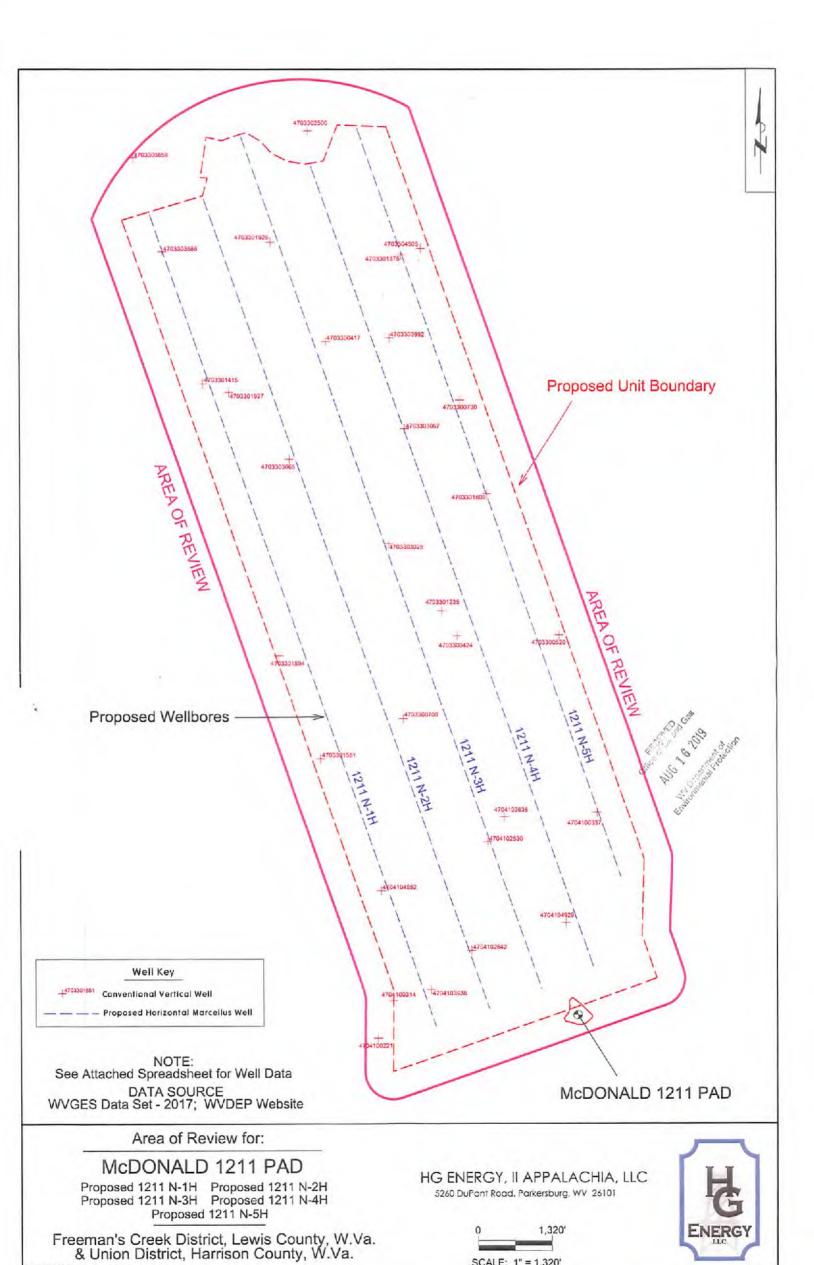
Diane White

Diane C. White

Enclosures

cc: Sam Ward - Inspector





SCALE: 1" = 1,320"

6/20/2019

				EXISTING WELLS LOCATED	WITHIN THE AREA OF REVIEW F	OR:			
			McDONAL	D 1211 NORTH UNIT AND PRO	POSED WELLS N-1H,	N-2H, N-3H, N	4H & N-5	Н	
г	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUI
0.5	4703300417	Harrison	Jeff Ashcraft	Dominion Energy Transmission, Inc.	Benson	Gas	4500	ACTIVE	39.1668

CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4703300417	Harrison	Jeff Ashcraft	Dominion Energy Transmission, Inc.	Benson	Gas	4500	ACTIVE	39.165811	-80.489914
2	4703300424	Harrison	W R Neely 1	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	2313	PLUGGED	39.152477	-80.481783
3	4703300520	Harrison	John C. Holden	Dominion Energy Transmission, Inc.	Benson	Gas	4548	ACTIVE	39.152497	-80,475373
4	4703300700	Harrison	A W Davis	Dominion Energy Transmission, Inc.	Benson	Gas	4370	ACTIVE	39,148430	-80.485215
5	4703300730	Harrison	Charles Lee Gray	Clowser Well Service, Inc.	Greenland Gap Fm	Gas	4600	ABANDONED	39.163923	-80.481492
6	4703300859	Harrison	Jesse B Knight	Dominion Energy Transmission, Inc.	Balltown	Gas	3948	ACTIVE	39.175834	-80.501963
7	4703301235	Harrison	Neely & Jackson	Dominion Energy Transmission, Inc.	Benson	Gas	4569	ACTIVE	39,153706	-80.482742
8	4703301375	Harrison	B Thrash	Dominion Energy Transmission, Inc.	Fifth	Gas	2490	ACTIVE	39.171006	-80.485142
9	4703301415	Harrison	D M Cole	Dominion Energy Transmission, Inc.	Bayard	Gas	2610	ACTIVE	39.154807	-80.497666
10	4703301551	Harrison	M Robinson	Dominion Energy Transmission, Inc.	Not Available	Storage		ACTIVE	39.146522	-80.490438
11	4703301594	Harrison	Donna Lee Davis	Dominion Energy Transmission, Inc.	Alexander	Gas	5025	ACTIVE	39.151573	-80.493012
12	4703301609	Harrison	Joe Perry	Dominion Energy Transmission, Inc.	Alexander	Gas	5024	ACTIVE	39,159365	-80.479840
13	4703301926	Harrison	Ernest A Rider	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4727	ACTIVE	39.171679	-80.493348
14	4703301927	Harrison	D M Cole	Dominion Energy Transmission, Inc.	Benson	Gas	4800	ACTIVE	39,164380	-80.496032
15	4703302500	Harrison	Arden Daughtery	Greylock Conventional, LLC	Greenland Gap Fm	Gas	4832	ACTIVE	39.177100	-80.490940
16	4703303025	Harrison	John Garrett 1	Dominion Energy Transmission, Inc.	Benson	Gas	4659	ACTIVE	39.156994	-80.486045
17	4703303065	Harrison	J Ashcraft	Dominion Energy Transmission, Inc.	Gantz	Storage	2236	PLUGGED	39.161097	-80.49224
18	4703303067	Harrison	R C McDonald	Dominion Energy Transmission, Inc.	Not Available	Not Available	×	PLUGGED	39.162549	-80.48498
19	4703303588	Harrison	G Dickinson etal 1	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4800	ACTIVE	39.171255	-80.500154
20	4703303992	Harrison	B F Thrash 2	Waco Oil & Gas Co., Inc.	Big Injun	Oil and Gas		ACTIVE	39.166966	-80.485898
21	4703304505	Harrison	Betty L Stephenson	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4977	ACTIVE	39.171322	-80.483894
22	4704100221	Lewis	F L Post 2	Dominion Energy Transmission, Inc.	Gantz	Storage	1970	ACTIVE	39.132930	-80.486946
23	4704100314	Lewis	F L Post	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2397	ACTIVE	39.134769	-80.485998
24	4704100314	Lewis	F L Post	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2397	ACTIVE	39.134769	-80.485998
25	4704100337	Lewis	Guinn Minter 1	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2284	ACTIVE	39.143845	-80.473046
26	4704102530	Lewis	Robert Gene Burnside	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4465	ACTIVE	39.142465	-80.479953
27	4704102638	Lewis	L W Davis	Dominion Energy Transmission, Inc.	Not Available	Not Available		ACTIVE	39.143653	-80.478908
28	4704102642	Lewis	J L Post	Dominion Energy Transmission, Inc.	Not Available	Not Available	8.1	ACTIVE	39.137167	-80.481036
29	4704103938	Lewis	Robert Brincefield	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4402	ACTIVE	39.135302	-80.483575
30	4704103938	Lewis	Robert Brincefield	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4402	ACTIVE	39.13442	-80.48533
31	4704104552	Lewis	Robert E Brincefield	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4677	ACTIVE	39.140103	-80.486672
32	4704104929	Lewis	Robert Brincefield	Dominion Energy Transmission, (nc.	Misc Sands-BNSN/BRLR	Gas	4606	ACTIVE	39.138488	-80.475080
33	4704104939	Lewis	Robert/Terry Brincefield	Dominion Energy Transmission, Inc.	Misc Sands-BNSN/BRLR	Gas	4658	ACTIVE	39.130854	-80.478988
	A 11			100° -4		7.5				
		THE COURSE OF STREET		AND FIELD SURVEYS		S WELL WITH TVD > 4,50		200000000	NOTES SURVEYED	A Company of the Comp



August 5, 2019

Waco Oil and Gas Company 1595 US Highway 33 E Glenville, WV 26351

RE:

Area of Review – McDonald 1211 Well Pad (N-1H to N-5H)

Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, has developed a Marcellus pad (McDonald 1211 pad) located in Lewis County, WV. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7050' TVD) and existing conventional natural gas wells.

HG Energy anticipates conducting hydraulic fracturing of the Nutter 1208 Pad during the fourth quarter of 2019. We have identified conventional natural gas wells operated by your company within 500' of one of the newly planned laterals (Nutter 1208 N-1H). A plat for the well is attached.

We recommend conventional well operators conduct the following activities before, during and after the fracturing operation.

1. Inspect surface equipment prior to fracturing to establish integrity and well conditions.

Observe wells closely during and after fracturing and monitor for abnormal increases in gas, water or pressure.

3. Inspect or install master valves rated at 3,000 psi or other necessary equipment for wellhead integrity.

 Notify the OOG and HG Energy if any changes in water, gas production, pressure or other anomalies are identified.

Should you have any questions or desire further information, please contact me at 304-420-1119 or dwhite@hgenergyllc.com. You may also contact the WV Office of Oil and Gas at 304-926-0444.

Sincerely,

Diane White

Enclosure





August 5, 2019

Greylock Conventional, LLC 500 Corporate Landing Charleston, WV 25304

RE:

Area of Review - McDonald 1211 Well Pad (N-1H to N-5H)

Hydraulic Fracturing Notice

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- 3. Inspect or install master valves rated at 3,000 psi or other necessary equipment for wellhead integrity.
- 4. Notify the OOG and HG Energy if any changes in water, gas production, pressure or other anomalies are identified.

Should you have any questions or desire further information, please contact me at 304-420-1119 or dwhite@hgenergyllc.com. You may also contact the WV Office of Oil and Gas at 304-926-0444.

Sincerely,

Diane White

Enclosure

Office of Divard Gas
AUG 16 2019

Environmental Frolection



August 5, 2019

Clowser Well Service, Inc 805 Charlie Brown Road Salem, WV 26426

RE:

Area of Review - McDonald 1211 Well Pad (N-1H to N-5H)

Hydraulic Fracturing Notice

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Sincerely,

Diane White

Enclosure





August 5, 2019

Dominion Energy Transmission Attn: Charles Cunningham 2397 Davisson Run Road Clarksburg, WV 26301

RE:

Area of Review - McDonald 1211 Well Pad (N-1H to N-5H)

Hydraulic Fracturing Notice

Dear Sir:

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- 3. Inspect or install master valves rated at 3,000 psi or other necessary equipment for wellhead integrity.
- Notify the OOG and HG Energy if any changes in water, gas production, pressure or other anomalies are identified.

Should you have any questions or desire further information, please contact me at 304-420-1119 or dwhite@hgenergyllc.com. You may also contact the WV Office of Oil and Gas at 304-926-0444.

Sincerely.

Diane White

Enclosure

Office of Cil and Gas AUG 1 6 2019

Environmental Protection

API Number 47	•	÷
Operati	or'e Wall No	Mathematic street Ni cui

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

TEOIDS/ COTTINGS DISTOSAE & RECEANIA	THON TEAN
	DP Code 494501907
Watershed (HUC 10) Middle West Fork Creek Quadrangle West Fork Creek	est Milford 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well	work? Yes V No 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 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	on)
Other (Explain	
Will closed loop system be used? If so, describe: Yes, cuttings and fluids will be collected in a closed loop	op system, re-used or hauled to an approved disposal site or landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, or	
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Water, Soap, KCl, Barite, Base Oil, Wetting Agen	nts
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Approved	d 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 West Virginia solid waste facility. The notice shall be provided within 24 hours of rewhere it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GEN on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of provisions of the permit are enforceable by law. Violations of any term or conditional law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am far application form and all attachments thereto and that, based on my inquiry of obtaining the information, I believe that the information is true, accurate, and copenalties for submitting false information, including the possibility of fine or imprison	Environmental Protection. I understand that the on of the general permit and/or other applicable familiar with the information submitted on this those individuals immediately responsible for emplete. I am aware that there are significant
Company Official Signature Diane White	AUG 1 6 2019
Company Official (Typed Name) Diane White	WEN 24 27030
Company Official Title Agent	WV Desartment of Environmental Fratection
	120
Subscribed and sworn before me this 5th day of August	, 20 19 OFFCALSEAL
La	Notary Public Notary Public NOTARY PUBLIC STATE OF WEST WARGINA MARK J SCHALL H G Energy LLC PO Box 5519, Vienns, WV 20105

	4	7	0	4	1	0	5	7	0	4
Operator's We	11 N	lo.	McD	ona	ld 1:	211	N-5	Н		

Proposed Revegeration Treat	ment: Acres Disturbed 2	Prevegetation pl	
Lime	3 Tons/acre or to corre	ect to pH 6.5	
Fertilizer type10	-20-20		
Fertilizer amount	5	500 lbs/acre	
Mulch_ Hay		2 Tons/acre	
		Seed Mixtures	
Te	mporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Attach: Maps(s) of road, location, pit provided). If water from the paceage, of the land application	and proposed area for lar pit will be land applied, in on area.	rilling and completion process and application (unless engineered plans include dimensions (L x W x D) of the pit, and t.	
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involve Plan Approved by: Comments: Pre-seed/	and proposed area for lar pit will be land applied, in on area. ved 7.5' topographic sheet	nd application (unless engineered plans included include dimensions (L x W x D) of the pit, and t.	dimensions (L x W), and
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SYSTEM WILL BE UTILIZED TO HANDLE DRILL CUTTINGS.

. DRAWING NOT TO SCALE.

Cuttings Disposal/Site Water

Cuttings -Haul off Company:

Eap Industries, Inc. DOT # 0876278 1875 Smith Two State Rd. Atlasburg, PA 15004 1-888-294-5227

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

Environmental Coordination Services & Recycling (ECS&R) 8297 US Highway 19 Cochranton, PA 16914 814-425-7778

Disposal Locations:

Apex Environnemental, LLC Permit # 06-08488 11 County Road 78 Amsterdam, OH 48908 740-548-4889

Westmoreland Waste, LLC Permit # 1.00277 111 Conner Lane Belle Vernon, PA 15012 724-929-7694

Sycamore Landfill Inc. Permit #R80-078001 05-2010 4301 Sycamore Ridge Road Hurricane, WV 25526 904-562-2611

Max Environnemental Technologies, Inc. Facility Permit # PAD004895146 / 901071, 233 Max Lane
Yukon, PA 25968
724-722-3500

Max Environnemental Technologies, Inc. Facility Permit # PADD5087072 / 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 Lana Washington, PA 15301 724-222-3272

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

Brooks County Landfill Permit # SWF-108-97 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 804-748-0014 RECEIVED Office of Oil and Gas

AUG 16 2019

WV Department of Environmental Protection Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 158A New Martinsville, WV 26035 804-455-3800

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

Energy Solutions Services, Inc. Permit # R-79006-L24 1560 Bear Creak Road Oak Ridge, TN 97830

Northern A-1 Environnemental Services Permit ID MID020906814 2947 US 181 North, PO Box 1080 (alkaska, MI 49646 281-258-9961

Water Haul off Companies:

Dynamic Structures, Clear Creek DOT # 720485 8790 State Route 7 New Waterford, OH 44445 880-892-0164

Nabors Completion & Production Services Go. PO Box 976682 Dallas, TX 75397-5682

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

Nuverra Environmental Solutions 1.1942 Veterans Memorial Highway Mesontown, WV 26542

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

Wilson's Outdoor Services, LLC 456 Cracraft Road Washington, PA 15801

Disposal Locations:

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

Solidification/Incineration
Soil Remediation, Inc. Permit # 02-20758
6065 Arrel-Smith Road
Lowelville, OH 44486
880-586-6825

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 Ollfleid Serv 301 Commerce Drive Moorestown, NJ 08057

Force, Inc. 1350 Rts. 286 Hwy. E, Sulte 303 Indiana, PA 15701

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

Equipment Transport 1 Tyler Court Carlisle, PA 17015

Myers Well Service, ___ 2001 Ballpark Court Export, PA 15682

Burns Drilling & Excavating 618 Crabapple Road P.O. Bos Wind Ridge, PA 15880

Nichlos 1-A (SWIW #18) Permit # 3862 800 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-829-7275

Grosella (SWIW #34) Permit # 4096 Rt. 88 Garrettsvilla, OH 718-275-4818

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 48767 614-648-8898 740-786-6495 Adams #2 (Buckeye Brine, LLC) 2205 Westover Road Austin TX 78708 Permit # 34-081-2-7178 740-575-4484 512-478-6545

Adams #3 (Buckeye Brine, LLC) Permit #84-031-2-7241-00-00 2680 Exposition, Suite 117 Austin, TX 78703 612-478-6545

Mazena #1 Well (SWIW # 18)
Permit # 84-157-2-5511-00-00
5867 E. State Street
Newcomerstown, OH 49832
740-769-3966

Goff SWD #1 (SWIW # 27) Permit # 84-119-2-8776-000 800 Cherrington Pkwy, Suite 200 Corappolis, PA 15108 412-829-7275

SOS D#1 (SWIW #12)
Permit # 84-059-2-4202-00-00
Silcor Olifield Services, Inc.
2988 Hubbard Road
Youngstown, PH 44505

Dudley #1 UIC (SWIW #1) Permit # 34-121-2-2459-00-00 Select Energy Services, LLC 7994 S. Pleasants Hwy St. Marys, WV 26170 304-665-2652 OH UIC #1 Bu keye UIC Barnesville 1 & 2 CNX Gas Con. #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 804-828-6568

Chapin #7 UIC (SWIW #7) Permit # 84-083-2-4197-00-00 Elkhead Gas& Oil Company 12168 Marne Rd. NE Newark, OH 48055 740-768-8966

HG Energy II Appalachia, LLC

Site Safety Plan

McDonald 1211 Well Pad 636 Hollick Run Rd Jane Lew Lewis County, WV 26378

August 2019: Version 1

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

HG Energy II Appalachia, LLC

5260 Dupont Road

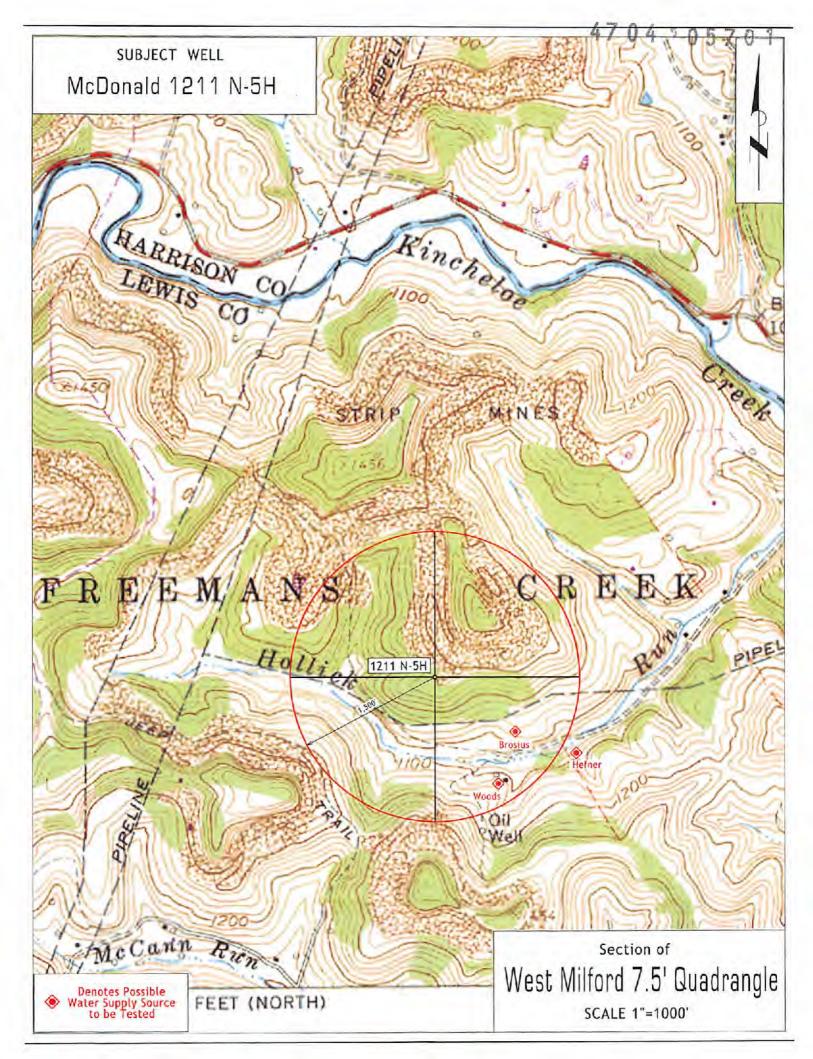
Parkersburg, WV 26101

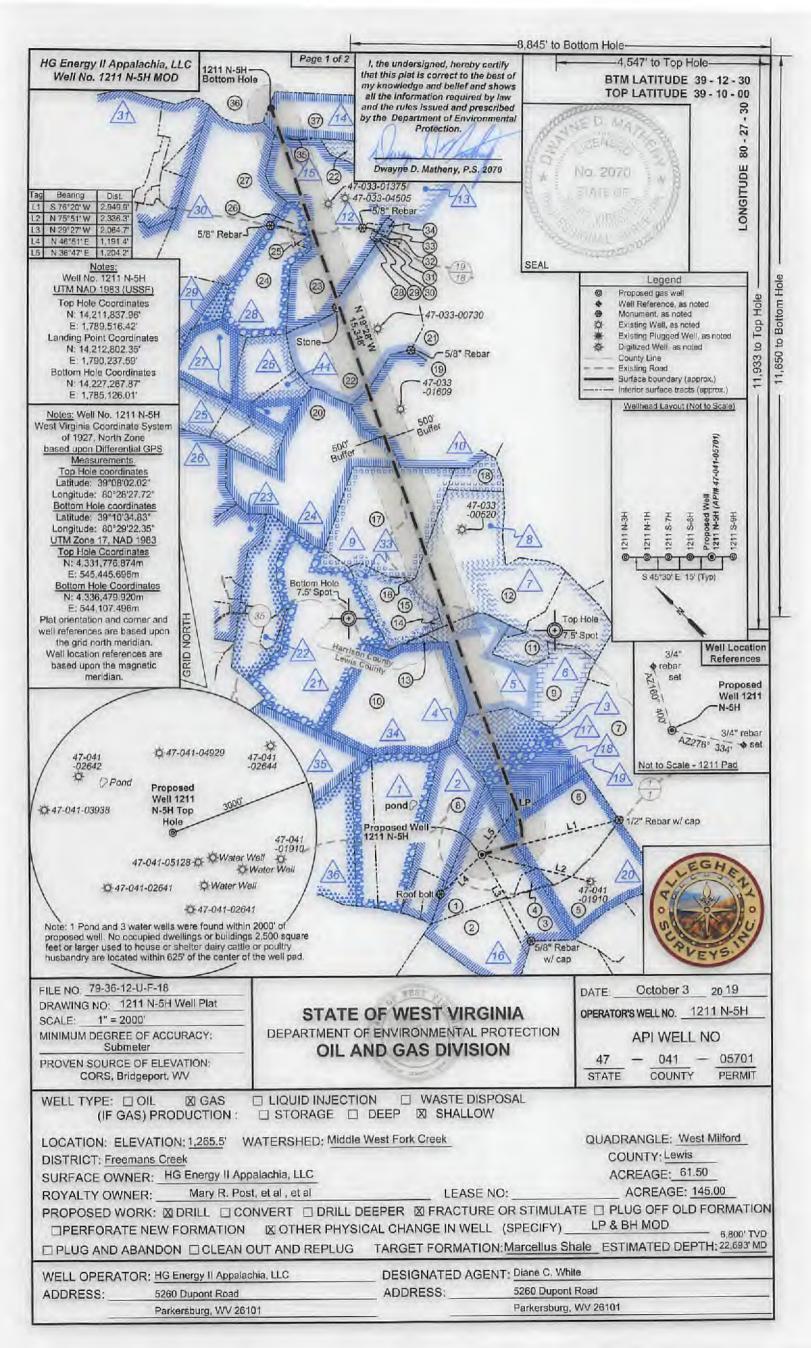
RECEIVED
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AUG 1 6 2019

WV Department of Environmental Protection

Dany Shorp 8-12-19







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22	Mary Robinson, et al
23	C.C. Ash
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25	Worthy R. Lowman
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Ì	9	7B / 1	Mary Lou Curry	681 / 626	98.12
_	10	6B / 40	Robert G. & Leah V. Burnside	660 / 388	126.50
	11	444 / 15	Marjorie Neely	830 / 349	53.46
1	12	443 / 15	John C. & Donna R. Holden	1581 / 551	127.94
	13	443 / 29.3	Ruth Burnside	1268 / 1168	1.426
	14	443 / 29.1	Laurie D. & Marion D. Watts Jr.	1462 / 1312	0.70
	15	443 / 29	Danny L. & Rebecca A. Stickel	1258 / 1130	39.01
	16	443 / 29.2	Steve L. & Nadine J. Villers	1226 / 203	0.21
	17	443 / 14	Steve L. & Nadine J. Villers	1180 / 529	102.03
1	18	443 / 16	Elizabeth Ann Summerfield	1548 / 263	11.92
Ì	19	423 / 28	Christopher M. Gillespie, et al	1479 / 475	88.00
1	20	423 / 27	James C. Garrett	1412 / 891	128.82
	21	423 / 8	James McDonald	1570 / 597	176.00
2	22	423 / 7	K. Wade & Mary M. Dickinson	1275 / 942	197.98
200	23	423 / 6	K. Wade & Mary M. Dickinson	1275 / 492	127.39
natilisali codilis	24	423 / 20	Jefferson Lambert & Linda J. Ashcraft	1320 / 409	56.47
2	25	423 / 20.2	Edward W. & Leeann Gump	1320 / 404	1.93
0	26	423 / 20.1	Edward W. & Leeann Gump	1428/1200	7.54
	27	423/5	Ernest Aubrey Rider	1136 / 136	137.48
	28	423 / 6.1	Ronald L. & Susan D. Cochran	1588 / 403	0.34
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	30	423 / 7.5	Ronald L. & Susan D. Cochran	1588 / 403	0.30
N	31	423 / 7.2	Jason Murphy	1386 / 378	0.38
	32	423 / 7.3	Ronald L. & Susan D. Cochran	1588 / 403	0.26
1	33	423 / 7.8	Gary Leonard & Roberta L. Gray	1268 / 729	1.52
	34	423 / 7.6	Gary Leonard & Roberta L. Gray	1244 / 1218	1.00
	35	403 / 26	Anthony G. Queen Estates	1320 / 223	1.03
	36	403/25	Carol Daugherty Skidmore	WB145/359	201.0
	37	403 / 27	Mary V. Gabriel	WB146/481	63.00

FILE NO: 79-36-12-U-F-18

DRAWING NO: 1211 N-5H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: October 3 20 19

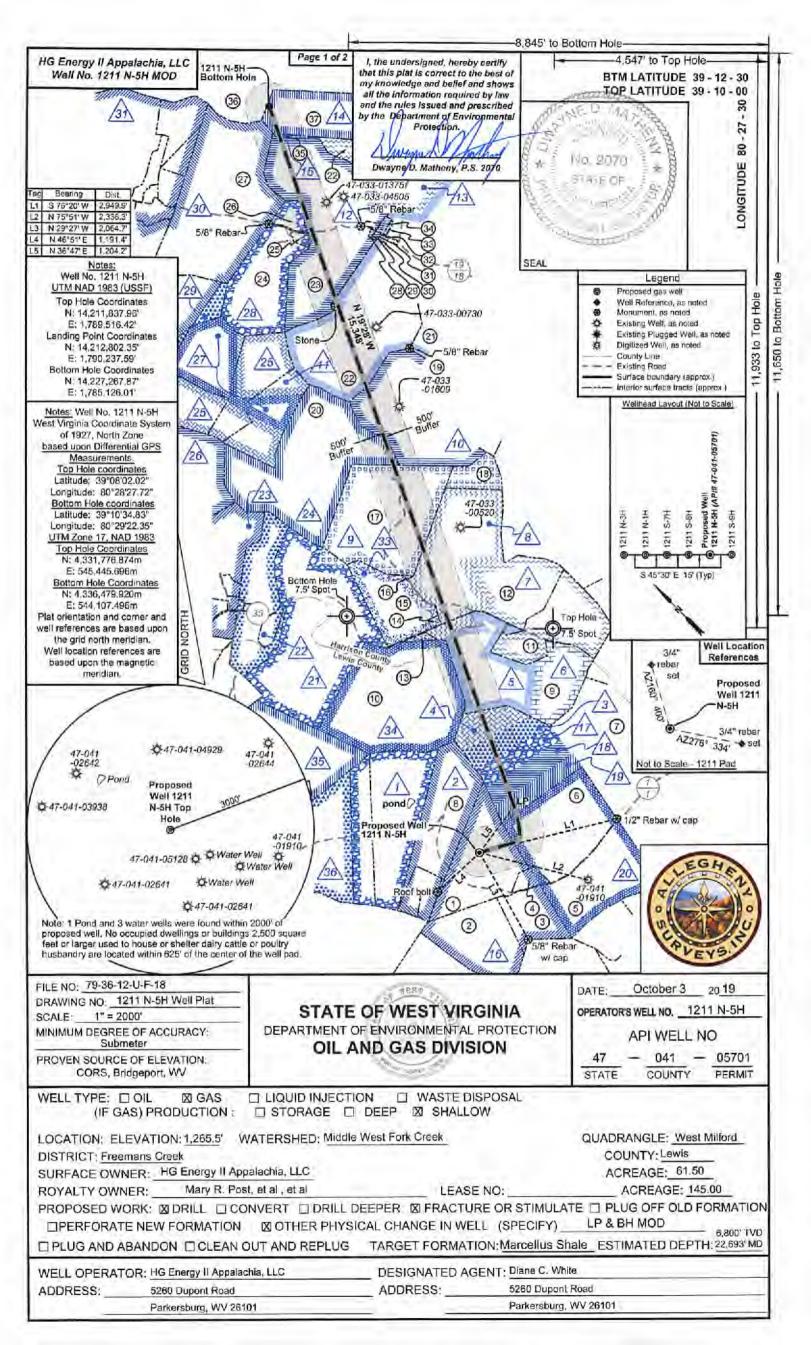
OPERATOR'S WELL NO. 1211 N-5H

API WELL NO

47 — 041 — 05701

STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☐ GAS ☐ LIQUID INJECTIO (IF GAS) PRODUCTION : ☐ STORAGE ☐	N □ WASTE DISPOS DEEP ☒ SHALLOW	AL
LOCATION: ELEVATION: 1,265.5' WATERSHED: Middle V DISTRICT: Freemans Creek SURFACE OWNER: HG Energy II Appalachia, LLC ROYALTY OWNER: Mary R. Post, et al , et al PROPOSED WORK: DRILL CONVERT DRILL DE PERFORATE NEW FORMATION OTHER PHYSIC PLUG AND ABANDON CLEAN OUT AND REPLUG	LEASE NO: EEPER IX FRACTURE OF CAL CHANGE IN WELL (S	R STIMULATE PLUG OFF OLD FORMATION PECIFY) LP & BH MOD 6,800' TVD
WELL OPERATOR: HG Energy II Appalachia, LLC ADDRESS: 5260 Dupont Road Parkersburg, WV 26101	_ DESIGNATED AGENT: _ ADDRESS:	Diane C. White 5260 Dupont Road Parkersburg, WV 26101





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DRAWING NO: 1211 N-5H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
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PROVEN SOURCE OF ELEVATION:

CORS, Bridgeport, WV

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

DATE: October 3 20 19

OPERATOR'S WELL NO. 1211 N-5H

API WELL NO

47 — 041 — 05701

STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☑ GAS ☐ LIQUID INJECTION (IF GAS) PRODUCTION : ☐ STORAGE ☐	. 10 4 C 1 1 7 4 1. LL 17 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
LOCATION: ELEVATION: 1,265.5' WATERSHED: Middle V DISTRICT: Freemans Creek SURFACE OWNER: HG Energy II Appalachia, LLC	West Fork Creek	QUADRANGLE: West Milford COUNTY: Lewis ACREAGE: 61.50
ROYALTY OWNER: Mary R. Post, et al , et al	LEASE NO:	and the second of the second o
PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DE ☐ PERFORATE NEW FORMATION ☑ OTHER PHYSIC	EEPER STRACTURE OR STIMUL	ATE ☐ PLUG OFF OLD FORMATION
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG	TARGET FORMATION: Marcellus S	Shale_ESTIMATED DEPTH: 22,693' MD
WELL OPERATOR: HG Energy II Appalachia, LLC	DESIGNATED AGENT: Diane C. W.	hite
ADDRESS: 5260 Dupont Road	ADDRESS: 5260 Dupo	
Parkersburg, WV 26101	Parkersbur	g, WV 26101

WW-6A1 (5/13)

Operator's Well No. McDonald 1211 N-5H

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

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

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

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

** See Attached Sheets **

RECEIVED
Office of Oil and Gas

OCT 1 5 2019

WV Department of Environmental Protection

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

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

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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

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

4704105701

OCT 1 5 2019

HC Francis II Annalashia II C	WV Department of	
HG Energy II Appalachia, LLC		
4844 N. THE LEASE SHAIR	Environmental Protection	
1211 N - 5H LEASE CHAIN	100000	

TRACT#	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAG
	1			MARY E. POST; J. L. POST; F. L. POST AND B. J. POST, HIS WIFE; IDA B.			1	
				GASTON AND CLARK GASTON, HER HUSBAND; G. W. POST AND FLAVA			1	
				POST, HIS WIFE	RESERVE GAS COMPANY	NOT LESS THAN 1/8	68	29
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	20
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	8
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	17
	16 FK053254 03-007B-0011-00 03-007B-0013-00			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE		
		03-007B-0010-0000		DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	ASSIGNMENT		13
16		03-007B-0011-0000	Q10048600	DOMINION EXPLORATION & PRODUCTION, INC.	DOMINION TRANSMISSION, INC.	ASSIGNMENT		13
		03-007B-0013-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT		15
		p/o 03-007B-0010-0001		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	· · · · · ·	5
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)		84
	1			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT		
	1			NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT		13
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	723	
]					SECOND AMENDMENT TO MEMORANDUM OF	į l	
	İ			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	49
			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	723	52	
		-					LEWIS 227	17
	1			GUINN MINTER AND JANE MINTER, HIS WIFE	RESERVE GAS COMPANY	NOT LESS THAN 1/8	HARRISON 174	20
							LEWIS 155	20
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	HARRISON 508	57
							LEWIS 294	8
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	HARRISON 903	17
							LEWIS 425	12
		20-0443-0029-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	HARRISON 1136	25
		20-0443-0029-0001		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
		20-0443-0029-0003		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		20-0444-0002-0000					LEWIS 672	15
		20-0444-0001-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	HARRISON 1522	3
	54400000	20-0444-0024-0000	0101030000			FIRST AMENDMENT TO MEMORANDUM		
20	FK108080	20-00444-0025-0000	Q101020000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	HARRISON 1524	49
		p/o 03-007B-0001-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	LEWIS 684	5
		p/o 03-007B-0001-0000					LEWIS 712	84
		p/o 20-0443-0015-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	HARRISON 1576	12
		p/o 20-0443-0016-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	LEWIS 717	
		p/o 20-0443-0015-0000					LEWIS 722	13
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	HARRISON 1600	66
			1	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	HARRISON 1600	69
			[DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
					HIG FAIFDCY II ADDALACINA 11:5	AAACAIDED AND DECTATED BARTIAL ACCIONATION	15146 333	-
			1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	LEWIS 723 LEWIS 723	57
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	HARRISON 1601	5
	 			JAMES M. BEEGHLEY AND ETTA BEEGHLEY, HIS WIFE	RESERVE GAS COMPANY	NOT LESS THAN 1/8	68	

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	, , , , , , , , , , , , , , , , , , ,	OCT 1 5 2019		RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	20			
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294				
		LAN Congression of		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	12			
		WV Department of	•	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos				
		Environmental Protection	•	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos				
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	15			
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684				
19	FK053257	All or p/o	Q101026000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	84			
	1	03-007B-0008-0000	HGII139	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717				
		1		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	CORRECTIVE ASSIGNMENT	725	7			
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	1			
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	1			
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	723	52			
		1				SECOND AMENDMENT TO MEMORANDUM OF					
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	49			
	 	1		ARTHUR D. BEEGHLEY AND ETTA M. BEEGHLEY, HIS WIFE; MARY B.							
			WIMER AND A. L. WIMER, HER HUSBAND; GERTRUDE SMITH AND								
				HOMER W. SMITH, HER HUSBAND; H. E. BEEGHLEY AND RENNA							
				BEEGHLEY, HIS WIFE; AND EARL BEEGHLEY AND FLORA BEEGHLEY, HIS							
				WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	219	9			
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294				
		1		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425				
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos				
		1		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS				
18 FK064207	03-007B-0007-0000	Q100296000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	1				
						HGII141	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
		1		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	8			
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	CORRECTIVE ASSIGNMENT	725	7			
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	1			
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722				
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	723				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF	723	4			
				ARTHUR D. BEEGHLEY AND ETTA M. BEEGHLEY, HIS WIFE; MARY B.	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	219	4			
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294				
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	1			
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos				
		1		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos				
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	1			
17	FK064208	02-0078-0006-0000	Q100594000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684				
17	FR004206	03-007B-0006-0000	HGII140	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	_			
		1		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				
	ļ			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	723				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF	723				
	1			ROSA L. BROWN AND WADE H. BROWN, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	224				
	1			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294				
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	3			
	1			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos				
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos				
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672				

,	, ,	i	1	CHIN CAC COLADANIVILG	NODI E ENEDOV INC	LIMITED DADTIAL ACCIGNMENT (COO)	684	
3				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	712	8
	FK064839	p/o 03-007B-0005-000	Q100982000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)		
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717 725	
	}			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	CORRECTIVE ASSIGNMENT AND BILL OF SALE	723	7
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT		1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722 WVSOS	
1)				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE		5
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF AMENDED AND RESTATED PARTIAL ASSIGNMENT	723 723	4
				DOMINION ENERGY TRANSMISSION, INC.		NOT LESS THAN 1/8	224	2
				CORA B. ALLMAN AND S. M. ALLMAN, HER HUSBAND	HOPE NATURAL GAS COMPANY		294	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED ASSIGNMENT	425	1
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION		WVSOS	•
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE		1
1				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684 712	8
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	717	
4	FK064848	p/o 03-007B-0023-000	Q1100599000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT		
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	1
1						AAED CED (NAMAE CHANCE	W/1505	
1		RECEIVED		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
1	Offic	e of Oil and Gas				SECOND AMENDMENT TO MEMORANDUM OF	722	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	5
	ا ا	T 1 F 2010				ANACHINGO AND DESTATED DARTIAL ASSISTANTAL	777	
	F UW	T 1 5 2019		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	723	4
i 1	Į į					NOT 1 555 TUAN 4 10	LEWIS 227	1
	1 1	/ Department of		GUINN MINTER AND JANE MINTER, HIS WIFE	RESERVE GAS COMPANY	NOT LESS THAN 1/8	HARRISON 174	2
			i		LIGHT MATURAL CAS COMPANY	CONCIDENTATION DEED	LEWIS 155 HARRISON 508	5
	Eliviro	nmental Protection		RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	LEWIS 294	
					CONCOUR ATER CAS SURRILY CORRORATION	CONFIDNATORY DEED	HARRISON 903	1
,				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	LEWIS 425	1
				CONTOUR ATER CAS SUPPLIA CORPORATION	CONICOLIDATED CAS TRANSAUSSION CORRORATION	ACCIGNIAGNIT	HARRISON 1136	2
1			1	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	WVSOS	
1		20-0443-0029-0000	1	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE MERGER/NAME CHANGE	WVSOS	
,		20-0443-0029-0001		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	IMERGERYNAINE CHANGE	LEWIS 672	1
		20-0443-0029-0003		DOLANGON TRANSPORTERISCION INC	CALV. CAS COMADANIVILIS	MEMORANDUM FARMOUT AGREEMENT	HARRISON 1522	•
'		20-0444-0002-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM	TIARRISON 1322	-
		20-0444-0001-0000		DONAINUON TRANSMISSION INC	CALV CAS COMADANIVILIC	FARMOUT AGREEMENT	HARRISON 1524	4
5	FK108080	20-0444-0024-0000	Q101020000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	PARIVIOUI AGREEMENT	LEWIS 684	
1		20-00444-0025-0000		CNIV GAS COMPANIVITC	NORI E ENERGY INC	LIMITED PARTIAL ASSIGNMENT (50%)	HARRISON 1543	12
1		p/o 03-007B-0001-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ENABLES LAWING WOOD GRANTAL (2019)	LEWIS 712	8
1		p/o 03-007B-0001-0000		DOMINION TRANSMISSION INC	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	HARRISON 1576	1
()		p/o 20-0443-0015-0000		DOMINION TRANSMISSION, INC.	CON DAS CONTAINT LLC AND NOBLE ENERGY, INC.	I ANTINE ASSIGNMENT (SEA)	LEWIS 717	
1 1		p/o 20-0443-0016-0000		CNIV GAS COMPANIVITE	NOBLE ENERGY, INC.	ASSIGNMENT	HARRISON 1584	9
1		p/o 20-0443-0015-0000		CNX GAS COMPANY LLC	INODEE ENERGY, INC.	no didiniciti	LEWIS 722	
	[MODI E ENEDGY INC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	HARRISON 1600	6
!				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	HARRISON 1600	6
				NOBLE ENERGY, INC.	ING ENERGY II AFFALACHIA, LLC	POSICIAINE		
					DOMAINION ENERGY TRANSMISSION INC	MERGER/NAME CHANGE	l s∪svvv	
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
				DOMINION TRANSMISSION, INC.				
					DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	LEWIS 723	5
				DOMINION TRANSMISSION, INC.				

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1		, 'OCT 1520	113			T	1	
		WV Department of Environmental Protection		EDWARD G. SMITH AND JESSIE B. SMITH	RESERVE GAS COMPANY	FEE CONVEYANCE	77	264
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	FEE CONVEYANCE	508	573
			Q100381000	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPERATION	MERGER/NAME CHANGE	903	179
				CONSOLIDATED GAS SUPPLY CORPERATION	CONSOLIDATED GAS TRANSMISSION CORPERATION	ASSIGNMENT	1136	250
7	FK052898	20-0443-0015-0000 20-0444-0015-0000		CONSOLIDATED GAS TRANSMISSION CORPERATION	CNG GAS TRANSMISSION CORPERATION	MERGER/NAME CHANGE	51	799
				CNG GAS TRANSMISSION CORPERATION	DOMINION TRANSMISSION, INC	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC	CNX GAS COMPANY, LLC	FARMOUT AGREEMENT	1522	33
				DOMINION TRANSMISSION, INC	CNX GAS COMPANY, LLC	AMENDMENT TO FARMOUT AGREEMENT	1524	491
				CNX GAS COMPANY, LLC	NOBLE ENERGY, INC	LIMITED PARTIAL ASSIGNMENT OF FARMOUT	1543	1235
				CNX GAS COMPANY, LLC	NOBLE ENERGY, INC	ASSIGNMENT	1584	942
		i		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
			FK052752 FEE	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY, LLC AND NOBLE ENERGY, INC	NOT LESS THAN 1/8	HARRISON 1601 LEWIS 692	563 570
	ŀ			DOMINION HUMONION INC.	Sittle Grand Collin Party Economic House Emerically life	11-4- ALOO 110 111 M/O	HARRISON 1522	33
	1 1			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	LEWIS 672	154
		20-0443-0015-0000		DOMINION TRANSMISSION INC	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		20-0444-0016-0000				SECOND AMENDMENT TO MEMORANDUM OF	HARRISON 1601	581
	ŀ	20-0444-0017-0000 20-0444-0018-0000 20-0444-0018-0001 p/o 03-0007-0001-0000 04-0078-0001-0000 20-0443-0014-0000 20-0443-0016-0000 p/o 20-0443-0028-0000		DOMINION ENERGY TRANSMISSION INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	LEWIS 723	257
8	FK052752						HARRISON 1584	942
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT AND BILL OF SALE	LEWIS 717	1
					·		HARRISON 1600	660
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT, BILL OF SALE AND CONVEYANCE	LEWIS 722	139
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FEE CONVEYANCE	1627	1254
						THIRD AMENDMENT TO MEMORANDUM OF	HARRISON 1621	1295
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	LEWIS 734	558
				J. H. NEELY ANDCLAUDIE NEELY, HIS WIFE (1/2)	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	732	315
				WM. A. JACKSON (1/2)	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	769	40
				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	wvsos	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
					CONSOL ENERGY HOLDINGS LLC VI, CONSOL ENERGY HOLDINGS LLC XVI, CONSOL GAS COMPANY LLC, CNX GAS			
				DOMINION TRANSMISSION, INC.	COMPANY LLC	MERGER/NAME CHANGE	1472	294
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33
9				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 AND BILL OF SALE	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT, BILL OF SALE AND CONVEYANCE	1600	660
					HG ENERGY II APPALACHIA, LLC	ASSIGNMENT, BILL OF SALE AND CONVEYANCE	1600	692
				NOBLE ENERGY, INC.				092
				DOMINION TRANSMISSION INC	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF	wvsos	
				DOMINION ENERGY TRANSMISSION INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
·				C.M. GARRETT AND DELPHIA GARRETT, HIS WIFE; CHARLES M. GARRETT, JR. AND HILDA GARRETT, HIS WIFE; JOSEPH R. GARRETT	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	727	333

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				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
		N Department of conmental Protection		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
24	FK064358	20-423-0027-0000	Q100857000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%) ASSIGNMENT AND BILL OF SALE	1576 1584	125 942
1				CNA GAS CONFANT LLC	NOBLE ENERGY, INC.	ASSIGNMENT AND DIECOT SALE	1504	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT, BILL OF SALE AND CONVEYANCE SECOND AMENDMENT TO MEMORANDUM OF	1600	660
				DOMINION ENERGY TRANSMISSION INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
				R. C. MCDONALD AND M. B. MCDONALD, HIS WIFE; AND A. M.				
1				MCDONALD AND LYDIA D. MCDONALD, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	237 271	89
				HOPE NATURAL GAS COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	508	388 573
1				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	903	179
		1		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED		250
		1		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
			*	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS 1522	
10	FK052942	20-0423-0028-0000	Q100477000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	1235
1				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%) PARTIAL ASSIGNMENT (32%)	1576	125
				DOMINION TRANSMISSION INC	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT AND BILL OF SALE	1584	942
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC	ASSIGNMENT AND BILL OF SALE	1600	660
				NOBLE ENERGY, INC.		ASSIGNMENT AND BILL OF SALE	1600	692
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	032
!				DOMINION TRANSMISSION INC DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
		-		R C MCDONALD, M.B. MCDONALD; A.M. MCDONALD AND LYDIA				
		[MCDONALDET AL	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	237	94
1				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPERATION	MERGER/NAME CHANGE	903	
				CONSOLIDATED GAS SUPPLY CORPERATION	CONSOLIDATED GAS TRANSMISSION CORPERATION	ASSIGNMENT	1136	
				CONSOLIDATED GAS TRANSMISSION CORPERATION	CNG GAS TRANSMISSION CORPERATION	MERGER/NAME CHANGE	51	
				CNG GAS TRANSMISSION CORPERATION	DOMINION TRANSMISSION, INC	MERGER/NAME CHANGE	58	362
		17-20-0423-0008-0000, 17-		DOMINION TRANSMISSION, INC	CNX GAS COMPANY, LLC	FARMOUT AGREEMENT	1522	
11	FK026553	20-0423-0007-0000	Q100462000	CNX GAS COMPANY, LLC	NOBLE ENERGY, INC	LIMITED PARTIAL ASSIGNMENT	1543	1235
				CNX GAS COMPANY, LLC	NOBLE ENERGY, INC	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT AND BILL OF SALE	1600	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT AND BILL OF SALE	1600	
[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	
				B. F. THRASH AND M. E. THRASH, HIS WIE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	183	298
1				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
İ				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	

OCT 1 5 2019

MAY Department of

		WV Department	of					
1	1	Environmental Prote	ction	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	ASSIGNMENT	1374	110
				DOMINION EXPLORATION & PRODUCTION, INC.	DOMINION TRANSMISSION, INC.	ASSIGNMENT	1457	978
				DOMINION TRANSMISSION INC	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT (WELL #6597)	1458	299
		20-0423-0006-0000		CONSOL ENERGY HOLDINGS LLC XVI	CONSOL GAS COMPANY	MERGER/NAME CHANGE	59	1019
42	54014710	20-0423-0006-0001	Q101152000	CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	1472	294
12	FK014710	p/o 20-0423-0007-0000	Q101152000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33
		p/o 20-0423-0008-0000	1			FIRST AMENDMENT TO MEMORANDUM		
			1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	491
		[]	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
	·		1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
			ļ	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT AND BILL OF SALE	1584	942
			ŀ					
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA LLC	ASSIGNMENT, BILL OF SALE AND CONVEYANCE	1600	660
						SECOND AMENDMENT TO MEMORANDUM OF		
<u> </u>				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA LLC	FARMOUT AGREEMENT	1601	581
				WILLIAM GASTON ANDSUE GASTON, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	113	439
			i	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
				PENNZOIL COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	ASSIGNMENT	1126	2
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
1				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
1				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33
		20-0423-0020-0000				FIRST AMENDMENT TO MEMORANDUM		
28	FK002350	20-0423-0020-0001	Q101147000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	491
		20-0423-0020-0002		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
	1			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT AND BILL OF SALE	1584	942
	1			l		AGGIGLIA SENTE DILL GE SALE AND GONINEWANGE	4600	550
Ĭ	1	ļ		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA LLC	ASSIGNMENT, BILL OF SALE AND CONVEYANCE	1600	660
	1			DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF	wvsos	
	ļ			DOMAINION ENERGY TRANSMISSION INC	HG ENERGY II ARRAI ACHIA LI C	FARMOUT AGREEMENT	1601	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA LLC	PARIMOUT AGREEMENT	1001	361
				LOUA MEDONALD MIDONALE & MEDONALD AND CARNET I				
				LOLA MCDONALD, WIDOW; E. B. MCDONALD AND GARNET L.				
		ì		MCDONALD, HIS WIFE; MACEL R. NICHOLSON AND W. B. NICHOLSON,				
				HER HUSBAND; BARBARA V. HARRIS AND RICHARD R. HARRIS, HER				
				HUSBAND; LUCILE M. WALLS, JOHN R. MCDONALD AND NINA MCDONALD, HIS WIFE; FRANK H. MCDONALD AND EVELYN B.				
]						
j				MCDONALD, HIS WIFE; W. PAUL MCDONALD AND FREDA G. MCDONALD, HIS WIFE; ROBERT H. MCDONALD AND EVELYN				
i				MCDONALD, HIS WIFE; AND MARY MCDONALD, SINGLE	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	936	533
			ı	WICDONALD, TIIS WIFE, AND WART MICDONALD, SINGLE	CONSCIDENCE CAS SOFTET COM SIGNION	1101 2233 11144 275		
		1		ALAMCO, INC. FORMERLY ALLEGHENY LAND AND MINERAL COMPANY	ENSOURCE INC	PARTIAL ASSIGNMENT	1170	609
			İ	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
		20-0423-0007-0000	1	ALAMCO INC	UMC PETROLEUM CORPORATION	ASSIGNMENT	1218	1012
	1	20-0423-0007-0004		UMC PETROLEUM CORPORATION	ASHLAND EXPLORATION CORPORATION INC	ASSIGNMENT	1263	
13	FK076952	20-0423-0007-0007	Q101000000	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
ĺ		20-0423-0007-0007		DOMINION TRANSMISSION INC	DOMINION EXPLORATION AND PRODUCTION	ASSIGNMENT	1340	815
				DOMINION EXPLORATION & PRODUCTION, INC.	DOMINION TRANSMISSION, INC.	ASSIGNMENT	1457	978
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33
						FIRST AMENDMENT TO MEMORANDUM		
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	491
	1	1	I					1235
Ī				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	12331

1	1	RECEIVED Office of Oil and Ga		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT AND BILL OF SALE	1584	942
			5	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA LLC	ASSIGNMENT, BILL OF SALE AND CONVEYANCE	1600	660
	,	OCT 1 5 2019		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		000 202010		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
		WV Department of		IRENE Q. LINN AND G. PAUL LINN, HER HUSBAND	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	935	629
		Environmental Protect	on	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
		1,0.000	011	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
	ł			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
14	FK108087	20-0403-0027-0000	Q100819000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
		20-0403-0027-0001		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT AND BILL OF SALE	1584	942
				NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC.	HG ENERGY II APPALACHIA LLC DOMINION ENERGY TRANSMISSION, INC.	ASSIGNMENT, BILL OF SALE AND CONVEYANCE MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF	1600 WVSOS	660
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA LLC	FARMOUT AGREEMENT	1601	581
				LUCY W QUEEN ET AL	HOPE NATUAL GAS COMPANY	FEE CONVEYANCE	239	183
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	FEE CONVEYANCE	508	573
		1		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPERATION	MERGER/NAME CHANGE	903	
				CONSOLIDATED GAS SUPPLY CORPERATION	CONSOLIDATED GAS TRANSMISSION CORPERATION	ASSIGNMENT	1136	
				CONSOLIDATED GAS TRANSMISSION CORPERATION	CNG GAS TRANSMISSION CORPERATION	MERGER/NAME CHANGE	51	
				CNG GAS TRANSMISSION CORPERATION	DOMINION TRANSMISSION, INC	MERGER/NAME CHANGE	58	362 33
15	FK108123 FEE	20-0403-0026-0000	FK108123 FEE	DOMINION TRANSMISSION, INC	CNX GAS COMPANY, LLC	FARMOUT AGREEMENT	1522	
		1		CNX GAS COMPANY, LLC	NOBLE ENERGY, INC	LIMITED PARTIAL ASSIGNMENT OF FARMOUT	1543	1235
				CNX GAS COMPANY, LLC	NOBLE ENERGY, INC	ASSIGNMENT	1584	942
		1		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
		1		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	I
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FAR	1601	
		1		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FEE CONVEYANCE	1627	1254



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

August 5, 2019

Laura Adkins WV DEP Division of Oil & Gas 601 57th Street Charleston, WV 25304

RE: Drilling Under Roads - McDonald 1211 N-5H

Freemans Creek District, Lewis County

West Virginia

Dear Ms. Adkins:

HG Energy II Appalachia, LLC, has the right to drill, stimulate and produce wells that are drilled under the County and State Roads as designated on the plats.

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

Diane C. White

Enclosures

Office of Oil and Gas

AUG 16 2019

WW Department of Environmental Protection

Date of Notice Certification: 08/07/2019

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

API No. 47-

			Operator's	Well No. McDo	nald 1211 N-5H
			Well Pad N	Name: McDona	d Well Pad
Notice has I Pursuant to the below for the	been given: ne provisions in West Virginia Code § tract of land as follows:	22-6A, the Operator has prov	vided the red	quired parties w	rith the Notice Forms listed
State:	West Virginia	1177 () 1 1 D 00	Easting:	545445.7	
County:	Lewis	UTM NAD 83	Northing:	4331776.9	
District:	Freemans Creek	Public Road Acce	ess:	SR 1 / Hollick Rui	Road
Quadrangle:	West Milford	Generally used fa	ırm name:	McDonald	
Watershed:	Middle West Fork Creek				
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and sled the owners of the surface describequired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall to have been completed by the applicant	hall contain the following info bed in subdivisions (1), (2) a ction sixteen of this article; (ii rvey pursuant to subsection (f this article were waived in ender proof of and certify to the	ormation: (1- nd (4), subs) that the re a), section writing by	4) A certification (b), section (b), section (b), section (b), section (c), section	on from the operator that (i) tion ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice mer; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the required		his Notice C	ertification	OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIR SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or D NO PLAT SURV	EY WAS C	ONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED NOTICE OF ENTRY FOR IT WAS CONDUCTED or			RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER (PLEASE ATTACH)		CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION				☐ RECEIVED
■ 5. PUI	BLIC NOTICE		REC Office of	CTIVED Orland Gas	☐ RECEIVED
■ 6. NO	TICE OF APPLICATION			6 2019	☐ RECEIVED
Required A	attachments:		VW Day Environmen	arimant of wal Prolection	

Required Attachments:

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

WW-6AC (1/12)

Certification of Notice is hereby given:

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

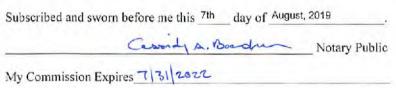
 Well Operator:
 HG II Appalachia, LLC
 Address:
 5260 Dupont Road

 By:
 Diane White
 Diane White
 Parkersburg, WV 26101

 Its:
 Agent
 Facsimile:
 304-863-3172

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





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 deprivacyofficer@wv.gov.

Office of Off and Gas

AUG 16 2019

Environmental Protection

WW-6A (9-13)

API NO. 47-		
OPERATOR WE	LL NO.	McDonald 1211 N-5H
Well Pad Name:	McDonald	1211

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 that	an the filing date of permit application.
Date of Notice: 08/07/19 Date Permit Application Filed: 08/1	15/19
PERMIT FOR ANY WELL WORK CONSTRUCTION OF	PROVAL FOR THE AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-10	0(b)
	IOD OF DELIVERY THAT REQUIRES A CIPT OR SIGNATURE CONFIRMATION
sediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be located and gas leasehold being developed by the proposed well work, it described in the crosion and sediment control plan submitted pursus operator or lessee, in the event the tract of land on which the well proposed seams; (4) The owners of record of the surface tract or travell work, if the surface tract is to be used for the placement, construption of the surface tract or travell work, if the surface tract is to be used for the placement, construption or pit as described in section nine of this article; (5) have a water well, spring or water supply source located within one provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than thresubsection (b) of this section hold interests in the lands, the applicate records of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is no	ant may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any t notice to a landowner, unless the lien holder is the landowner. W. Va. provide the Well Site Safety Plan ("WSSP") to the surface owner and any as provided in section 15 of this rule.
☑ SURFACE OWNER(s) Name: HG Energy II Appalachia, LLC (Pad and Road)	COAL OWNER OR LESSEE
Address: 5260 Dupont Road	Address:
Parkersburg, WV 26101 Name: Address:	COAL OPERATOR Name:
SURFACE OWNER(s) (Road and/or Other Disturbance)	Address:
Name:Address:	☑ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name: Charles & Vanessa Brosius Melvin & Terri Woods
Name:	Address: 1050 Hollick Run Road 54 Orchard Drive
Address:SURFACE OWNER(s) (Impoundments or Pits)	Jane Lew, WV 26378 Jane Lew, WV 26378 OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: Dominion Energy Transmission - Attn: Ronald Waldren
Name:	Address: 925 White Oaks Blvd Bridgeport, WV 26330
Address:	*Please attach additional forms if necessary Office of Out and Glas
	AUG 16 2019
	Environmental Frotestion

WW-6A (8-13) API NO. 47-OPERATOR WELL NO. McDonald 1211 N-5H Well Pad Name: McDonald 1211

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)

API NO. 47- 47-04 \$ 05701 OPERATOR WELL NO. McDonald 1211 N-5H

Well Pad Name: McDonald 1211

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 Pursuant to West Virginia Code § 22-01. True, comments with the secretary as to the location or construction of the applicant's proposed well work with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to 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 application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to 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 application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to 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 application is filed with the secretary.

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

AUG 16 2019

WV Department of Environmental Frotection

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.

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4704 10570

API NO. 47-

OPERATOR WELL NO. McDonald 1211 N-5H

Well Pad Name: McDonald 1211

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.



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47 0 4 3 0 5 7 0 1
API NO. 47OPERATOR WELL NO. McDonald 1211 N-5H
Well Pad Name: McDonald 1211

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

Telephone: 304-420-1119

Email: dwhite@hgenergyllc.com Quane White

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 deprivacyofficer@wv.gov.

OFFICIAL SEAL
NOTARY PUBLIC. STATE OF WEST VIRIGINIA
MARK JSCHALL
H G Energy LL C
PO Box 5519, Vienna, WV 28108
My Commission Expires November 2, 2021

Subscribed and sworp before me this 12th day of August , 2019

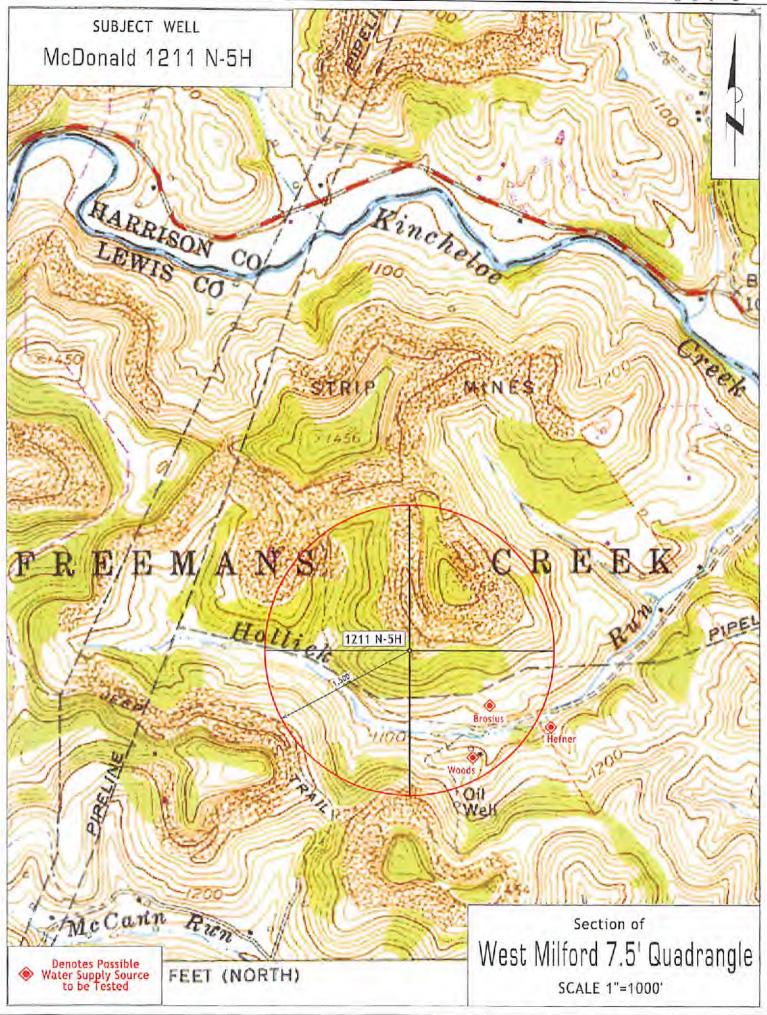
Notary Public

My Commission Expires 11/2/2021

Office of Gil and Gas

AUG 1 6 2019

WV Department of Environmental Protection



Diane White

From:

Diane White

Sent:

Wednesday, June 19, 2019 1:26 PM

To:

Vickie Hoops (vhoops@sturmenvironmental.com)

Subject:

FW: 1211 WSW Owners

Vicki,

There are three sites with water wells which we'll want to be tested, if the owners allow. I don't have a plat or topo yet, but thought you might be able to locate the sites with their addresses. If not, let me know and I'll forward the location information on to you when I receive it.

The 1211 well pad site is in Lewis county, Freeman's Creek District and these water sources are within 1500'. Please ask the Tech to identify all paperwork with the McDonald 1211 site.

Thanks,

Diane

From: Timothy Roush <troush@hgenergyllc.com>

Sent: Wednesday, June 19, 2019 1:15 PM **To:** Diane White dwhite@hgenergyllc.com

Cc: Cassidy Boardman <cboardman@hgenergyllc.com>

Subject: 1211 WSW Owners

There are 3 WSW's near the 1211 Pad:

Charles & Vanessa Brosius 1050 Hollick Run Road Jane Lew, WV 26378

Jerry Hefner 893 Hollick Run Road Jane Lew, WV 26378

Melvin & Terri Woods 54 Orchard Drive Buckhannon, WV 26201

Timothy P. Roush, PS

HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 troush@hgenergyllc.com 304-420-1120 RECEIVED
Office of Circle Gas

AUG 16 2019

Eturm Environmental Ervices ———

Invoice Number: 071095 JOHN W. STURM, PRESIDENT

Invoice Date: 06/30/19

Page: 1

Sold H.G. ENERGY

To: 5260 DUPONT ROAD

PARKERSBURG, WV

26101

JUNE SERVICES

BROSIUS, HEFNER SAMPLES

WOOD-DECLINED MCDONALD 1211 PAD

Due Date.: 07/30/19 Terms...: Net 30

	Net
Dro-Drill Dkg. 2 cample/g/ G\$94/sample	168.00
Pre-Drill Pkg; 2 sample(s) @\$84/sample Field Technician; 4 hours @\$60/hour	240.00
Mileage; 81 miles @\$0.75/mile	60.75
Total:	468.75

WE NOW ACCEPT MASTERCARD, VISA AND DISCOVER



STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS **NOTICE OF ENTRY FOR PLAT SURVEY**

	Requirement:	Notice shall be provi	ded at lea	ast SEVEN (7) da	ys but no more tha	n FORTY-FIVE ((45) days prior to
entry Date of Noti	ce: June 13, 2019	Date of Plan	ned Entr	y: June 20, 2019			
Delivery me	thod pursuant	to West Virginia Co	de § 22-6	6A-10a			
☐ PERSO	nal 🗆	REGISTERED	■ M	ETHOD OF DEL	JVERY THAT RE	EQUIRES A	
SERVIO	Œ	MAIL	RI	ECEIPT OR SIGN	NATURE CONFIR	MATION	
on to the surf but no more t beneath such owner of min and Sediment Secretary, wh	ace tract to cond han forty-five d tract that has file erals underlying the Control Manualich statement sl	ode § 22-6A-10(a), Product any plat surveys lays prior to such entraled a declaration pursed such tract in the could and the statutes and hall include contact in obtain copies from the	required y to: (1) uant to se nty tax re rules rel oformatio	pursuant to this and the surface owne ection thirty-six, a ecords. The notice ated to oil and gasen, including the actions.	rticle. Such notice s r of such tract; (2) tricle six, chapter to e shall include a sta s exploration and p	shall be provided a to any owner or les wenty-two of this o atement that copies roduction may be o	t least seven days see of coal seams code; and (3) any of the state Erosion obtained from the
Notice is her	eby provided t	o:					
■ SURFACE	CE OWNER(s)			☐ COA	L OWNER OR LE	SSEE	
	Energy II Appalachia,	LLC					
Address: 5260	Dupont Road tersburg, WV 26101						
Name:							
Address:					ERAL OWNER(s)		
NT				Name:	* See Attached Listing **		_
Name: Address:				Address:			
				*please attac	h additional forms if neo	cessary	
					ude & Longitude:	operator is plannin 39.133985 / -80.474181 SR 19/ Kincheloe Run/H	
District:				Watershed:	rccess.	Hollick Run	oliick Run Road
	West Milford 7.5'			Generally use	d farm name:	McDonald	
may be obtair Charleston, W	ned from the Section 1970 1970 1970 1970 1970 1970 1970 1970	nd Sediment Control I cretary, at the WV De -926-0450). Copies o by visiting <u>www.dep.v</u>	partment f such do	of Environmenta cuments or additi	l Protection headquonal information re	arters, located at 6	01 57th Street, SE,
Notice is he	reby given by	:					RECEIVED Office of Oil and Gas
Well Operator				Address:	5260 Dupont Road		
Telephone:	304-420-1119			-	Parkersburg, WV 26101		AUG 16 2019
Email:	dwhite@hgenerg	yllc.com		Facsimile:	304-863-2172		
Oil and Gas	Privacy Noti	ce:		_		E	WW Department of nvironmental Protection

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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Page 1 Continued

Mineral Owners

Agnes June Coffindaffer RR 2 168-A Jane Lew, WV 26378

Alice Virginia Life Bell 1700 8th Avenue NW Largo, FL 33770

Alvin Fields Tharp Jr 3587 Perry Dr NW Massillon, OH 44646

Appalachian Royalties Inc. P.O. Box 1917 Clarksburg, WV 26301-1917

Arthur E Tennant 4304 Moore Ln Culleoka, TN 38451

Barbara Gaston 605 Rr 1 Mount Clare, WV 26408

Barbara S Carroll 17 Azalea Dr Charles Town, WV 25414

Betty Moss Tallman 741 Mulberry Ct Bensalem, PA 19020

Bradley Simmons 1000 Twelve Oaks Dr Elkins, WV 26241 Agnes June Coffindaffer 568 Two Lick Rd Jane Lew, WV 26378

Alissa Kay Kerns 994 Barbour County Hwy Belington, WV 26250

Ann Mason Brashear Fitzgerald 625 Windsor Place Tyler, TX 75701

Appalachian Royalty Company LLC 3049 Robert C. Byrd Dr Beckley, WV 25801

Avanelle M Ross Rr 3 Box 15A Salem, WV 26426

Barbara Jones 35 S Lake Dr. Parkersburg, WV 26101

Betty Fridley 168 Cr1, Lost Creek Lost Creek, WV 26385

Bradley Scott and Terri Lynn Stutler 725 Two Lick Road Jane Lew, WV 26378

Brett Cox 1800 Preston on Lake Blvd, Trlr 14 Little Elm, TX 75068 Office of Off and Gas

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Page 1 Continued

Mineral Owners

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AUG 1 6 2019

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Page 1 Continued

Mineral Owners

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Doris Sandker 35160 Jimmerson Lk Angola, IN 46703

Elizabeth "Betty" Condon 381 Bunchberry Dr Maineville, OH 45039

Elizabeth Francene Kirk 986 Ashton PL Morgantown, WV 26508

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Denise Springer 8 Deer Run Hurricane, WV 26378

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Donald Wolfe RR 190 Fairmont, WV 26554

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Elizabeth JoAnn White 3218 S. Ogemaw Trl. West Branch, MI 48661

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Page 1 Continued

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Jane Nicklin Bruce PO Box 388 Lewisburg, WV 24901

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AUG 1 6 2019

<u>WW-6A3</u> (1-12) 1211N-5H

Page 1 Continued

Mineral Owners

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John Fasciani 7675 Verandah Ct Littleton, CO 80125

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Joey Douglas Wolfe 17 Monongalia St Buckhannon, WV 26201

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John Wilmer Norris, Jr. 60 Simpson Run Road Weston, WV 26452 Office of Oil and Gas

AUG 16 2019

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Page 1 Continued

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Kimberly Ann Ferree 4067 Roweling Oak Crt Tallahassee, FL 32303

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Linda S Kaczmarczyk 905 Briarwood St Morgantown, WV 26505 Joyce Edwards aka Joyce Love 5031 Garfield Rd Palestine, WV 26160

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Environmental Protection

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Page 1 Continued

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Mary Katherine Ott 766 Flower Dr McGaheysville, VA 22840

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Marjorie Neely 376 Neely Hollow Road Jane Lew, WV 26378

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Mary Elizabeth Kennedy 12702 Pleasant Valley Drive Mount Vernon, OH 43050

Mary Kay Brant 3921 Dogwood St NW Uniontown, PA 44685

Mary V. Gabriel

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PO Box 252
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Michael Ross PO Box 397 Glenville, WV 26351 Office of Oil and Gas

AUG 1 6 2019

Environmental Protection

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Page 1 Continued

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2 Woodhaven Dr.
Laguna Niquel, CA 9,2677

Peggy Burfield 100 Brant Dr Marietta, OH 45750

PKL, LLC c/o Kathryn Atha 119 Atha Dr Bridgeport, WV 26330

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Nathan L Morrison IV 512 Angelus St Turlock, CA 95380

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Bloomington, MD 21523

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Richard Post Rapking 304 Kirk Circle Madisonville, TN 37354 Office of Oil and Gas

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Page 1 Continued

Mineral Owners

Richards Resources 79 RR3 Salem, WV 26426

Robert Gaston 14 Maple Ln Bridgeport, WV 26330

Robert W Riggs PO Box 978 Fort Ashby, WV 26719

Roger Dale Young 1733 Monroe Rdg Palestine, WV 26160

Ronald O'Neal and Linda O'Neal 3 Willowbrook Buchannon, WV 26201

Roxanne Rowh 1309 Pride Ave Clarksburg, WV 26301

Ruth Ann Wright 32113 RR 7 Fairmont, WV 26554

Sallie J. Waid 908 Oakland St Harrisonburg, VA 22802 Robert "Bud" Hofer C/O John Phillip Hofer 7383 Village Dr Mason, OH 45040

Robert Max McDonald 97 Valley Ridge Ojai, CA 96023

Robert W. Riechel Jr. PO Box 1500 Santa Barbara, CA 93102

Ronald L Ellis 3482 Ivy Hill Cir #8 Cortland, OH 44410

Rosalee Pituch 1951 Treasure Lake DuBois, PA 15801

Ruth Ann Smith 706 Penn Ave Lemont Furnace, PA 15456

Ruth Justison
C/O Donna Lynn Miller
111 Burton Ave
Morrow, OH 45152

Sam Layfield Morrison
105 W High St Apt A,
Salem, WV 26426

Office of Oil and Gas

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Page 1 Continued

Mineral Owners

Sam Porter 2925 Pigeon Run RD SW Massillon, OH 44647

Sharon Kay Frashuer Woolridge 7424 Winterleaf Ct Richmond, VA 23234-2824

Sherri L. Gaston PO Box 302 Anmoore, WV 26323

Stephen D Riggs 115 Carway Ln Statesville, NC 28625

Susan M. Young 2665 Misty Morning Ln. Rosewell, GA 30076

Thomas E Bailey 915 Stone Lick Rd Jane Lew, WV 26378

Timothy House 10 Way St Akron, OH 44310

Tom Porter 40560 Hanover Ridge Rd Jewett, OH 43986

Urcle M Sheets Jr 8058 Kirkton Crt Sacramento, CA 95828 Samuel Dwight & Burnice M Life 5025 Maples Ferry Way Evans, GA 30809

Sharyn Sims 78 Farfield Hts LeRoy, WV 25252

Shirley A. Dibley 11208 Carrollwood Dr Tampa, FL 33618

Susan Lawrence 109 Valley Dr Bridgeport, WV 26330

Teresa D. Cole 943 Old Louisville Louisville, KY 40372

Timothy Gaston 4497 San Jose Ln Columbus, OH 43213

Timothy Stephen Thomas

153 Peach Tree Ln

Washington, WV 26181

Trustee, Auburn Baptist Church 11849 Auburn Road Auburn, WV 26325

Waco Oil and Gas Company PO Box 397 Glenville, WV 26351 Office of Oil and Gas

AUG 1 G 2019

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Page 1 Continued

Mineral Owners

Wesley Craft Brashear, Jr. 12205 Creek Point Dr. Frisco, TX 750358

William Clark Kerns, II William C Kerns 7245 Innsdale Ave. S Cottage Grove, MN 55016

William L. Bailey 255 Grass Run Rd Weston, WV 26452

William Morrison 115 Victoria Dr Eatontown, NJ 07724

Zelma Bailey 2820 Yankee Doodles Dr Reyoldsburg, OH 43068 William C. White #1 White Lane Jane Lew, WV 26378

William G. Rapking 65 Meade St Buckhanon, WV 26201

William Michael McDonald 10637 Good Hope Pike Jane Lew, WV 26378

Zachary Donald Wolfe 17 Monongalia St Buckhannon, WV 26201

*HG Energy II Appalachia, LLC 5260 Dupont Road Parkersburg, WV 26101

*Will Not Be Noticed Via Certified Mail

Office of Oil and Gas

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

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

Notice Time Date of Notic		pe provided at least TEN (10) days prior to filing Date Permit Application Filed: 08/15/2019	a permit application.
Delivery met	hod pursuant to West Virgi	inia Code § 22-6A-16(b)	
☐ HAND	OPPRINTED.	MARI	
	CERTIFIED		
DELIVE	RY RETURN RE	ECEIPT REQUESTED	
receipt reques drilling a hori of this subsec subsection ma and if availab	sted or hand delivery, give the izontal well: <i>Provided</i> , That it tion as of the date the notice way be waived in writing by the le, facsimile number and elected.	at least ten days prior to filing a permit application in the surface owner notice of its intent to enter upon notice given pursuant to subsection (a), section was provided to the surface owner: <i>Provided, he</i> is surface owner. The notice, if required, shall interest mail address of the operator and the operator	the surface owner's land for the purpose of ten of this article satisfies the requirements owever. That the notice requirements of this clude the name, address, telephone number, tor's authorized representative.
Notice is her	reby provided to the SUR	RFACE OWNER(s): * HG Energy 11 /	Appalachious is not noticina sol
ranic.	ar ar ar ar ar ar ar ar ar ar ar ar ar a	Tvalie.	361
A distance: 6200	Dupont Road	Address:	
	ersburg, WV 26101		
Notice is her Pursuant to W the surface ov	reby given: /est Virginia Code § 22-6A-1 vner's land for the purpose of	16(b), notice is hereby given that the undersigne f drilling a horizontal well on the tract of land as	follows:
Notice is her Pursuant to W the surface ov State: County:	reby given: /est Virginia Code § 22-6A-1 vner's land for the purpose of West Virginia Lewis	f drilling a horizontal well on the tract of land as UTM NAD 83 Easting: Northing:	follows: 545445.7 4331776.9
Notice is here Pursuant to W the surface ov State: County: District:	reby given: /est Virginia Code § 22-6A-1 vner's land for the purpose of West Virginia Lewis Freemans Creek	f drilling a horizontal well on the tract of land as UTM NAD 83 Easting: Northing: Public Road Access:	follows: 545445.7 4331776.9 SR 1 / Hollick Run Rd
Notice is her Pursuant to W the surface ov	reby given: /est Virginia Code § 22-6A-1 vner's land for the purpose of West Virginia Lewis	f drilling a horizontal well on the tract of land as UTM NAD 83 Easting: Northing:	follows: 545445.7 4331776.9
Notice is her Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor	reby given: Vest Virginia Code § 22-6A-1 vner's land for the purpose of West Virginia Lewis Freemans Creek West Milford WV 7.5' Middle West Fork Creek Shall Include: Vest Virginia Code § 22-6A nber and electronic mail addiziontal drilling may be obtain	f drilling a horizontal well on the tract of land as UTM NAD 83 Easting: Northing: Public Road Access:	follows: 545445.7 4331776.9 SR 1 / Hollick Run Rd McDonald dress, telephone number, and if available, ized representative. Additional information of Environmental Protection headquarters,
Notice is her Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor located at 601	reby given: Vest Virginia Code § 22-6A-1 vner's land for the purpose of West Virginia Lewis Freemans Creek West Milford WV 7.5' Middle West Fork Creek Shall Include: West Virginia Code § 22-6A nber and electronic mail add rizontal drilling may be obtain 157 th Street, SE, Charleston, V	The factor of the fract of land as a control of lan	follows: 545445.7 4331776.9 SR 1 / Hollick Run Rd McDonald dress, telephone number, and if available, ized representative. Additional information of Environmental Protection headquarters,
Notice is her Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor located at 601 Notice is her	reby given: Vest Virginia Code § 22-6A-1 vner's land for the purpose of West Virginia Lewis Freemans Creek West Milford WV 7.5' Middle West Fork Creek Shall Include: Vest Virginia Code § 22-6A nber and electronic mail addiziontal drilling may be obtain	The factor of the fract of land as a control of lan	follows: 545445.7 4331776.9 SR 1 / Hollick Run Rd McDonald dress, telephone number, and if available, ized representative. Additional information of Environmental Protection headquarters, dep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is her Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor located at 601 Notice is her Well Operato	reby given: Vest Virginia Code § 22-6A-1 vner's land for the purpose of West Virginia Lewis Freemans Creek West Milford WV 7.5' Middle West Fork Creek Shall Include: West Virginia Code § 22-6A nber and electronic mail add rizontal drilling may be obtain 57th Street, SE, Charleston, V reby given by:	A-16(b), this notice shall include the name, address of the operator and the operator's authorized from the Secretary, at the WV Department WV 25304 (304-926-0450) or by visiting www.	follows: 545445.7 4331776.9 SR 1 / Hollick Run Rd McDonald dress, telephone number, and if available, ized representative. Additional information of Environmental Protection headquarters, dep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is her Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor located at 601 Notice is her	reby given: Vest Virginia Code § 22-6A-1 vner's land for the purpose of West Virginia Lewis Freemans Creek West Milford WV 7.5' Middle West Fork Creek Shall Include: West Virginia Code § 22-6A nber and electronic mail addiziontal drilling may be obtain 57 th Street, SE, Charleston, V reby given by: r: HG Energy II Appalachia, LLC	A-16(b), this notice shall include the name, address of the operator and the operator's authorized from the Secretary, at the WV Department WV 25304 (304-926-0450) or by visiting www.	follows: 545445.7 4331776.9 SR 17 Hollick Run Rd McDonald dress, telephone number, and if available, ized representative. Additional information of Environmental Protection headquarters, dep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is here Pursuant to We the surface over State: County: District: Quadrangle: Watershed: This Notice Pursuant to Versuant V	reby given: Vest Virginia Code § 22-6A-1 vner's land for the purpose of West Virginia Lewis Freemans Creek West Milford WV 7.5' Middle West Fork Creek Shall Include: West Virginia Code § 22-6A nber and electronic mail add rizontal drilling may be obtain 57th Street, SE, Charleston, V reby given by: r: HG Energy II Appalachia, LLC 5260 Dupont Road	A-16(b), this notice shall include the name, address of the operator and the operator's authorized from the Secretary, at the WV Department WV 25304 (304-926-0450) or by visiting www.	follows: 545445.7 4331776.9 SR 1 / Hollick Run Rd McDonald dress, telephone number, and if available, ized representative. Additional information of Environmental Protection headquarters, dep.wv.gov/oil-and-gas/pages/default.aspx. e: Diane White 5260 Dupont Road
Notice is her Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor located at 601 Notice is her Well Operator	reby given: Vest Virginia Code § 22-6A-1 vner's land for the purpose of West Virginia Lewis Freemans Creek West Milford WV 7.5' Middle West Fork Creek Shall Include: West Virginia Code § 22-6A niber and electronic mail addizontal drilling may be obtain 57th Street, SE, Charleston, V reby given by: r: HG Energy II Appelachia, LLC 5260 Dupont Road Parkersburg, WV 26101	A-16(b), this notice shall include the name, address of the operator and the operator's authorized from the Secretary, at the WV Department WV 25304 (304-926-0450) or by visiting www. Authorized Representativ Address:	follows: 545445.7 4331776.9 SR 1 / Hollick Run Rd McDonald dress, telephone number, and if available, ized representative. Additional information of Environmental Protection headquarters, dep.wv.gov/oil-and-gas/pages/default.aspx. e: Diane White 5260 Dupont Road Parkersburg, WV 26101

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.

4704705701 Operator Well No. McDonsild 1211 N-5H

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

	e Requirement: notice shall be provided it tice: 08/07/2019 Date Permit A	no later than the filing Application Filed: 08/1		application.	
Delivery m	ethod pursuant to West Virginia Code §	22-6A-16(c)			
■ CERT	TFIED MAIL	HAND			
	JRN RECEIPT REQUESTED	DELIVERY			
return receipthe planned required to drilling of a damages to (d) The notion of notice. Notice is he (at the address: 52 Pa Notice is he Pursuant to	W. Va. Code § 22-6A-16(c), no later that the requested or hand delivery, give the surf operation. The notice required by this size provided by subsection (b), section tends horizontal well; and (3) A proposed surf the surface affected by oil and gas operations required by this section shall be given be the surface affected by oil and gas operations required by this section shall be given be the surface of the SURFACE OWNERS listed in the records of the sheriff at the General Happalachia LLC representations. We will appalach the surface owner's land for the purpose operations and for the purpose of the surface owner's land for the purpose	face owner whose land subsection shall include of this article to a surfaface use and compens ons to the extent the dato the surface owner at time of notice): Name: Address is hereby given that the	I will be used for the: (1) A copy ace owner whose ation agreement amages are compute the address list. The address list. The address list. The address list. The address list. The address list. The address list. The address list. The address list. The address list. The address list. The address list. The address list.	or the drilling of a hor of this code section; e land will be used in the containing an offer pensable under article sted in the records of the achie LLC is not well operator has developed.	izontal well notice of (2) The information conjunction with the of compensation for six-b of this chapter, the sheriff at the time
County:	West Virginia Lewis	UTM NAD 8	3 Easting: Northing:	4331776.9	
District:	Freemans Creek	Public Road	Access:	SR 1 / Hollick Run Road	
Quadrangle	: West Milford WV 7.5'	Generally use	ed farm name:	McDonald	
Watershed:	Middle West Fork Creek	_			
Pursuant to to be provi- horizontal v surface affe information	West Virginia Code § 22-6A-16(c), this noted by W. Va. Code § 22-6A-10(b) to a well; and (3) A proposed surface use and coeted by oil and gas operations to the external coeted to horizontal drilling may be obtained at 601 57th Street, SE, Characteristics.	surface owner whose compensation agreement the damages are co- tained from the Secret	e land will be un nt containing ar empensable und eary, at the WV	used in conjunction value offer of compensations article six-b of this Department of Envi	with the drilling of a on for damages to the is chapter. Additional fronmental Protection
Well Opera	tor: HG Energy II Appalachia, LLC	Address:	5260 Dupont Road		Office
Telephone:	304-420-1119		Parkersburg, WV 26	101	MOBAL STEAM
Email:	dwhite@hgenergyllc.com	Facsimile:	304-863-3172	1.00 1	AUG 16 0
	s Privacy Notice:				Environment of

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

August 6, 2019

Byrd E. White, III Secretary of Transportation

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

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

Subject: DOH Permit for the McDonald 1211 Pad, Lewis County
N-5H Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #07-2019-0255 issued to HG Energy II Appalachia, LLC for access to the State Road for a well site located off Lewis County Route 1/1 SLS.

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

Ban K. Clayton

Cc: Diane C. White

HG Energy II, LLC

CH, OM, D-7

File

Office of Oil and Cas

AUG 16 2019

Environmental Profession

List of Frac Additives by Chemical Name and CAS

McDonald 1211 Well Pad (N-1H to N-5H, S-6H to S-10H)

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	

Office of Cil and Gas

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WV Department of
Environmental Protection

