

#### 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

Monday, March 9, 2020 WELL WORK PERMIT Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re:

Permit approval for MCDONALD 1211 S-8H

47-041-05705-00-00

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

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

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

James A. Martin

Operator's Well Number: MCDONALD 1211 S-8H

HG ENERGY II APPALACHI

Farm Name: U.S. WELL NUMBER: 47-041-05705-00-00

Horizontal 6A New Drill Date Issued: 3/9/2020

Promoting a healthy environment.

### **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.

WW-6B (04/15)

API NO. 47	
OPERATOR WELL NO	McDonald 1211 S-8H
Well Pad Name: McDo	onald 1211

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

1) Well Operator: HG Energy	/ II Appalachia,	494519932	Lewis	Freeman West Milford 7.5'
		Operator ID	County	District Quadrangle
2) Operator's Well Number: M	cDonald 1211 S	-8H Well Pac	d Name: Mcl	Donald 1211
3) Farm Name/Surface Owner:	McDonald	Public Roa	d Access: S	R 19
4) Elevation, current ground:	<b>1280'</b> E	levation, proposed	post-construc	etion: 1264.5'
5) Well Type (a) Gas x	Oil	Unde	erground Stor	age
Other				
(b)If Gas Sha	ıllow <u>x</u>	Deep		****
Hor	rizontal X			
6) Existing Pad: Yes or No No				
<ol> <li>Proposed Target Formation(s Marcellus at 6753'/6835' and 8</li> </ol>		-	-	Pressure(s):
8) Proposed Total Vertical Dept	h: 6800'			
9) Formation at Total Vertical D		S		
10) Proposed Total Measured D	epth: 19,525'			
11) Proposed Horizontal Leg Le	ngth: 12,152'			
12) Approximate Fresh Water S	trata Depths:	34', 107', 205', 2	29', 249'	
13) Method to Determine Fresh	Water Depths:	Nearest offset wel	l data, (47-0	41-5128, 3938, 4929)
14) Approximate Saltwater Dep	ths: 1299', 1675	51		
15) Approximate Coal Seam De	pths: 810' to 81	5'		
16) Approximate Depth to Possi	ble Void (coal m	ine, karst, other):	None	
17) Does Proposed well location directly overlying or adjacent to		ms Yes	N	To X
(a) If Yes, provide Mine Info:	Name:			
	Depth:			
	Seam:			
RECEIVED Office of Oil and Gas	Owner:			
FEB 0 3 2020			000	

WV Department of Environmental Protection B.S. 9-23-19

WW-6	В
(04/15	)

API NO. 47-4704105705

OPERATOR WELL NO. McDonald 1211 S-8H

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	19525'	19525' /	CTS
Tubing							
Liners							

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

#### **PACKERS**

Kind:		
Sizes:		
Depths Set:		

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FEB 0 3 2020

API NO. 47- 47041057

OPERATOR WELL NO. McDonald 1211 S-8H

Well Pad Name: McDonald 1211

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 12,152' lateral length, 19,525' 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:

oal - centralized every 3 joints to surface. 1 - Bow Spring on every joint, will also be 2 - Bow Spring on first 2 joints then every

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

Conductor -N/A, Casing to be drilled in w/ Dual Rotary Rig. Fresh Water/Coal - 15.6 ppg PNE-1 + 3% bwoc CaCl, 40% Excess Yield = 1.20, CTS

25) Proposed borehole conditioning procedures:

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FEB 0 3 2020

\*Note: Attach additional sheets as needed.

#

#### McDonald 1211 Well Pad (N-1H, N-3H, N-5H, S-7H, S-8H, S-9H) Cement Additives

	Material Type	Material Description Premium NE-1 is a	CAS # Ingredient name	0/2	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide	1-5	1305-78-8
instrument of	Dealer Lo	strength properties.	Magnesium oxide Crystalline silica: Quartz (SiO2)	1-5	1309-48-4 14808-60-7
mium NE-1	Portland Cement		L		
		Commonly called gel, it is	Ingredient name	%	CAS number
		a clay material used as a cement extender and to	bentonite	90 - 100	1302-78-9
		control excessive free	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
onito	Evtordor	water.			
onite	Extender				
		A powdered, flaked or	Ingredient name	%	CAS number
		pelletized material used to decrease thickening	Calcium chloride	90 - 100	10043-52-4
		time and increase the rate			
um Chloride	Accelerator	of strength development			
an emoride	Acceletator				
		Graded (3/8 to 3/4 inch)	Ingredient name	%	CAS number
		cellophane flakes used as a lost circulation material.	No hazardous ingredient		
Flake	Lost Circulation	a 1994 on ediasion illaterial.			
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in	Ingredient name	%	CAS number
		cementing operations. It is very effective	Tributyl phosphate	90 - 100	126-73-8
		minimizing air	The safe distribution	185 7354	
		entrapment and			
		preventing foaming			
		tendencies of latex systems.			
3L	Foam Preventer				
			Ingredient name	%	CAS number
ulased Cores	Danielas	Used to retard cement	Sucrose	90 - 100	57-50-1
nulated Sugar	Retarder	returns at surface.  A proprietary product			
		that provides expansive			
		properties and improves	Francisco Control Cont	la:	lore
		bonding at low to moderate	Ingredient name Calcium magnesium oxide	% 90 - 100	37247-91-9
		temperatures.	Carolan Inagrication Oxide	30 - 100	91647-91-9
		Leville Commission of the Comm			
		Multi-purpose polymer additive used to control		la.	To a c
		Multi-purpose polymer additive used to control free fluid, fluid loss,	Ingredient name	%	CAS number
		additive used to control free fluid, fluid loss, rheology, and gas	Ingredient name No hazardous ingredient	%	CAS number
A-170	Gas Migration	additive used to control free fluid, fluid loss,	112	%	CAS number
	Gas Migration	additive used to control free fluid, fluid loss, rheology, and gas	112	%	CAS number
	Gas Migration	additive used to control free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide).	No hazardous ingredient	9/4	CAS number
-170	Gas Migration	additive used to control free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with	No hazardous ingredient		
-170	Gas Migration	additive used to control free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide).	No hazardous ingredient	%	CAS number
	Gas Migration	additive used to control free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement	No hazardous ingredient	% 5 - 10	
	Gas Migration	additive used to control free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide	%	CAS number 14808-60-7
	Gas Migration	additive used to control free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide	% 5 - 10	CAS number 14808-60-7
	Gas Migration	additive used to control free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide	% 5 - 10	CAS number 14808-60-7
	Gas Migration  Base	additive used to control free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide	% 5 - 10	CAS number 14808-60-7
		additive used to control free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name Crystalline silica: Quartz (SiO2)  FEB 0 3 20	% 5 - 10	CAS number 14808-60-7
		additive used to control free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name Crystalline silica: Quartz (SiO2)  FEB 0 3 20	% 5 - 10	CAS number 14808-60-7
		additive used to control free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.  A low temperature retarder used in a wide range of slurry.	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name  Ingredient name  Ingredient name  Ingredient name  Ingredient name  Ingredient name	% 5 - 10 1 - 5	CAS number 14808-60-7 1305-78-8
		additive used to control free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.  A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name Organic acid salt	% 5 - 10 1 - 5	CAS number 14808-60-7 1305-78-8
		additive used to control free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.  A low temperature retarder used in a wide range of slurry.	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name Organic acid salt	% 5 - 10 1 - 5	CAS number 14808-60-7 1305-78-8
-170	Base	additive used to control free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.  A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SiO2) Calclum oxide  Ingredient name Crystalline silica: Quartz (SiO2) Calclum oxide  Ingredient name Organic acid salt  Ingredient name Organic acid salt	% 5 - 10 1 - 5	CAS number 14808-60-7 1305-78-8  CAS number Trade secret.
	Base	additive used to control free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.  A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name Organic acid salt  Ingredient name Ingredient name	% 5 - 10 1 - 5	CAS number 14808-60-7 1305-78-8  CAS number Trade secret.
-170	Base	additive used to control free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.  A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name Organic acid salt  Ingredient name Organic acid salt  Ingredient name 2-Butoxyethanol Proprietary surfactant	% 5 - 10 1 - 5 % 40 - 50	CAS number 14808-60-7 1305-78-8  CAS number Trade secret.  CAS number 111-76-2 Trade secret.
-170	Base	additive used to control free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.  A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name Organic acid salt  Ingredient name 2-Butoxyethanol Proprietary surfactant D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Alkylarylsulfonate amine salt	% 5 - 10 1 - 5 % 40 - 50	CAS number 14808-60-7 1305-78-8  CAS number Trade secret.  CAS number 111-76-2



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## 1211 S-8H4 7 0 4 1 0 5 7 0 5

#### Marcellus Shale Horizontal Lewis County, WV

NEKGI						FER 0 3 2020					Lewis Co	unty, ww		
						LEB 11 9 5050		1211 5	8-8H SH	Ļ	14	211848.47N 17895	05.72E	
Ground	d Ele	vatio	n		1265.	WV Department	of action	1211	S-8H LI	2	14211193.61N 1788690.26E			
	Azm				1265.5' <sub>WV</sub> Department of 160.539 <sup>870nmental</sup> Protection			1211 S-8H BHL			14199740.3N 1792737.43E			
WELLBO	-	AGRAM		HOLE	CASING	GEOLOGY	ТОР	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS	
1 1 1= 1		Contract of												
		X	x	30"	30" 157.5# LS	Conductor	Ö	120	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5" w thickness	
						Fresh Water	0	205		15.6 ppg PNE-1 + 3%		Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" w	
			x	26"	20" 94# J-55	Kittaning Coal	919	924	AIR	bwoc CaCl 40% Excess	Centralized every 3 joints to surface	of one hole volume with	thickness	
x			x	1 - 1		Fresh Water Protection	0	1000		Yield=1.20 / CTS		Fresh Water prior to pumping cement.	Burst=2110 psi	
										Lead: 15.4 ppg PNE-1 +	Bow Spring on every	Once casing is at setting		
				177.50	13-3/8" 68#	Big Lime	1480	1545	AIR / KCL	2.5% bwoc CaCl 40% Excess / Tail: 15.9	joint	depth, Circulate and condition at TD. Circulate a	Intermediate casing = 0.480 wall thickness Burst=3450 psi	
x			X	17.5"	J-55 BTC	Injun / Gantz (Storage)	1545 / 1830	1650 / 1890	Salt Polymer	ppg PNE-1 + 2.5% bwoc CaCl	"will also be running ACP for isolating	minimum of one hole		
100		- ), -	4.4			Intermediate 1	0	2040		zero% Excess. CTS	storage zone*	volume prior to pumping cement.		
x		l x	110004	-		Fifty / Thirty Foot	1940 / 2037	1965 / 2060		Lead: 15.4 ppg PNE-1 +			Intermediate casing = 0,395" wall thickness Burst=3950 psi	
						Gordon Stray / Gordon	2060 / 2130	2130 / 2220	AIR / KCL	2.5% bwoc CaCl 40% Excess / Tail: 15.9	Bow Spring on first 2 joints then every third			
				12,25"	9-5/8" 40# J-55 BTC	5th Sand	2320	2360	Salt					
×		X		1		Bayard Sand	2405	2420	Polymer	CaCl				
						Intermediate 2	0	2750 🗸		zero% Excess, CTS				
X		X				Speechley	3025	3041	107.27		Run 1 spiral centralizer			
				8.5" Vertical		Balltown	3250	3290	AIR / 9.0ppg	U83.737.67.6 WARR	every 5 joints from the			
				6.5 Vertical		Benson	4340	4350	SOBM	<u>Lead</u> : 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc	top of the curve to surface.			
100						Rhinestreet	6107	6377		EC1 + 0.75 gal/sk		Once on bottom/TD with		
						Cashaqua	6377	6477		FP13L + 0.3% bwoc MPA170		casing, circulate at max allowable pump rate for at	Production casing = 0.415"	
v		V			5-1/2"	Middlesex	6477	6509		Tail: 14.8 ppg PNE-1 +		least 2x bottoms up, or until	wall thickness	
^		1^		8.5" Curve	23# P-110 HP	West River	6509	6580	11.5ppg- 12.5ppg	0.35% bwoc R3 + 0.75 gal/sk FP13L + 50%		returns and pump pressures indicate the hole	Burst=16240 psi Note:Actual centralizer	
-				70.05.00	CDC HTQ	Burkett	6580	6590	SOBM	bwoc ASCA1 + 0.5%	Run 1 spiral centralizer	is clean. Circulate a	schedules may be change	
						Tully Limestone	6590	6698		bwoc MPA170 20% Excess	every 3 joints from the 1st 5.5" long joint to the	minimum of one hole volume prior to pumping	due to hole conditions	
						Hamilton	6698	6753		Lead Yield=1.19	top of the curve.	cement		
						Marcellus	6753	6835	807	Tail Yield=1.94 CTS				
				8.5" La	8.5" Lateral		TMD / TVD (Production)	19525	6800 V	11,5ppg- 12,5ppg SOBM				
x		X				Onondaga	6835		CODIVI					
				X	X	X	X	7	X	X	X	X	X	
		L		0' TVD / 7373' MD			8.5" Hole - Cement 5-1/2" 23# P-110 I				+/-121	52' ft Lateral	TD @ +/-6800' TVD \(^1\) +/-19525' MD	
1	Х	- PI		X	Χ	X	X	17	X	7 - 1 X 3 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	X	X	X=centralizers	

### PROPOSAL TO DRILL WITHIN DOMINION TRANSMISSION STORAGE FIELD

FIELD/ZONES:

DOMINION FINK/KENNEDY/LOST CREEK-GANTZ SAND

WELL NAME: McDonald 1211 S-8H

Well # 1211 S-8H

DISTRICT/COUNTY/STATE: Freemans Creek/Lewis/WV

Submitted

JOSH HINTON HG ENERGY, LLC

**Dominion Energy Transmission** 

**Dominion Energy Transmission** 

#### Comments:

HG Energy has submitted this Casing & Cementing diagram and Drilling Plan to Dominion Transmission for Review. This signed document acknowledges that Dominion has reviewed the proposed casing program and the well's location within the Fink/Kennedy/Lost Creek storage field. This acknowledgement also confirms the proposed casing program is accurate to the proper storage zone as provided by HG Energy, LLC

API	NO. 47		
	<b>OPERATOR WEL</b>	L NO.	McDonald 1211 S-8H
	Well Pad Name		

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

1) Well Operator:	HG Energy	II Appalachia,	494519932	Lewis	Freeman West Milford 7.5'
			Operator ID	County	District Quadrangle
2) Operator's Well	Number: Mo	Donald 1211 S	S-8H Well Pa	d Name: Mc	Donald 1211
3) Farm Name/Sur	face Owner:	McDonald	Public Ro	ad Access: _S	SR 19
4) Elevation, curren	nt ground:	1280' E	Elevation, proposed	post-constru	ction: 1264.5'
	Gas x	Oil _	Und	erground Sto	rage
Oti	her				
(b)		llow X izontal X	Dеер		
6) Existing Pad: Ye		izoniai <u>~</u>			
7) Proposed Target	Formation(s)		cipated Thickness	-	Pressure(s):
			andpated pressure	al 43 14#.	
<ul><li>8) Proposed Total V</li><li>9) Formation at Total</li></ul>	-		IS		
10) Proposed Total		40.5051			
11) Proposed Horiz				**************************************	
12) Approximate F	•		34', 107', 205',	 229', 249'	
13) Method to Dete		-			)41-5128, 3938, 4929)
14) Approximate S		-			
15) Approximate C	_				
		-	nine, karst, other):	None	
17) Does Proposed directly overlying				1	No X
(a) If Yes, provid	le Mine Info:	Name:			
		Depth:			
		Seam:			
RECEIVED Office of Oil and Gas		Owner:			
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WV Department of Environmental Protectio	ก				Page 1 of 2

WW-6B	
(04/15)	

API	NO. 47	7					
	<b>OPERA</b>	TOR	WELL	NO.	McDenald	1211	S-8H
	Well P	ad N	ame:	McDor	nald 1211		

#### 18)

### CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120'	Drilled In
Fresh Water/Coal	20°	NEW	J-55	94	1000'	1000'	CTS
Intermediate 1	13 3/8"	NEW	J-55 BTC	68	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	19525'	19525'	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, Tall 9% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Least 40% encoses, Yall 0% Econosi (c.
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% excess yield = 1,18, tal yield 1,91 (
Tubing							
Liners							

#### **PACKERS**

Kind:		
Sizes:		
Depths Set:		

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٩PI	NO. 47		
	<b>OPERATOR WELL</b>	NO.	McDonald 1211 S-8H
	Well Pad Name	MoDor	neld 1211

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 12,152' lateral length, 19,525' 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

ribe centralizer placement for each casing string.

23) Describe centralizer placement for each casing suring.
No controllers will be used with conductor control. Prostruction of exercision over \$ juice to surface, Interestable - controllers over \$ juice to surface, Interestable - controllers over \$ juice to surface, Interestable - their tipping can that \$ juice interestable to 100° from surface, Interestable - Figure tipping can that \$ juice interestable to 100° from surface. Production - Figure 1 spiral describible every \$ juice bean the top of the curve to curious. Production - Figure 1 spiral describible every \$ juice bean the top of the curve to curious.

24) Describe all coment additives associated with each coment type.

24) Describe an dement additives associated with each coment type.	
Considerate -1634, Quelog to be diffied in wf Datal Relaty Filip. Proch Vision/Cred -1183 pag Prefer -1 -535 bones Card, ACR Sciences Yield = 1,50, CTB Intermediate 1 - 1,604 pag Prefer -1 - 535 bones Card, ACR Sciences -1 -150, pag Prefer -1 - 2,574 bones Card, ACR Sciences -1 -1,504 pag Prefer -1 - 2,574 bones Card, ACR Sciences -1 -1,504 pag Prefer -1 - 2,574 bones Card, ACR Sciences -1 -1,504 pag Prefer -1 - 2,574 bones Card, ACR Sciences -1 -1,504 pag Prefer -1 - 2,574 bones Card, ACR Sciences -1 -1,504 pag Prefer -1 - 2,574 bones Card, ACR Sciences -1,504 pag Prefer -1 - 2,57	
	_

25) Proposed borehole conditioning procedures:

	······································	
Conductor - Design the Index of TD.  Prose Microstro - Accessment in the Legisland posts, discribes a environment once both violence with Feeds Water poor to perspire cannot.  Free microstro - Concessment in Constitute and Constitute and constitute of TD. Clinicates a environment of the waters price to pumping comment.  Free microstro - Concessment in Constitute and Constitute and Constitute and TD. Clinicates and analysis and analysis of the State values price to pumping comment.  Free microstro - Concessment in Constitute and Constitute and TD. Clinicates and analysis and analysis of the State values price to pumping comment.  Free microstro - Conces can be determined by the culture, circulate at max alterestable pump ratio for a label 25 bottoms up, or out? returns and pump preserves institute the Not	ndle is elecan. Citroliole a minimum of one York volume prior to plumping contest.	
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*Note: Attach additional sheets as needed.	LEB O S SOL	

WV Department of Environmental Protection

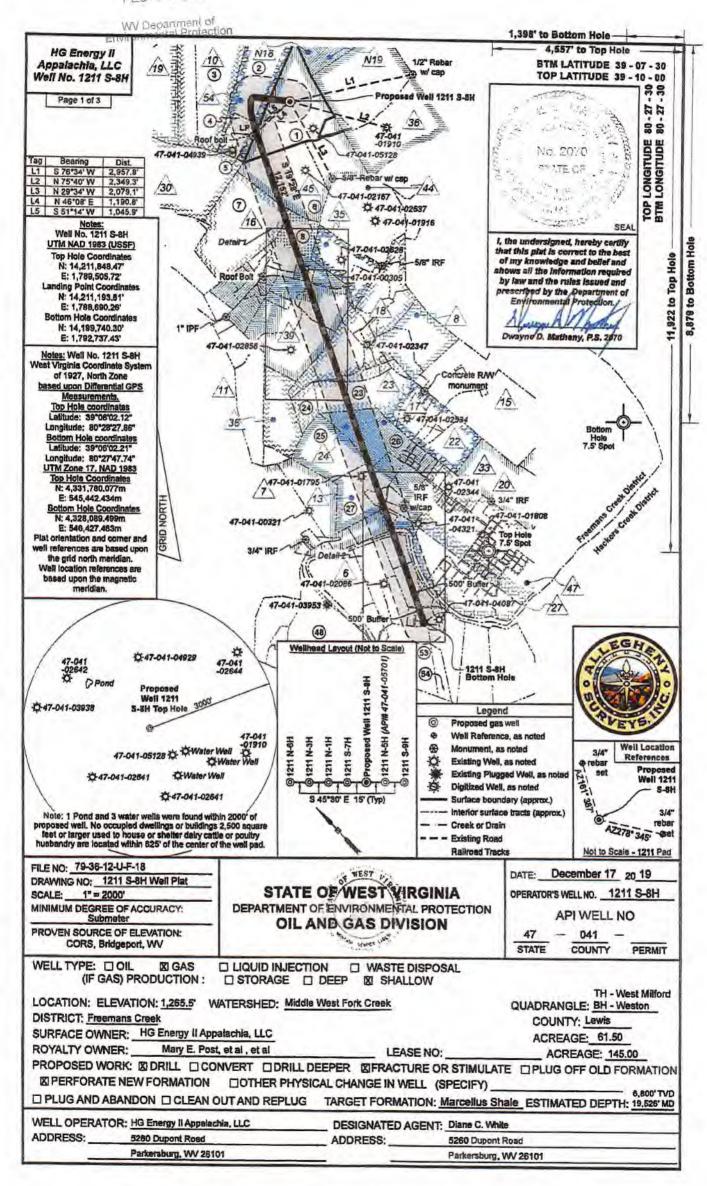
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## 1211 S-8H Marcellus Shale Horizontal Lewis County, WV

The state of the s									1		Lewis Co	unty, vvv			
								1211	S-8H SH	L	14	211848.47N 17895	05.72E		
Ground	d Ele	vat	ion		1265.	5'		1211	S-8H LI	•	14	211193.61N 17886	90.26E		
	Azm 160.			160.53				IL	14	199740.3N 179273	7.43E				
WELLBO	ORE D	IAGR	AM .	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS		
		1 4						ME.							
			x	30°	30" 157.5# LS	Conductor	0	120	AIR	N/A, Casing to be drilled in w/ Dual Rolary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5" wa thickness		
						Fresh Water	0	205		15.6 ppg PNE-1 + 3%		Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" w		
		8.4	X	26"	20" 94# J-55	Kittaning Coal	919	924	AIR	bwoc CaCl 40% Excess	Centralized every 3 joints to surface	of one hole volume with Fresh Water prior to	thickness Burst=2110 psi		
x			x		1000	Fresh Water Protection	0	1000		Yield=1.20 / CTS		pumping cement.	Buist-2110 psi		
				THE					.5	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl	Bow Spring on every	Once casing is at setting depth, Circulate and			
				17.5°	13-3/8" 68#	Big Lime	1480	1545	AIR / KCL	40% Excess / Tail: 15.9	joint 'will also be running	condition at TD. Circulate a	Intermediate casing = 0.48 wall thickness		
X			X	11.50	J-55 BTC	Injun / Gantz (Storage)	1545 / 1830	1650 / 1890	Polymer	ppg PNE-1 + 2.5% bwoc CaCl	ACP for isolating	minimum of one hole volume prior to pumping	Burst=3450 psi		
		*				Intermediate 1	0	2040		zero% Excess. CTS	storage zone*	cement,			
X			x	7		Fifty / Thirty Foot	1940 / 2037	1965 / 2060	0	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9		Once casing is at setting			
		>			0.51011.1012	Gordon Stray / Gordon	2060 / 2130	2130 / 2220	AIR / KCL		Bow Spring on first 2 joints then every third	depth, Circulate and condition mud at TD.	Intermediate casing = 0.39		
				12.25"	9-5/8" 40# J-55 BTC	5th Sand	2320	2360	Salt	ppg PNE-1 + 2.5% bwoc	joint to 100' form	Circulate a minimum of one	wall thickness Burst=3950 psi		
X					×		110000	Bayard Sand	2405	2420	Polymer	CaCl zero% Excess, CTS	surface	hole volume prior to pumping cement.	Bulat-0000 pai
						Intermediate 2	0	2750		Zeito /e Excess, C15		pumping cement			
X		X	10			Speechley	3025	3041			Run 1 spiral centralizer				
				8 5" Vertical		Balitown	3250	3290	AIR / 9.0ppg	10.00.00	every 5 joints from the				
				8.5° Vertical		Benson	4340	4350	SOBM	Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc	top of the curve to surface.				
						Rhinestreet	6107	6377		EC1 + 0.75 gal/sk		Once on bottom/TD with			
124						Cashagua	6377	6477		FP13L + 0.3% bwoc MPA170		casing, circulate at max allowable pump rate for at	Production casing = 0.41		
×		×			5-1/2"	Middlesex	6477	6509	44.5	Tall: 14.8 ppg PNE-1 +		least 2x bottoms up, or until returns and pump	wall thickness Burst=16240 psi		
				8.5" Curve	23# P-110 HP	West River	6509	6580	11.5ppg- 12.5ppg	0.35% bwoc R3 + 0.75 gal/sk FP13L + 50%	12 6253	pressures indicate the hole	Note:Actual centralizer		
-31				1000	CDC HTQ	Burkett	6580	6590	SOBM	bwoc ASCA1 + 0.5%	Run 1 spiral centralizer	is clean. Circulate a	schedules may be change due to hole conditions		
		4				Tully Limestone	6590	6698		bwoc MPA170 20% Excess	every 3 joints from the 1st 5.5" long joint to the	volume prior to pumping	due to flore conditions		
				0		Hamilton	6698	6753		Lead Yield=1.19	top of the curve.	cement.			
						Marcellus	6753	6835	330.0	Tail Yield=1.94 CTS					
				8.5" Lateral		TMD / TVD (Production)	19525	6800	11.5ppg- 12.5ppg SOBM						
X		X				Onondaga	6835		CODIE						
		100		X	X	X	X		X	X	X .	X	X		
			LP @ 680	0' TVD / 7373' MD			8.5" Hole - Cement 5-1/2" 23# P-110 I		1		+/-121	52' ft Lateral	TD @ +/-8800' TVD +/-19525' MD		
	Х			X	X	X	X		X	X	X	X	X=centralizers		

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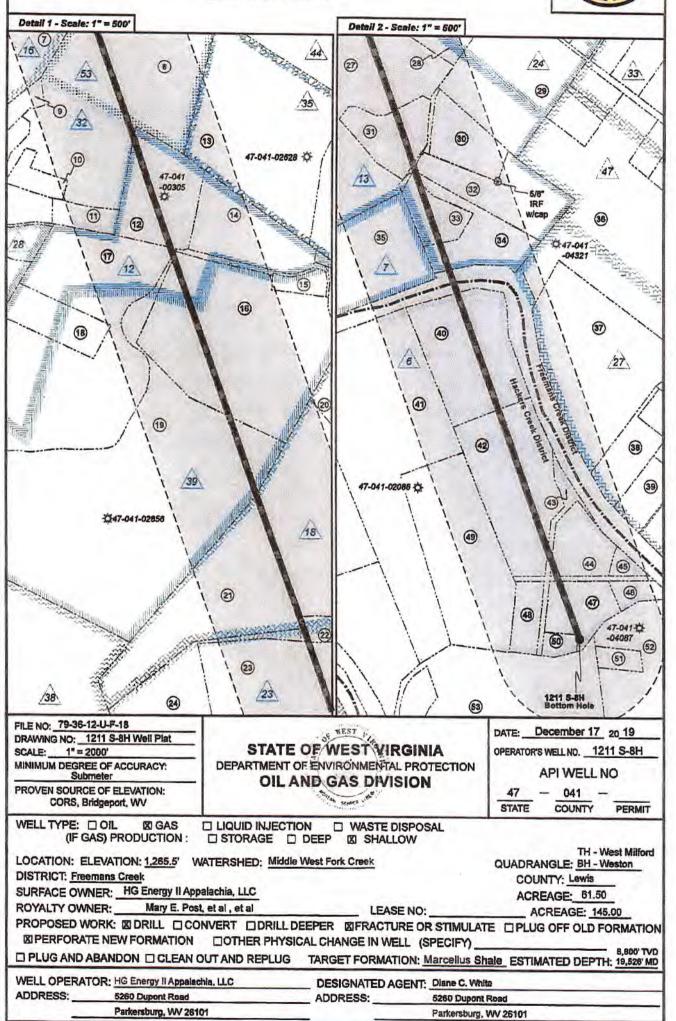
HG Energy II Appalachia, LLC Well No. 1211 S-8H

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HG Energy II Appalachia, LLC Well No. 1211 S-8H

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No.	TM / Par	Owner	Bk/Pg	AC
1	7B / 10	HG Energy II Appalachia, LLC	730 / 677	61.50
2	7B/9	Brincefield Family Trust	588 / 740	56.76
3	6B / 41	Brincefield Family Trust	588 / 740	71.62
4	78 / 9.2	Brincefield Family Trust	588 / 740	10.51
5	7B / 9.1	Frank McDonald	479/8	3.73
6	7B / 11	HG Energy II Appalachia LLC	730 / 677	54.50
7	6B / 47	Michael A. & Christine A. Cutlip	648 / 51	71.00
8	7071	William B. & Teresa A. McCornick	605 / 385	22.75
B	70/1.2	Timothy J. & Tawney A. Wyatt	509 / 18	0.77
10	7C/1.4	Joyce Lea Williams	638 / 86	1.11
11	70/2	Robert A. & Jane E. Hom	515 / 121	1,19
12	7C/6	Beverly Ann Beam	453 / 353	5.66
13	7C/32	Kelvin G. & Trent M. Williston	673 / 869	16,08
14	7C / 30.5	Timothy E. Beam	537 / 254	5,32
15	7C/31	Francis C. Smith	488 / 376	0.75
18	7C/30	John & Bette Gerath	429 / 689	_
17	7C / 6.3	Clinton C. & Gerilyn H. Beam		19.16
18	7C / 6.1	Clinton C. & Gerilyn H. Beam	636 / 200	19.33
19	7C/6.2	Bette Garath	556 / 174	3.00
20	7C / 30.8		412/593	36.15
21		Russell E. & Catherine F. Kems	652 / 128	4.75
22	7C / 29 7C / 29.1	Betsy L. & Miquel A. Rodriguez	717/329	24.43
23	7C / 29.1	Daniel L Truman	712 / 544	4.82
_		Charles D. & Linda Bailey	653 / 713	42.15
25	70/8	Bette Garath Fred Allen Bailey	397 / 214	20.00
-	70/22		452 / 268	35.35
28	7C / 25	Fred Allen Bailey	452 / 268	32,27
27	70 / 22.2	William B. Williams II	593 / 139	28,69
28	7C/23	Fred Allen Bailey	452 / 268	6.02
29	7C / 51	Nathan King	720 / 789	9.75
30	7C / 21	Michael S. & Mary Beth Furby	593 / 248	3,00
31	7C / 22.1	Allen B. Jerden	301/77	3.35
32	7C / 20,1	Daniel R. & Glenna M. Johnston	726 / 830	3.00
33	7C / 20,2	Timothy P. & Glenda R. Weber	603 / 649	2.10
34	7C / 20	Edward W. Holden	726 / 826	5.20
35	7C / 19	Nina R. Chapman, et al	685 / 345	9.11
36	7C / 53.4	Jeremy & Jenny L. Garton	532 / 665	37.21
37	7C / 52.7	Jeremy & Jenny L. Garton	549 / 373	14.03
38	7C / 59	Jeremy & Jenny L Garton	/	2,58
39	7C/54	Joseph & Malissa Miller	/	1.91
40	7C/2	James A. & Carol Trefz Smith	343 / 60	9,50
41	7D/2	Donna M. & Aubrey E. Smith, Jr.	677 / 726	20.25
42	7D/60	John & Phylis Porterfield	427 / 687	10.00
43	7D / 61	John & Phylis Porterfield	427 / 687	0.48
44	7D/17	Tyrone D, & Arny B, Campbell	584 / 543	2.73
45	7D / 18	John & Phylia Porterfield	427 / 691	0.58
46	70/21	Tyrone D. & Arny B. Campbell	597 / 615	0.67
47	7D/19	John & Phylis Porterfield	427 / 691	2.50
48	70/15	John & Phylis Porterfield	427 / 691	1.57
49	70 / 16	Ricky W. & Kristine L. Frame	870 / 717	10.75
50	7D / 14	John & Phylis Porterfield	427 / 691	0.47
51	7D / 20	James A. & Carol Trefz Smith	343 / 89	0.74
52	7D / 12	James A. & Carol Trefz Smith	343 / 60	
53	7D/13	Christine G, & Paul R, Myers		28.68
54	7D / 12.1	Randall D. & Leanna M. Louk	657 / 110	33.36
17		36-12-U-F-18	575 / 73	7.21

DRAWING NO: 1211 S-8H Well Plat

MINIMUM DEGREE OF ACCURACY:

Submeter

PROVEN SOURCE OF ELEVATION:

DISTRICT: Freemans Creek

ROYALTY OWNER: \_

ADDRESS:

CORS, Bridgeport, WV

WELLTYPE: OIL IS GAS

(IF GAS) PRODUCTION:

5260 Dupont Road

Parkersburg, WV 26101

1" = 2000"

SCALE:

Office of Oil and Gas

FEB 0 3 2020

WV Department of Environmental Protection

10	Lease
8	Mary E. Clark, et vir, et al
7	W.A. Chittum, et ux, et al
B	T.S Ailman, et al
10	J.L. Post, et al
11	W.D. Hitt et al
12	G.C. Smrth
13	Bertha H. Nay, et al
15	C.W. Smith, et al
16	P.C. Allman, et al
17	Maggie Cottrill
18	Cordelia Bailey
19	Henry L. Frashuer, et al
20	E.C. Strother, et al
22	C. Burke Morns, et al
23	C. Burke Morris, et al
24	A.B. College Inc.
27	E.R. Bennett, et al
28	M.G. Metheny, et al
29	J.L. Allman, et al
30	W.D. Allman, et al
32	J L. Allman, et al
33	H.A. Fletcher, et al
35	Jesse Leeson, et al
36	George W. Nelly, et al
38	C. Burke Morris, et al
39	Cyrus W. Smith, et al
44	T.P. Barb. et al
45	Mary E. Post, et al
47	Minter E. Bailey
53	HG Energy II Appalachia, LLC
54	HG Energy II Appalachia, LLC
N18	Arthur Beeghley & et al
N19	James Beeghley, et al

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION DATE: December 17 20 19 OPERATOR'S WELL NO. 1211 S-8H API WELL NO OIL AND GAS DIVISION - 041 STATE COUNTY PERMIT ☐ LIQUID INJECTION ☐ WASTE DISPOSAL STORAGE DEEP SHALLOW TH - West Milford LOCATION: ELEVATION: 1.265.5' WATERSHED: Middle West Fork Creek QUADRANGLE: BH - Weston COUNTY: Lewis SURFACE OWNER: HG Energy II Appalachia, LLC ACREAGE: 61.50 Mary E. Post, et al , et al LEASE NO: ACREAGE: 145.00 PROPOSED WORK: Ø DRILL ☐ CONVERT ☐ DRILL DEEPER ØFRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION ☑ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) □ PLUG AND ABANDON □ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 19,528'MD WELL OPERATOR: HG Energy II Appellachia, LLC DESIGNATED AGENT: Diene C. White

5260 Dupont Road

Parkersburg, WV 26101

ADDRESS:

Operator's Well No. McDonald 1211 S-8H

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

#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy II Appalachia, LLC	OP Code 494501907	
	le West Milford 7.5'	
Do you anticipate using more than 5,000 bbls of water to complete the propose	d well work? Yes	No
Will a pit be used? Yes No		
If so, please describe anticipated pit waste: NA		
Will a synthetic liner be used in the pit? Yes No	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	location)	
Will closed loop system be used? If so, describe: Yes, cuttings and fluids will be collected in a	closed loop system, re-used or hauled to an app	roved disposal site or landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshv	vater, oil based, etc	KCL, Alr/SOBM, Horizontal - SOBM
-If oil based, what type? Synthetic, petroleum, etc. Synthetic		
Additives to be used in drilling medium? Water, Soap, KCI, Barite, Base Oil, Wettir	ig Agents	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. A	proved 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		
West Virginia solid waste facility. The notice shall be provided within 24 hours where it was properly disposed.	s of rejection and the permittee	e shall also disclose
		TT-02 D - 5 - 13
I certify that I understand and agree to the terms and conditions of the on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department		
provisions of the permit are enforceable by law. Violations of any term or co		
law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and	am familiar with the inform	ation submitted on this
application form and all attachments thereto and that, based on my inquir	ry of those individuals imme	ediately responsible for
obtaining the information, I believe that the information is true, accurate, a		nat there are significant
penalties for submitting false information, including the possibility of fine or in	RECEI	VED
Company Official Signature Diane White	Office of Oil	and Gas
Company Official (Typed Name) Diane White	FEB 0.5	3 2020
Company Official Title Agent	WV Depart	ment of
	Environmenta	Protection
Subscribed and sworn before me this 23rd day of September	, 20 19	
(1.11ec	Notary Public	OFFICIAL SEAL NOTARY PUBLIC. STATE OF WES MARK J SCHALL
		H G Energy LLC PO Box 5519, Vienna, WV
My commission expires 11 / 2 / 2021		My Commission Expires Novemb

		22.75 P	. 1
Proposed Revegetation Treat			Н
Lime		ect to pH	
Fertilizer type10		500 lbc/acre	
Fertilizer amount		105/ acre	
<sub>Mulch</sub> 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	and proposed area for lan oit will be land applied, ind on area	illing and completion process  and application (unless engineered plans include clude dimensions (L x W x D) of the pit, and	
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involve.	and proposed area for lan pit will be land applied, in on area.	nd application (unless engineered plans included imensions (L x W x D) of the pit, and	
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:	and proposed area for land will be land applied, in on area.  yed 7.5' topographic sheet.	nd application (unless engineered plans include clude dimensions (L x W x D) of the pit, and	d dimensions (L x W), and
Attach: Maps(s) of road, location, pit provided). If water from the pacreage, of the land application of involve Plan Approved by:  Comments:  Pre-seed/	and proposed area for land will be land applied, incon area.  yed 7.5' topographic sheet  aug Still  mulch as soon a	as reasonably possible per	d dimensions (L x W), and
Attach: Maps(s) of road, location, pit provided). If water from the pacreage, of the land application of involve Plan Approved by:  Comments:  Pre-seed/	and proposed area for land will be land applied, incon area.  yed 7.5' topographic sheet  aug Still  mulch as soon a	nd application (unless engineered plans include clude dimensions (L x W x D) of the pit, and	d dimensions (L x W), and
Attach: Maps(s) of road, location, pit provided). If water from the pacreage, of the land application of involve Plan Approved by:  Comments:  Pre-seed/	and proposed area for land will be land applied, incon area.  yed 7.5' topographic sheet  aug Still  mulch as soon a	as reasonably possible per DEP E&S manual.	d dimensions (L x W), and
Attach: Maps(s) of road, location, pit provided). If water from the pacreage, of the land application of involve Plan Approved by:  Comments:  Pre-seed/	and proposed area for land will be land applied, incon area.  yed 7.5' topographic sheet  aug Still  mulch as soon a	as reasonably possible per DEP E&S manual.  RECEIVED Office of Oil and Gas	d dimensions (L x W), and
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 land will be land applied, incon area.  yed 7.5' topographic sheet  aug Still  mulch as soon a	as reasonably possible per DEP E&S manual.  RECEIVED Office of Oil and Gas	d dimensions (L x W), and
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Attach: Maps(s) of road, location, pit provided). If water from the pacreage, of the land application of involve Plan Approved by:  Comments:  Pre-seed/	and proposed area for land will be land applied, in on area.  Yed 7.5' topographic sheet.  Many Soon a mulch as soon a eeded per WV I	as reasonably possible per DEP E&S manual.  RECEIVED Office of Oil and Gas  FEB 0 3 2020	regulation.

## 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 Lane Washington, PA 15301 724-222-3272

Environmental Coordination Services & Recycling (ECS&R) 8237 US Highway 19 Cochranton, PA 16314 814-425-7778

#### Disposal Locations:

Apex Environnemental, LLC Permit # 06-08488 11 County Road 78 Amsterdam, OH 48903 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 # PAD004835146 / 301071, 283 Max Lane
Yukon, PA 25968
724-722-3500

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

Waste Management Kelly Run Permit # 100663 1901 Park Side Drive Elizabeth, PA 15087 412-884-7569

Waste Management South Hills (Arnoni) Permit # 100592 9100 Hill Road Library, PA 15129 724-348-7013 412-384-7569

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

Waste Management Meadowfill Permit # 1032 1.488 Dawson Drive Bridgeport, WV 26390

Brooke County Landfill Permit # SWF-108-97 / WV 0109029 Rd 2 Box 410 Colliers, WV 26025 304-748-0014 Office of Oil and Gas

FEB 0 3 2020

Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 158A New Martinaville, WV 26035 804-455-3800

Energy Solutions, LLC Permit # UT 2800249 423 West 300 South Suite 200 Salt Lake City, UT 84101

Energy Salutions Services, Inc. Permit # R-75006-L24 1,560 Bear Creek Road Oak Ridge, TN 37830

Northern A-1 Environnemental Services Permit ID MID020906814 3947 US 131 North, PO Box 1030 Kalkaska, MI 49646 281-258-9961

#### Water Haul off Companies:

Dynamic Structures, Clear Creek DOT #720485 3790 State Route 7 New Waterford, OH 44445 890-892-0164

Nabors Completion & Production Services Co. PQ Box 976682 Dallas, TX 75397-5882

Select Energy Services, LLC PO Box 208997 Dallas, TX 75320-3997

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

Mustang Olifield Services LLC PO Box 789 St. Clairaville, OH 48950

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 # 02-20753 6065 Arrel-Smith Road Lowelville, OH 44436 880-586-6825

Adams #1 (Buckeye Brine, LLC) Permit # 34-031-2-7177 28986 Airport Road Coshocton, OH 43812 740-575-4484 512-478-6545

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

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

Sala 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

Burna Drilling & Excavating 618 Crabapple Road P.O. Box Wind Ridge, PA 15880

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

Groselle (SWIW #34) Permit # 4096 Rt. 88 Garrettsville, OH 719-275-4816

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 43767 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 612-478-6645

Adams #8 (Buckeye Brîne, LLC) Permit #34-031-2-7241-00-00 2680 Exposition, Suite 117 Austin, TX 78703 612-478-6545

Mozena #1 Well (SWIW # 18) Permit # 84-157-2-5511-00-00 5867 E. State Street Newcomerstown, OH 48882 740-768-3966

Goff SWD #1 (SWIW # 27) Permit # 84-119-2-8776-000 800 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-829-7276

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

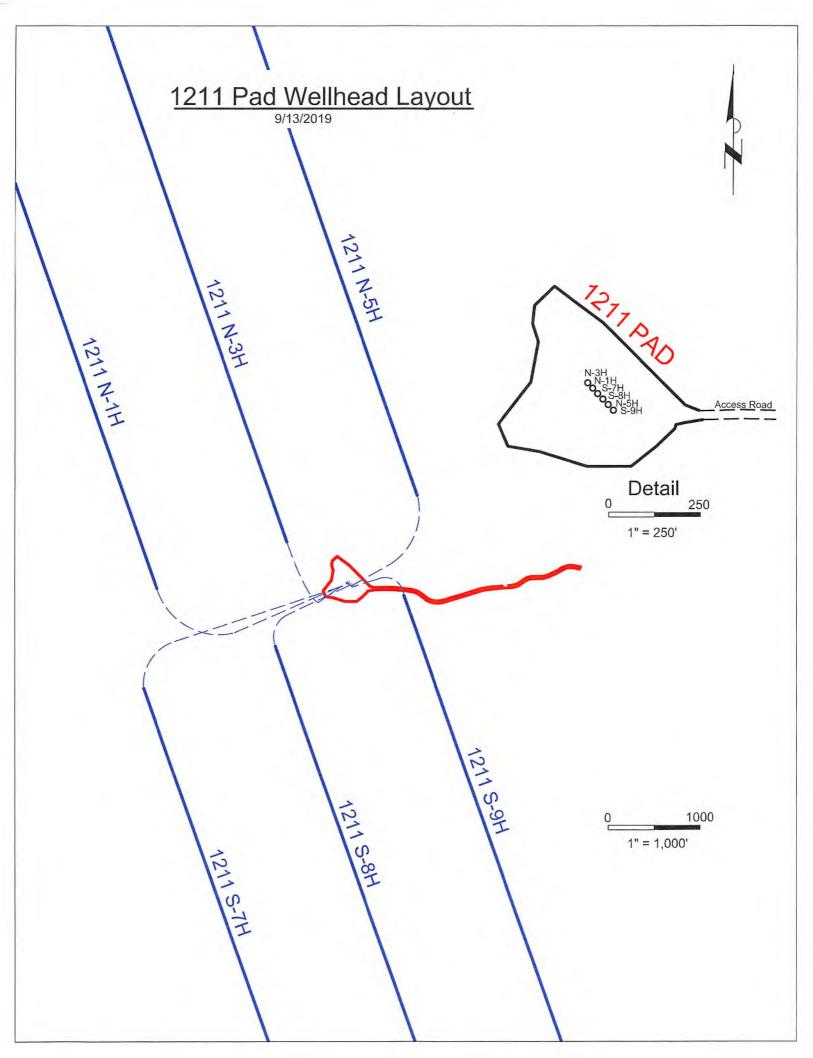
Dudley #1 UIC (SWIW #1)
Permit # 34-121-2-2459-00-00
Select Energy Services, LLC
7994 S. Pleasants Hwy
St. Marys, WV 26170
304-665-2652

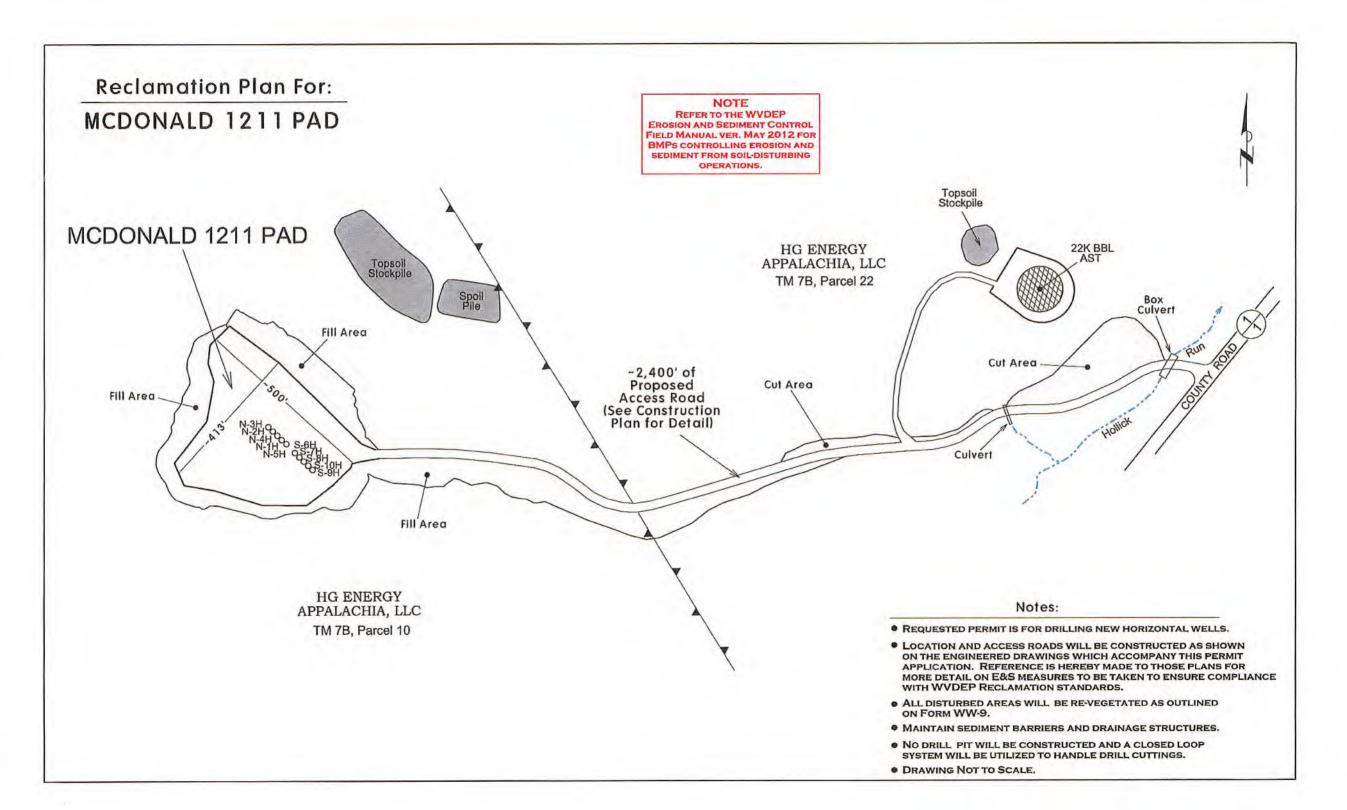
OH UIC #1 Bu keya UIC Barnesville 1 & 2 CNX Gas Com. #any, LLC 1000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-323-6568

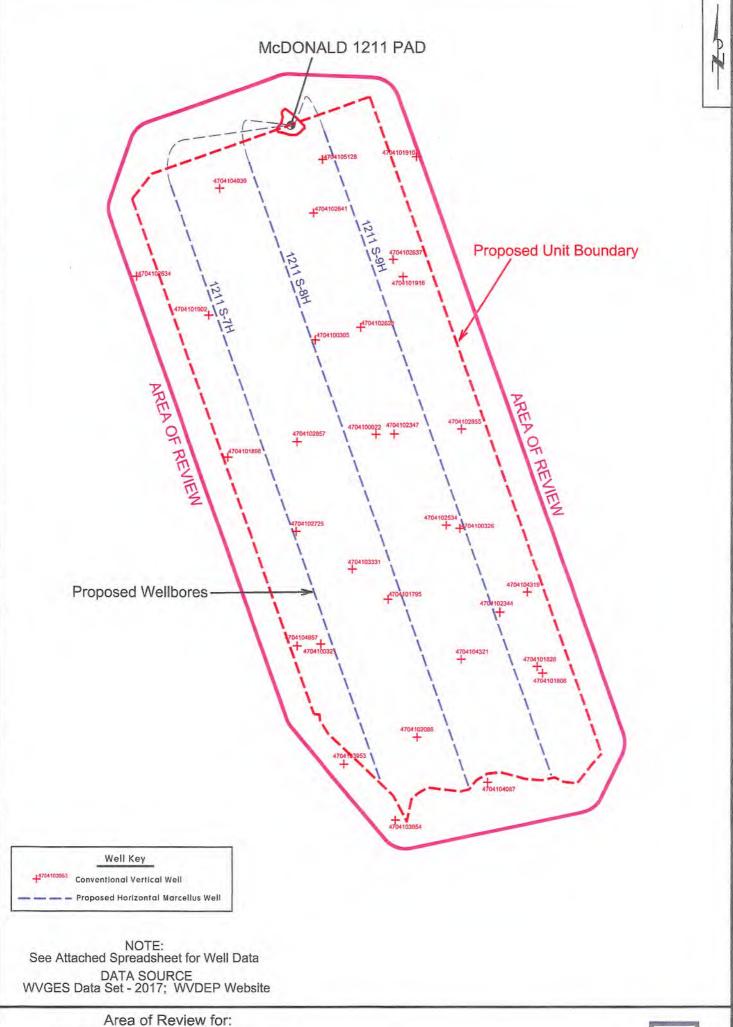
US Steele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15730 804-828-6568

Chapin #7 UIC (SWIW #7)
Permit # 84-088-2-4187-00-00
Eikhead Gas& Oil Company
12168 Marne Rd. NE
Newark, OH 43055
740-768-3966

office of Oil and Gas
FEB 0 3 2020
FEB No 2020
FEB No







#### McDONALD 1211 PAD

Proposed 1211 S-7H Proposed 1211 S-8H Proposed 1211 S-9H

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

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





1/15/2020

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

#### McDONALD 1211 SOUTH UNIT AND PROPOSED WELLS S-7H, S-8H & S-9H

СТ	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4704100022	Lewis	Lovett, N.	Dominion Energy Transmission, Inc.	Balltown	Gas	3062	ACTIVE	39.118421	-80,468945
2	4704100305	Lewis	E C Fletcher	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	3134	ACTIVE	39.123199	-80.472846
3	4704100321	Lewis	W A Chittum	Dominion Energy Transmission, Inc.	UNKNOWN	Observation		ACTIVE	39.107875	-80.472600
4	4704100326	Lewis	W F Garton	Hope Natural Gas Company	Hampshire Grp	Gas	2090	UNKNOWN	39.113636	-80.463546
5	4704101795	Lewis	Bertha H Nay	Dominion Energy Transmission, Inc.	Benson	Gas	4240	ACTIVE	39.110099	-80,468219
6	4704101808	Lewis	Frank/Lillie Swisher	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	2131	ACTIVE	39.106351	-80,458236
7	4704101826	Lewis	Minter E Bailey	Dominion Energy Transmission, Inc.	Benson	Gas	4165	UNKNOWN	39.106691	-80.458584
8	4704101898	Lewis	Kenneth Burrough	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4521	ACTIVE	39.117322	-80,478562
9	4704101902	Lewis	Marie Clevenger/R Clevenger	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4270	ACTIVE	39.124485	-80.479733
10	4704101910	Lewis	Leon S/E Lucille Rastle	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	3310	ACTIVE	39.132381	-80.466204
11	4704101916	Lewis	Kelvin G Williston	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4320	ACTIVE	39.126334	-80.467110
12	4704102086	Lewis	Olga M Smith 2	Alliance Petroleum Co. LLC	Benson	Gas	4241	ACTIVE	39.103155	-80.466389
13	4704102344	Lewis	H Fletcher	Charity Gas, Inc.	UNKNOWN	Gas	4	ABANDONED	39.109423	-80.460972
14	4704102347	Lewis	C Bailey	Dominion Energy Transmission, Inc.	UNKNOWN	Gas		ACTIVE	39.118435	-80.467751
15	4704102534	Lewis	C B Morris	Dominion Energy Transmission, Inc.	Benson	Gas	4225	ACTIVE	39,11,3809	-80.464422
16	4704102628	Lewis	Jesse Lesson	Dominion Energy Transmission, Inc.	UNKNOWN	STORAGE	- 3	ACTIVE	39.123812	-80.469890
17	4704102634	Lewis	T S Allman	Dominion Energy Transmission, Inc.	UNKNOWN	STORAGE	0-0	ACTIVE	39.126443	-80.484399
18	4704102637	Lewis	Mckinley & Barb	Dominion Energy Transmission, Inc.	UNKNOWN	STORAGE	ni e la la	ACTIVE	39.127211	-80.467745
19	4704102641	Lewis	Mary E Post	Dominion Energy Transmission, Inc.	UNKNOWN	STORAGE	1.45	ACTIVE	39.129572	-80.472914
20	4704102725	Lewis	John Gerath	Dominion Energy Transmission, Inc.	Balltown	Gas	3333	ACTIVE	39.113526	-80.474162
21	4704102855	Lewis	Allman Heirs	Dominion Energy Transmission, Inc.	UNKNOWN	Observation		ACTIVE	39,118657	-80.463391
22	4704102857	Lewis	C W Smith	Dominion Energy Transmission, Inc.	Fifth	Gas	2238	ABANDONED	39,118077	-80.474058
23	4704103331	Lewis	C F Bailey	Dominion Energy Transmission, Inc.	Gantz	Storage	2154	PLUGGED	39.111615	-80.470527
24	4704103953	Lewis	WVU - 4H Camp	Enervest Operating, LLC	Benson	Gas	4183	PLUGGED	39.101820	-80.471144
25	4704103954	Lewis	WVU - 4H Camp	Enervest Operating, LLC	Benson	Gas	4200	PLUGGED	39.098989	-80.467825
26	4704104087	Lewis	James Alonzo/C T Smith	Enervest Operating, LLC	Greenland Gap Fm	Gas	4169	ACTIVE	39.100885	-80.461831
27	4704104319	Lewis	M A Jerden/J V Garton 1	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4365	ACTIVE	39.110428	-80.459202
28	4704104321	Lewis	Jeremy/Jenny Garton 1	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4310	ACTIVE	39.107064	-80.463507
29	4704104939	Lewis	Robert/Terry Brincefield	Dominion Energy Transmission, Inc.	Misc Sands-BNSN/BRLR	Gas	4658	ACTIVE	39.130854	-80,478987
30	4704104957	Lewis	Hayward Allman	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	4355	ACTIVE	39,107786	-80.474138
31	4704105128	Lewis	Michael McDonald	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4320	ACTIVE	39.132274	-80,472291
32								Office of Oil and Gas		
								EFO A A socs	,	
				<u> </u>	YELLOW DENOTES	WELL WITH TVD > 4,5	00'	GREEN DEN	OTES SURVEYED	WELLS



January 17, 2020

Hope Natural Gas Company Bank One Center, W Third Street Clarksburg, WV 26301

RE:

Area of Review - McDonald 1211 Well Pad (N-1H to N-5H, S-7H - S9H)

Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, is developing 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 6800' TVD) and existing conventional natural gas wells.

HG Energy anticipates conducting hydraulic fracturing of the McDonald 1211 Pad during the fourth quarter of 2020. We have identified conventional natural gas wells operated by your company within 500' of one of the newly planned laterals. 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.

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

Diane White

Enclosure

Office of Oil and Gas

FEB 0 3 2020



January 17, 2020

**Enervest Operating Company** 300 Capitol Street Charleston, WV 25301

RE:

Area of Review - McDonald 1211 Well Pad (N-1H to N-5H, S-7H - S9H)

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Sincerely,

Diane White

Diane White

Enclosure

RECEIVED
Office of Oil and Gas

FEB 0 3 2020



January 17, 2020

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, S-7H - S9H)

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Sincerely,

Diane white

Diane White

Enclosure

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Office of Oil and Gas

FFB 0 3 2020



January 17, 2020

CONSOL Gas Company 1000 CONSOL Energy Drive Cannonsburg, PA 16317

RE:

Area of Review - McDonald 1211 Well Pad (N-1H to N-5H, S-7H - S9H)

Hydraulic Fracturing Notice

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Sincerely, Diane white

Diane White

2 30000

Enclosure

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Office of Oil and Gas

FEB 0 3 2020



January 17, 2020

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, S-7H - S9H)

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Sincerely,

Diane White

Diane White

Enclosure



January 17, 2020

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

RE:

Area of Review - McDonald 1211 Well Pad (N-1H to N-5H, S-7H - S9H)

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Sincerely,

Diane White

Diane White

Enclosure

Office of Oil and Gas

FEB 0 3 2020



January 17, 2020

Greylock Conventional, LLC. 500 Corporate Landing Charleston, WV 25304

RE:

Area of Review - McDonald 1211 Well Pad (N-1H to N-5H, S-7H - S9H)

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Sincerely,

Diane White

Diane White

Enclosure

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FEB 0 3 2020



January 17, 2020

Alliance Petroleum Company 101 McQuiston Drive Jackson Center, PA 16133

RE:

Area of Review - McDonald 1211 Well Pad (N-1H to N-5H, S-7H - S9H)

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Sincerely, Diane White

Diane White

Enclosure

RECEIVED Office of Oil and Gas

FEB 0 3 2020

## 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

Office of Office Gas

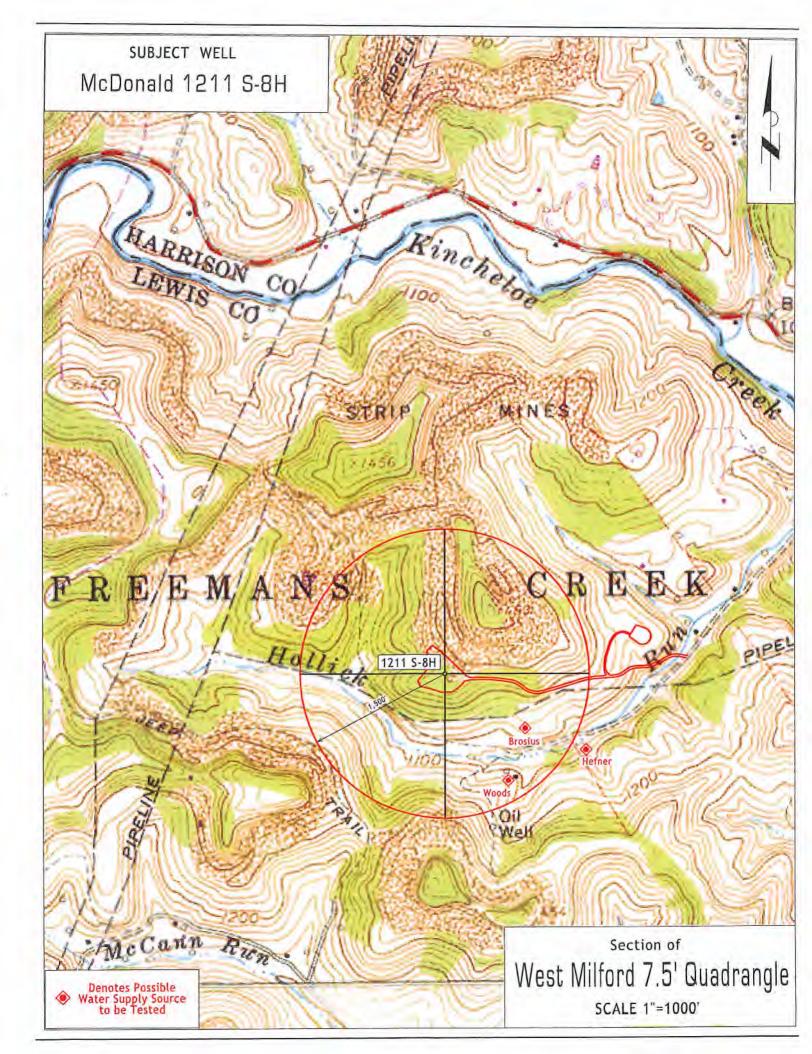
AUG 16 2019

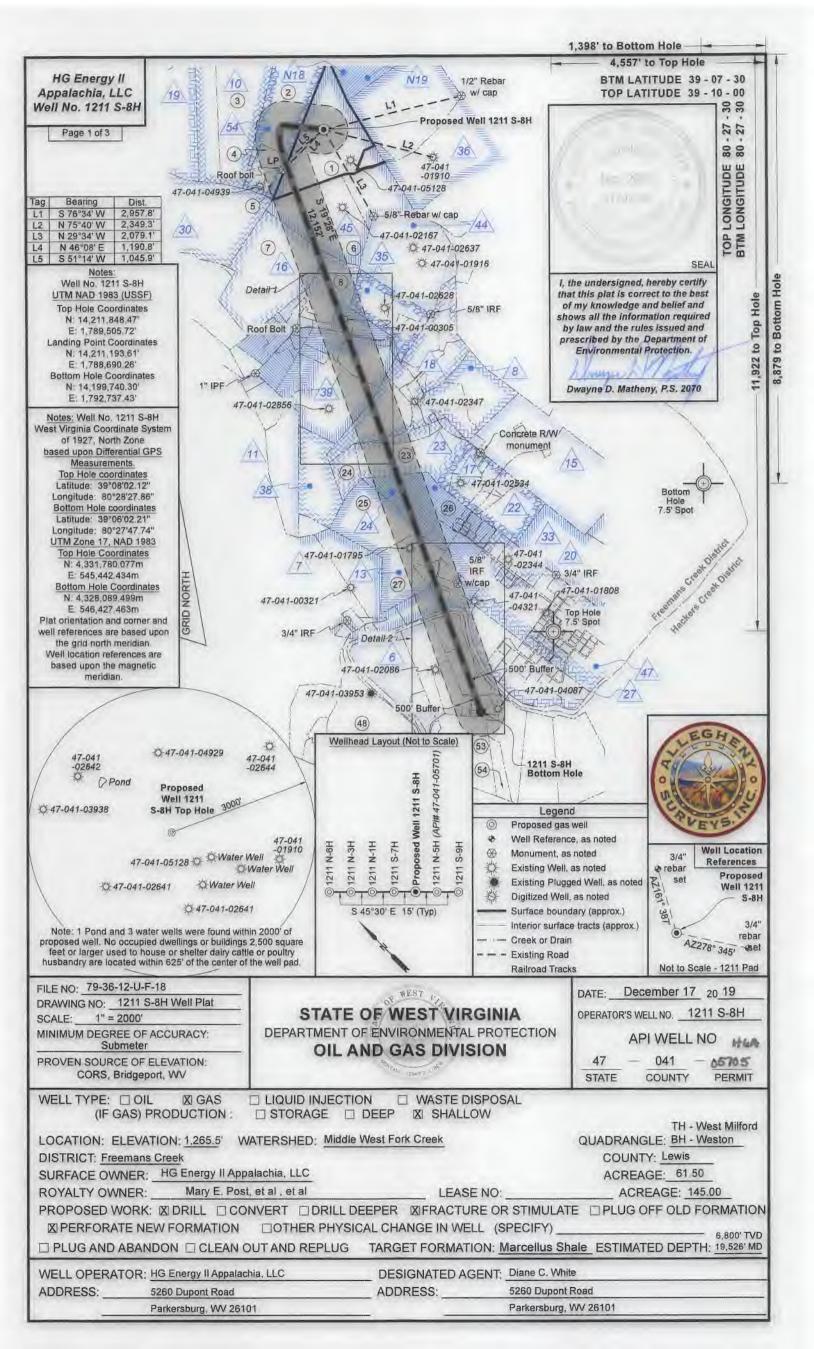
VIV Decision of Environmental Protection

Office of Oil and Gas

WV Department of Environmental Protection

Dany Story 8-12-19

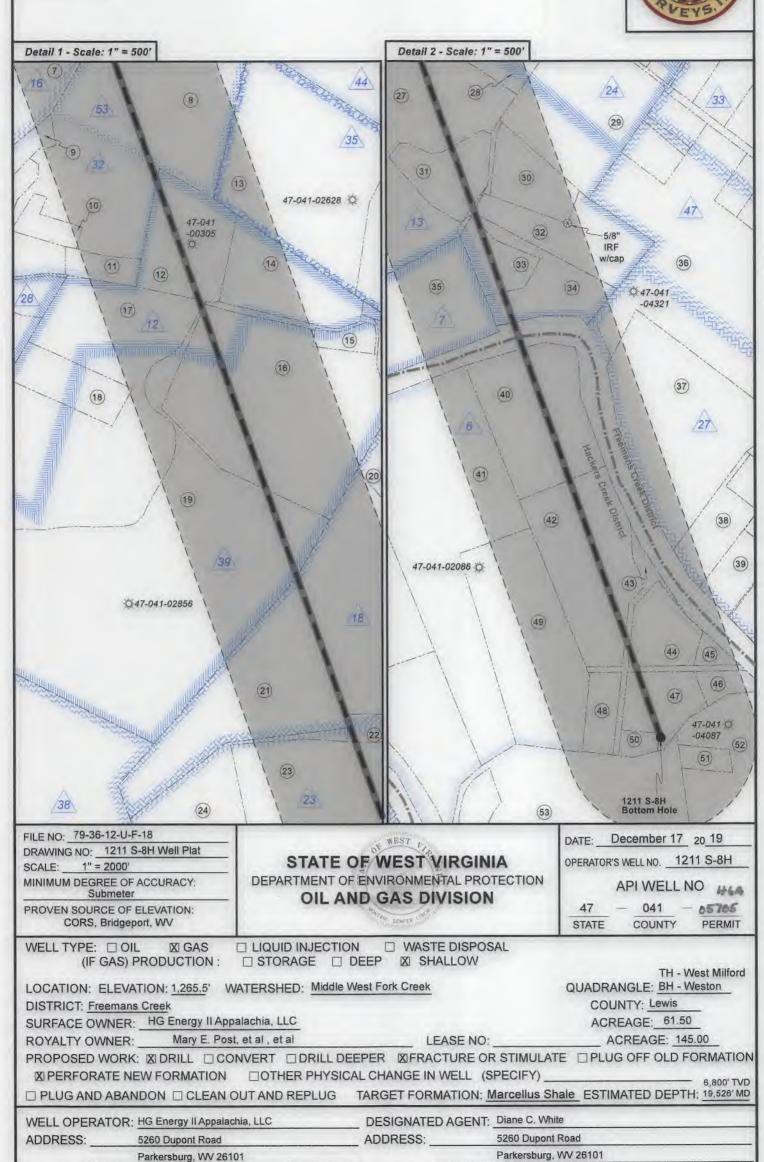




HG Energy II Appalachia, LLC Well No. 1211 S-8H

Page 2 of 3





Parkersburg, WV 26101

Page 3 of 3



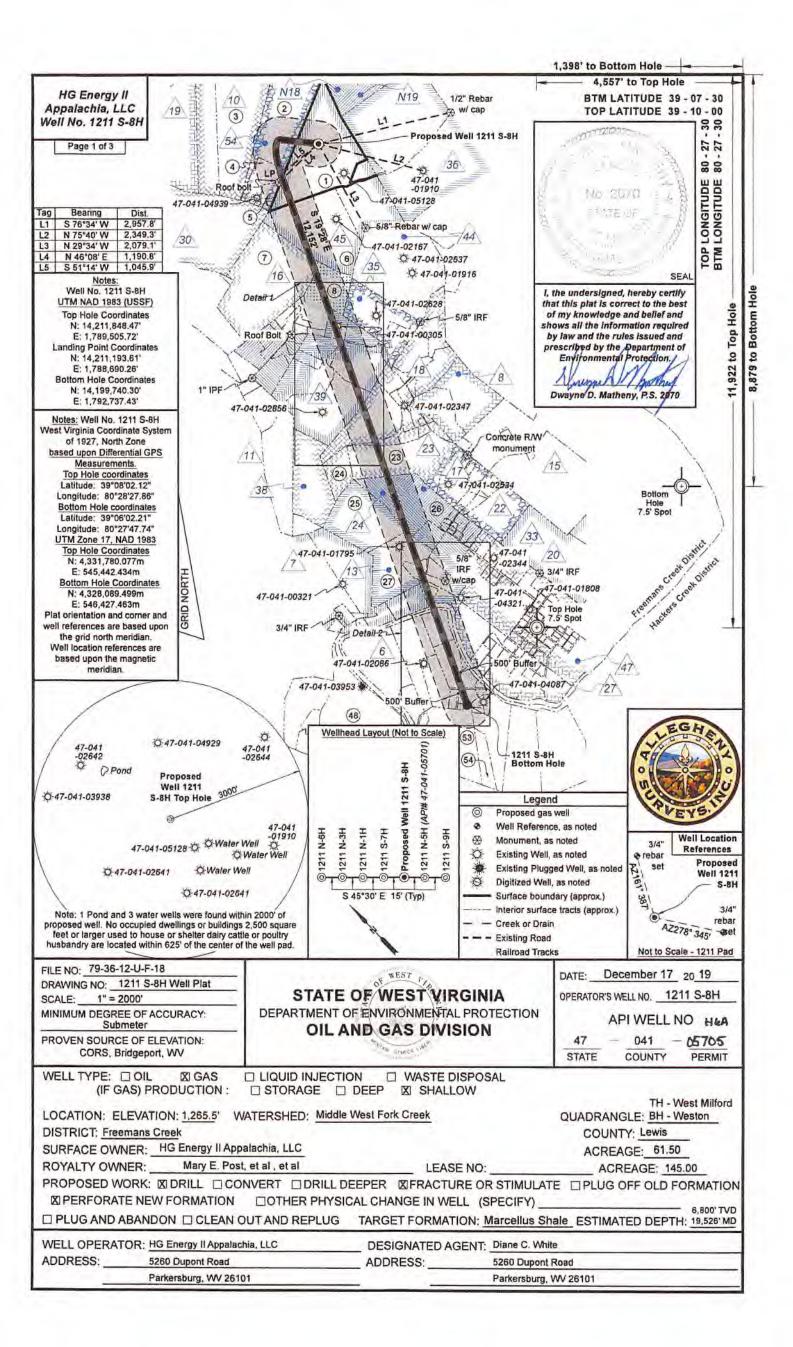
No.	TM / Par	Owner	Bk/Pg	Ac.
1	7B / 10	HG Energy II Appalachia, LLC	730 / 677	61.50
2	7B/9	Brincefield Family Trust	588 / 740	56.76
3	6B / 41	Brincefield Family Trust	588 / 740	71.62
4	7B / 9.2	Brincefield Family Trust	588 / 740	10.51
5	7B / 9.1	Frank McDonald	479 / 8	3.73
6	7B / 11	HG Energy II Appalachia LLC	730 / 677	54.50
7	6B / 47	Michael A. & Christine A. Cutlip	648 / 51	71.00
8	7C/1	William B. & Teresa A. McCormick	605 / 385	22.76
9	7C / 1.2	Timothy J. & Tawney A. Wyatt	509 / 18	0.77
10	7C / 1.4	Joyce Lea Williams	638 / 86	1.11
11	7C/2	Robert A. & Jane E. Horn	515 / 121	1.19
12	7C/6	Beverly Ann Beam	453 / 353	5.66
13	7C / 32	Kelvin G. & Trent M. Williston	673 / 669	16.08
14	7C / 30.5	Timothy E. Beam	537 / 254	5.32
15	7C / 31	Francis C. Smith	488 / 376	0.75
16	7C / 30	John & Bette Gerath	429 / 689	19.16
17	7C / 6.3	Clinton C. & Gerilyn H. Beam	636 / 200	19.33
18	7C / 6.1	Clinton C. & Gerilyn H. Beam	556 / 174	3.00
19	7C / 6.2	Bette Garath	412 / 593	36,15
20	7C / 30.8	Russell E. & Catherine F. Kerns	652 / 128	4.75
21	7C / 29	Betsy L. & Miquel A. Rodriguez	717 / 329	24.43
22	7C / 29.1	Daniel L. Truman	712 / 544	4.82
23	7C / 26.1	Charles D. & Linda Bailey	653 / 713	42.15
24	7C/8	Bette Garath	397 / 214	20.00
25	7C / 22	Fred Allen Bailey	452 / 268	35.35
26	7C / 25	Fred Allen Bailey	452 / 268	32,27
27	7C / 22.2	William B. Williams II	593 / 139	28,69
28	7C / 23	Fred Allen Bailey	452 / 268	6.02
29	7C / 51	Nathan King	720 / 789	9.75
30	7C / 21	Michael S. & Mary Beth Furby	593 / 248	3,00
31	7C / 22.1	Allen B. Jerden	301 / 77	3.35
32	7C / 20.1	Daniel R. & Glenna M. Johnston	726 / 830	3.00
33	7C / 20.2	Timothy P. & Glenda R. Weber	603 / 649	2.10
34	7C / 20	Edward W. Holden	726 / 826	5,20
35	7C / 19	Nina R. Chapman, et al	665 / 345	9.11
36	7C / 53.4	Jeremy & Jenny L. Garton	532 / 665	37.21
37	7C / 52.7	Jeremy & Jenny L. Garton	549 / 373	14.03
38	7C / 59	Jeremy & Jenny L. Garton	/	2.58
39	7C / 54	Joseph & Malissa Miller	/	1.91
40	7C/2	James A. & Carol Trefz Smith	343 / 60	9.60
41	7D/2	Donna M. & Aubrey E. Smith, Jr.	677 / 726	20.25
42	7D / 60	John & Phylis Porterfield	427 / 687	10.00
43	7D / 61	John & Phylis Porterfield	427 / 687	0.46
44	7D / 17	Tyrone D. & Amy B. Campbell	584 / 543	2.73
45	7D / 18	John & Phylis Porterfield	427 / 691	0.58
46	7D / 21	Tyrone D. & Amy B. Campbell	597 / 615	0.67
47	7D / 19	John & Phylis Porterfield	427 / 691	2.50
48	7D / 15	John & Phylis Porterfield	427 / 691	1.57
49	7D / 16	Ricky W. & Kristine L. Frame	670 / 717	10.75
50	7D / 14	John & Phylis Porterfield	427 / 691	0.47
51	7D / 20	James A. & Carol Trefz Smith	343 / 89	0.74
52	7D / 12	James A. & Carol Trefz Smith	343 / 60	28.68
53	7D / 13	Christine G. & Paul R. Myers	657 / 110	33.36
	100	The state of the s		20.00

ID	Lease
6	Mary E. Clark, et vir, et al
7	W.A. Chittum, et ux, et al
8	T.S. Allman, et al
10	J.L. Post, et al
11	W.D. Hitt, et al
12	G.C. Smith
13	Bertha H. Nay, et al
15	C.W. Smith, et al
16	P.C. Allman, et al
17	Maggie Cottrill
18	Cordella Bailey
19	Henry L. Frashuer, et al
20	E.C. Strother, et al
22	C. Burke Morris, et al
23	C. Burke Morns, et al
24	A.B. College Inc.
27	E.R. Bennett, et al
28	M.G. Metheny, et al
29	J.L. Allman, et al
30	W.D. Aliman, et al
32	J.L. Allman, et al
33	H.A. Fletcher, et al
35	Jesse Leeson, et al
36	George W. Nelly, et al
38	C. Burke Morris, et al
39	Cyrus W Smith, et al
44	T.P. Barb, et al
45	Mary E. Post, et al
47	Minter E. Bailey
53	HG Energy II Appalachia, LLC
54	HG Energy II Appalachia, LLC
N18	Arthur Beeghley & et al
N19	James Beeghley, et al.

PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: _	December	17 20 19
OPERATO	OR'S WELL NO.	1211 S-8H
	API WE	LL NO HEA
17	- 041	- ARTINE

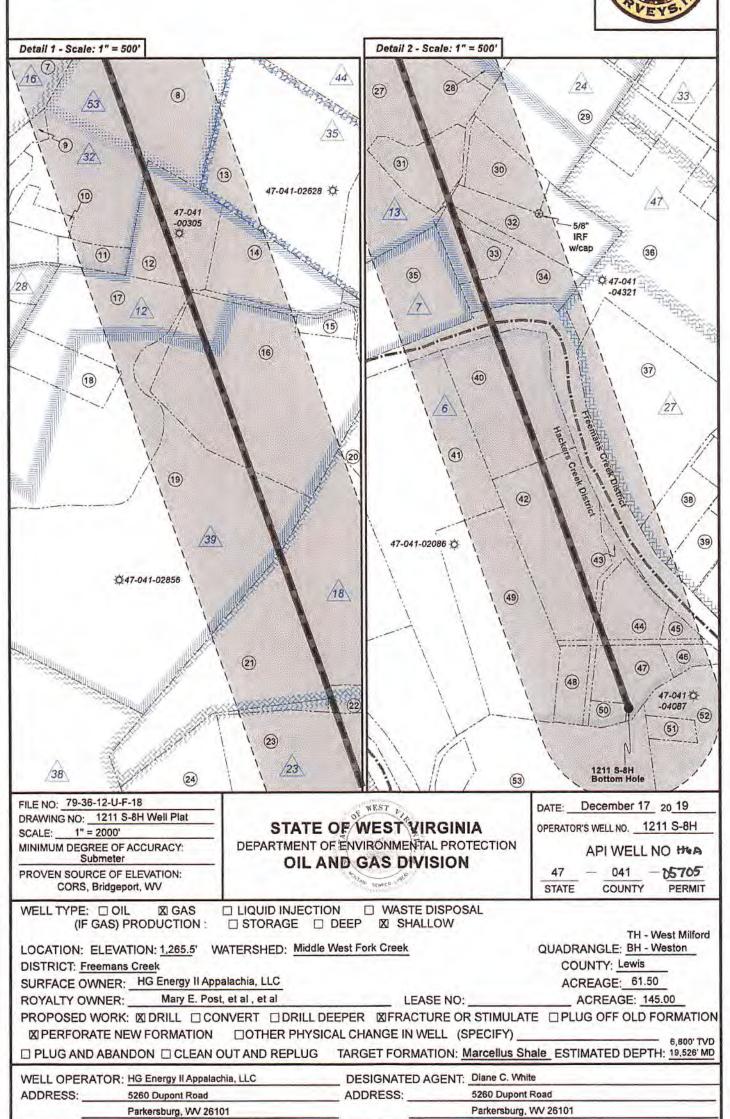
CORS, Bridgeport, WV		" STMPEN	ST	TATE	COUNTY	PERMIT
WELL TYPE: ☐ OIL ☑ GAS (IF GAS) PRODUCTION:	☐ LIQUID INJECTION☐ STORAGE☐ DEE	☐ WASTE DISPOSEP ☒ SHALLOW	SAL		TH - V	Vest Milford
LOCATION: ELEVATION: 1,265.5 WINDISTRICT: Freemans Creek SURFACE OWNER: HG Energy II Appl	ATERSHED: Middle West	Fork Creek	QU	COUN	GLE: BH - V TY: Lewis AGE: 61.50	Veston
ROYALTY OWNER: Mary E. Post		LEASE NO:		ACF	REAGE: 14	5.00
PROPOSED WORK: ☑ DRILL ☐ CO ☑ PERFORATE NEW FORMATION ☐ PLUG AND ABANDON ☐ CLEAN O	□OTHER PHYSICAL (	CHANGE IN WELL (S	SPECIFY)			6,800' TVD
WELL OPERATOR: HG Energy II Appalace	nia, LLC	ESIGNATED AGENT:	Diane C. White			
ADDRESS: 5260 Dupont Road	Α	DDRESS:	5260 Dupont Road			
Parkersburg, WV 2610	)1		Parkersburg, WV 26	3101		



HG Energy II Appalachia, LLC Well No. 1211 S-8H

Page 2 of 3





HG Energy II Appalachia, LLC Well No. 1211 S-8H

Page 3 of 3



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10	7C / 1.4	Joyce Lea Williams	638 / 86	1.11
11	7C/2	Robert A. & Jane E. Horn	515 / 121	1.19
12	7C / 6	Beverly Ann Beam	453 / 353	5.66
13	7C / 32	Kelvin G. & Trent M. Williston	673 / 669	16.08
14	7C / 30.5	Timothy E. Beam	537 / 254	5,32
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17	7C / 6.3	Clinton C. & Gerilyn H. Beam	636 / 200	19.33
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19	7C / 6.2	Bette Garath	412 / 593	36.15
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21	7C / 29	Betsy L. & Miquel A. Rodriguez	717 / 329	24.43
22	7C / 29.1	Daniel L. Truman	712 / 544	4.82
23	7C / 26.1	Charles D. & Linda Bailey	653 / 713	42.15
24	7C / 8	Bette Garath	397 / 214	20.00
25	7C / 22	Fred Allen Bailey	452 / 268	35.35
28	7C / 25	Fred Allen Bailey	452 / 268	32.27
27	7C / 22.2	William B. Williams II	593 / 139	28.69
28	7C / 23	Fred Allen Bailey	452 / 268	6.02
29	7C / 51	Nathan King	720 / 789	9.75
30	7C / 21	Michael S. & Mary Beth Furby	593 / 248	3.00
31	7C / 22.1	Allen B, Jerden	301 / 77	3.35
32	7C / 20.1	Daniel R. & Glenna M. Johnston	726 / 830	3.00
33	7C / 20.2	Timothy P. & Glenda R. Weber	603 / 649	2.10
34	7C / 20	Edward W. Holden	726 / 826	5.20
35	7C / 19	Nina R. Chapman, et al	665 / 345	9.11
36	7C / 53.4	Jeremy & Jenny L. Garton	532 / 665	37.21
37	7C / 52.7	Jeremy & Jenny L. Garton	549 / 373	14.03
38	7C / 59	Jeremy & Jenny L. Garton	/	2.58
39	7C / 54	Joseph & Malissa Miller		1.91
40	70/2	James A. & Carol Trefz Smith	343 / 60	9.60
41	7D/2	Donna M. & Aubrey E. Smith, Jr.	677 / 726	20.25
42	7D / 60	John & Phylis Porterfield	427 / 687	10.00
43	7D / 61	John & Phylis Porterfield	427 / 687	0.46
44	7D / 17	Tyrone D. & Amy B. Campbell	584 / 543	2.73
45	7D / 18	John & Phylis Porterfield	427 / 691	0.58
46	7D / 21	Tyrone D. & Amy B. Campbell	597 / 615	0.67
47	7D / 19	John & Phylis Porterfield	427 / 691	2.50
48	7D / 15	John & Phylis Porterfield	427 / 691	1.57
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50	7D / 14	John & Phylis Porterfield	427 / 691	0.47
51	7D / 20	James A. & Carol Trefz Smith	343 / 89	0.74
52	7D / 12	James A. & Carol Trefz Smith	343 / 60	28.68
53	7D / 13	Christine G. & Paul R. Myers	657 / 110	33.36
54	7D / 12.1	Randall D. & Leanna M. Louk	575 / 73	7.21

ID	Lease
6	Mary E. Clark, et vir, et al
7	W.A. Chittum, et ux, et al
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10	J.L. Post, et al
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12	G.C. Smith
13	Bertha H Nay, et al
15	C.W. Smith, et al
16	P.C. Allman, et al
17	Maggie Cottrill
18	Cordelia Bailey
19	Henry L. Frashuer, et al
20	E.C. Strother, et al
22	C. Burke Morris, et al
23	C. Burke Morris, et al
24	A.B. College inc.
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28	M.G. Metheny, et al
29	J.L. Allman, et al
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32	J L. Allman, et al
33	H.A. Fletcher, et al
35	Jesse Leeson, et al
36	George W. Nelly, et al
38	C. Burke Morris, et al
39	Cyrus W. Smith, et al
44	T.P Barb, et al
45	Mary E. Post, et al
47	Minter E. Bailey
53	HG Energy II Appalachia, LLC
54	HG Energy II Appalachia, LLC
N18	Arthur Beeghley & et al
N19	James Beeghley, et al

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

DRAWING NO: 1211 S-8H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION:

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

DATE:_	December	17	20_19
OPERATOR'S WELL NO.		12	11 S-8H

API WELL NO HOA

47 - 041 - 06705 STATE COUNTY PERMIT

CORS, Bridgeport, VVV			STATE C	OUNTY	PERMIT
		STE DISPOSAL HALLOW		TH. M	Vest Milford
LOCATION: ELEVATION: 1,265.5' WA	TERSHED: Middle West Fork Creek	k	QUADRANGL		California in the second
DISTRICT: Freemans Creek			COUNTY	200	
SURFACE OWNER: HG Energy II Appal	achia, LLC		ACREAG	E: 61.50	
ROYALTY OWNER: Mary E. Post,	et al , et al	LEASE NO:	ACRE	AGE: 145	5.00
PROPOSED WORK: ☑ DRILL ☐ CON ☑ PERFORATE NEW FORMATION					ORMATION 5.800' TVD
☐ PLUG AND ABANDON ☐ CLEAN OL	JT AND REPLUG TARGET FOR	RMATION: Marcellus Sha	le_ESTIMATE	D DEPTH	
WELL OPERATOR: HG Energy II Appalachi	a, LLC DESIGNAT	ED AGENT: Diane C. White			
ADDRESS: 5260 Dupont Road	ADDRESS:	5260 Dupont Re	oad		
Parkershire MA/ 28101		Parkarchura W	N/ 26101		

WW-6A1 (5/13)

Operator's Well No. McDonald 1211 S-8H

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

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

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

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

\*\* See Attached Sheets \*\*

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

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

- WV Division of Water and Waste Management
- 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	
RECEIVED	By:	Diane White	Diane White	
RECEIVED Office of Oil and Gas	Its:	Agent		
FFB 0 3 2020				

WV Department of Environmental Protection

#### McDonald 1211 S-8H LEASE CHAIN

TRACT#	LEGACY LEASE	TAVAAA	LEASE NUMBER	an	CDANITES / FCCES	ROYALTY	DEED BOOK	P/
RACI#	NUMBER	TAX MAP		GRANTOR/LESSOR	GRANTEE/LESSEE	ROTALIT	DEED BOOK	
	1			MARY E. POST; J. L. POST; F. L. POST AND B. J. POST, HIS WIFE; IDA B.			1 1	
	i i			GASTON AND CLARK GASTON, HER HUSBAND; G. W. POST AND FLAVA	DECEDAGE CAS COMPANIA	NOT LESS THAN 1/8	68	
	i			POST, HIS WIFE	RESERVE GAS COMPANY	CONFIRMATORY DEED	155	
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	294	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	ASSIGNMENT	425	
			1	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
i		03 0070 0040 0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.  DOMINION EXPLORATION & PRODUCTION, INC.	ASSIGNMENT	620	
	1	03-007B-0010-0000		DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	ASSIGNMENT	651	
45	FK053254	03-007B-0011-0000	Q10048600	DOMINION EXPLORATION & PRODUCTION, INC.		MEMORANDUM FARMOUT AGREEMENT	672	
		03-007B-0013-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
		p/o 03-007B-0010-0001		CNX GAS COMPANY LLC	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	
- 1				DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
ł				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
1				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSPIRESTON, INC.			
1						SECOND AMENDMENT TO MEMORANDUM OF	ll	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	
1	l			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	723	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY, LLC AND NOBLE ENERGY, INC	NOT LESS THAN 1/8	692	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	
			i	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
		03-007B-0009-0000 (052962 03-007B-0009-0001 03-007B-0009-0002	-007B-0009-0001	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
54	FK052962			NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
i	ŀ			DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
	i				,	SECOND AMENDMENT TO MEMORANDUM OF		
			1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	
i				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	
				P. C. ALLMAN AND ELLA ALLMAN, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	
ŀ				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	
- 1				HOPE NATURAL GAS COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79	
- 1	i			RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	
	i			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
- 1	1			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS 30FFET CONFORMATION  CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
					CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
- 1			1	CONSOLIDATED GAS TRANSMISSION CORPORATION  CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
- 1	i				CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	
16	FK053188	03-006B-0047-0000	Q100921000	DOMINION TRANSMISSION, INC.		LIMITED PARTIAL ASSIGNMENT (50%)	684	
1	l			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	
	į.			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	717	
- 1	1			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	722	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC		WVSOS	
J	- 1			DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WV303	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT SECOND AMENDMENT TO MEMORANDUM OF	723	_
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	
ł	j	All or part of		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
	i	03-7C-0001-0000-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	NOT LESS THAN 1/8	692	$\overline{}$

RECEIVED Office of Oil and Gas

	1				· · · · · · · · · · · · · · · · · · ·			
	1	03-7C-0001-0001-0000	ł			SECOND AMENDMENT TO MEMORANDUM OF		
		03-7C-0001-0002-0000	i	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
53	FK052960	03-7C-0001-0003-0000	1	DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		03-7C-0001-0004-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
		03-7C-0002-0000-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
		and/or				THIRD AMENDMENT TO MEMORANDUM OF		
		03-7C-0003-0000-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746
								-
		1	Į.	JESSE LEESON AND SUSIE LEESON, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	44	278
		i		SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	127
		1		HOPE NATURAL GAS COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79	370
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	202
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
	1			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
		03-007C-0032-0000		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
		03-007C-0032-0001		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
35 FK053196	03-007C-0032-0002	Q100277000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	154	
	03-007C-0032-0003		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57	
	1	03-007C-0032-0003		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
		05 0070 0032-0004		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
		1		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		1						
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	723	527
					THE EXIST WATER COMMY ELEC	SECOND AMENDMENT TO MEMORANDUM OF		
	Į			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
	<del> </del>			J. L. ALLMAN, WIDOWER; T. E. CAYTON, JR. AND NORMA JEAN CAYTO				
						NOT LESS THAN 1/9	252	474
				EACH IN IS OWN RIGHT AND AS HUSBAND AND WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	252	
		İ		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		03-007C-0001-0001		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	154
		03-007C-0001-0002		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
		03-007C-0001-0003		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
32	FK068039	03-007C-0001-0004 03-007C-0002-0000 03-007C-0003-0000	Q101065000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
			03-0000	DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		p/o 03-007C-0001-0000						
		i		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	723	527
					1	SECOND AMENDMENT TO MEMORANDUM OF		l
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
		1				THIRD AMENDMENT TO MEMORANDUM OF		
	1			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
		1		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	736	220
				G. C. SMITH, WIDOWER	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	215	512
		1		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
		]		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
		1		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
		1		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		03-007C-0006-0000					672	154
		1		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	684	154 57
40	FVOCOTOR	03-007C-0030-0005	0400004000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)		
12	FK062782	03-007C-0033-0000	Q100694000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
	I	p/o 03-007C-0006-0003		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
	1	p/o 03-007C-0006-0001		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
		1		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
	I	1						507
				DOMINION ENERGY TRANSMISSION INC	ING ENERGY II APPAI ACHIA LLC	AMENDED AND RESTATED DADTIAL ASSIGNMENT	7721	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT SECOND AMENDMENT TO MEMORANDUM OF	723	527

	1	I	T	CYRUS W. SMITH (A/K/A C. W. SMITH) AND D. A. SMITH, HIS WIFE	RESERVE GAS COMPANY	NOT LESS THAN 1/8	68	522
			i	RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	202
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
		1		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
	1	İ		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
	l			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	154
	1	03-007C-0006-0002		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
		p/o 03-007C-0006-0001		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
39	FK053268	p/o 03-007C-0006-0001	Q100769000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
39	FKU33200	1.	Q100765000			ASSIGNMENT	722	139
		p/o 03-007C-0030-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	MERGER/NAME CHANGE	WVSOS	133
		p/o 03-007C-0031-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF	- WV303	
	1					i i	722	499
		1		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
						ALASANDED AND DESTATED DARRIAL ASSIGNMATAIT	723	527
	1			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	125	327
				1	1	THIRD AMENDMENT TO MEMORANDUM OF		
		[		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734 736	558 220
	ļ			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT		
		[		D. CORDELIA BAILEY	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	38
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	127
		03-07C-0029-0000		HOPE NATURAL GAS COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79	370
		03-07C-0025-0000 03-07C-0030-0001		RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	202
		03-07C-0030-0002		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
	i	03-07C-0030-0002		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
		03-07C-0030-0003		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
		03-07C-0030-0004 03-07C-0030-0006		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
10	FK053193		0101035000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	154
18	14023133	03-07C-0030-0007	Q101025000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
		03-07C-0030-0008		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
		03-07C-0030-0009		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
	•	03-07C-0030-0010		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
		03-07C-0034-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		03-07C-0037-0000		, , , , , , , , , , , , , , , , , , , ,		SECOND AMENDMENT TO MEMORANDUM OF		
		03-07C-0038-0000	3-07C-0038-0000	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
		1		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	723	527
	<del>                                     </del>			C. BURKE MORRIS AND CHRISTINE MORRIS, HIS WIFE; MRS. DANIEL	<del>                                     </del>			
				HEEFNER AND DANIEL HEEFNER, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	209	451
		[		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS SOFFET CORFORATION  CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS SUPPLY CORPORATION  CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	/
		03-07C-0008-0000			DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	$\overline{}$
		p/o 03-07C-0026-0001		CNG TRANSMISSION CORPORATION		MEMORANDUM FARMOUT AGREEMENT	672	154
		p/o 03-07C-0026-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC		684	57
23	FK061778	03-07C-0027-0000	Q100355000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	712	848
		03-07C-0029-0001		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	717	048
		03- 07C-0039-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT		139
		03-07C-0040-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	159
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
					I			
		ļ :		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	723	527
		[		L	L.,	SECOND AMENDMENT TO MEMORANDUM OF	722	400
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
				MAGGIE COTTRILL, WIDOW	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	219	487
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
		]		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
	Ī	1		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
	•							454
		p/o 03-0003-0001-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT LIMITED PARTIAL ASSIGNMENT (50%)	672 684	154 57

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17	FK064209	p/o 03-0003-0006-0000	Q100975000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	84
		p/o 03-007C-0025-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
	1	p/o 03-007C-0049-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	13
,	i	'		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 SECOND AMENDMENT TO MEMORANDUM OF	723	52
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	49
				ALDERSON BROADDUS COLLEGE, INC.	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	212	30
	1				CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
		1		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	12
	i	p/o 03-0003-0001-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
		p/o 03-0003-0001-0000 p/o 03-0003-0001-0001		CONSOLIDATED GAS TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		03-0003-0001-0001		CNG TRANSMISSION CORPORATION	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	1
		03-0003-0004-0000		DOMINION TRANSMISSION, INC.		LIMITED PARTIAL ASSIGNMENT (50%)	684	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	8
		p/o 03-0003-0002-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT (52.9)	717	
24	FK062279	p/o 03-0003-0006-0000	Q100357000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	722	1
		p/o 03-007C-0023-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	MERGER/NAME CHANGE	wysos	
	1	03-007C-0024-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	IVIERGER/ IVAIVIE CRAINGE	., 1303	
	1	p/o 03-007C-0025-0000				AMENDED AND DESTATED PARTIAL ASSIGNMENT	723	5
		03-007C-0050-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	123	
		03-007C-0050-0001				SECOND AMENDMENT TO MEMORANDUM OF	723	
		p/o 03-007C-0051-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	
						THIRD AMENDMENT TO MEMORANDUM OF	734	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	736	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT		
		1		BERTHA H. NAY, WIDOW; AND ETHEL V. LAW, WIDOW	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	209	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
		3-7C-0020-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		03-7C-0020-0001		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	
		03-7C-0020-0002		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
13	FK061793	03-7C-0021-0000	Q100786000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	
		03-7C-0022-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
		03-7C-0022-0001		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
		03-7C-0022-0002		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	
						SECOND AMENDMENT TO MEMORANDUM OF	1	
		i		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	
				W. A. CHITTUM AND ZURA F. CHITTUM, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	217	
				H. L. CHITTUM AND JEWEL E. CHITTUM, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	217	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
- 1		03-007C-0011-0000		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
		03-007C-0011-0001		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
1		03-007C-0012-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	
, I	FVOCATE	03-07C-0013-0000	Q100397000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
′	FK063153	p/o 03-007C-0014-0000	Q101047000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	
		03-007C-0017-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
		03-007C-0018-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
		p/o 03-007C-0019		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	723	
				GLADYS HAYS, WIDOW; LOVANT HAYS AND RAMONA HAYS, HIS WIFE;				
				IOLADIS HAIS, WIDOW, LOVANI HAIS AND RANIONA HAIS, HIS WIFE;	•		233	

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1				JULIET P. BUTCHER AND WILLIAM E. BUTCHER, HER HUSBAND; AND		1		
1	ì	1		ALTHEA J. RANDOLPH, WIDOW	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	233	458
1	İ	1		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
l	ł	04-07C-0001-0000					i	
ł		04-07C-0002-0000		OLGA M. SMITH, WIDOW; RUTH MARY SMITH, SINGLE; AUBREY E.			1	
	1	04-07D-0001-0000		SMITH AND SHELBA J. SMITH, HIS WIFE; EARL H. SMITH AND			ı	
l	1	04-07D-0002-0000		GERALDINE SMITH, HIS WIFE, ILENE KEITH AND JOHN M. KEITH, HER			i	
		04-07D-0003-0000		HUSBAND: AND WILLARD F. SMITH AND FREDA F. SMITH, HIS WIFE	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	300	110
		04-07D-0014-0000		MARY E. CLARK AND MASON D. CLARK, HER HUSBAND	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	341	26
I	ŀ	04-07D-0015-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS 350 YET COM GRATION  CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	12
	1	04-07D-0015-0000	Q100317000		CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wysos	
ے ا	FK065819	i .	Q100561000	CONSOLIDATED GAS TRANSMISSION CORPORATION			wvsos	
ľ	LV002813	04-07D-0017-0000	Q100985000	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	672	15-
		04-07D-0018-0000	Q100612000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT		5
		04-07D-0019-0000	4	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
		04-07D-0021-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	84
		04-07D-0060-0000 (formerly		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
	1	04-07C-0004-0000)		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	13
	1	04-07D-0061-0000 (formerly		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
	j	04-07C-0003-0000)						
		1 1		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	723	52
		1 1		DOMINION ENERGY THE MIDINGSION, INC.		SECOND AMENDMENT TO MEMORANDUM OF		
		l i		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	49
		i l		BOWINION ENERGY TRANSPIRISSION, INC.	THE ENERGY II ALT ABAGINA, ECG	THIRD AMENDMENT TO MEMORANDUM OF		
	l	i [		DOMENION ENERGY TRANSPASSION INC	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	55
	i	!		DOMINION ENERGY TRANSMISSION, INC.  DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	736	22
		03-0001-0008-0000				NOT LESS THAN 1/8	285	24
		03-0001-0009-0000		E. RAY BENNETT AND HAZEL L. BENNETT, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAIN 1/6		
		03-0001-0009-000		GEORGE JOSEPH GARTON AND JEANNE V. GARTON, HIS WIFE; CHARLES	1			
		03-0001-0009-0002		E. GARTON AND OPAL D. GARTON, HIS WIFE; MARY CATHERINE			285	55
		03-0001-0050-0000		ROBERTS AND TERRELL N. ROBERTS, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8		
		03-0001-0050-0001		HARRY V. CAMPBELL, HUGH A. CURRY, JOHN S. ALFRIEND AND		1	i	
		03-007C-0052-0006 03-007C-0052-0007		THOMAS B. JACKSON, TRUSTEES OF THE EPISCOPAL CHURCH OF WEST	1			
		03-007C-0052-0007		VIRGINIA	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	299	41
		03-007C-0052-0013		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
		03-007D-0045-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	12
		03-007D-0046-0000		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
27	511077444	03-007D-0047-0000	Q100574000	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
27	FK072646	03-007D-0048-0000	Q100739000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	15
		03-007D-0049-0000 03-007D-0050-0000	Q100573000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	5
		03-007D-0051-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	84
		03-007D-0052-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
		03-007D-0053-0000			NOBLE ENERGY, INC.	CORRECTIVE ASSIGNMENT	725	78
		03-007D-0054-0000		CNX GAS COMPANY LLC		ASSIGNMENT	722	13
		03-007D-0055-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC		WVSOS	
		03-007D-0056-0000 03-007D-0057-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	VV V 3 U 3	
		03-007D-0057-0000 03-007D-0058-0000				SECOND AMENDMENT TO MEMORANDUM OF		40
ı		03-007D-0059-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	49
		p/o 03-0001-0074-0000						
1		p/o 03-007C-0053-0004		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	723	52

RECEIVED
Office of Oil and Gas

WV Department of Environmental Protection



4704105705

January 14, 2020

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

RE: Drilling Under Roads - McDonald 1211 S-8H

Freeman District, Lewis County

West Virginia

Dear Ms. Adkins:

HG Energy II Appalachia, LLC, is submitting the attached application for a new well work permit for the McDonald 1211 well pad. As an authorized representative, I certify HG Energy II Appalachia, LLC, has the right to drill, stimulate, extract, produce and market the oil, gas or condensate for all leases through which the McDonald 1211 laterals will drill through including any and all roads crossed under as identified on the attached survey plat.

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

Very truly yours,

Diane White

Diane C. White

Enclosures

RECEIVED Office of Oil and Gas

FEB 0 3 2020

WV Department of Environmental Protection

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

Date of Notic	e Certification: 01/17/2020	A	PI No. 47	'- <u> </u>	
		O	perator's	Well No. McDo	onald 1211 S-8H
		V	Vell Pad N	Name: McDona	ld Well Pad
Notice has b					
	e provisions in West Virginia Code §	22-6A, the Operator has provide	led the req	uired parties v	vith the Notice Forms listed
	tract of land as follows:	_			
State:	West Virginia		asting:	545442.4	
County:	Lewis	N	lorthing:	4331780.1	
District:	Freemans Creek	Public Road Access		SR 1 / Hollick Ru	n Road
Quadrangle:	West Milford	Generally used farm	n name:	McDonald	
Watershed:	Middle West Fork Creek				
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and shad the owners of the surface describe equired by subsections (b) and (c), sec surface owner notice of entry to surfor subsection (b), section sixteen of \$22-6A-11(b), the applicant shall tend have been completed by the applicant.	ed in subdivisions (1), (2) and tion sixteen of this article; (ii) to vey pursuant to subsection (a) this article were waived in we ander proof of and certify to the	l (4), substhat the rec , section triting by	ection (b), sec quirement was en of this arti- the surface ow	ction ten of this article, the deemed satisfied as a resul- cle six-a; or (iii) the notice wher; and Pursuant to Wes
that the Oper	West Virginia Code § 22-6A, the Operator has properly served the required ECK ALL THAT APPLY		Notice C	ertification	OOG OFFICE USE ONLY
□ 1. №	TICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS			RECEIVED/
■ 2. NO	TICE OF ENTRY FOR PLAT SURVE	EY or $\square$ NO PLAT SURVEY	WAS CO	ONDUCTED	RECEIVED
■ 3. NO		☐ NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PL WAS CONDUCTED or			RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY (PLEASE ATTACH)	SURFA	CE OWNER	
	FICE OF PLANNED OPERATION BLIC NOTICE	RECEIVED Office of Oil and Gas			□ RECEIVED
■ 6. NO	TICE OF APPLICATION	FEB 0 3 2020  WV Department of			RECEIVED

#### **Required Attachments:**

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

### Certification of Notice is hereby given:

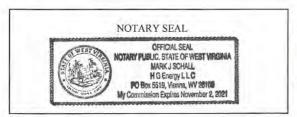
THEREFORE, I Diane White \_\_\_\_\_\_\_\_, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal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

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

 By:
 Diane White
 Diane White
 Parkersburg, WV 26101

 Its:
 Agent
 Facsimile:
 304-863-3172

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



Subscribed and sworn before me this 17th day of January, 2020 ... Notary Public

My Commission Expires 11/2

Oil and Gas Privacy Notice:

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

Office of Oil and Gas

FEB 0 3 2020

WV Department of Environmental Protection

## 4704105705

API NO. 47-OPERATOR WELL NO. McDonald 1211 S-8H 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	n the filing date of permit application.
Date of Notice: 01/14/20 Date Permit Application Filed: 01/16 Notice of:	2/20
PERMIT FOR ANY WELL WORK CONSTRUCTION OF A	ROVAL FOR THE AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-10	(b)
	OD OF DELIVERY THAT REQUIRES A PT OR SIGNATURE CONFIRMATION
the surface of the tract on which the well is or is proposed to be local oil and gas leasehold being developed by the proposed well work, if described in the erosion and sediment control plan submitted pursual operator or lessee, in the event the tract of land on which the well promore coal seams; (4) The owners of record of the surface tract or tract well work, if the surface tract is to be used for the placement, construint impoundment or pit as described in section nine of this article; (5) A have a water well, spring or water supply source located within one the provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than three subsection (b) of this section hold interests in the lands, the applicant records of the sheriff required to be maintained pursuant to section exprovision of this article to the contrary, notice to a lien holder is not a section of the sheriff required to the contrary, notice to a lien holder is not a section of the sherification.	r signature confirmation, copies of the application, the erosion and ne well plat to each of the following persons: (1) The owners of record of ted; (2) The owners of record of the surface tract or tracts overlying the the surface tract is to be used for roads or other land disturbance as not to subsection (c), section seven of this article; (3) The coal owner, apposed to be drilled is located [sic] is known to be underlain by one or cots overlying the oil and gas leasehold being developed by the proposed action, enlargement, alteration, repair, removal or abandonment of any my surface owner or water purveyor who is known to the applicant to thousand five hundred feet of the center of the well pad which is used to (6) The operator of any natural gas storage field within which the elements in common or other co-owners of interests described in the may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. to ovide the Well Site Safety Plan ("WSSP") to the surface owner and any
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ SURFACE OWNER(s) ★ Surface Owner not noticed Name: HG Energy II Appalachia, LLC (Pad and Road) Address: 5260 Dupont Road Parkersburg, WV 26101	
Name:Address:	COAL OPERATOR Name: Address:
SURFACE OWNER(s) (Road and/or Other Disturbance)  Name: Address:	☑ SURFACE OWNER OF WATER WELL  AND/OR WATER PURVEYOR(s)  Name: Charles & Vanessa Brosius Melvin & Terri Woods  Address: 1050 Hollick Run Road 54 Orchard Drive
Address:	Jane Lew, WV 26378  GOPERATOR OF ANY NATURAL GAS STORAGE FIELD  Name: Dominion Energy Transmission - Attn: Ronald Waldren  Address: Bridgeport, WV 26330  *Please attach additional forms if necessary
Office of Oil and Gas	•

FEB 0 3 2020

WV Department of Environmental Protection

#### 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 firesh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

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

#### Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items WW-6A (8-13) API NO. 47-\_\_\_\_OPERATOR WELL NO. McDonald 1211 S-8H
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 comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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

FEB 0 3 2020

WV Department of Environmental Protection

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

WW-6A (8-13) API NO. 47-\_\_\_\_\_OPERATOR WELL NO. McDonald 1211 S-8H
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 <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

#### Permit Denial or Condition

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

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

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

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

Office of Oil and Gas
FEB 0 3 2020

WV Department of Environmental Frotection

WW-6A	١
(8-13)	

API NO. 47-\_\_\_\_OPERATOR WELL NO. McDonald 1211 S-8H
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 Qiane 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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.



Subscribed and sworn before me this 14th day of January ,2020

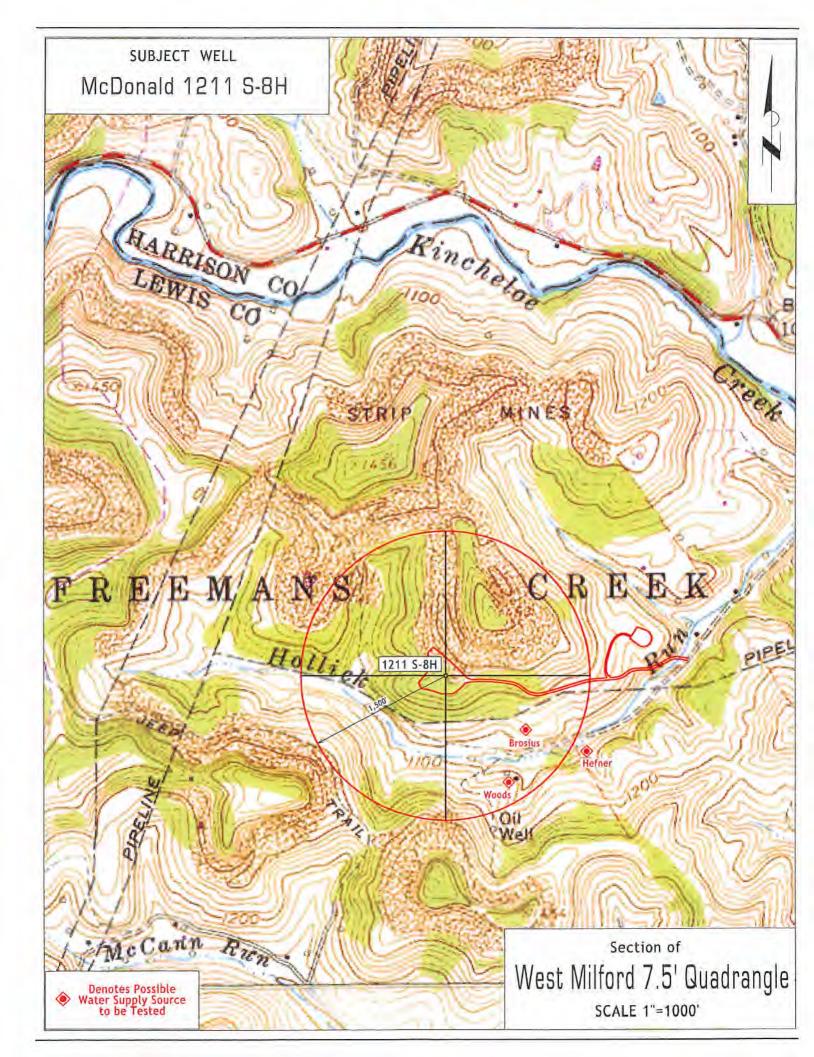
Cossid A Boods Notary Public

My Commission Expires 7/3/2022

RECEIVED
Office of Oil and Gas

FEB 0 3 2020

WV Department of Environmental Protection





January 14, 2020

Dominion Energy Transmission, Inc. Attn: Ron Walden 925 White Oaks Blvd Bridgeport, WV 26330

RE: McDonald 1211 S-8H Well Work Permit Application - Notification

Grant District, Harrison County

West Virginia

Dear Mr. Walden:

Enclosed are copies of various application papers that we will be filing with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a surface owner (road) are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

Office of Oil and Gas
FEB 0 3 2020

WV Department of Environmental Protection



January 14, 2020

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

RE:

McDonald 1211 S-8H Well Work Permit Application - Notification

Grant District, Harrison County

West Virginia

Dear Mr. and Mrs. Brosius:

Enclosed are copies of various application papers that we will be filing with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a surface owner (road) are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

office of Oil and Gas
FEB 0 3 2020
W Department of Environmental Protection



January 14, 2020

Dominion Energy Transmission, Inc. Attn: Ron Walden 925 White Oaks Blvd Bridgeport, WV 26330

RE: McDonald 1211 S-8H Well Work Permit Application - Notification

Grant District, Harrison County

West Virginia

Dear Mr. Walden:

Enclosed are copies of various application papers that we will be filing with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a surface owner (road) are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours,

Diane C. White

Enclosures



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

entry	uirement: Notice shall be prov	vided at least SEVEN (7) day	ys but no more that	n FORTY-FIVE (45) days prior to
Date of Notice:	11/04/19 Date of Pla	nned Entry: 11/11/19		
Delivery method	pursuant to West Virginia C	ode § 22-6A-10a		
☐ PERSONAL	REGISTERED	■ METHOD OF DEL	IVERY THAT RE	QUIRES A
SERVICE	MAIL	RECEIPT OR SIGN		
on to the surface t but no more than beneath such tract owner of minerals and Sediment Cor Secretary, which s enable the surface	ract to conduct any plat survey forty-five days prior to such en that has filed a declaration pur underlying such tract in the control Manual and the statutes ar statement shall include contact owner to obtain copies from the	s required pursuant to this are try to: (1) The surface owner resuant to section thirty-six, are ounty tax records. The notice and rules related to oil and gas information, including the ac-	ticle. Such notice s of such tract; (2) the rticle six, chapter to e shall include a state exploration and p	shall provide notice of planned entry shall be provided at least seven days to any owner or lessee of coal seams wenty-two of this code; and (3) any attement that copies of the state Erosion roduction may be obtained from the age on the Secretary's web site, to
Notice is hereby	provided to:			
SURFACE C	WNER(s)	☐ COAI	LOWNER OR LE	SSEE
~	y II Appalachia, LLC	Name:	NA.	
Address: 5260 Dupo	ont Road	Address:		
	rg, WV 26101	-		
Address		- □ MINE	ERAL OWNER(s)	
Address:		4		
		*please attacl	h additional forms if ne	cessary
Notice is hereby Pursuant to West	Virginia Code § 22-6A-10(a), r	notice is hereby given that th	e undersigned well	operator is planning entry to conduct
	ne tract of land as follows:	Annex I stitt	ude & Longitude:	39.134014 & 80.474219
State: Wes County: Lew	st Virginia	D. 1.15 - D 1 - 1		SR 19/ Kincheloe Run / Hollick Run Road
	vis eman's Creek	Wetenderle	roccia.	Hollick Run
Quadrangle: Wes	201201010101010101010101010101010101010	Generally use	d farm name:	McDonald
may be obtained f	from the Secretary, at the WV I	Department of Environmenta s of such documents or additi	l Protection headquional information r	il and gas exploration and production uarters, located at 601 57 <sup>th</sup> Street, SE, elated to horizontal drilling may be
				RECEIVED
obtained from the	v given by:			Desar of Oil and Gas
obtained from the		Address:	5260 Duponi Road	Office of Oil and Gas
Notice is hereby Well Operator:	y given by: HG Energy II Appalachia, LLC 304-420-1119	Address:	5260 Dupont Road Parkersburg, WV 26101	Office of Cil and Gas

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.



November 4, 2019

RE: McDonald 1211 S-8N

Freeman's Creek District, Lewis County

West Virginia

Dear

Enclosed is a copy of a Department of Environmental Protection "Notice of Entry For Plat Survey" form WW-6A3. This notice is provided to you as a royalty owner to advise you that HG Energy II Appalachia, LLC, is beginning the process of applying for permits to drill a well(s) where you are identified as an owner of minerals underlying such tract in the county tax records. A well work permit application will be filed with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because you are an owner of mineral rights on one or more of the underlying leases impacted by this well (s). Statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WVDEP at 304-926-0450, located at 601 57th Street, Charleston, WV. Copies of such documents or additional information related to horizontal drilling may also be obtained by visiting the WV DEP online.

No action on your part is required. If you have any questions or comments regarding this permit application, you may call this office at (304) 420-1119. Questions concerning lease issues may be directed to Mark Schall at 304-420-1115. Address inquiries should be directed to Bethanne Wilson at 304-370-3246.

Very truly yours,

Diane White

Diane C. White

Enclosures

Office of Oil and Gas
FEB 0 3 2020

WW Department of Environmental Protection

## Page 1 Continued

#### **Mineral Owners**

Aloma Hughes 6085 N. Sabal Palm Blvd., Apt. 201 Tamarac, FL 33319

Barbara Starcher 1230 Parkman Rd. NW Warren, OH 44485

Bernard Bennett II 56 Long Run Road Lost Creek, WV 26385

Beverly Morrison 9680 Gillespie Run Road Harrisville, WV 26362

Brady Lee Pursley 53 W Ingleside Dr. Coventry Twp, OH 44319

Brenda Handley 33561 Bailey Run Rd Pomeroy, OH 45769

Brenda Sue Romine P.O. Box 669 Proctorville, OH 45669

Buddy Lee Testerman 13891 Dave Dr. Nokesville, VA 20181

Carly Jo Fisher 110 Sherriff Dr. Ripley, WV 25271

Carol A. Staats 973 Cedar Grove Rd. Parkersburg, WV 26104 McDonald 1211 S-8H



Angela Maxwell 414 Lake Point Trce Canton, GA 30188

Benjamin A. King 100 Moriah Dr. Charleston, WV 25313

Bernard W. Bailey 155 Andora St. Augustine, FL 32086

Bonnie L. Raines 7658 Highway 42 W Pendleton, KY 40055

Brenda Alvis Linger 59 Manor Lane Parkersburg, WV 26101

Brenda Kay Rich 5042 Amma Rd Amma, WV 25005

Brent Rasmussen 471 Sherrie Street Morgan, UT 84050

Carla Coulter 479 Parkview Dr. Girard, OH 44420

Carmen L. James 5095 Northcrest Dr. Nashport, OH 43830

Carol Jean Mannen 8 Loockerman Ave. Poughkeepsie, NY 12601



#### McDonald 1211 S-8H

## WW-6A3 (1-12)

#### Page 1 Continued

#### **Mineral Owners**

Catherine S. Raines 1060 Freddie Dr. Walnut Cove, NC 27052

Cecil Stanley 4261 Four Pole Rd. Huntington, WV 25701

Cheryl A. Griffith 8749 N. Auriga Way Tucson, AZ 85742

Connie Carpenter 952 Valley Chapel Rd Weston, WV 26452

David C. Allman 415 Worthington Dr. Bridgeport, WV 26330

David J. King c/o Benjamin King 100 Moriah Dr Charleston, WV 25313

Deborah J. Corry 138 Nottingham Rd. Columbus, OH 43214

Debra Lynn Hornbeck 3196 Kreighbaum Rd. Uniontown, OH 44685

Donald Alvis 1472 Colt Ridge Road Spencer, WV 25276



Cecil "Glen" Starcher 32 Starcher Lane Ripley, WV 25271

Charles L Morrison 3068 Belgrove Rd. Kenna, WV 25248

Clinton Burt 3355 W 5000 N Brigham City, UT 84302

Cora Alice Raines 827 Capital St. Spencer, WV 25276

David G. Offield 317 N Merrill St Breckenridge, TX 76424

David W. Raines 415 Drexel Ave. Decatur, GA 30030

Debra Jo Heater 441 Hollick Run Rd. Jane Lew, WV 26378

Dianna Lynne Baker 2822 Ripley Road Spencer, WV 25276

Donna Davis 2128 Kincheloe Rd. Jane Lew, WV 26378



#### Page 1 Continued



#### **Mineral Owners**

Doris Jean Lowther 3455 River Rock Dr Cuyahoga Falls, OH 44223

Elizabeth Francene Kirk 986 Ashton PL Morgantown, WV 26508-6874

Ester Brown 402 Hobart Ave. Findley, OH 45840

Frances Allman 1915 48th St. NW Canton, OH 44709

Frances Linda Parsons 137 Llewellyn Ave Westerville, OH 43701

George Franklin Raines 257 Grimes Golden Rd. Linden, VA 22642

Greg Coulter 479 Parkview Dr. Girard, OH 44420

Harvey Lawrence 655 Hazen Ave. Apt 4 Ravenna, OH 44266

Helen M. Burton P.O. Box 8179 Nutter Fort, WV 26301 Edith Miller 153 1/2 Summit Street

Ella Mae Tapar 3627 W 128th St. Cleveland, OH 44111

Spencer, WV 25276

Evalyn Emogene Haid 411 Holley St. St. Albans, WV 25177

Frances Lane 153 1/2 Summit Street Spencer, WV 25276

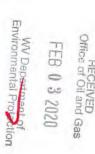
Frank Glen Riley c/o Tina M. Riley, POA 221 2nd Street Spencer, WV 25276

Gordon Rasmussen 3111 Bell Air Drive Unit 24F Las Vegas, NV 89109

Harold Russell Rice 1986 Berger Ave. Stow, OH 44224

Hayward Allman 4444 Old Mill Rd. Jane Lew, WV 26378

Howard Burton Roberts, II 2617 SW 56th Ave Gainesville, FL 32608



## Page 1 Continued

#### **Mineral Owners**

Ilene Hatch 738 W Sherri Dr. Gilbert, AZ 85233

Imogene Gandee P. O. Box 1584 Craigsville, WV 26205

Isabelle Marie Grisak 3222 Green Oak Drive Commerce Township, MI 48390

James F. Davis Dower Interest of Evert W. Davis 230 Woodmire Drive Milton, WV 25541-1177

James Riley
P. O. Box 376
Spencer, WV 25276

Jason Alvis 14 Forest View Lane Spencer, WV 25276

Jeffrey Allman 1202 McWhorter Rd. Jane Lew, WV 26378

Jesse Byron Morrison 116 Water St. Spencer, WV 25276

Jimmie Lee Starcher 106 Lattimer St. Reedy, WV 25720 llene Hatch 738 W Sherri Dr. Gilbert, AZ 85233

Ina "Ruth" Hughes 2031 Kincheloe Rd. Jane Lew, WV 26378

Iwana Lee Wagner 576 Sherwood Dr. Mansfield, OH 44904

James R. Allman 1187 McWhorter Rd. Jane Lew, WV 26378

Janet Sue Whited 357 Lincoln Dr Mineral Wells, WV 26150

Jeannie McCormick 1652 Lost Creek Romines Mill Road Lost Creek, WV 26387

Jennifer Roach 252 Folsom St. NW Warren, OH 44483

Jewell "Jason" D. Rider III 116 S 4th Ave Apt 4 Sandpoint, ID 83864

Joan E. Barnett 540 Moore Rd Jasper, GA 30143



#### Page 1 Continued

#### **Mineral Owners**

Joan Shoemaker 3712 Shady Land Sandusky, OH 44870

John E. Richardson 664 Speed Rd. Spencer, WV 25276

Josephine Ann Snead 767 Copperhead Rd Hurdle Mills, SC 27540-8812

JP Morgan, Trustee S. Austin Smith Trust Agreement dated Nov 21, 1958 PO Box 659 Wichita Falls, TX 76307-0659

Judith K. Harper 37 Fort Argyle Ct. Savannah, GA 31419

June A. Bell PO Box 202 Oak Hill, WV 25901

Kathy Bennett 1248 Long Run Road Lost Creek, WV 26388

Kelly J. Rock 6762 N Elyria Rd. West Salem, OH 44287

Kimberly Dawn Zaner 412 Downing Drive Chesapeake, VA 23322



John Douglas Morrison 1140 Limestone Road

> John Paul Shock, Jr. 9 Chardeaux Ct. Little Rock, AR 72212-4420

Charleston, WV 25312

Josh Sampson 3472 West 33rd Ave. Denver, CO 80211

Juanita Riley 5577 Fairview Rd. Batesburg, SC 29006

Julianna Rimo 60 Parkview Avenue Lackawanna, NY 14218

Kathleen Hamilton 4209 Perry St. Denver, CO 80212

Kathy C. Frishe 512 W Hullum St. Breckenridge, TX 76424

Kimberly Carson 271 Quail Creek Dr. Newark, OH 43055

Koelln Family Trust
C/O Rodger Koelln
by POA Carol Lynne Koelln Lewis
802 Reuter Drive
Hastings, MN 55033

#### Page 1 Continued

#### **Mineral Owners**

Larry Frishe 316 Frishe Drive Jane Lew, WV 26378

Larry K. Allman 329 Ralph Miller Rd. Lexington, NC 27295

Larry Whited 2674 South Calhoun Hwy. Grantsville, WV 26147

Linda Sanders 6318 N Camino Los Mochis Tucson, AZ 85718

Lisa L. Bowden 420 Egan St. Orlando, FL 32822

Mable Taylor P. O. Box 293 Elizabeth, WV 26143

Marcia J. Howard 949 Caterpillar Lane Cantonment, FL 32533

Marie Hayden 814 Robey Rd. Huntington, WV 25705

Marjorie Neely 375 Neely Hollow Rd. Jane Lew, WV 26378



Larry G. Romine 1501 David Ave. Ironton, OH 45368

Larry Richardson #3 Lincoln Shore Star Resort Lincoln City, OR 97367

Linda Rucker 1276 Sherwood Downs Rd East Newark, OH 43055

Lisa Kaye Raines 113 Meadows Mobile Home Park Parkersburg, WV 26104

Mabel Henderson 304 Pullman Dr. Pennsboro, WV 26415

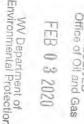
Marcia Grether 9552 Adler St. Newport Ritchie, FL 34654

Marianne Golby 3375 County Rd 528 Sumterville, FL 33585

Marion L. Utt 70 Kevin Lane Fairmont, WV 26554

Marsha Jarvis 831 Peniel Rd Reedy, WV 25270







#### McDonald 1211 S-8H

## <u>WW-6A3</u> (1-12)

#### Page 1 Continued

#### **Mineral Owners**

Martha Ann Burkhammer 661 Spring Hills Drive Zionsville, IN 46071

Mary J. Bailey 1829 Oka Road Chloe, WV 25235

Mathew D. Raines P.O. Box 974 Van Alstyne, TX 75495

Michael A. McAtee 1 Grannies Creek Newton, WV 25266

Michael L. Richardson 2359 Ripley Rd. Spencer, WV 25276

Michael Ross Po Box 219 Coalton, WV 26257

Michael Wayne King 4079 Garden Circle Acworth, GA 30101

Minnie Mae Schoolcraft 1115 Coal City Rd. Beaver, WV 25813

Naomi Joyce Nichols PO Box 115 Elkview, WV 25071

Opie Huntsman 306 Indiana Ave. Apt 2 Sebring, OH 44672 Martha J. Starcher 200 Front Street Spencer, WV 25276

Mary J. Johnson 1403 Michigan Ave. Gladstone, MI 49837

Matthew Alvis 1945 Toms Run Spencer, WV 25276

Michael A. Nutter Route 3 Box 808 Lost Creek, WV 26385

Michael Matthews 1365 Dodge St. NW Warren, OH 44483

Michael W. Riley 29847 Morning Mist Dr. Wesley Chapel, FL 33543

Mike Ross, Inc. Po Box 219 Coalton, WV 26257

Nancy L. Hughes 409 Quail Run Cir. Fountain Inn, SC 29644

Nelson D. Raines 7300 Old Mill Run Ft. Worth, TX 76133

Orda H. Raines 303 Cherrydale Ave. Front Royal, VA 22642



#### McDonald 1211 S-8H

#### Page 1 Continued

## 1

#### **Mineral Owners**

Pamela Ginther 118 Firestone Rd. Wooster, OH 44691

Patsy Nichols 1737 Vandale Fork Rd Spencer, WV 25276

Paul C. Allman 1101 Possum Trot Rd. Myrtle Beach, SC 29582

Paul Joseph Raines 3463 Huffine Farm Rd. Gibsonville, NC 27249

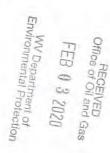
Peggy Jo Cunningham 255 Mitchell Creek Ridge Wetumpka, AL 36093

Peter A. Jordon 17225 Old Logging Road Hersey, MI 49639

Ralph E. Pursley 4491 Aylesworth Dr Brunswick, OH 44212

Rebecca "Becky" Lynn Taylor 321 Valley Chapel Rd. Weston, WV 26452

Rex Checketts 3041 S 200 E Bountiful, UT 84010



Patricia Ann Hughes 5116 Indiana St. South Charleston, WV 25309

Paul Allman 4000 E. Fletcher Ave. Tampa, FL 33613

Paul Fields 4745 NW Welch Rd. Lawton, OK 73507

Paul Starcher 5326 Bentbrook Road Charleston, WV 25313

Peggy Reed 100 Granite Dr Eleanor, WV 25070

Prestin Checketts 4835 N 3600th W Brigham City, UT 84302

Randel G. Riley 14219 Triskett Rd. 302D Cleveland, OH 44111

Rebecca Ann VanHorn P. O. Box 555 Lost Creek, WV 26386

Rhonda Koutsobaris Route 3 Box 833 Lost Creek, WV 26385



#### Page 1 Continued

#### **Mineral Owners**

Rhonda R. Shaw 412 East Hill St Apt 20 Graham, NC 27253

Richard L. Bailey 54 Mallie Street Reedy, WV 25270

Robert J. Morgan P. O. Box 218 Lineville, AL 36266

Robert Starcher 601 Market S. Market Manor Apt. 29 Spencer, WV 25276

Robin G. King 109 Beaver St Sylvania, GA 30467

Rodger Jones 203 Front St. Racine, OH 45771

Roger Glen Whited 621 Dutch Ridge Rd. Parkersburg, WV 26101

Ronald Jones 50556 Tornado Rd. Racine, OH 45771

Roy Duane Westfall 3301 South Elson Ave. Tucson, AZ 85730 Richard Alan Morrison 812 55th St. Vienna, WV 26105

Rita Ernest 10817 Golden Maple Place Louisville, KY 40223

Robert Raines 1032 Rivergrass Lane Okatie, SC 29909

Robert Startcher 1731 Potts Lane Zanesville, OH 43701

Robin S. Bailey 3104 Spider Ridge Rd Parkersburg, WV 26104

Roger Allman 144 Porlock Way Raeford, NC 28376

Ronald G. Fisher 5429 Donnefield Dr. Charlotte, NC 28227

Roy D. Green Jr. 3711 Princeton Ave. Nashville, TN 37221

Ruby Morrison POA Deborah Weidauer Kellough 8040 State Rd. 772 Chillicothe, OH 45601

#### Page 1 Continued

#### **Mineral Owners**

Ruth Blatt 2929 Fannin Dr Huntington, WV 25704

Sandee D. Barberio 714 Mulberry Ave. Clarksburg, WV 26301

Sharon Ann Stears 710 Seib Drive O' Fallon, MO 63366

Sharon Stears 710 Seib Dr O Fallon, MO 63366

Sherry Michael Route 2 Box 278 Jane Lew, WV 26378

Stacey K. Farmer 5421 Clay Rd Spencer, WV 25276

Susan Morrison Parsons 2068 Fishers Branch Rd Charleston, WV 25312

Terry L. Jenkins P.O. Box 1584 Craigsville, WV 26205

Terry S. Lydamore 69 Moss Rd. Lewis, NY 12950

Valli Green Baldwin 5229 Beech Ridge Dr. Nashville, TN 37221



Ruth Casto 212 4th Street Spencer, WV 25276

Shannon Waldron 326 Winter Berry Dr. Edgewood, MD 21040

Sharon Coleman 6130 N Highway 38 Brigham City, UT 84302

Shauna R. Fesler 235 Lee Street Weston, WV 26452

Shirley Sue Mills 526 Cynthia Lane #51 Tallmadge, OH 44278

Steve Starcher 120 Prospect Street Spencer, WV 25276

Terry A. Raines 3365 Williamstown Pike Williamstown, WV 26187

Terry L. King 708 Hillsdale Dr Charleston, WV 25302

Tracy Harris 52 Channel St. Newark, OH 43055

Vickie Bolyard 98 Roy Road Thornton, WV 26440



#### McDonald 1211 S-8H

## <u>WW-6A3</u> (1-12)

#### Page 1 Continued

## **Mineral Owners**

Vickie D. Offield PO BOX 681 Jane Lew, WV 26378

Virginia Spencer 608 Marcellus St. Apt 1 Reidsville, NC 27320

Walter "Cline" Estep 1024 Guckert St. Newark, OH 43055

Warren Testerman 8175A Edgerock Way Laurel, MD 20724

William Bennett 972 Stone Coal Road Lost Creek, WV 26389

Yvonne M. Stanley 26290 Frank Rd. Elberta, AL 36530

HG Energy II Appalachia LLC will *not* be noticed via certified mail



Virginia Paxton 250 Harmony Rd. Gandeeville, WV 25243

Waco Oil and Gas Inc PO Box 880 Glenville, WV 26351

Wanda Wood 50220 Waid Sayre Rd. Racine, OH 45771

Wendy Parrett 1476 Pleasant Valley Dr. Newark, OH 43055

William Joseph Chini 861 S Wonnell Road Port Clinton, OH 43452

Zan Nix HC 33 Box 33991 Ely, NV 89301



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

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

Date of Noti	Requirement: Notice shall be provided at least Cee: 01/14/2020 Date Permit A	TEN (10) days prior to filing a pplication Filed: 01/16/2020	permit application.
Delivery me	thod pursuant to West Virginia Code § 22-6A-	16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVE		ED	
receipt reque drilling a hor of this subsec subsection mand if availab	V. Va. Code § 22-6A-16(b), at least ten days prio sted or hand delivery, give the surface owner not izontal well: <i>Provided</i> , That notice given pursuation as of the date the notice was provided to the ay be waived in writing by the surface owner. The le, facsimile number and electronic mail address reby provided to the SURFACE OWNER	ice of its intent to enter upon the subsection (a), section tent to subsection (a), section tent surface owner: <i>Provided, hower notice</i> , if required, shall include the operator and the operator	the surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this ude the name, address, telephone number, or's authorized representative.
	Energy II Appalachia, LLC	N.T. Garage	
Address: 5260		Address:	
	ersburg, WV 26101	7 144 0001	
Pursuant to V	Vest Virginia Code § 22-6A-16(b), notice is here when's land for the purpose of drilling a horizonta		
Pursuant to V the surface of State; County;	Vest Virginia Code § 22-6A-16(b), notice is here		
Pursuant to V the surface ov State: County: District:	Vest Virginia Code § 22-6A-16(b), notice is here wher's land for the purpose of drilling a horizonta West Virginia Lewis Freemans Creek	ul well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access:	SR 1 / Hollick Run Rd
Pursuant to V the surface ov State: County: District: Quadrangle:	Vest Virginia Code § 22-6A-16(b), notice is here wher's land for the purpose of drilling a horizonta West Virginia Lewis Freemans Creek West Milford WV 7.5'	ul well on the tract of land as for UTM NAD 83 Easting: Northing:	bllows: 545442.4 4331780.1
	Vest Virginia Code § 22-6A-16(b), notice is here wher's land for the purpose of drilling a horizonta West Virginia Lewis Freemans Creek	ul well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access:	SR 1 / Hollick Run Rd
Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor	Vest Virginia Code § 22-6A-16(b), notice is here wher's land for the purpose of drilling a horizonta West Virginia Lewis Freemans Creek West Milford WV 7.5'	UTM NAD 83  Easting: Northing: Public Road Access: Generally used farm name:  shall include the name, addrer and the operator's authorize tary, at the WV Department of	ollows: 545442.4 4331780.1 SR 1 / Hollick Run Rd McDonald  ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters,
Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 600	Vest Virginia Code § 22-6A-16(b), notice is here wher's land for the purpose of drilling a horizonta West Virginia  Lewis  Freemans Creek  West Milford WV 7.5'  Middle West Fork Creek  Shall Include:  West Virginia Code § 22-6A-16(b), this notice mber and electronic mail address of the operatorizontal drilling may be obtained from the Secret 57th Street, SE, Charleston, WV 25304 (304-92)	UTM NAD 83  Easting: Northing: Public Road Access: Generally used farm name:  shall include the name, addrer and the operator's authorize tary, at the WV Department of 66-0450) or by visiting www.de	ollows: 545442.4 4331780.1 SR 1 / Hollick Run Rd McDonald  ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to Value surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to Values and to located at 6000 Notice is he Well Operator	Vest Virginia Code § 22-6A-16(b), notice is here wher's land for the purpose of drilling a horizontal West Virginia  Lewis  Freemans Creek  West Milford WV 7.5'  Middle West Fork Creek  Shall Include: West Virginia Code § 22-6A-16(b), this notice mber and electronic mail address of the operatorizontal drilling may be obtained from the Secret 57th Street, SE, Charleston, WV 25304 (304-92)	UTM NAD 83  Easting: Northing: Public Road Access: Generally used farm name:  shall include the name, addrer and the operator's authorized attary, at the WV Department of 6-0450) or by visiting www.de	ollows: 545442.4  4331780.1  SR 1 / Hollick Run Rd  McDonald  ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  Diane White
Pursuant to Value surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to Values and to located at 6000 Notice is he Well Operator	Vest Virginia Code § 22-6A-16(b), notice is here wher's land for the purpose of drilling a horizonta West Virginia  Lewis  Freemans Creek  West Milford WV 7.5'  Middle West Fork Creek  Shall Include: West Virginia Code § 22-6A-16(b), this notice mber and electronic mail address of the operatorizontal drilling may be obtained from the Secret 157th Street, SE, Charleston, WV 25304 (304-92)  Treby given by:  HG Energy II Appalachia, LLC  5260 Dupont Road	UTM NAD 83  Easting: Northing: Public Road Access: Generally used farm name:  shall include the name, addrer and the operator's authorize tary, at the WV Department of 66-0450) or by visiting www.de	ollows: 545442.4  4331780.1  SR 1 / Hollick Run Rd  McDonald  ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  Diane White 5260 Dupont Road
Pursuant to Value surface of State: County: District: Quadrangle: Watershed:  This Notice Pursuant to Value facsimile nurelated to hor located at 60 Motice is he Well Operato Address:	Vest Virginia Code § 22-6A-16(b), notice is here wher's land for the purpose of drilling a horizontal West Virginia  Lewis  Freemans Creek  West Milford WV 7.5'  Middle West Fork Creek  Shall Include: West Virginia Code § 22-6A-16(b), this notice mber and electronic mail address of the operatorizontal drilling may be obtained from the Secret 57th Street, SE, Charleston, WV 25304 (304-92)  Treby given by:  HG Energy II Appalachia, LLC  5260 Dupont Road  Parkersburg, WV 26101	UTM NAD 83  Easting: Northing: Public Road Access: Generally used farm name:  shall include the name, address authorized authorized Representative: Address:	ollows: 545442.4  4331780.1  SR 1 / Hollick Run Rd  McDonald  ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  Diane White  5260 Dupont Road  Parkersburg, WV 26101
Pursuant to V the surface of State: County: District: Quadrangle: Watershed:  This Notice Pursuant to V facsimile nur related to hor located at 6000  Notice is he Well Operato Address:  Telephone:	Vest Virginia Code § 22-6A-16(b), notice is here wher's land for the purpose of drilling a horizonta West Virginia  Lewis  Freemans Creek  West Milford WV 7.5'  Middle West Fork Creek  Shall Include: West Virginia Code § 22-6A-16(b), this notice mber and electronic mail address of the operatorizontal drilling may be obtained from the Secre 57th Street, SE, Charleston, WV 25304 (304-92 preby given by:  HG Energy II Appalachia, LLC  5260 Dupont Road  Parkersburg, WV 26101  304-420-1119	UTM NAD 83  Easting: Northing: Public Road Access: Generally used farm name:  shall include the name, address authorized rary, at the WV Department of 66-0450) or by visiting www.de  Authorized Representative: Address:  Telephone:	ollows: 545442.4  4331780.1  SR 1 / Hollick Run Rd  McDonald  ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  Diane White  5260 Dupont Road  Parkersburg, WV 26101  304-420-1119
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Oil and Gas Privacy Notice:

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

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FEB 0 3 2020

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

	ne Requirement: notice shall be provide otice: 01/15/2020 Date Perm	led no later than the filing date of permit nit Application Filed: 01/16/2020	application.
Delivery i	nethod pursuant to West Virginia Coo	de § 22-6A-16(c)	
■ CEF	TIFIED MAIL	☐ HAND	
	TURN RECEIPT REQUESTED	DELIVERY	
return received the planner required to drilling of damages to (d) The notice.	reprint requested or hand delivery, give the doperation. The notice required by the better provided by subsection (b), section a horizontal well; and (3) A proposed to the surface affected by oil and gas operatices required by this section shall be given by provided to the SURFACE OV	surface owner whose land will be used for his subsection shall include: (1) A copy ten of this article to a surface owner whose surface use and compensation agreement rations to the extent the damages are compensed to the surface owner at the address like the surface owner at the address like the surface owner at the surface owner at the address like the surface owner at the address like the surface owner at the address like the surface owner at the address like the surface owner at the surface owner at the address like the surface owner at	ication, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for spensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the add Name: Address:	ress listed in the records of the sheriff at HG Energy II Appalachia LLC 5260 Dupont Road Parkersburg, WV 26101 nereby given:	Name:Address:	
(at the add Name:	HG Energy II Appalachia LLC  5260 Dupont Road  Parkersburg, WV 26101  nereby given:  5 West Virginia Code § 22-6A-16(c), no	Name: Address:  atice is hereby given that the undersigned	
(at the add Name: Address: Notice is I Pursuant topperation	HG Energy II Appalachia LLC  5260 Dupont Road  Parkersburg, WV 26101  nereby given:  5 West Virginia Code § 22-6A-16(c), no	Name: Address:  otice is hereby given that the undersigned pose of drilling a horizontal well on the transfer of the transfer	
(at the add Name:	HG Energy II Appalachia LLC  5260 Dupont Road  Parkersburg, WV 26101  nereby given:  D West Virginia Code § 22-6A-16(c), no on the surface owner's land for the purp	Name: Address:  otice is hereby given that the undersigned pose of drilling a horizontal well on the tra	act of land as follows:
(at the add Name:	HG Energy II Appalachia LLC 5260 Dupont Road Parkersburg, WV 26101  nereby given: D West Virginia Code § 22-6A-16(c), no on the surface owner's land for the purp West Virginia Lewis Freemans Creek	Name: Address:  Address:  otice is hereby given that the undersigned pose of drilling a horizontal well on the trace that the undersigned with the undersigned of the pose of drilling a horizontal well on the trace that the undersigned with the undersigned of t	act of land as follows: 545442.4
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

January 28, 2020

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

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

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

Subject: DOH Permit for the McDonald 1211 Pad, Lewis County 1211 S-8H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #07-2019-0255 which has been issued to HG Energy, 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.

Office of Oil and Gas

FEB 0 3 2020

WV Department of Environmental Protection Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Diane C. White

HG Energy, LLC CH, OM, D-7

File

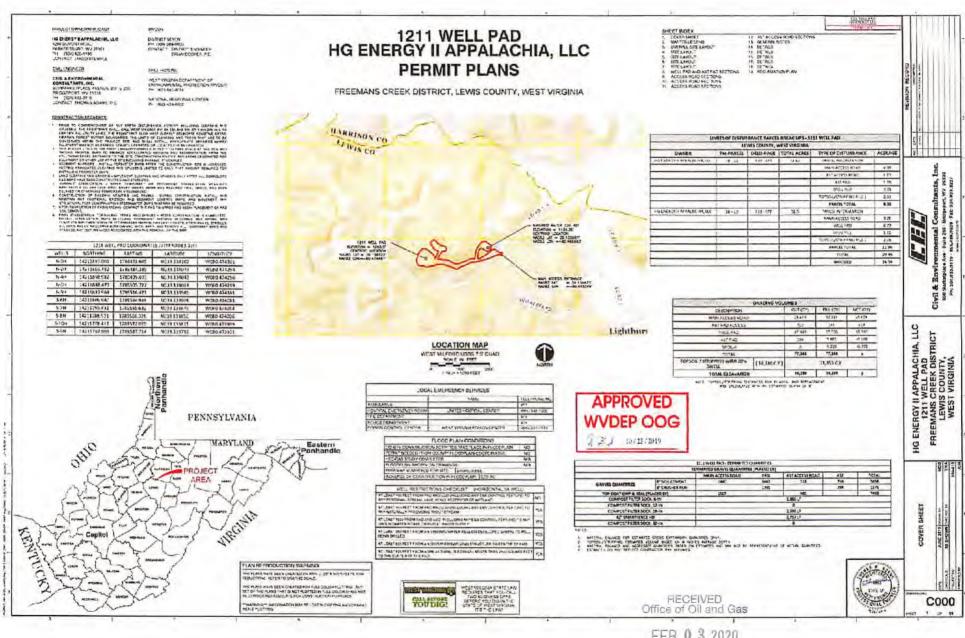
## List of Frac Additives by Chemical Name and CAS #

## McDonald 1211 Well Pad (N-1H, N-3H. N-5H, S-7H, S-8H, S-9H)

Chemical Name	CAS#	Multiple CAS #'s
D CL   CL   405	100	60554 42 2
Pro Shale Slik 405	Mixture	68551-12-2
		7647-14-5 12125-02-9
		64742-47-8
		64/42-4/-8
Pro Hib II	Mixture	68412-54-4
No. 1		68607-28-3
		107-21-1
		111-76-2
		67-56-1
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
		1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
DIO CLEAD 2000	Mixture	25322-68-3
BIO CLEAR 2000	iviixture	10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
TROBREAKT	Winterc	107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
DDOCEL 4	0000 30 0	
PROGEL - 4	9000-30-0	

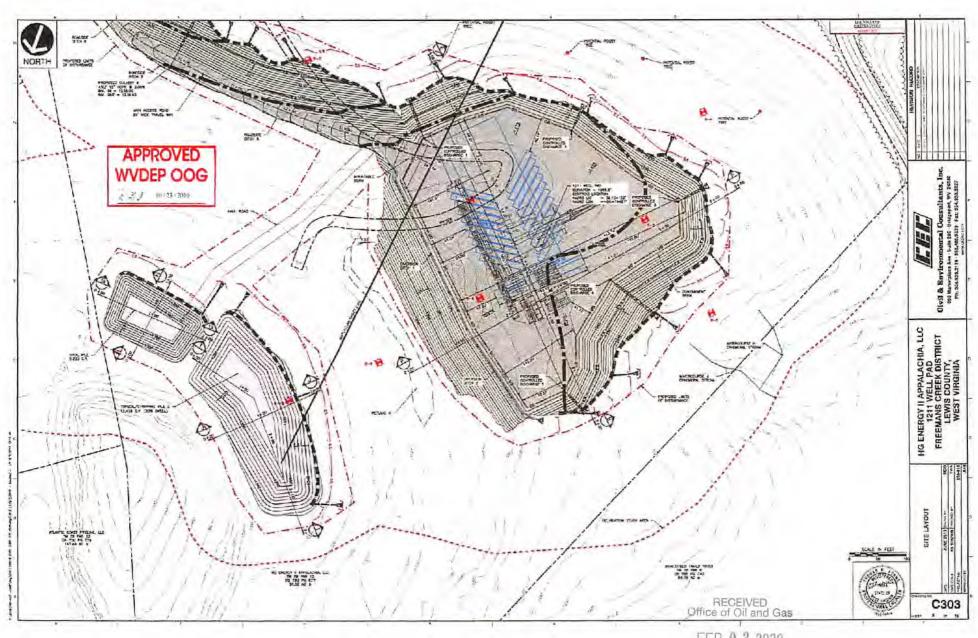
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WW Department of Environmental Protection



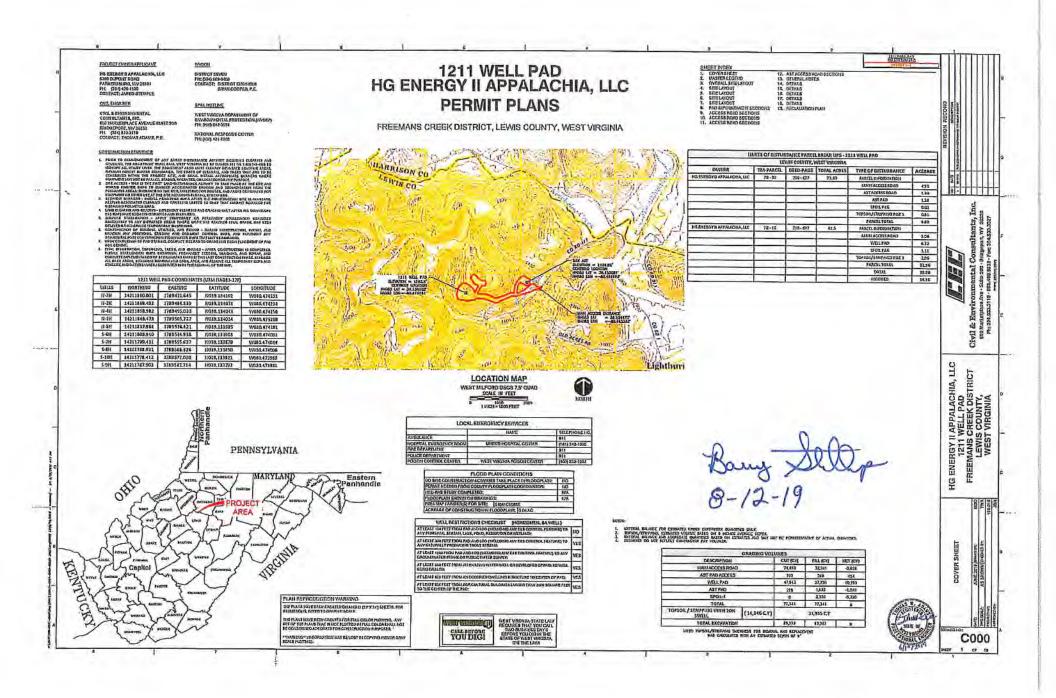
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