

west virginia department of environmental protection

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

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

Monday, May 3, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for EVANS 1213 S-5H 47-041-05721-00-00

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 Chief

Operator's Well Number: EVANS 1213 S-5H Farm Name: JAMES M. & SUZANNE L. EY U.S. WELL NUMBER: 47-041-05721-00-00 Horizontal 6A New Drill Date Issued: 5/3/2021

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

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

API Number:

## **PERMIT CONDITIONS**

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.

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API NO. 47-041 - 6572

WW-6B (04/15)

OPERATOR WELL NO. Evans 1213 S-5H Well Pad Name: Evans 1213

#### 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 Camden 7	.5'
Operator ID County District Quadrangle	•
2) Operator's Well Number: Evans 1213 S-5H Well Pad Name: Evans 1213	
3) Farm Name/Surface Owner: James & Suzanne Evans Public Road Access: Mare Run Rd at CR 10/9	)
4) Elevation, current ground: 1233' Elevation, proposed post-construction: 1227'	
5) Well Type (a) Gas <u>x</u> Oil Underground Storage	
(b)If Gas Shallow X Deep	
Horizontal ×	
6) Existing Pad: Yes or No No	
<ol> <li>Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s): Marcellus at 6709'/6791' and 82' in thickness. Anticipated pressure at 4314#.</li> </ol>	
8) Proposed Total Vertical Depth: 6760'	
9) Formation at Total Vertical Depth: Marcellus	
10) Proposed Total Measured Depth: 19,430'	
11) Proposed Horizontal Leg Length: 12,228'	
12) Approximate Fresh Water Strata Depths: 60', 136', 151', 200'	
13) Method to Determine Fresh Water Depths: Nearest offset well data, (47-041-01847, 1786, 1233)	-
14) Approximate Saltwater Depths: None found	
15) Approximate Coal Seam Depths: 220', 445', 650',800', 805' (Surface casing is being extended to cover the coal in the DTI St	orage Field)
16) Approximate Depth to Possible Void (coal mine, karst, other): None	
17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No	
(a) If Yes, provide Mine Info: Name:	
Depth:	
Seam:	
Owner:	

API NO. 47- 4704105721

OPERATOR WELL NO. Evans 1213 S-5H

Well Pad Name: Evans 1213

WW-6B (04/15)

### 18)

# CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	<u>New</u> or Used	<u>Grade</u>	<u>Weight per ft.</u> (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120'	Drilled In
	20"	NEW	J-55	94	1100'	1100'	CTS
Fresh Water/Coal		All and a set of the	J-55 BTC	68	2100'	2100'	CTS
Intermediate 1	13 3/8"	NEW	J-55 BIC			2900'	CTS
Intermediate 2	9 5/8"	NEW	J-55 BTC	40	2900'		
Production	5 1/2"	NEW	P-110 HP	23	19430'	19430'	CTS
Tubing							
Liners	-		1				

# B.S. 1-26-21

ТҮРЕ	Size (in)	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	26"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.28, 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
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% excess yield = 1.19, tar yield 1.94
Tubing							
Liners	11						

### PACKERS

Kind:	RECEIVED Office of Oil and Gas
Sizes:	FEB 2 4 2021
Depths Set:	WV Deparator or

API NO. 47-\_\_\_\_-OPERATOR WELL NO. Evans 1213 S-5H Well Pad Name: Evans 1213

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 6760 feet. Drill horizontal leg to estimated 12,228' lateral length, 19,430' TMD. Hydraulically fracture, stimulate and be capable of producing from the Marcellus Formation. Should we encounter an unanticipated void in the coal, we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface. We plan to run an ACP above the Gantz/Dominion Storage interval to aid in sealing off and isolating the storage interval.

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 14.36 acres

22) Area to be disturbed for well pad only, less access road (acres): 6.26 acres

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing. Freshwater/Coal - centralized every 3 joints to surface. Intermediate 2 - Bow Spring on every joint, will also be running ACP for isolating storage zone Intermediate 2 - Bow Spring on first 2 joints then every third joint to 100 from surface. Development Development and every faints from the top of the curve to surface. Run 1 spiral centralizer every 3 joints from the 1st 5.5" long joint to the top or Development. Development every 6 joints from the top of the curve to surface.

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

Conductor -NA, Casing to be drilled in wi Dual Rotary Rig. Fresh Water/Coal - 156 ppg PNE-1 + 3% bwoc Ca2l, 40% Excess / Tell: 15.9 ppg PNE-1 + 2.5% bwoc Ca2l zero% Excess. CTS Intermediati 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc Ca2l, 40% Excess, Tell: 15.9 ppg, PNE-1 + 2.5% bwoc Ca2l, zero% Excess. CTS Intermediati 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc Ca2l, 40% Excess, Tell: 15.9 ppg, PNE-1 + 2.5% bwoc Ca2l, zero% Excess, Ca3 Intermediati 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc Ca2l, 40% Excess, Tell: 15.9 ppg, PNE-1 + 2.5% bwoc Ca2l, zero% Excess, Ca3 Intermediati 2 - Lead: 15.4 ppg PNE-1 + 0.5% bwoc Ca2l, 40% Excess, Tell: 15.9 ppg, PNE-1 + 0.35% bwoc Ca3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess, Lead Yield=1.94, CTS Production - Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess, Lead Yield=1.94, CTS

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD. Fresh Water/Coal-Once cashing is at setting depth, circulates a minimum of one hole volume with Fresh Water prior to pumping cement. Intermediate 3 - Once cashing is at setting depth, circulates a minimum of one hole volume prior to pumping cement. Intermediate 3 - Once cashing is at setting depth, circulate a minimum of one hole volume prior to pumping cement. Intermediate 3 - Once cashing is at setting depth, circulate a minimum of one hole volume prior to pumping cement. Intermediate 3 - Once cashing is at setting depth, circulate a minimum of one hole volume prior to pumping cement. Intermediate 3 - Once cashing is at setting depth, circulate a minimum of one hole volume prior to pumping cement. Intermediate 3 - Once cashing is at setting depth, circulate and pumping cement. Intermediate 3 - Once cashing is at setting depth, circulate and pumping cement. Intermediate 3 - Once cashing is at setting depth, circulate and pumping cement. Intermediate 3 - Once cashing is at setting depth, circulate and pumping cement. Intermediate 3 - Once cashing is at setting depth, circulate and pumping cement. Intermediate 3 - Once cashing is at setting depth, circulate and pumping cement. Intermediate 3 - Once cashing is at setting depth, circulate and pumping cement. Intermediate 3 - Once cashing is at setting depth, circulate and pumping cement. Intermediate 3 - Once cashing is at setting depth, circulate and pumping cement. Intermediate 3 - Once cashing is at setting depth, circulate and pumping cement. Intermediate 3 - Once cashing is at setting depth, circulate and pumping cement. Intermediate 3 - Once cashing is at setting depth, circulate and pumping cement. Intermediate 3 - Once cashing is at setting depth, circulate and pumping cement. Intermediate 3 - Once cashing is at setting depth, circulate and pumping cement. Intermediate 3 - Once cashing is at setting depth, circulate and pumping cement. Intermediate 3 - Once cashing is at setting depth, circu

\*Note: Attach additional sheets as needed.



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WW-6B (10/14)

#### HG Energy II Appalachia, ELC-Evans 1213 Well Pad (N-1H, N-2H, N-3H, S-4H, S-5H, S-6H) Cement Additives

Naterial Name	Material Type	Material Description Premium NE-1 is a	CAS # Ingredient name	%	CAS number
		portland cement with	Portland cement:	90 - 100	65997-15-1
		early compressive	Calcium oxide	1-5	1305-78-8
		strength properties.	Magnesium oxide	1-5 0.1-1	1309-48-4 14808-60-7
emium NE-1	Portland Cement		Crystalline silica: Quartz (SIO2)	w.1 = 1	1.1023.001
		Construction of the local data			
		Commonly called gel, it is a clay material used as a	Ingredient name	%	CAS number
		cement extender and to	bentonite	90 - 100 5 - 10	1302-78-9 14808-60-7
		control excessive free	Crystalliné silica: Quartz (SiO2)	10-10	14000-00-7
	Eutondor	water.			
entonite	Extender				
		A powdered, flaked or	Ingredient name	%	CAS number
		pelletized material used	Calcium chloride	90 - 100	10043-52-4
		to decrease thickening time and increase the rate	Law a survey		
		of strength development			
lcium Chloride	Accelerator				
		Graded (3/8 to 3/4 inch)	Ingredient name	%	CAS number
		cellophane flakes used as	No hazardous ingredient		
		a lost circulation material.	Personal and a second		4
ello Flake	Lost Circulation				
		FP-13L is a clear liquid			
		organic phosphate			2
		antifoaming agent used in cementing operations. It	Ingredient name	%	CAS number
		is very effective	Tributyl phosphate	90 - 100	126-73-8
		minimizing air	The second		
		entrapment and			
		preventing foaming			
		tendencies of latex systems.			
P-13L	Foam Preventer	a ya curidi			
			Ingredient name	%	CAS number
		Used to retard cement	Sucrose	90 - 100	57-50-1
iranulated Sugar	Retarder	returns at surface.			
		A proprietary product			
		that provides expansive properties and Improves			
		bonding at low to	Ingradient name	%	CAS number
		moderate	Calcium magnesium oxide	90 - 100	37247-91-9
		temperatures.			
C-1		Multi-purpose polymer			
		additive used to control	Incredient page	9/	CAS number
		free fluid, fluid loss,	Ingredient name	%	CAS number
		free fluid, fluid loss, rheology, and gas	Ingredient name No hazardous ingredient	%	CAS number
1PA-170	Gas Migration	free fluid, fluid loss,		%	CAS number
1PA-170	Gas Migration	free fluid, fluid loss, rheology, and gas		%	CAS number
IPA-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide).		%	CAS number
PA-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with		%	
PA-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be	No hazardous ingredient	%	CAS number
PA-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with	No hazardous ingredient Ingredient name Crystalline silkca: Quartz (SIQ2)	% 5-10 pm	CAS number 14808-60-7
IPA-170	Gas Migration	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	No hazardous ingredient	% 5-10 1-5 REC	CAS number
IPA-170	Gas Migration	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	No hazardous ingredient Ingredient name Crystalline silkca: Quartz (SIQ2)	% 5-10 1-5 REC	CAS number DEIVE 14808-60-7 1305-78-8
IPA-170	Gas Migration	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	No hazardous ingredient Ingredient name Crystalline silkca: Quartz (SIQ2)	5-10 1-5 REC Office of	CAS number CETVE 14808-60-7 1305-78-8 On and Gas
	Gas Migration	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	No hazardous ingredient Ingredient name Crystalline silkca: Quartz (SIQ2)	5-10 1-5 REC Office of	CAS number DEIVE 14808-60-7 1305-78-8
		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.	No hazardous ingredient Ingredient name Crystalline silkca: Quartz (SIQ2)	5-10 REC 07/10-5 07/10-67 FEB	CAS number CETVE 14908-60-7 1305-78-8 On and GMS 2 4 2021
		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	No hazardous ingredient Ingredient name Crystalline silkoz: Quartz (SiO2) Calcium oxide	5-10 REC 0ffice of FEB	CAS number DETVE 14808-60-7 1305-78-8 On and Gais 2, 4, 2021 Denument or
		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	No hazardous ingredient Ingredient name Crystalline silkca: Quartz (SiO2) Calcium oxide	5-10 REC Uffice of FEB 5 WV Dep	CAS number DETVE 14608-60-7 1305-78-8 Oni and Gais 2 4 2021 Denumber for natel P GAS number
		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	No hazardous ingredient Ingredient name Crystalline silkoz: Quartz (SiO2) Calcium oxide	5-10 REC 0ffice of FEB	CAS number DETVE 14808-60-7 1305-78-8 On and Gais 2, 4, 2021 Denument or
oz (Fly Ash)	Base	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	No hazardous ingredient Ingredient name Crystalline silkca: Quartz (SiO2) Calcium oxide Ingredient name	5-10 REC Uffice of FEB 5 WV Dep	CAS number DETVE 14608-60-7 1305-78-8 Oni and Gais 2 4 2021 Denumber for natel P GAS number
oz (Fly Ash)		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	No hazardous ingredient Ingredient name Crystalline silkca: Quartz (SiO2) Calcium oxide Ingredient name	5-10 REC Uffice of FEB 5 WV Dep	CAS number DETVE 14608-60-7 1305-78-8 Oni and Gais 2 4 2021 Denumber for natel P GAS number
oz (Fly Ash)	Base	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	No hazardous ingredient Ingredient name Crystalline silka: Quartz (SiQ2) Calcium oxide Ingredient name Organic acid salt	%           5-10           1-5           Office of           FEB           WV Dep           %ovironmen           40-50	CAS number DETVE 14608-60-7 1305-78-8 Oni and Gais 2 4 2021 Denumber for natel P GAS number
oz (Fly Ash)	Base	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	No hazardous ingredient         Ingredient name         Crystalline silka: Quartz (SIO2)         Calcium oxide         Ingredient name         Organic acid salt         Ingredient name         2-Butoxyethanol	% 5-10 REC Office of FEB WV Dep %v/ronme 40-50	CAS number 14808-60-7 1305-78-8 Chi and Gais 2 4 2021 Danuent or ntal P CAS number Trade secret.
oz (Fly Ash)	Base	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	No hazardous ingredient         Ingredient name         Crystalline silkca: Quartz (SiO2)         Calcium oxide         Ingredient name         Organic acid salt         Ingredient name         2-Butoxyethanol         Proprietary surfactant.	%           5-10           1-5           Office of           FEB           WV Dep           %           40-50           %           20-30           10-20	CAS number DETVE 14608-60-7 1305-78-8 Chi and Gais 2, 4, 2021 DETURENT OF Intel P GAS number Trade secret.
1PA-170 oz (Fly Ash) -3	Base	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	No hazardous ingredient         Ingredient name         Crystalline silkca: Quartz (SiO2)         Calcium oxide         Ingredient name         Organic acid salt         Ingredient name         2-Butoxyethanol         Proprietary surfactant.         D-Glucopyranose, oligomeric, C10-16-alkyl glycosides         Alkvarvisulfonate arrine salt	% 5-10 REC Office of FEB WV Dep %v/ronme 40-50	CAS number 14808-60-7 1305-78-8 Chi and Gais 2 4 2021 Danuent or ntal P CAS number Trade secret.

HERGY.												1213 S Marcellus Shal Lewis Cou	e Horizontal Inty, WV	_	
									1213 S	-5H SHL	-	14:	205067.28N 17779	76.97E	
Ground	LEInu	tio		1		1227.6			1213	S-5H LP		14	204540.1N 177782	4.13E	
12.14.416.1		atio		-		160.67		1213 S-5H BHL				14193005.17N 1781870.33E			
	Azm			-	and the		GEOLOGY	ТОР	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS	
WELLBO	ORE DIAG	RAM	_	1	HOLE	CASING	GEOLOGI	TOP	DAGE	mod					
					30"	30" 157.5# - LS	Conductor	0	120	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5" w thickness	
			Î	0073			Fresh Water	Ø	214, 600, 861	100	15.6 ppg PNE-1 + 3% bwoc CaCl	Centralized every 3	Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" w	
			X		26"	20" 94# J-55	Kittaning Coal	800	805	AIR	40% Excess	joints to surface	of one hole volume with Fresh Water prior to	thickness Burst=2110 psi	
							Fresh Water	0	1100		Yield=1.20 / CTS	1.	pumping cement.		
X			X	-			Protection Little Lime	1474	1494	1	Lead: 15.4 ppg PNE-1 +	Bow Spring on every	Once casing is at setting		
							Big Lime	1524	1594	AIR / KCL-	2.5% bwoc CaCl 40% Excess / Tail: 15.9	joint	depth, Circulate and condition at TD. Circulate a	Intermediate casing = 0.4 wall thickness	
x			Y		17.5"	13-3/8" 68# J-55 BTC	Injun / Gantz (Storage)	1594 / 1866	1692 / 1926	Salt Polymer	ppg PNE-1 + 2.5% bwoc	*will also be running ACP for isolating	minimum of one hole	Burst=3450 psi	
x							Intermediate 1	0	2100		CaCl zero% Excess. CTS	storage zone*	volume prior to pumping cement.		
				-			Fifty / Thirty Foot	1978 / 2075	1998 / 2102	2	Lead: 15.4 ppg PNE-1 +		Once casing is at setting		
x						0031	Gordon Stray / Gordon	2120 / 2156	2154 / 2232	AIR / KCL -	2.5% bwoc CaCl	Bow Spring on first 2	depth, Circulate and	Intermediate casing = 0.3	
					12.25"	9-5/8" 40#	5th Sand	2369	2409	Salt	40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc	joints then every third joint to 100' form	condition mud at TD. Circulate a minimum of one	wall thickness Burst=3950 psi	
×			e			J-55 BTC	Bayard / Warren	2449/2771	2479 / 2796	Polymer	CaCl zero% Excess. CTS	surface	hole volume prior to pumping cement.	Durat-0000 por	
^				-			Intermediate 2	0	2900		ZBID // EXCESS, 010		pumping cement.		
×		x	4				Speechley	3076	3096			Run 1 spiral centralizer		1	
					TEL Vedeni		Balltown	3286	3346	AIR / 9.0ppg	Lead: 145 ppg	every 5 joints from the			
				8.	.75" Vertical		Benson	4386	4411	SOBM	Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk	top of the curve to surface.	1		
													Once on bottom/TD with		
							Rhinestreet	6009	6279		FP13L + 0.3% bwoc		casing, circulate at max	Production casing = 0.4	
						E 3/01	Cashaqua	6279	6379		MPA170 Tail: 14.8 ppg PNE-1 +		allowable pump rate for at least 2x bottoms up, or until	wall thickness	
×		x			1.1.1	5-1/2" 23#	Middlesex	6379	6411	11.5ppg-	0.35% bwac R3 + 0.75		returns and pump pressures indicate the hole	Burst=16240 psi Note:Actual centralize	
					8.5" Curve	P-110 HP CDC HTQ	West River	6411	6482 6492	12.5ppg SOBM	gal/sk FP13L + 50% bwoc ASCA1 + 0.5%	Run 1 spiral centralizer	is clean. Circulate a	schedules may be chang	
	En			6		oborna	Burkett	6482	6600		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	
	VVV Vitai		17	Office			Tully Limestone	6492 6600	6753		Lead Yield=1.19	top of the curve.	cement.		
	WV Cap n Vironmentni			10 C			Hamilton Marcellus	6709	6791		Tail Yield=1.94 CTS				
1			0 6	空旗	8.5" Lateral		TMD / TVD (Production)	19430	6760	11.5ppg- 12.5ppg SOBM	6				
x	Dent di Protecc	X	20.5	11/1			Onondaga	6791	-		1			V	
^	n de la			- )	X	Х	X	X	-	Х	Х	X	X X	X	
	1		LP@	6760' M	TVD / 7202' D			8.5" Hole - Cemen 5-1/2" 23# P-110					28' ft Laterai	TD @ +/-6760' TVD +/-19430' MD	
	X		sile		X	Х	Х	X		X	Х	Х	) X	X=centralizers	

W (4

WW-9	17171 1 17
(4/16)	API Number 47 Operator's Well No. Evans 1213 S-5H
STATE	OF WEST VIRGINIA
	INVIRONMENTAL PROTECTION
OFFIC	E OF OIL AND GAS
FLUIDS/ CUTTINGS D	DISPOSAL & RECLAMATION PLAN
Operator Name HG Energy II Appalachia, LLC	OP Code 494501907
Watershed (HUC 10) Middle West Fork Creek	Quadrangle Big Isaac 7.5'
Do you anticipate using more than 5,000 bbls of water to co	omplete the proposed well work? Yes 🖌 No
Will a pit be used? Yes No 🗸	
If so, please describe anticipated pit waste: NA	
Will a synthetic liner be used in the pit? Yes	No 🖌 If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes	5:
Land Application	
Underground Injection (UIC Pe	ermit Number)
Reuse (at API Number TBD - Atr	
Off Site Disposal (Supply form	WW-9 for disposal location)
Other (Explain	
Will closed loop avetom he wood? If an departies. Yes, cuttings	s and fluids will be collected in a closed loop system, re-used or hauled to an approved disposal site or landfill.
	zontal)? Air, freshwater, oil based, etc. Verlical-Air, Auricola, Auricola, Auricola, Auricola, SOBM
-If oil based, what type? Synthetic, petroleum, etc	: Synthetic
Additives to be used in drilling medium? Water, Soap, KCI,	Barite, Base Oil, Wetting Agents
Drill cuttings disposal method? Leave in pit, landfill, remo	oved offsite, etc. Approved Landfill
-If left in pit and plan to solidify what medium wil	Il be used? (cement, lime, sawdust) NA
-Landfill or offsite name/permit number? See Atta	ached

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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

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

Company Official Signature Diane White		RECEIVED Office of Official of as
Company Official (Typed Name) Diane White Company Official Title Agent		FEB 2 4 2021
		WW Elensionent of
Subscribed and sworn before me this 19th day of January	, 20_21	Environmental Protection
My commission expires 7/31/2022	Notary Public	OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC CASSIDY A BOARDMAN 5301 130 50 0000000000000000000000000000

#### Form WW-9

### Operator's Well No. Evans 1213 S-5H

roposed Revegetation Treat	ment: Acres Disturbed 14.36	Prevegetation pH	I
Lime	3 Tons/acre or to correct to pH	6.5	
Fertilizer type 10	-20-20		
Fertilizer amount	500 <sub>It</sub>	os/acre	
<sub>Mulch</sub> Hay	2 <sub>Tons/</sub>	acre	
	See	d Mixtures	
Те	mporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5

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

Attach:

Plan Approved by:

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

Photocopied section of involved 7.5' topographic sheet.

Bang State

Comments: Pre-seed/mulch as soon as reasonably possible per regulation.

## Upgrade E&S if needed per WV DEP E&S manual.

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Titla	Oil	&	Gas	Ins	pector	
THUE:					the second second second	

Date: 1-26-21

WV Deparation of Environmental Protection

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Field Reviewed?

( / ) Yes

) No

. .....

# **Cuttings Disposal/Site Water**

Cuttings -Haul off Company:

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

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

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

Disposal Locations:

Apex Environnemental, LLC Permit # 06-08438 11 County Road 78 Amsterdam, OH 43903 740-548-4389

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

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

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

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

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

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

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

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

Brooka County Landfill Permit # SWF-103-97 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 304-748-0014 RECEIVED Office of Oil and Gas

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Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martinsville, WV 26035 304-455-3800

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

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

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

Water Haul off Companies:

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

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

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

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

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

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

**Disposal Locations:** 

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

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

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

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

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

Equipment Transport 1 Tyler Court Carlisle, PA 17015

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

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

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

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

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 48767 614-648-8898 740-796-6495 RECEIVED Office of Oil and Gau

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

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

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

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

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

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

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

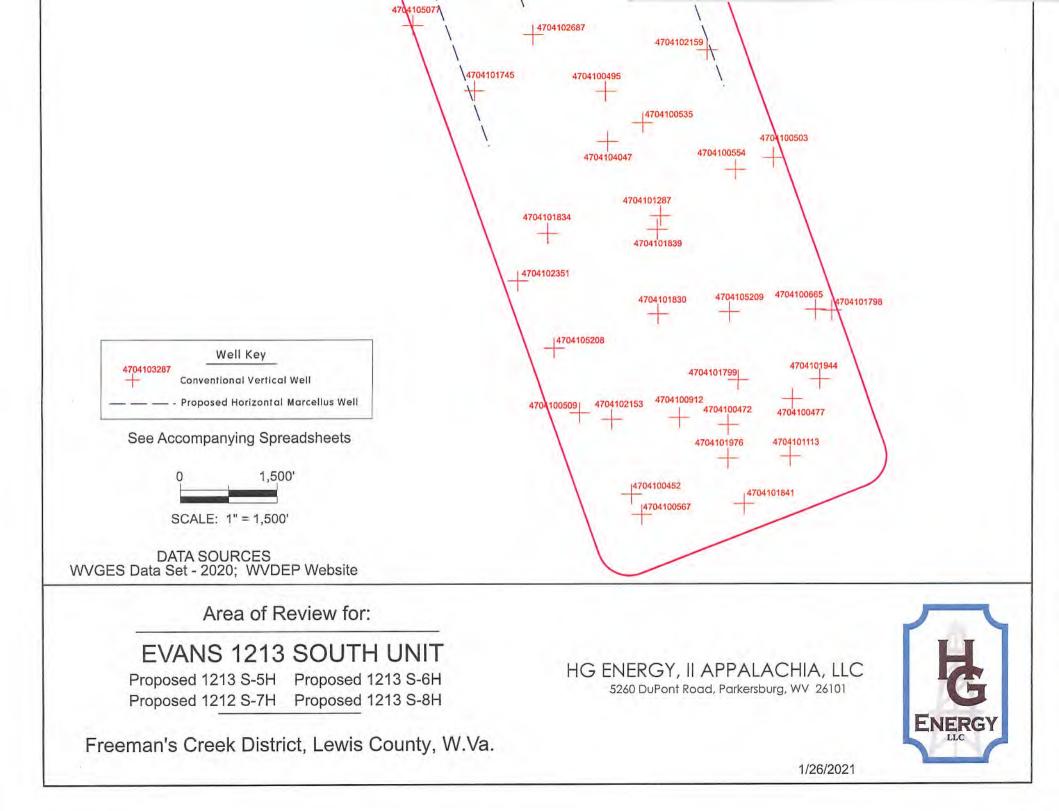
Chapin #7 UIC (SWIW #7) Permit # 34-083-2-4197-00-00 Elkhead Gas& Oil Company 12163 Marne Rd. NE Newark, OH 43055 740-763-3966

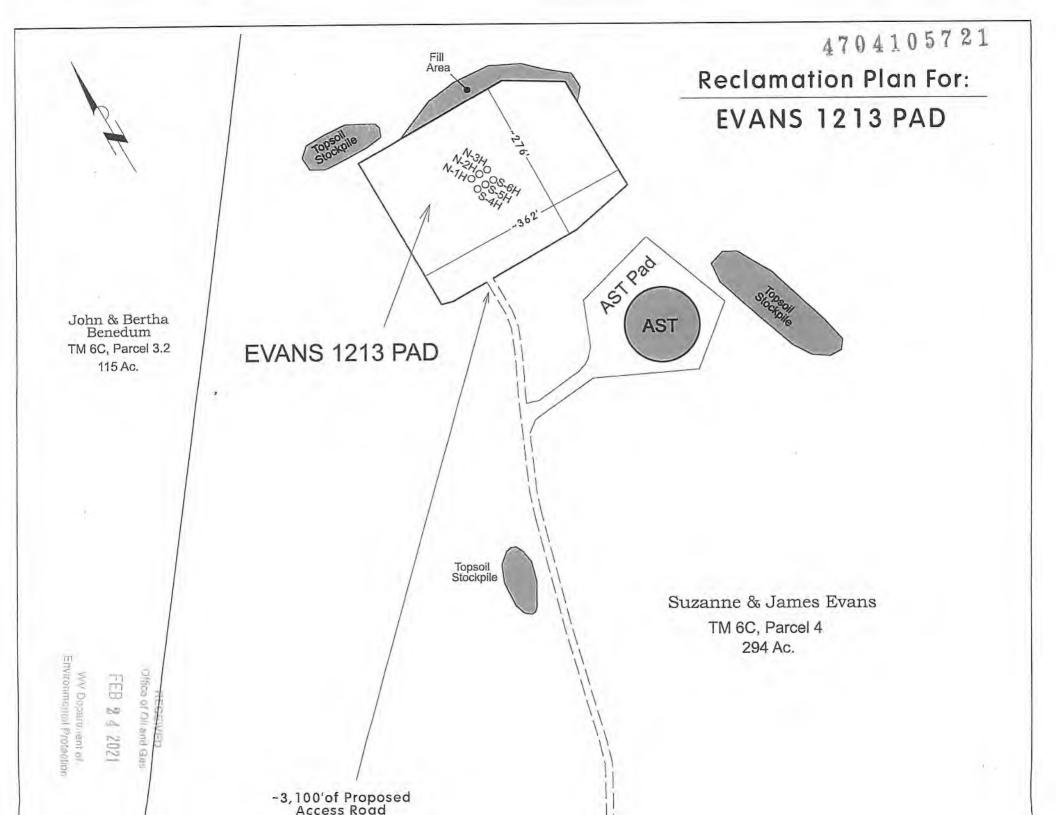
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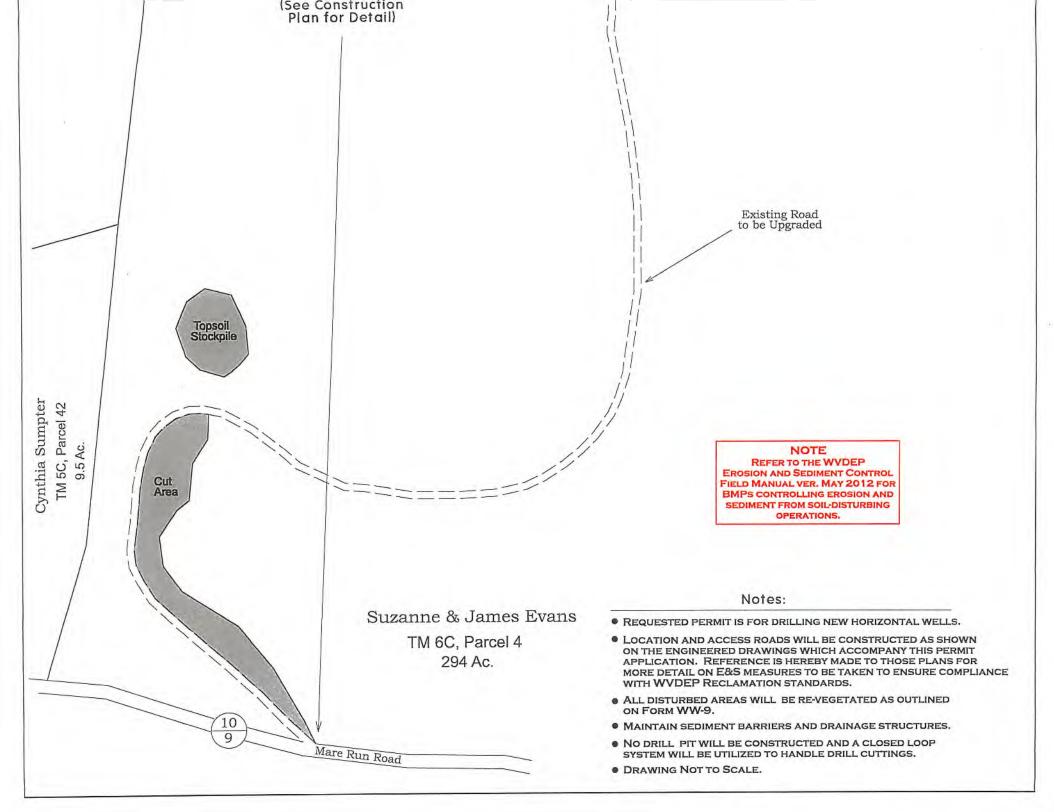
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WV Department of Environmental Protection









СТ	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4704100120	Lewis	J W Norris	Dominion Energy Transmission, Inc.	Big Injun (Grnbr)	Dry w/ Gas Show	1642	PLUGGED	39.089997	-80.498156
2	4704100211	Lewis	J S Morris	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2010	ACTIVE	39.115375	-80.503538
3	4704100287	Lewis	M C Burnside	Dominion Energy Transmission, Inc.	Fifth	Storage	2322	ACTIVE	39.112338	-80.512384
4	4704100441	Lewis	Pearl Stalnaker 1	UNKNOWN	Up Devonian	Gas	2440	ABANDONED	39.098698	-80.504468
5	4704100452	Lewis	Lyle Randolph et al	Diversified Resources, Inc.	Hampshire Grp	Gas w/ Oil Show	1885	ACTIVE	39.067474	-80.493864
6	4704100472	Lewis	J L J Bailey Heirs 1	Deran Resources, Inc.	Price Fm & equivs	Gas	1413	ACTIVE	39.070419	-80.488579
7	4704100477	Lewis	Judson Bailey 1	Law, David W.	Big Injun (Grnbr)	not available	1.264	ABANDONED	39.071500	-80,485059
8	4704100495	Lewis	S H Bailey 1	David Bowyer	Price Fm & equivs	Gas w/ Oil Show	1456	ACTIVE	39.084700	-80.495140
9	4704100503	Lewis	J J Bailey 2	Geo Energy,LLC	Price Fm & equivs	Gas w/ Oil Show	1385	ACTIVE	39.081831	-80.486044
10	4704100509	Lewis	V Green	LuRay Land, Inc.	Hampshire Grp	Dry w/ Gas Show	2629	PLUGGED	39.070954	-80.496657
11	4704100535	Lewis	S H Bailey 2	David Bowyer	Price Fm & equivs	Gas	1427	ACTIVE	39,083337	-80.493134
12	4704100554	Lewis	Douglas Butcher Hrs 1	Lippizan Petroleum, Inc.	Price Fm & equivs	Gas	1477	ACTIVE	39.081324	-80.488106
13	4704100567	Lewis	V Green	LuRay Land, Inc.	Undf PRICE blw INJN	Gas	1554	PLUGGED	39.066604	-80.493306
14	4704100605	Lewis	L Reger	Bower, Hall and Wetzel	Price Fm & equivs	Gas	1781	PLUGGED	39.090446	-80.490179
15	4704100665	Lewis	J L J Bailey Heirs 2	Deran Resources, Inc.	Price Fm & equivs	Gas	1481	ACTIVE	39.075325	-80.483775
16	4704100912	Lewis	T Lee Hudkins	Alliance Petroleum Co. LLC	Big Injun (Grnbr)	Gas	1536	ACTIVE	39.070727	-80.491227
17	4704101113	Lewis	Lester Linger	Alliance Petroleum Co. LLC	Big Injun (Grnbr)	Gas	1586	ACTIVE	39.069055	-80.485195
18	4704101287	Lewis	T L Hudkins	Charity Gas, Inc.	Undf PRICE blw INJN	Gas	1686	ABANDONED	39.079366	-80.492196
19	4704101582	Lewis	James R/Mary L Myers	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	4520	ACTIVE	39.091520	-80.491493
20	4704101604	Lewis	William J. Roff	Alliance Petroleum Co. LLC	Brallier	Gas	4300	ACTIVE	39.095839	-80.499322
21	4704101656	Lewis	James R. Myers	Alliance Petroleum Co. LLC	Benson	Gas	4226	ACTIVE	39.090080	-80,503268
22	4704101661	Lewis	James H Hall Trst	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4393	ACTIVE	39.097816	-80.508177
23	4704101707	Lewis	Abram Gaston	Dominion Energy Transmission, Inc.	Benson	Gas	4230	ACTIVE	39.104124	-80.502768
24	4704101745	Lewis	J W Kemper	Alliance Petroleum Co. LLC	Benson	Gas	4511	ACTIVE	39.084753	-80.502277
25	4704101760	Lewis	L E Gall	Dominion Energy Transmission, Inc.	Benson	Gas	4380	ACTIVE	39.108664	-80.507231
26	4704101786	Lewis	James Morrow Evans	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4450	ACTIVE	39.111007	-80.515806
27	4704101798	Lewis	J L Bailey Heirs	Ross & Wharton Gas Co., Inc.	Benson	Gas	4302	ACTIVE	39.075283	-80.482886
28	4704101799	Lewis	J L Bailey Heirs	James B. Lambert	Benson	Gas	4280	ABANDONED	39.072326	-80,488037
29	4704101830	Lewis	T Lee Hudkins 2	Greylock Conventional, LLC m	Benson	Gas	4247	ACTIVE	39.075160	-80.492380
30	4704101834	Lewis	T Lee Hudkins 1	Greylock Conventional, LLC 🗧 🗧 🕝	Senson	Gas	4400	ACTIVE	39.078640	-80.498335
31	4704101839	Lewis	T Lee Hudkins 3	Greylock Conventional, LLC	Benson	Gas	4386	ACTIVE	39.078785	-80.492382
32	4704101841	Lewis	E L/M S Wolfe	Braxton Oil & Gas Corp. 🗧 👸 😒	Benson	Gas	4375	ACTIVE	39.067039	-80.487725
33	4704101843	Lewis	Tomas R Zinn etal	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4545	ACTIVE	39,115681	80.508049

34	4704101872	Lewis	J W Norris	Alliance Petroleum Co. LLC	Oriskany	Gas	7425	ACTIVE	39.092249	-80.494135
35	4704101944	Lewis	Judson Bailey 2	Clem Energy LLC	Benson	Gas	4232	ACTIVE	39.072344	-80.483562
36	4704101976	Lewis	Judson Bailey 3	Clem Energy LLC	Benson	Gas	4381	ACTIVE	39.068988	-80.488601
37	4704102055	Lewis	Abram Gaston	Dominion Energy Transmission, Inc.	Benson	Gas	4125	ACTIVE	39.108099	-80.497903
38	4704102153	Lewis	Cassie G Smith 2	Alliance Petroleum Co, LLC	Benson	Gas	4403	ACTIVE	39.072344	-80.483562
39	4704102159	Lewis	W Reger	Greylock Conventional, LLC	Benson	Gas	4289	ACTIVE	39.070669	-80.494920
40	4704102307	Lewis	Suzanne Lynn Evans	Dominion Energy Transmission, Inc.	not available	Gas		PLUGGED	39.110100	-80.510566
41	4704102329	Lewis	Frank McKinley	Alliance Petroleum Co. LLC	Hampshire Grp	Gas	2153	ACTIVE	39.095653	-80.503351
42	4704102333	Lewis	L Gall	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2355	ACTIVE	39.109317	-80.508566
43	4704102334	Lewis	L E Gall	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	2281	ACTIVE	39.107746	-80.510473
44	4704102337	Lewis	M Hall	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	2318	ACTIVE	39.100322	-80.511015
45	4704102338	Lewis	J Norris	Alliance Petroleum Co. LLC	not available	not available	- (+) = (+)	ACTIVE	39.095558	-80.496642
46	4704102351	Lewis	T Hudkins	Alliance Petroleum Co. LLC	not available	Gas		ACTIVE	39.07661	-80.500001
47	4704102365	Lewis	Abram Gaston	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	1868	PLUGGED	39.102759	-80,502235
48	4704102366	Lewis	A Gaston	Dominion Energy Transmission, Inc.	not available	Gas	-	ACTIVE	39.107701	-80.499824
49	4704102610	Lewis	L H Evans	Consolidated Gas Supply Corp.	Fifth	Dry w/ Gas Show	2270	ABANDONED	39.107979	-80.51377
50	4704102619	Lewis	J S Norris	Dominion Energy Transmission, Inc.	not available	Storage	1.1	ACTIVE	39.115546	80.511162
51	4704102646	Lewis	Abram Gaston	Dominion Energy Transmission, Inc.	not available	Storage		ACTIVE	39.112062	-80,505490
52	4704102687	Lewis	J Peter Bailey 1	Alliance Petroleum Co. LLC	Benson	Gas	4550	ACTIVE	39.087123	-80.499056
53	4704102851	Lewis	M C Burnside	Dominion Energy Transmission, Inc.	not available	Storage		ACTIVE	39.116315	80.514242
54	4704103547	Lewis	John Butcher 1	Schultz Run Gas Co.	Benson	Gas w/ Oil Show	4602	ACTIVE	39.112062	-80.50549
55	4704103827	Lewis	Bernard B Jerden	OWS Acquisition Co. LLC	Brallier	Gas	5884	ACTIVE	39.106529	-80.51377
56	4704103923	Lewis	Steve Hall	Enervest Operating, LLC	Benson	Gas	4267	ACTIVE	39.087123	-80.49905
57	4704103988	Lewis	Charles Hall	Enervest Operating, LLC	Greenland Gap Fm	Gas	4532	ACTIVE	39.094268	-80,50448
58	4704103996	Lewis	William Roff	Enervest Operating, LLC	Greenland Gap Fm	Gas	4182	ACTIVE	39.096044	-80.49343
59	4704104022	Lewis	Thorne E Cayton	Enervest Operating, LLC	Greenland Gap Fm	Gas	4595	ACTIVE	39.089146	-80.49554
60	4704104047	Lewis	Thorne Cayton	Enervest Operating, LLC	Greenland Gap Fm	Gas	4353	ACTIVE	39.082554	-80.49504
61	4704104502	Lewis	Scott A Carpenter	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4520	ACTIVE	39.099886	-80.49826
62 ·	4704104807	Lewis	James R Myers	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	4278	ACTIVE	39.092589	-80.49923
63	4704105077	Lewis	James R Myers	Alliance Petroleum Co. LLC	Alexander	Gas	4411	ACTIVE	39.087557	-80.50557
64	4704105208	Lewis		Alliance Petroleum Co. LLC	Misc Sands-BNSN/BRLR	Gas	4460	ACTIVE	39.073723	-80.49804
65	4704105209	Lewis	David Stanley McNemar	Alliance Petroleum Co. LLC	Misc Sands-BNSN/BRLR	Gas	4450	ACTIVE	39.075239	-80.48849
66	4704105519	Lewis	Charles F Sumpter	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4410	ACTIVE	39.100372	-80.50732
67	4704105560	Lewis	James H Hall Trust National Timber Partners WV 2	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3518	ACTIVE	39.104323	-80.51012
0/	4704105500	Lewis	National finiber Partners WV 2	FIELD SURVEYS		ES WELL WITH TVD > 4,50			ENOTES SURVEYED	

V Depaiment er minantal Proteco RECEIVED los of Dil and Ga EB 2 4 2021

ON Q 2/24/21

# HG Energy II Appalachia, LLC

# Site Safety Plan

Evans 1213 Well Pad 368 Mare Run Road Weston Lewis County, WV 26452

August 2020: Version 1

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

Bany Stillys 1-26-21

HG Energy II Appalachia, LLC

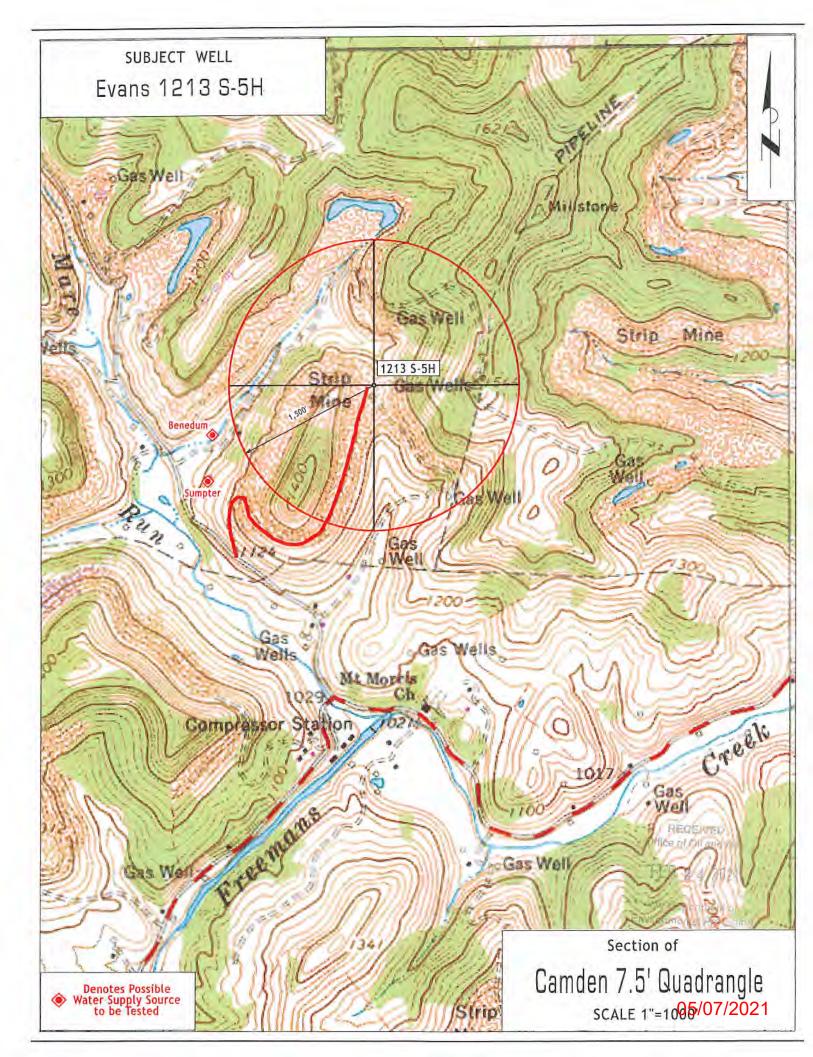
5260 Dupont Road

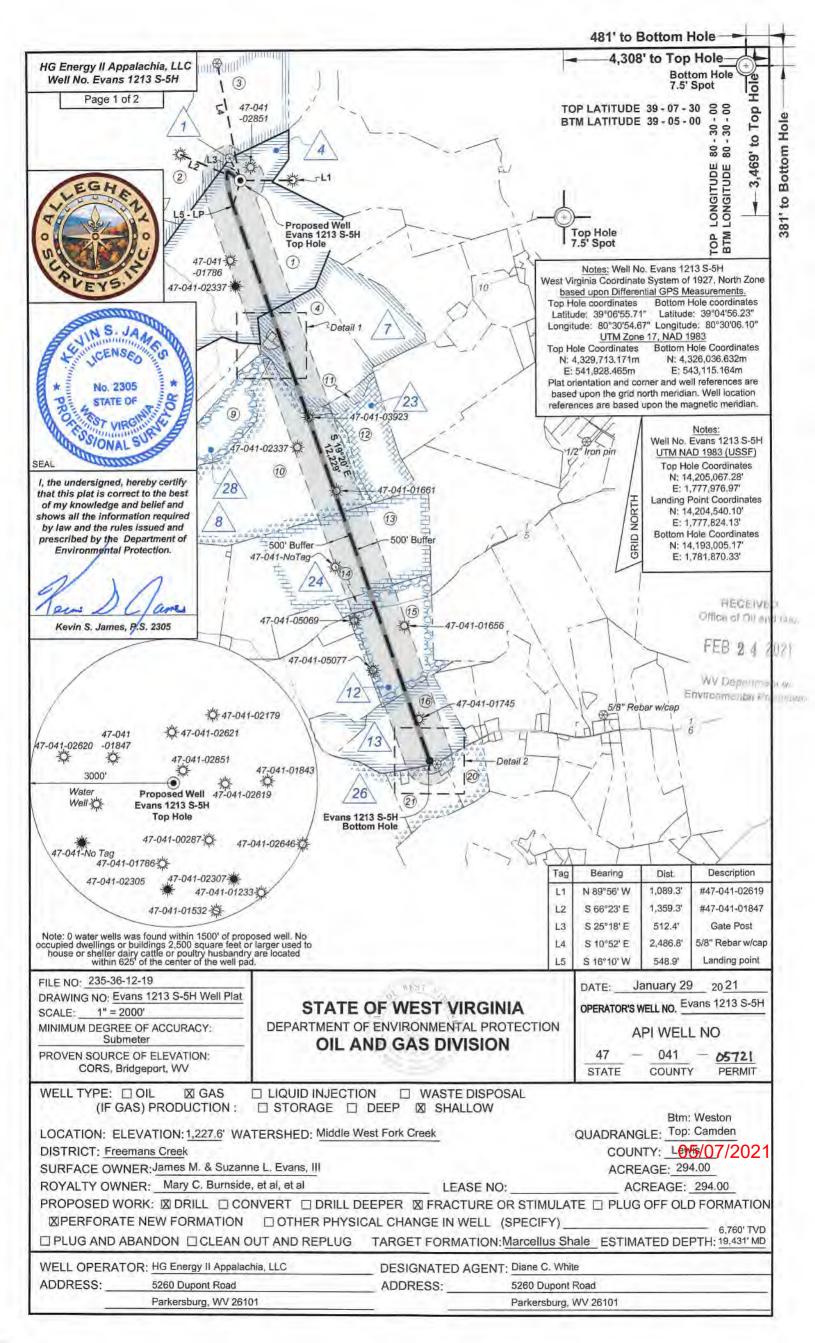
Parkersburg, WV 26101

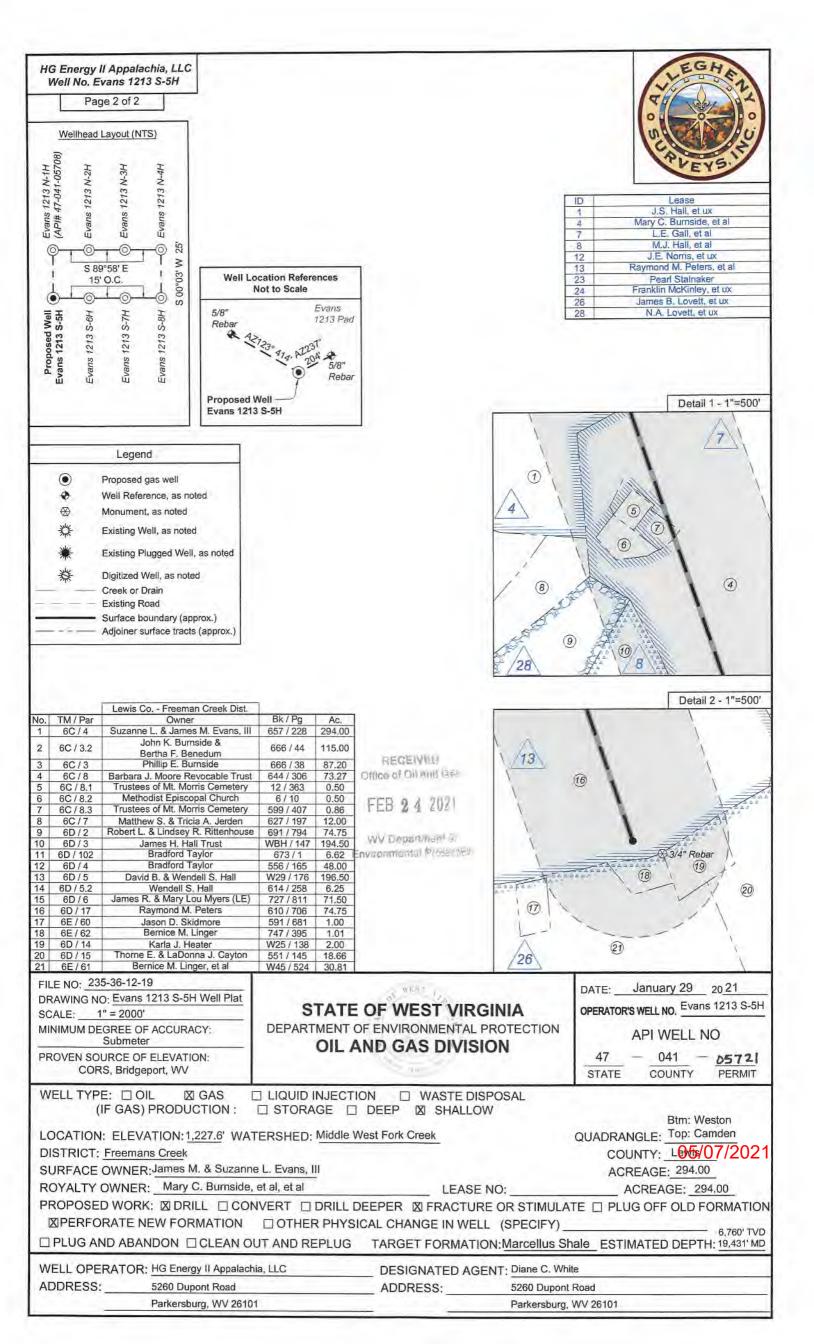
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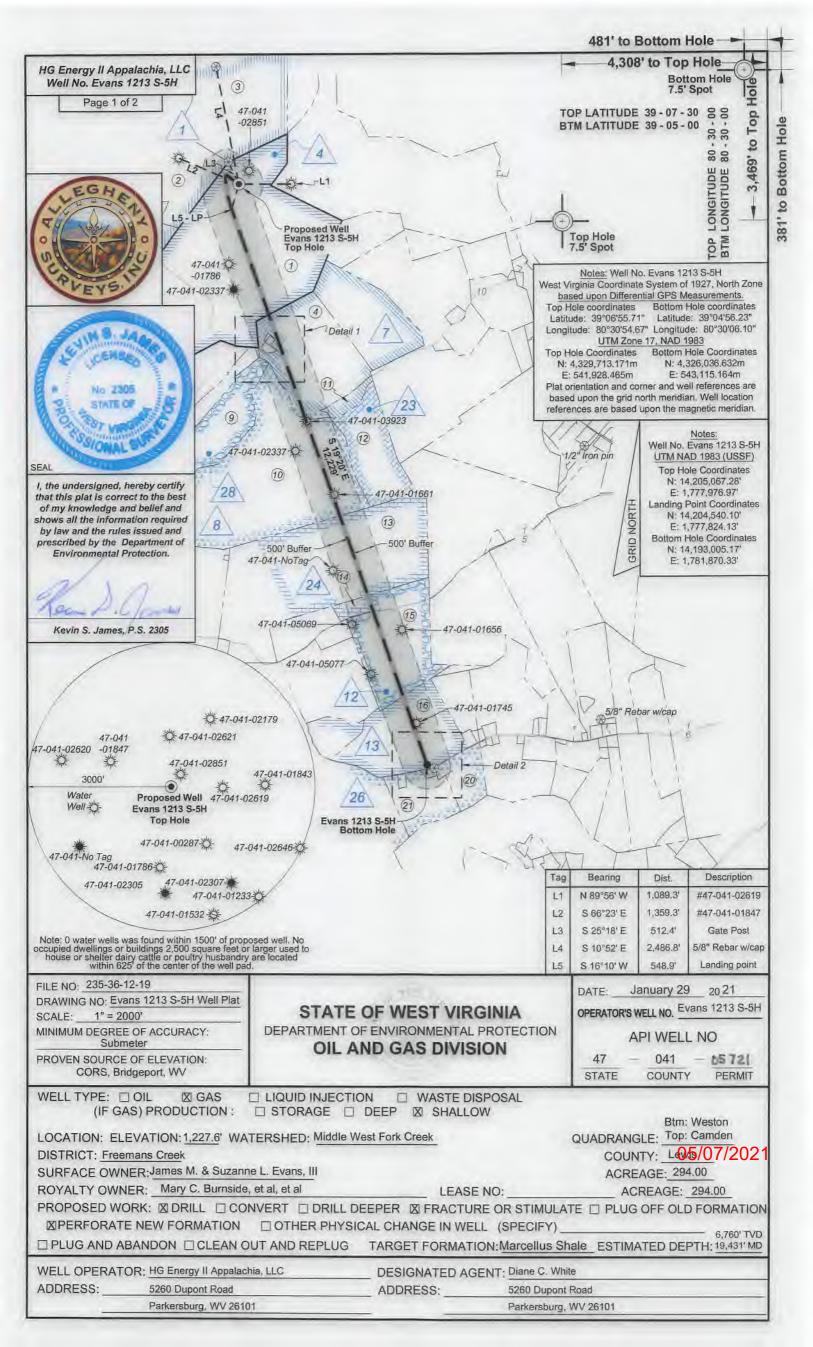
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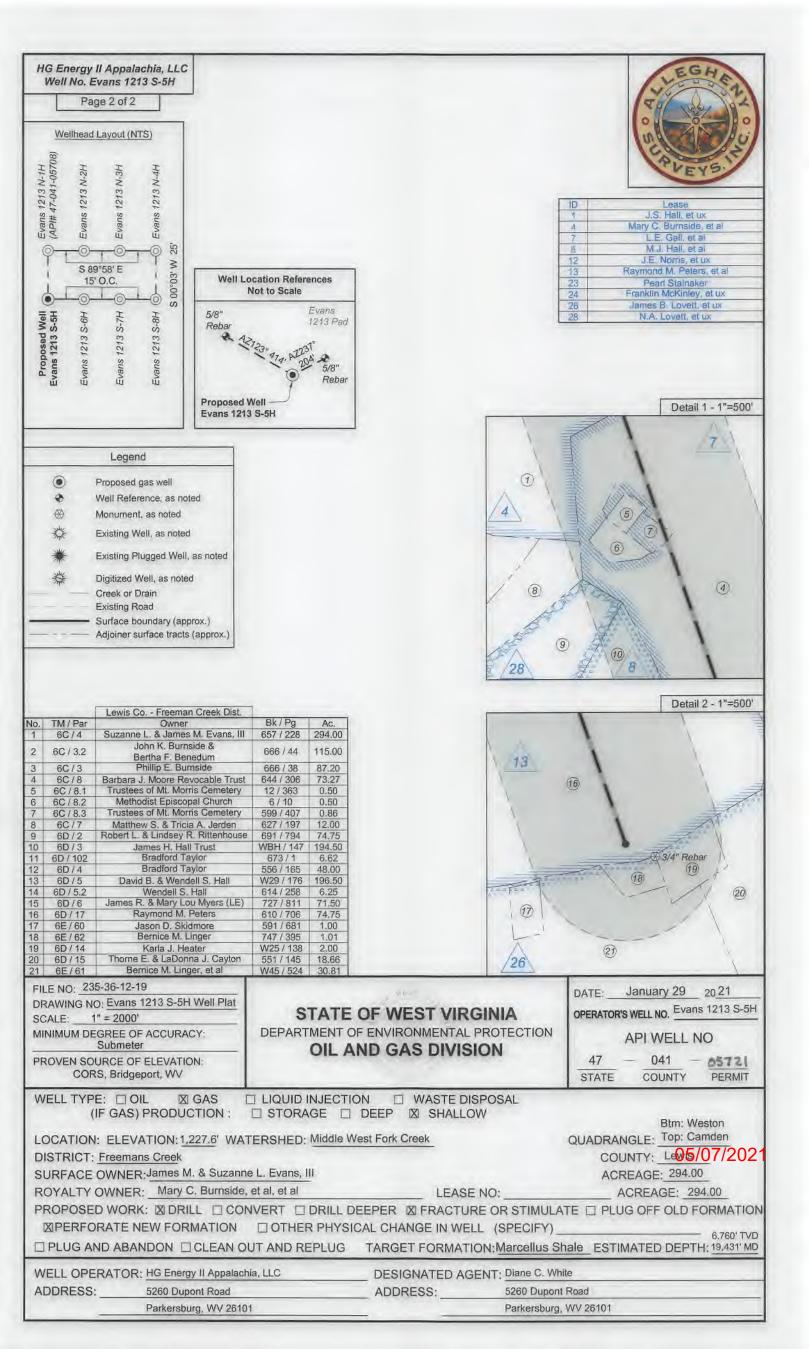
WV Department of Environmental Protection











WW-6A1 (5/13) Operator's Well No. Evans 1213 S-5H

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

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

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

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

\*\*See Attached Sheets\*\*

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WV Department 9: Environmental Fretection

#### 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.

HG Energy II A	Appalachia, LLC	
Diane White	Diane White	
Accountant		
	Diane White	Diane White Diane White

Page 1 of \_\_\_\_\_

				e of Oil and Gas B 2 4 2021 Lepariment of microter Proceedior:				
				Control Contr	vans 1213 S-5H LEASE CHAIN			
	1		[					
TDACT				_				
TRACT	LEGACY LEASE	TAV BAAD		CRANTOR /LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
#1213S	NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR		NOT LESS THAN 1/8	33	431
				MARY C. BURNSIDE AND JOHN L. BURNSIDE, HER HUSBAND	A. W. WOODFORD AND GEO. E. MCGUIRE	ASSIGNMENT	33	515
				A. W. WOODFORD	J. M. GUFFEY AND J. H. GALEY	ASSIGNMENT	44	583
				J. M. GUFFEY AND J. H. GALEY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	125	379
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	THE PITTSBURGH AND WEST VIRGINIA GAS COMPANY THE PITTSBURGH AND WEST VIRGINIA GAS COMPANY	DEED	125	371
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA		DEED	216	185
				THE PITTSBURGH AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY HOPE NATURAL GAS COMPANY	ASSIGNMENT	246	192
				EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SOFFET CONFORMATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS SUPPLY CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
			Q100759000	CONSOLIDATED GAS TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
4	FK052229	03-005C-0043-0000	053436		CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
		03-006C-0004-0000	053307	DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
					CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				NOBLE ENERGY, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	BOWINION ENERGY INVITORIOSICITY INC.	SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.		THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				L.E. GALL AND HENRIETTA GALL, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	77
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	127
				HOPE NATURAL GAS COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79	370
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	MERGER/NAME CHANGE	155	202
				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	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
		03-006C-0008-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
7	FK053159	03-006C-0008-0003		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
		03-005C-0009-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
i i						SECOND AMENDMENT TO MEMORANDUM OF		
i i				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
						AMENDED AND RESTATED PARTIAL ASSIGNMENT		
			1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	(32%)	723	527
						THE WAR AN ACTION ACTIVE TO MACH AND		

#### 1213S LEASE CHAIN 5H THRU 8H REV 2.18.2021

DOMINION ENERGY TRANSMISSION, INC.

DOMINION ENERGY TRANSMISSION, INC.

M. J. HALL AND M. J. HALL, HIS WIFE

HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC

SOUTH PENN OIL COMPANY

FARMOUT AGREEMENT

ASSIGNMENT (68%)

NOT LESS THAN 1/8

THIRD AMENDMENT TO MEMORANDUM OF

734 736

42

558 220

92

				RECEIVED fice of Oil and G EB 2 4 202 V Department o onmental Protec				
I				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	127
				HOPE NATURAL GAS COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79	370
					HOPE NATURAL GAS COMPANY	MERGER/NAME CHANGE	155	202
				RESERVE GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS STATISTICS OF CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS SUPPLY CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
					DOMINION TRANSMISSION, INC.	ASSIGNMENT	641	533
				DOMINION TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.	ASSIGNMENT	651	137
-			0101141000	DOMINION EXPLORATION & PRODUCTION INC	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
8	FK053168	03-006D-0003-0000	Q101141000	DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
			I	CNX GAS COMPANY LLC	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
			i i	DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
					HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
					DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
			Í.	DOMINION TRANSMISSION, INC.		SECOND AMENDMENT TO MEMORANDUM OF		
					HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.		THIRD AMENDMENT TO MEMORANDUM OF		
				DOM ANNON ENERGY TRANSMISSION INC	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				FRANKLIN MCKINLEY AND G. R. MCKINLEY, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	39	371
			l		HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	127
				SOUTH PENN OIL COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SOFTED CONTONICATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS SUPPLY CORPORATION	CNG DEVELOPMENT COMPANY	ASSIGNMENT	450	154
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG PRODUCING COMPANY	MERGER/NAME CHANGE	WVSOS	
24	131336000	p/o 03-006D-0005-0000	CNX131336000	CNG DEVELOPMENT COMPANY	DOMINION EXPLORATION & PRODUCTION INC.	MERGER/NAME CHANGE	WVSOS	
		03-006D-0005-0002	l		DOMINION TRANSMISSION, INC.	ASSIGNMENT	651	137
			1	DOMINION EXPLORATION & PRODUCTION INC	DOMINION TRANSMISSION	ASSIGNMENT	651	225
			1	DOMINION APPALACHIAN DEVELOPMENT LLC	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	318
			1	CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	WVSOS	
			1	CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	766	352
				J. E. NORRIS AND MARY T. NORRIS, HIS WIFE	SOUTHERN OIL CO	NOT LESS THAN 1/8	40	91
			1					
			1	T. N, BARNSDALL, THE SOUTHERN OIL COMPANY, AND FRED S. RICH	RESERVE GAS COMPANY	ASSIGNMENT	85	106
			1	RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	MERGER/NAME CHANGE	155	202
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
			l	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
		03-006D-0006-0000	1	CONSOLIDATED GAS SOLVED CONTONATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
12		03-006D-0007-0000	CNX053102	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
12		p/o 03-006D-0020-0000	CINVODITOR	DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION INC.	ASSIGNMENT	620	139
		p/0 05-0000 0020 0000	1	DOMINION EXPLORATION & PRODUCTION INC	DOMINION TRANSMISSION, INC.	ASSIGNMENT	651	137
			1	DOMINION TRANSMISSION, INC.	CONSOL ENERGY HOLDING LLC XVI	ASSIGNMENT	651	318
				CONSOL ENERGY HOLDINGS LLC XVI	CNX GAS COMPANY	MERGER/NAME CHANGE	9	471
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	659	521
			1	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				J. W. KEMPER SR. AND H. S. KEMPER, HIS WIFE	RESERVE GAS COMPANY	NOT LESS THAN 1/8	68	268
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	MERGER/NAME CHANGE	155	202
	r			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
I	I	1						

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				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
		03-006D-0011-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
13	131353000	03-006D-0012-0000	CNX131353000	DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION INC.	CONFIRMATORY ASSIGNMENT	620	139
15	191999000	03-006D-0017-0000	0111202000000	DOMINION EXPLORATION & PRODUCTION INC	DOMINION TRANSMISSION, INC.	ASSIGNMENT	651	137
		03-006D-0017-0001		DOMINION APPALACHIAN DEVELOPMENT LLC	DOMINION TRANSMISSION, INC.	ASSIGNMENT	651	225
				DOMINION TRANSMISSION, INC.	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	318
				CONSOL ENERGY HOLDINGS LLC XVI	CONSOL GAS COMPANY	MERGER/NAME CHANGE	9	471
				CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9	471
				CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	766	352



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

January 27, 2021

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

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WV Deparatient of Environmental Proceedings

RE: Drilling Under Roads – Evans 1213 S-5H Freemans Creek District, Lewis County West Virginia

Dear Ms. Kees:

HG Energy II Appalachia, LLC, is submitting the attached application for a new well work permit for the Evans 1213 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 Evans 1213 laterals will drill through including any and all roads crossed under as identified on the attached survey plat.

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

Very truly yours,

Diane White

Diane C. White

Enclosures

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

Date of Notice Certification: 01/27/2021

API No. 47-	7
<b>Operator's Well No</b>	). Evans 1213 S-5H
	Evans Well Pad

#### Notice has been given:

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

State:	West Virginia	Easting:	541928.5
County:	Lewis	UTM NAD 83 Northing:	4329713.2
District:	Freemans Creek	Public Road Access:	Mare Run Road / CR 109
Quadrangle:	-Big Isaac WV 7.5's Camden	Generally used farm name:	Evans
Watershed:	Middle West Fork Creek		

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
□ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SURVEY WAS CONDUCTED	RECEIVED
■ 3. NOTICE OF INTENT TO DRILL or □ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	□ RECEIVED/ NOT REQUIRED
WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION	□ RECEIVED
5. PUBLIC NOTICE	RECEIVED
6. NOTICE OF APPLICATION	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.

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#### 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 Whit	te	Parkersburg, WV 26101
Its:	Agent	Facsimile:	304-863-3172
Telephone:	304-420-1119	Email:	dwhite@hgenergyllc.com
	NOTARY SEAL OFFICIAL SEAL NOTARY PUBLIC. STATE OF WEST VIRGINIA MARK J SCHALL H G Emergy LLC	Subscribed and swe	Notary Public

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

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

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WV Department of Baymonmunical Proceedion



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

February 11, 2021

Suzanne & James Evans 1064 38<sup>th</sup> Street Parkersburg, WV 26104

RE: Evans 1213 N-2H thru S-8H Well Work Permit Application - Notification Freemans Creek District, Lewis County West Virginia

Dear Mr. and Mrs. Evans:

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 or email at <u>dwhite@hgenergyllc.com</u>.

Very truly yours,

Diane White

Diane C. White

Enclosures

RECEIVED Office of Oil and Gas

FEB 2 4 2021

WV Department o/ Environmental Protection 05/07/2021 WW-6A (9-13)

OPERATOR WE	GLL NO. Evans 1213 N2H-
Well Pad Name:	Evans 1213

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

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

Date of Notice: 02/11/21 Date Permit Application File	d: 02/21/2021	
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$\checkmark$	PERMIT FOR ANY	CERTIFICATE OF APPROVAL FOR THE
	WELL WORK	CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

	PERSONAL	□ REGISTERED	METHOD OF DELIVERY THAT REQUIRES A	4
	SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION	Ĩ.

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

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

☑ SURFACE OWNER(s)	COAL OWNER OR LESSEE	
Name: Suzanne & James Evans (pad, road, water)	Name: NA	
Address: 1064 38th Street	Address:	
Parkersburg, WV 26104		
Name:	COAL OPERATOR	
Address:	Name: NA	
	Address:	
□ SURFACE OWNER(s) (Road and/or Other Disturb	Dance)	
Name:	□ SURFACE OWNER OF WATER WELL	
Address:	AND/OR WATER PURVEYOR(s)	
	Name:	
Name:	Address:	
Address:		
	OPERATOR OF ANY NATURAL GAS STOR	AGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name: Dominion Energy Transmission - Attric Ronald Waldren	
Name:	Address: 925 White Oaks Blvd	NECEWEL
Address:	Bridgeport, WV 26330	Dhice of Silion
	*Please attach additional forms if necessary	FEB 9 a VICA

API NO. 47-OPERATOR WELL NO. Evans 1213 N2H-S8H Well Pad Name: Evans 1213

#### Notice is hereby given:

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

#### This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil2ECEIVED</u> and gas/pages/default.aspx.

#### Well Location Restrictions

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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 Francesco 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)

OPERATOR WELL NO. Evans 1213 N2H -S8H Well Pad Name: Evans 1213

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 RECEIVEL 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

FEB 2 4 2021

WV Department or Environmental Protection

05/07/2021

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. Evans 1213 N2H-S8H Well Pad Name: Evans 1213

## Time Limits and Methods for Filing Comments.

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

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

#### **Comment Requirements**

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

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

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

#### Permit Denial or Condition

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

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

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

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

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FEB 8 \$ 7077

 WW-6A (8-13) API NO. 47-\_\_\_\_ OPERATOR WELL NO. Evans 1213 N2H-S8H Well Pad Name: Evans 1213

### Notice is hereby given by:

Well Operator:	HG Energy II Appalachia, LLC	A
Telephone:	304-420-1119	
Email:	dwhite@hgenergyllc.com	F

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 <u>depprivacyofficer@wv.gov</u>.

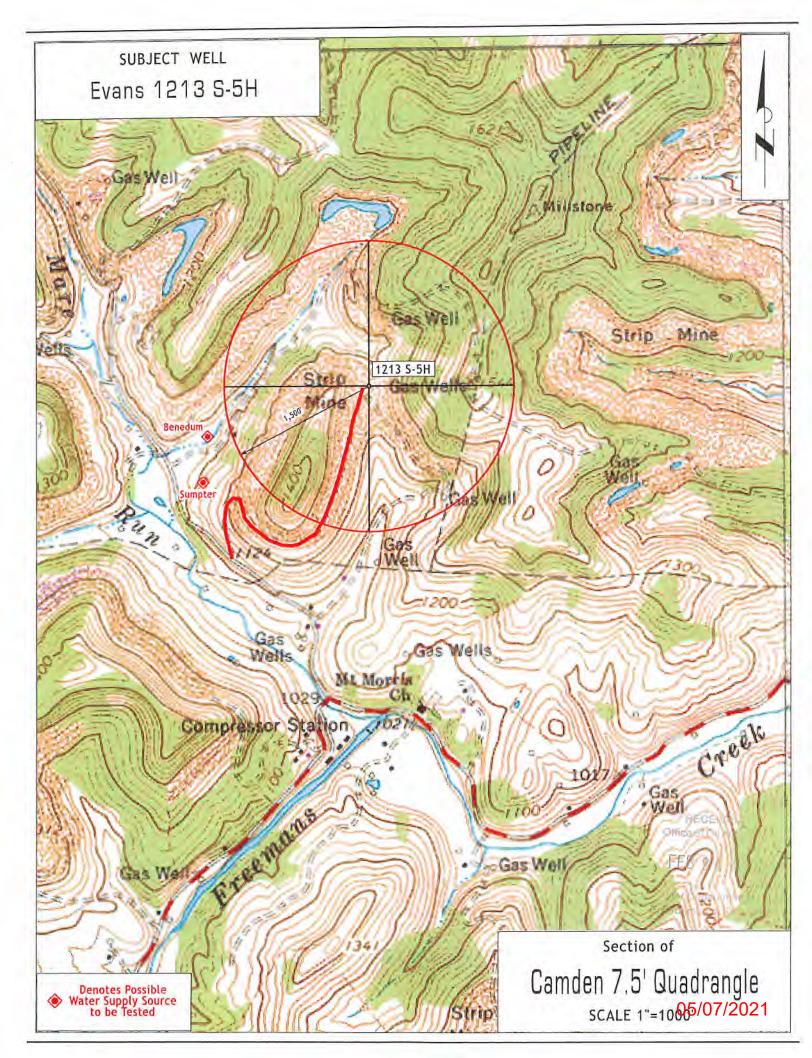
(2 3 B	OFFICIAL SEAL
	STATE OF WEST VIRGINIA NOTARY PUBLIC
( ) ) ·	CASSIDY A. BOARDMAN
Sector Sector	5301 13th Ave Vienna MAV 26105
	My Commission Expires July 31, 2022

Subscribed and sworn before me this <u>11th</u> day of <u>February</u>	,2021 .
Covoridy Beal	Notary Public
My Commission Expires 7/3(2022	

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FEB 2 4 2021

WV Department of Environmental Protection 05/07/2021



# **Diane White**

From: Sent: To: Subject: Diane White Wednesday, September 2, 2020 4:14 PM Vicki Hoops Water Sampling/Testing for the Evans 1213 Well Pad

Vicki,

There is one surface owner for the 1213 well pad and access road. They have three water sources they would like tested. I'm assuming you'll have to call for an appointment so they can identify the water sources they want tested. See below for information.

Suzanne and James Evans 1064 38<sup>th</sup> Street Parkersburg, WV 26104 Parcel 21-3-6c-4 304-482-7452 (Dale Evans)

Thanks, Diane

Diane C. White



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

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FEB 2 4 2021

WV Department of Environmental Protection 05/07/2021

Evans 12.13



VICTORIA L. HOOPS, PRESIDENT

10-20-20 1400

COMPANY: H.G. ENERGY, LLC.

DATE/TIME SAMPLED: 10-20-20 1430

SAMPLE ID: EVANS WELL #1

SAMPLED BY: L. GARLITZ

LABORATORY ID: HGE 201020-1

DATE/TIME RECEIVED:

PARAN	4ETER	TEST RESULTS	UNITS	METHOD	METHOD DETECTION LIMIT	MINIMUM REPORTING LIMIT	DATE/TIME ANALYZED	ANALYST
FIELD	н	7.4	units		1		10-20-20 1430	LG
FIELD 7	ГЕМР	15.8	۳C		1		10-20-20 1430	LG
FIELD C	COND	485	µmhos				10-20-20 1430	LG
pH	0	6.8	units	SM 22nd 4500 H B	.1	210.	10-21-20 1117	HN
Fe		5.11	mg L	EPA 200.7 Rev 4.4-1994	.05	.25	10-22-20 1523	DB
TDS		267	mg L	USGS I-1750-85	4	4	10-21-20 2241	EK
Cl		5,70	mg/L	EPA 300.0 Rev 2.1-1993	1.0	1.0	10-22-20 2244	DC
MBAS		U	mg L	SM22 <sup>nd</sup> 5540C	.02	.04	10-21-20 2126	SW
					•			

\*Client Provided

\*\*See Attached. The following results meet or exceed requirements and standards set forth by the certifying authority except where noted. Data Qualifiers

B Analyte found in reagent blank. Indicates possible reagent or background contamination.

E Estimated Reported value exceeded calibration range.

J Reported value is an estimate because concentration is less than reporting limit.

PND Precision not determined.

R Sample results rejected because of gross deficiencies in QC or method performance. Re-sampling and or re-analysis is necessary

RND Recovery not determined.

U Compound was analyzed for, but not detected.

O Out of holding. Time does not meet 40 CFR 136/141 compliance.

T This result is not supported by our certification ID.

A Does not meet 40 CFR 136/141 compliance.

C Does not meet 47 CSR 32 compliance.

Narrative:

WV Department of oojha 14 Protection Approved

Office of Oil and Gan

FEB 2 4 2021



VICTORIA L. HOOPS, PRESIDENT

COMPANY: H.G. ENERGY, LLC.

EVANS WELL #2 SAMPLE ID:

DATE/TIME SAMPLED: 10-20-20 1445 DATE TIME RECEIVED: 10-20-20 1400

SAMPLED BY: L. GARLITZ

HGE 201020-2 LABORATORY ID:

PARAMETER	RESULTS		METHOD	METHOD DETECTION LIMIT	MINIMUM REPORTING LIMIT	DATE/TIME ANALYZED	ANALYST
FIELD pH	7.5	units				10-20-20 1445	LG
FIELD TEMP	15.5	°C				10-20-20 1445	LG
FIELD COND	628	μmhos				10-20-20 1445	LG
pH O	7.0	units	SM 22nd 4500 H B	.1	210.	10-21-20 1117	HN
Fe	.39	mg/L	EPA 200.7 Rev 4.4-1994	.05	.25	10-22-20 1523	DB
TDS	353	mg L	USGS 1-1750-85	4	4	10-21-20 2241	EK
Cl-	4.20	mg/L	EPA 300.0 Rev 2.1-1993	1.0	1.0	10-22-20 2244	DC
MBAS	U	mg L	SM22 <sup>nd</sup> 5540C	.02	.04	10-21-20 2126	SW
******						1	

\*Client Provided

\*\*See Attached. The following results meet or exceed requirements and standards set forth by the certifying authority except where noted. Data Qualifiers

Analyte found in reagent blank. Indicates possible reagent or background contamination. В

Estimated Reported value exceeded calibration range. E

Reported value is an estimate because concentration is less than reporting limit. J

PND Precision not determined.

Sample results rejected because of gross deficiencies in QC or method performance. Re-sampling and or re-analysis is necessary. R

RND Recovery not determined.

Compound was analyzed for, but not detected. U

Out of holding. Time does not meet 40 CFR 136 141 compliance. 0

Т This result is not supported by our certification ID.

Does not meet 40 CFR 136-141 compliance. A

C Does not meet 47 CSR 32 compliance.

Narrative:

Approved

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FEB 2 4 2021

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Environmental Protection



VICTORIA L. HOOPS, PRESIDENT

COMPANY: H.G. ENERGY, LLC.

HAUGHT

DATE TIME SAMPLED: 10-20-20 1250 DATE TIME RECEIVED: 10-20-20 1400

SAMPLED BY: L. GARLITZ

SAMPLE ID:

LABORATORY ID: HGE 201020-3

PARAMETER	TEST RESULTS	UNITS	METHOD	METHOD DETECTION LIMIT	MINIMUM REPORTING LIMIT	DATE/TIME ANALYZED	ANALYST
FIELD pH	7.1	units	1			10-20-20 1250	LG
FIELD TEMP	16.2	۳C				10-20-20 1250	LG
FIELD COND	449	μmhos				10-20-20 1250	LG
рН О	7.1	units	SM 22nd 4500 H B	.1	210.	10-21-20 1117	HN
Fe	U	mg/L	EPA 200.7 Rev 4.4-1994	.05	.25	10-22-20 1523	DB
TDS	252	mg/L	USGS 1-1750-85	4	4	10-21-20 2241	EK
Cl-	14.1	mg/L	EPA 300.0 Rev 2.1-1993	1.0	1.0	10-22-20 2244	DC
MBAS	U	mg. L	SM22 <sup>nd</sup> 5540C	.02	.04	10-21-20 2126	SW

\*Client Provided

\*\*See Attached. The following results meet or exceed requirements and standards set forth by the certifying authority except where noted. Data Qualifiers

Analyte found in reagent blank. Indicates possible reagent or background contamination. В

Estimated Reported value exceeded calibration range. E

Reported value is an estimate because concentration is less than reporting limit. J

PND Precision not determined.

Sample results rejected because of gross deficiencies in QC or method performance. Re-sampling and or re-analysis is necessarys of On and Gass R RND Recovery not determined.

Compound was analyzed for, but not detected. U

Out of holding. Time does not meet 40 CFR 136 141 compliance. 0

This result is not supported by our certification ID. T

Does not meet 40 CFR 136/141 compliance. A

C Does not meet 47 CSR 32 compliance.

Narrative:

Approved

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Evans (w-1)	-		1	· · · · ·	10/20/20	230 pm	x		4		4				_	X	-						3	7.4	-	485		-	15.8
Evans (w-2)		1		-	10/20/20	245 pm				_					-	11		+			_		3	7.5		628		-	15.5
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## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 02/10/2021 Date Permit Application Filed: 02/20/2021

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

HAND	CERTIFIED MAIL
DELIVERY	RETURN RECEIPT REQUESTED

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

#### Notice is hereby provided to the SURFACE OWNER(s):

Name:	Suzanne & James Evans	Name:
Address:	1064 38th Street	Address:
0.000.000	Parkersburg, WV 26104	

#### Notice is hereby given:

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

State:	West Virginia	LITE ANIAD 02	Easting:	541933.0	
County:	Lewis	UTM NAD 83	Northing:	4329720.8	
District:	Freemans Creek	Public Road Ace	cess:	Mare Run Road/CR 10/9	
Quadrangle:	Big-Isaee WV 7.5' Camden	Generally used t	farm name:	Evans	
Watershed:	Middle West Fork Creek				

#### This Notice Shall Include:

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

#### Notice is hereby given by:

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

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

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





WW-6A5 (1/12) Operator Well No. Evans 1213 N2H - SBH

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

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

 Date of Notice:
 02/11/2021

 Date Permit Application Filed:
 02/21/2021

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

Ħ	CERTIFIED MAIL	HAND
	RETURN RECEIPT REQUESTED	DELIVERY

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

#### Notice is hereby provided to the SURFACE OWNER(s)

(at the ad	dress listed in the records of the sheriff	at the time of notice):	
Name:	Suzanne & James Evans	Name:	
Address:	1064 38th Street	/ Address:	
	Parkersburg, WV 26104	- /	

#### Notice is hereby given:

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

State:	West Virginia	UTM NAD 83	Easting:	541933.0	
County:	Lewis	UTMINAD 83	Northing:	4329720.8	
District:	Freemans Creek	Public Road Acc	ess:	Mare Run Road / CR 10/9	
Quadrangle:	Big-Isaac WV 7.5' Canden	Generally used fa	arm name:	Evans	
Watershed:	Middle West Fork Creek				

#### This Notice Shall Include:

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

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

#### Oil and Gas Privacy Notice:

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

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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

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

October 2, 2020

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

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

Subject: DOH Permit for the Evans 1213 Pad, Lewis County Evans 1213 S-5H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #07-2020-0314 which has been issued to HG Energy II Appalachia, LLC for access to the State Road for a well site located off Lewis County Route 10/9 SLS MP 0.38.

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

Very Truly Yours,

Dary K. Clayton

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

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W/ Department of Environmental Protection 05/07/2021

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

HG Energy II Appalachia, LLC			
List of Frac Additives by Chemical Name and CAS #			
Evans 1213 Well Pad (N-1H to N-4H, S-5H to S-8H)			

Chemical Name	CAS #	Multiple CAS #'s
Pro Shale Slik 405	Mixture	68551-12-2
		7647-14-5
		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
		68607-28-3
		107-21-1
		111-76-2
		67-56-1
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
		1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
PROGEL - 4.5	04/42-90-7	
BIO CLEAR 2000	Mixture	25322-68-3
	IVIIXture	10222-01-2
		10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
		107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	

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WV Department of Environmental Protection 05/07/2021

