

west virginia department of environmental protection

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

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

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

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Permit approval for EVANS 1213 S-7H Re:

47-041-05723-00-00

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

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

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

James A. Martin

Chief

Operator's Well Number: EVANS 1213 S-7H

Farm Name: JAMES M. & SUZANNE L. EY

Horizontal 6A New Drill

U.S. WELL NUMBER: 47-041-05723-00-00

Date Issued: 5/3/2021

API Number:	

PERMIT CONDITIONS

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

CONDITION	18
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- 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.

API NO. 47-04/ - 05723 OPERATOR WELL NO. Evans 1213 S-7H Well Pad Name: Evans 1213

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

1) Well Operato	or: HG Ene	rgy II Appa	lachia, L	4945	19932	Lewis	Freeman	Camden 7.5'
					ator ID	County	District	Quadrangle
2) Operator's W	Vell Number:	Evans 12	13 S-7H		_ Well Pac	Name: Eva	ans 1213	
3) Farm Name/	Surface Own	er: James 8	Suzanne	Evans	Public Roa	d Access: N	/are Run Rd	at CR 10/9
4) Elevation, cu	irrent ground	: 1233'	Ele	evation	, proposed	post-construc	ction: 1227'	
5) Well Type	(a) Gas 2	(_ Oil		Unde	erground Stor	rage	
	(b)If Gas	Shallow Horizontal	x		Deep			
6) Existing Pad	: Yes or No	No			7			
7) Proposed Tar Marcellus at 0	rget Formatio 6709'/6791' a		2.00	•			Pressure(s):	
8) Proposed To	tal Vertical I	Depth: 676	60'					
9) Formation at	Total Vertic	al Depth:	Marcellus	S				
10) Proposed T	otal Measure	d Depth:	17,997'					
11) Proposed H	orizontal Leg	g Length:	10,187'					
12) Approxima	te Fresh Wat	er Strata De	pths:	60', 1	36', 151', 2	200'		
13) Method to I 14) Approxima			-		t offset we	ll data, (47-0)41-01847, 17	786, 1233)
15) Approxima	te Coal Seam	Depths: 22	0', 445', 650'	,800', 805	' (Surface casi	ng is being extend	ded to cover the co	al in the DTI Storage Field)
16) Approxima	te Depth to P	ossible Voi	d (coal mi	ne, kar	st, other):	None		
17) Does Propo directly overlyi					'es	N	4o X	
(a) If Yes, pro	vide Mine In	fo: Name:						
		Depth						
		Seam:	-					
		Owner	:					

API NO. 47- 041 - 05723

OPERATOR WELL NO. Evans 1213 S-7H

Well Pad Name: Evans 1213

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120'	Drilled In
Fresh Water/Coal	20"	NEW	J-55	94	1100'	1100'	CTS
Intermediate 1	13 3/8"	NEW	J-55 BTC	68	2100'	2100'	CTS
Intermediate 2	9 5/8"	NEW	J-55 BTC	40	2900'	2900'	CTS
Production	5 1/2"	NEW	P-110 HP	23	17997'	17997'	CTS
Tubing			11 14 1				
Liners							

B.S 1-26-21

ТҮРЕ	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	26"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate 1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Lead 40% excess, Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Load 40% excess, Tail 0% Excess Les
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% excess yield = 1,19, fail yield 1,34.0
Tubing							
Liners							

PACKERS

Kind:	
Sizes:	RECEIVED Office of Oil and G
Depths Set:	FEB 2 4 702

WV Department of Environmental Protection WW-6B (10/14) APINO. 47- 041 - 05723

OPERATOR WELL NO. Evans 1213 S-7H

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 10,188' lateral length, 17,997' 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 contraltens will be used with conductor casing, Freshwater/Coal, -chantizated every Joinst to surface. Intermediate 1 - Bow Spring on Revay Joinst, will also be nunning ACP for isolating storage zone Intermediate 2 - 80w Spring on River Iz Joinst then every third Joint to 100° from surface. Production - Run 1 spiral centralizer every 5 joints 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 of the curve.

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

Conductor -N/A, Casing to be drilled in wi Dual Rotary Rig.
Fresh Water/Coal - 15.6 ppg PNE-1 + 3 bworc CaCl, 40% Excess Yield = 1.20, CTS
Intermediate 1 - Load: 15.4 ppg PNE-1 + 2.5% bwoc CaCl, 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS
Intermediate 2 - Load: 15.4 ppg PNE-1 + 2.5% bwoc CaCl, 40% Excess, Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl, zero% Excess. CTS
Intermediate 2 - Load: 15.4 ppg PNE-1 + 2.5% bwoc CaCl, 40% Excess, Tail: 15.9 ppg, PNE-1 + 2.5% bwoc CaCl, zero% Excess, CTS
Intermediate 2 - Load: 15.4 ppg PNE-1 + 2.5% bwoc CaCl, 40% Excess, Tail: 15.9 ppg, PNE-1 + 2.5% bwoc CaCl, zero% Excess, Load Yield=1.94, CTS
Production - Load: 15.4 ppg PNE-1 + 0.35% bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess, Lead Yield=1.19, Tail Yield=1.94, CTS

25) Proposed borehole conditioning procedures:

Fresh Water/Coal - Onco casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.

Intermediate 1 - Onco casing is a setting depth, circulate and condition at 1TD. Circulate a minimum of one hole volume prior to pumping cement.

Intermediate 2 - Once casing is at setting depth, Circulate and condition must at TD. Circulate a minimum of one hole volume prior to pumping cement.

Production - Once on bottom/TD with casing, circulate at max allowable pump rate for at least 22 bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.

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WV Department of Environmental Protection

*Note: Attach additional sheets as needed.

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

aterial Name	Material Type	Material Description	CAS#		-
			Ingredient name	%	CAS number
		portland cement with	Portland cement	90 - 100 1 - 5	65997-15-1 1305-78-8
		early compressive	Calcium oxide Magnesium oxide	1-5	1309-48-4
		strength properties.	Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7
emium NE-1	Portland Cement				
		Commonly called gel, it is	Land Hart many	%	CAS number
		a clay material used as a	Ingredient name	90 - 100	1302-78-9
		cement extender and to	bentonite Crystalline silica: Quartz (SiO2)	5-10	14808-60-7
		control excessive free	Crystalling only. God a (c.e.)		
	ATT-915	water.			
ntonite	Extender				
		A powdered, flaked or	and the second	%	CAS number
		pelletized material used	Ingredient name	90 - 100	10043-52-4
		to decrease thickening	Calcium chloride	30 - 100	10040 00 1
		time and increase the rate			
	1.00	of strength development			
ium Chloride	Accelerator				
		Graded (3/8 to 3/4 inch)	Ingredient name	9/6	CAS number
		cellophane flakes used as	No hazardous ingredient		
		a lost circulation material.	The second secon	4	
Flake	Lost Circulation				
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in			
		cementing operations. It	Ingredient name	%	CAS number
		is very effective	Tributyl phosphate	90 - 100	126-73-8
		minimizing air			
		entrapment and			
		preventing foaming			
		tendencies of latex			
		systems.			
13L	Foam Preventer				
			Ingredient name	%	CAS number
		Used to retard cement	Sucrose	90 - 100	57-50-1
anulated Sugar	Retarder	returns at surface.	3,000		
		A proprietary product			
-		that provides expansive			
		properties and improves		la.	010
		bonding at low to	Ingredient name	% 90 - 100	37247-91-9
		moderate	Calcium magnesium oxide	90 - 100	3/24/-91-9
		temperatures.			
1		Multi-purpose polymer			
		additive used to control	F	%	CAS number
		free fluid, fluid loss,	Ingredient name	76	CAS number
		rheology, and gas	No hazardous ingredient		
A-170	Gas Migration	migration.			
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		A synthetic pozzolan,			
		(primarily Silicon Dioxide).		Office of Oll and Gas	
		When blended with			
		cement, Pozzolan can be	Ingredient name	FEB 2 4 2021	CAS number
		used to create	Crystalline silica: Quartz (SiO2)	5-10	14808-60-7
		lightweight cement	Calcium oxide	1-5	1305-78-8
		slurries used as either a filler slurry or a sulfate		WY Daparment of	
		resistant completion	E	nvironmental Protection	
		cement.			
(Fly Ash)	Base	(3200)			
1 do 5 d	4.4				
		A low temperature			
		retarder used in a wide	Ingredient name	%	CAS number
		range of slurry	Organic acid salt	40 - 50	Trade secret.
		formulations to extend	100		
	2	the slurry thickening time.			
	Retarder				
			Ingredient name	%	CAS number
			2-Butoxyethanol	20 - 30	111-76-2
			Proprietary surfactant	10 - 20	Trade secret.
		Used to water wet casing	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	5-10	110615-47-9
		and formation to facilitate	Alkylarylsulfonate amine salt Polyoxyalkylenes	1-5 0.1-1	Trade secret.
5	Surfactant	cement bonding.	- adendendame	Jan 1	05/07/2 0
	Surrectant				00/01/20

ENERGY				VED					1213 : Marcellus Sha Lewis Co	ile Horizontal unty, WV			
				, u	5 67	51213 S	S-7H SH	L,	14	205067.26N 17780	06.97E		
Ground E	evation		1227.0	3' °	Fires - EE	₫ 1213	S-7H LF		14	4205358.85N 17801	140.5E		
Azr	n		160.53	9°	-17	£1213 S	5-7H BH	L	14	195757.22N 17835	33.35E		
WELLBORE	DIAGRAM	HOLE	CASING	GEOLOGY	ТОР	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS		
		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" thickness		
	×			Fresh Water	0	214, 600, 861		45.0 mm BNE 4 + 000		Once casing is at setting			
		26"	20"	Kittaning Coal	800	805	AIR	15.6 ppg PNE-1 + 3% bwoc CaCl 40% Excess	Centralized every 3 joints to surface	depth, circulate a minimum of one hole volume with	Surface casing = 0.438 thickness		
	×		94# J-55	Fresh Water Protection	0	1100	4	Yield=1,20 / CTS	joints to surface	Fresh Water prior to pumping cement.	Burst=2110 psi		
				Little Lime	1474	1494		Lead: 15,4 ppg PNE-1 +	joint	Bow Spring on every	Bow Spring on every	Once casing is at setting	
		10.500	13-3/8" 68#	Big Lime	1524	1594	AIR / KCL	2.5% bwoc CaCl 40% Excess / Tail: 15.9		depth, Circulate and condition at TD. Circulate a minimum of one hole	Intermediate casing = 0		
x	x	17.5"	J-55 BTC	Injun / Gantz (Storage)	1594 / 1866	1692 / 1926	Salt Polymer	ppg PNE-1 + 2.5% bwoc			wall thickness Burst=3450 psi		
				Intermediate 1	0	2100	, ag.iisi	CaCl zero% Excess. CTS	storage zone*	volume prior to pumping cement.	Balet 9455 per		
×	×			Fifty / Thirty Foot	1978 / 2075	1998 / 2102		Lead: 15,4 ppg PNE-1 +	Bow Spring on first 2 joints then every third	Once casing is at setting	Intermediate casing = 0.39 wall thickness Burst=3950 psi		
				Gordon Stray / Gordon	2120 / 2156	2154 / 2232	AIR / KCL	2.5% bwoc CaCl		depth, Circulate and			
		12.25"	9-5/8" 40# J-55 BTC	5th Sand	2369	2409	Salt	40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc		oint to 100' form Circulate a minimum of one surface hole volume prior to			
×	x		0.00.010	Bayard / Warren	2449 / 2771	2479 / 2796	Polymer	CaCl					
				Intermediate 2	0	2900	1 4 1	zero% Excess, CTS		pumping cement.			
×	×			Speechley	3076	3096			Run 1 spiral centralizer				
110		8.75" Vertical		Balltown	3286	3346	AIR /	150, 5, 574	every 5 joints from the				
		a./a vetucar		Benson	4386	4411	9.0ppg SOBM	<u>Lead</u> : 14.5 ppg POZ:PNE-1 + 0.3%	top of the curve to surface.				
				Rhinestreet	6009	6279		bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk		Once on bottom/TD with			
	0.1			Cashaqua	6279	6379		FP13L + 0.3% bwoc MPA170		casing, circulate at max allowable pump rate for at	Production casing = 0.		
, , , , , , , , , , , , , , , , , , ,			5-1/2"	Middlesex	6379	6411		Tail: 14.8 ppg PNE-1 +		least 2x bottoms up, or until	wall thickness		
^		8.5" Curve	23# P-110 HP	West River	6411	6482	11.5ppg- 12.5ppg	0.35% bwoc R3 + 0.75 gal/sk FP13L + 50%		returns and pump pressures indicate the hole	Burst=16240 psi Note:Actual centraliz		
		o.u ouive	CDC HTQ	Burkett	6482	6492	SOBM	bwoc ASCA1 + 0.5%	Run 1 spiral centralizer	is clean. Circulate a	schedules may be cha		
			15 17	Tully Limestone	6492	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 condition		
				Hamilton	6600	6753	1.	Lead Yield=1,19 Tail Yield=1,94 CTS	top of the curve.	cement.			
				Marcellus	6709	6791							
		8.5" Lateral		TMD / TVD (Production)	17997	6760	11.5ppg- 12.5ppg						
X	x		-	Onondaga	6791		SOBM						
		X	X	X	X		Х	X	X	X	X		

X

X

X

X

X

X

X

X

X=centralizers



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1213 S-7H Marcellus Shale Horizontal Lewis County, WV

						1213 5	-7H SH	EB G	14	205067.26N 17780	06.97E	
Custimal	-levetien		1227.6	NI.			S-7H LF	1		205358.85N 17801		
Ground I	(3,000,000,000,000,000,000,000,000,000,0							100	14195757.22N 1783533.35E			
Az			160.53		- 7.0		-7H BH				COMMENTS	
WELLBOR	EDIAGRAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS	
1111	11111							TX2.72 87		Name of the Land	for one or over the	
		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	
			200	Fresh Water	Ó	214, 600, 861	15.6 ppg PINE-1 + 3	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	
×	×		5,00,00,20,	Fresh Water Protection	0	1100		Yield=1.20 / CTS		pumping cement.	Burst=2110 psi	
				Little Lime	1474	1494	577	Lead; 15.4 ppg PNE-1 + 2.5% bwoc CaCl	Bow Spring on every	Once casing is at setting depth, Circulate and		
		22.50	13-3/8" 68#	Big Lime	1524	1594	AIR / KCL	40% Excess / Tail: 15.9	joint *will also be running	condition at TD. Circulate a minimum of one hole volume prior to pumping	Intermediate casing = 0.48 wall thickness	
X	X	17.5"	J-55 BTC	Injun / Gantz (Storage)	1594 / 1866	1692 / 1926	Salt Polymer	ppg PNE-1 + 2.5% bwoc CaCl	ACP for isolating		Burst=3450 psi	
			100	Intermediate 1	0	2100		zero% Excess. CTS	storage zone*	cement.		
x	l x			Fifty / Thirty Foot	1978 / 2075	1998 / 2102		Lead: 15,4 ppg PNE-1 +		Once casing is at setting		
			A CONTRACT	Gordon Stray / Gordon	2120 / 2156	2154 / 2232	AIR / KCL	2.5% bwoc CaCl	Bow Spring on first 2	depth, Circulate and condition mud at TD.	Intermediate casing = 0.3	
	1 1	12.25"	9-5/8" 40# J-55 BTC	5th Sand	2369	2409	Salt	40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc	joints then every third joint to 100' form surface	Circulate a minimum of one hole volume prior to pumping cement.	wall thickness Burst=3950 psi	
x	×			Bayard / Warren	2449 / 2771	2479 / 2796	Polymer	CaCl				
				Intermediate 2	0	2900		zero% Excess. CTS		partiping cement.		
X	×			Speechley	3076	3096	5.000		Run 1 spiral centralizer every 5 joints from the	Run 1 spiral centralizer		
	(1)	8.75" Vertical		Balltown	3286	3346	AIR / 9.0ppg	1.00 00 11 0 000				
		O. T. VOLIDA		Benson	4386	4411	SOBM	Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc	top of the curve to surface.			
				Rhinestreet	6009	6279		EC1 + 0.75 gal/sk FP13L + 0.3% bwoc	Once on bottom/TD w			
				Cashaqua	6279	6379		MPA170		allowable pump rate for at	Production casing = 0.41	
×	x		5-1/2" 23#	Middlesex	6379	6411	11.5ppg-	Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75		least 2x bottoms up, or until returns and pump	wall thickness Burst=16240 psi	
	100	8.5" Curve	P-110 HP	West River	6411	6482	12.5ppg	gal/sk FP13L + 50%	Section 1	pressures indicate the hole	Note:Actual centralizer	
	2.3		CDC HTQ	Burkett	6482	6492	SOBM	bwoc ASCA1 + 0.5% bwoc MPA170	Run 1 spiral centralizer every 3 joints from the	is clean. Circulate a minimum of one hole	schedules may be chang- due to hole conditions	
				Tully Limestone	6492	6600		20% Excess	1st 5.5" long joint to the			
				Hamilton	6600	6753		Lead Yield=1.19 Tail Yield=1.94	top of the curve.	cement.		
1 3				Marcellus	6709	6791	11.5ppg-	CTS				
		8.5" Lateral		TMD / TVD (Production)	17997	6760	12,5ppg SOBM					
X	×	.,		Onondaga	6791				v	X	X	
		Х	Х		X		X	X	X	^		
	LP @ 670	60' TVD / 7809' MD			8.5" Hole - Cement 5-1/2" 23# P-110				+/-101	88' ft Lateral	TD @ +/-6760' TVD +/-17997' MD	
	X	X	X	X	X		X	X	X	X	X=centralizers	

API Number 47	-	41114	1	0	5	9	2	3
Operator's Well N	io Eva	ns 1213 S-7H	74		240		4.40	~

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy II Appalachia, LLC O	P 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 complete the proposed well	work? Yes 🗸 No
Will a pit be used? Yes No 🗸	
If so, please describe anticipated pit waste: NA	
Will a synthetic liner be used in the pit? Yes No V If so, w	what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number	
Reuse (at API Number TBD - At next anticipated well Off Site Disposal (Supply form WW-9 for disposal locatio	n)
Off Site Disposal (Supply form WW-9 for disposal location Other (Explain	ii)
Will closed loop system be used? If so, describe: Yes, cuttings and fluids will be collected in a closed loop	system, re-used or hauled to an approved disposal site or landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, o	
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	RECEIVEL
	Office of Grrand Gas
Additives to be used in drilling medium? Water, Soap, KCI, Barite, Base Oil, Wetting Agent	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Approved	
-If left in pit and plan to solidify what medium will be used? (cement, lime,	sawdust) NA WV Department of Environmental Protection
-Landfill or offsite name/permit number? See Attached	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill West Virginia solid waste facility. The notice shall be provided within 24 hours of rejudere it was properly disposed.	cuttings or associated waste rejected at any ection and the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GEN on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of I provisions of the permit are enforceable by law. Violations of any term or conditio law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am fa application form and all attachments thereto and that, based on my inquiry of tobtaining the information, I believe that the information is true, accurate, and compensatives for submitting false information, including the possibility of fine or imprison	Environmental Protection. I understand that the n of the general permit and/or other applicable smiliar with the information submitted on this chose individuals immediately responsible for applete. I am aware that there are significant
Company Official Signature Diane White	
Company Official (Typed Name) Diane White	
Company Official Title Agent	
Subscribed and sworn before me this 19th day of January	
My commission expires 1/31/2022	Notary Public OFFICIAL SEAL STATE OF WEST VIRG NOTARY PUBLIC

Proposed Revegetation Treat	ment: Acres Disturbed 14.36	Prevegetation pl	I
Lime	3 Tons/acre or to correct to pH	6.5	
Fertilizer type10	-20-20		
Fertilizer amount	500 _{lbs}	/acre	
Mulch_ Hay	2 Tons/ac	pre	
	Seed	Mixtures	
Te	emporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Attach: Maps(s) of road, location, pi		tion (unless engineered plans inclu-	
Attach: Maps(s) of road, location, piprovided). If water from the acreage, of the land application application of involution plan Approved by:	t and proposed area for land applica pit will be land applied, include dim on area. ved 7.5' topographic sheet.	tion (unless engineered plans inclu- nensions (L x W x D) of the pit, and	d dimensions (L x W), and area
Attach: Maps(s) of road, location, piperovided). If water from the acreage, of the land application application of involution of the land approved by: Plan Approved by: Comments: Pre-seed	t and proposed area for land applica pit will be land applied, include dim on area. ved 7.5' topographic sheet.	tion (unless engineered plans inclu- nensions (L x W x D) of the pit, and	d dimensions (L x W), and area
Attach: Maps(s) of road, location, piperovided). If water from the acreage, of the land application application of involution of the land approved by: Plan Approved by: Comments: Pre-seed	t and proposed area for land applica pit will be land applied, include dim ion area, ved 7.5' topographic sheet. mulch as soon as rea	tion (unless engineered plans inclu- nensions (L x W x D) of the pit, and	d dimensions (L x W), and area
Attach: Maps(s) of road, location, piperovided). If water from the acreage, of the land application application of involution of the land approved by: Plan Approved by: Comments: Pre-seed	t and proposed area for land applica pit will be land applied, include dim ion area, ved 7.5' topographic sheet. mulch as soon as rea	tion (unless engineered plans inclu- nensions (L x W x D) of the pit, and	regulation.
Attach: Maps(s) of road, location, piperovided). If water from the acreage, of the land application application of involution of the land approved by: Plan Approved by: Comments: Pre-seed	t and proposed area for land applica pit will be land applied, include dim ion area, ved 7.5' topographic sheet. mulch as soon as rea	tion (unless engineered plans inclu- nensions (L x W x D) of the pit, and	regulation.

Cuttings Disposal/Site Water

Cuttings -Haul off Company:

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

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

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

Disposal Locations:

Apex Environnemental, LLC Permit # 05-08438 11 County Road 78 Amsterdam, OH 43903 740-543-4389

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

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

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

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

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

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

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

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

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

FEB 2 4 2021

WV Department of Environmental Protection

05/07/2021

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 Oliffeld Services LLC PO Box 739 St. Clairsville, OH 43950

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

Disposal Locations:

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

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

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

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

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

Equipment Transport 1 Tyler Court Carlisle, PA 17015

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

Burns Drilling & Excavating 618 Crabappie Road P.O. Bos Wind Ridge, PA 15380 RECEIVED
Office of Oil and Gas

FEB 2 4 2021

WV Department of Environmental Protection

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

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

05/07/2021

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. Jany, LLC 1000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-323-6568

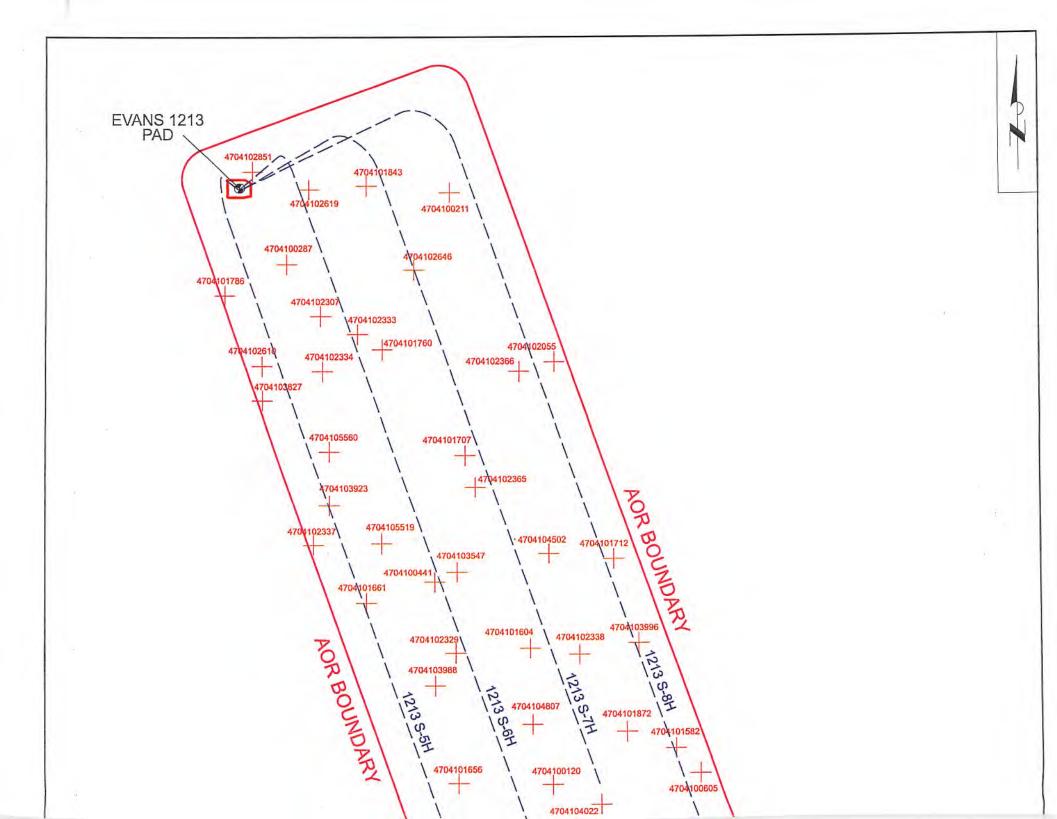
US Steele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15730 304-323-6568

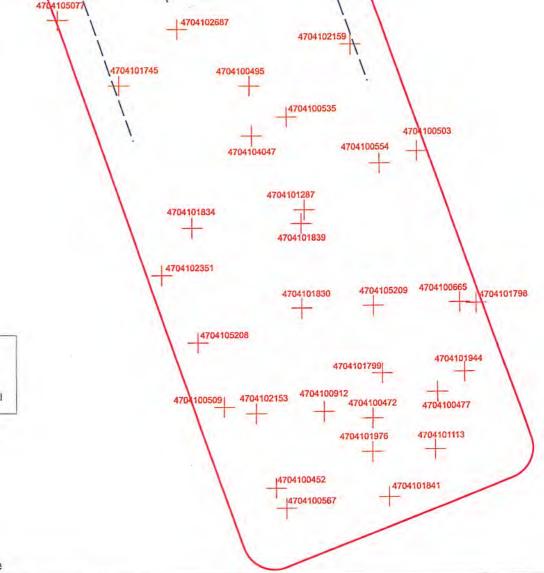
Chapin #7 UIC (SWIW #7) Permit # 34-083-2-4137-00-00 Elkhead Gas& Oil Company 12163 Marne Rd. NE Newark, OH 43055 740-763-3966

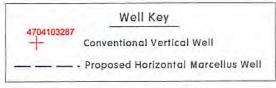
> RECEIVER Office of Oil and Gas

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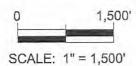
WV Department of **Environmental Protection**







See Accompanying Spreadsheets



DATA SOURCES WVGES Data Set - 2020; WVDEP Website

Area of Review for:

EVANS 1213 SOUTH UNIT

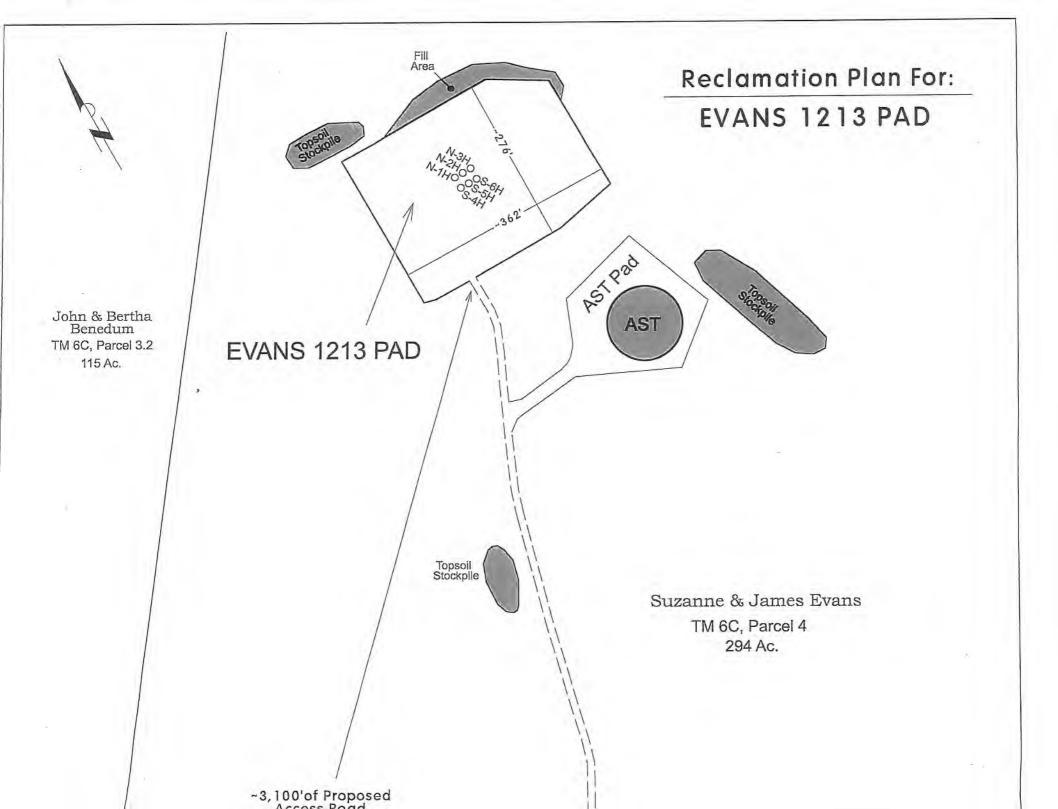
Proposed 1213 S-5H Proposed 1213 S-6H Proposed 1212 S-7H Proposed 1213 S-8H

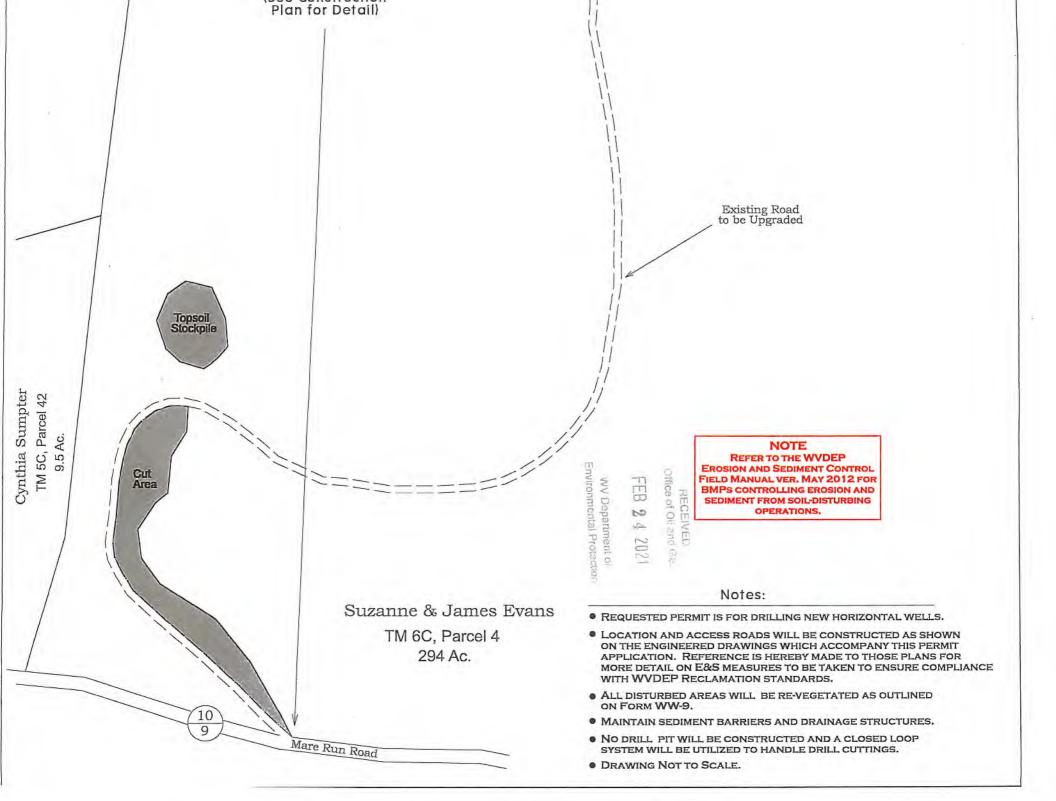
S-6H Protection S-8H RECEIVED
Office of Oil start Gau

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



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





EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

EVANS 1213 SOUTH UNIT AND PROPOSED WELLS S-5H, S-6H, S-7H & S-8H

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	R[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	Benson	Gas	4247	ACTIVE	39.075160	-80.492380
30	4704101834	Lewis	T Lee Hudkins 1	Greylock Conventional, LLC	Benson	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

(o)

OUR	CE: WVGES DAT	ASET (2020) and WVDEP WEBSITE AND	FIELD SURVEYS 4 2021	VED VED				DATED 1/26/2021	
67	4704105560	Lewis	National Timber Partners WV 2	\$ 80 S		S WELL WITH TVD > 4,50			NOTES SURVEYED	
66	4704105519	Lewis	James H Hall Trust	Dominion Energy Transmission, Inc.	Greenland Gap Fm Greenland Gap Fm	Gas Gas	4410 3518	ACTIVE	39.100372 39.104323	-80.507320 -80.510122
65	4704105209	Lewis	Charles F Sumpter	Alliance Petroleum Co. LLC	Misc Sands-BNSN/BRLR	Gas	4450	ACTIVE	39.075239	-80.48849
64	4704105208	Lewis	David Stanley McNemar	Alliance Petroleum Co. LLC	Misc Sands-BNSN/BRLR	Gas	4460	ACTIVE	39.073723	-80.49804
63	4704105077	Lewis	James R Myers	Alliance Petroleum Co. LLC	Alexander	Gas	4411	1.00	-	-80.50557
62	4704104807	Lewis	James R Myers	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	4278	ACTIVE	39.092589 39.087557	-80.49923
61	4704104502	Lewis	Scott A Carpenter	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4520	ACTIVE	39,099886	-80,4982
60	4704104047	Lewis	Thorne Cayton	Enervest Operating, LLC	Greenland Gap Fm	Gas	4353	ACTIVE	39,082554	-80.49504
59	4704104022	Lewis	Thorne E Cayton	Enervest Operating, LLC	Greenland Gap Fm	Gas	4595	ACTIVE	39.089146	-80.49554
58	4704103996	Lewis	William Roff	Enervest Operating, LLC	Greenland Gap Fm	Gas	4182	ACTIVE	39.096044	-80.49343
57	4704103988	Lewis	Charles Hall	Enervest Operating, LLC	Greenland Gap Fm	Gas	4532	ACTIVE	39.094268	-80.50448
56	4704103923	Lewis	Steve Hall	Enervest Operating, LLC	Benson	Gas	4267	ACTIVE	39.087123	-80.4990
55	4704103827	Lewis	Bernard B Jerden	OWS Acquisition Co. LLC	Brallier	Gas	5884	ACTIVE	39.106529	-80.5137
54	4704103547	Lewis	John Butcher 1	Schultz Run Gas Co.	Benson	Gas w/ Oil Show	4602	ACTIVE	39.112062	-80.5054
53	4704102851	Lewis	M C Burnside	Dominion Energy Transmission, Inc.	not available	Storage	- 5	ACTIVE	39.116315	80.51424
52	4704102687	Lewis	J Peter Bailey 1	Alliance Petroleum Co. LLC	Benson	Gas	4550	ACTIVE	39.087123	-80.4990
51	4704102646	Lewis	Abram Gaston	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.112062	-80.5054
50	4704102619	Lewis	J S Norris	Dominion Energy Transmission, Inc.	not available	Storage	(ACTIVE	39.115546	80.51116
49	4704102610	Lewis	L H Evans	Consolidated Gas Supply Corp.	Fifth	Dry w/ Gas Show	2270	ABANDONED	39.107979	-80,5137
48	4704102366	Lewis	A Gaston	Dominion Energy Transmission, Inc.	not available	Gas	1. 8.	ACTIVE	39.107701	-80.4998
47	4704102365	Lewis	Abram Gaston	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	1868	PLUGGED	39.102759	-80.5022
46	4704102351	Lewis	T Hudkins	Alliance Petroleum Co. LLC	not available	Gas	- s =	ACTIVE	39.07661	-80.5000
45	4704102338	Lewis	J Norris	Alliance Petroleum Co. LLC	not available	not available	1-79	ACTIVE	39.095558	-80,4966
44	4704102337	Lewis	M Hall	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	2318	ACTIVE	39.100322	-80.5110
43	4704102334	Lewis	L E Gall	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	2281	ACTIVE	39.107746	-80.51047
42	4704102333	Lewis	L Gall	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2355	ACTIVE	39.109317	-80,5085
41	4704102329	Lewis	Frank McKinley	Alliance Petroleum Co. LLC	Hampshire Grp	Gas	2153	ACTIVE	39.095653	-80.5033
40	4704102307	Lewis	Suzanne Lynn Evans	Dominion Energy Transmission, Inc.	not available	Gas		PLUGGED	39.110100	-80.51056
39	4704102159	Lewis	W Reger	Greylock Conventional, LLC	Benson	Gas	4289	ACTIVE	39.070669	-80.4949
38	4704102033	Lewis	Abram Gaston Cassie G Smith 2	Alliance Petroleum Co. LLC	Benson	Gas	4403	ACTIVE	39.072344	-80.48356
36 37	4704101976 4704102055	Lewis Lewis	Judson Bailey 3	Dominion Energy Transmission, Inc.	Benson Benson	Gas	4125	ACTIVE ACTIVE	39.068988 39.108099	-80.48860 -80.49790
35	4704101944	Lewis	Judson Bailey 2	Clem Energy LLC Clem Energy LLC	Benson	Gas	4232 4381	ACTIVE	39.072344	-80.48350

HG Energy II Appalachia, LLC

Site Safety Plan

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

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WV Department of

Environmental Protection

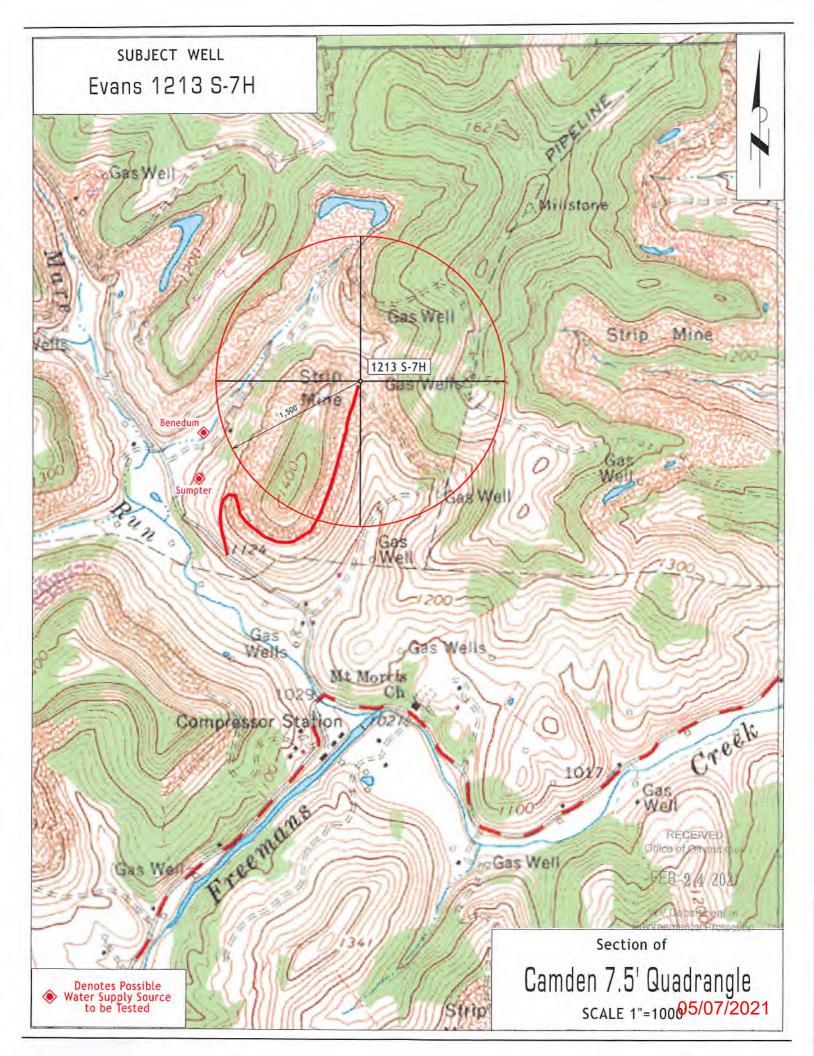
August 2020: Version 1

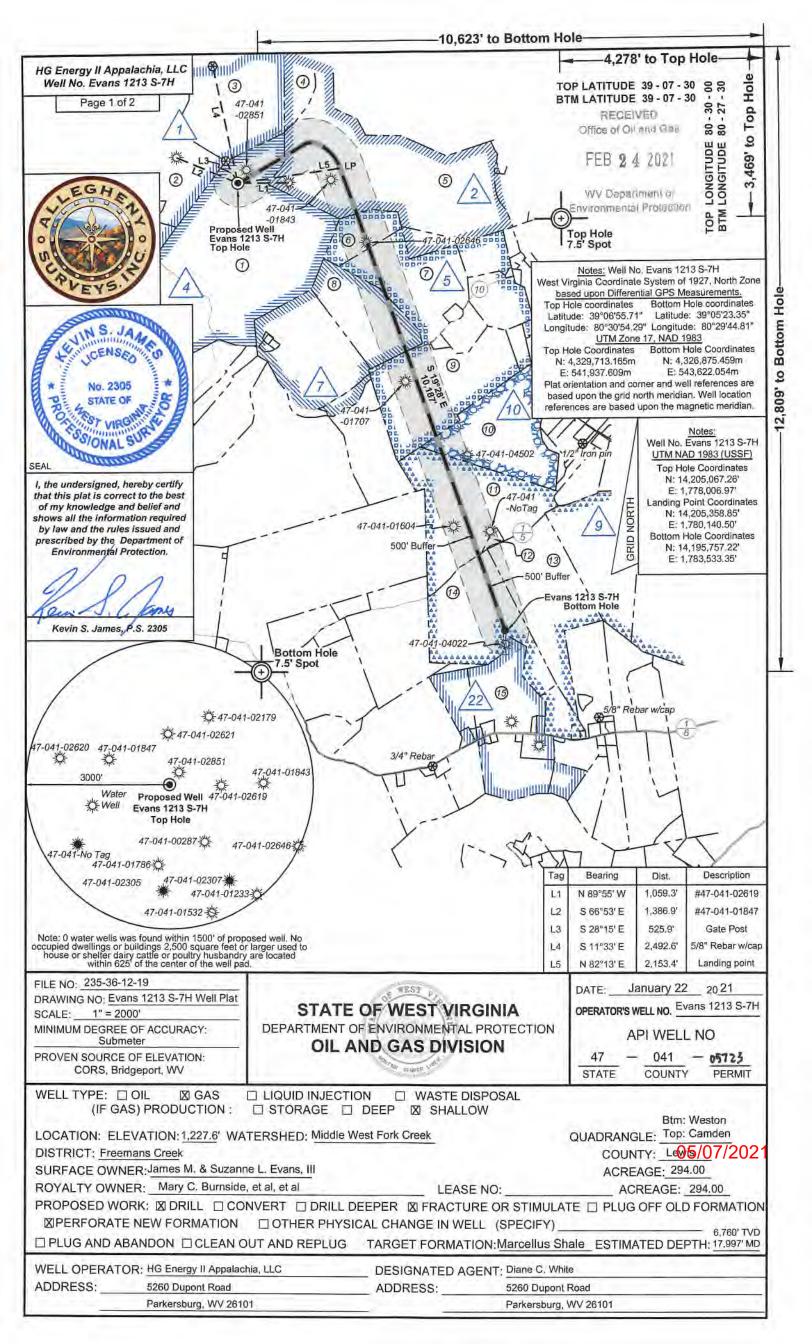
For Submission to West Virginia Department of Environmental Protection, Office of Oil and Gas

HG Energy II Appalachia, LLC

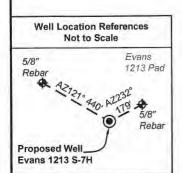
5260 Dupont Road

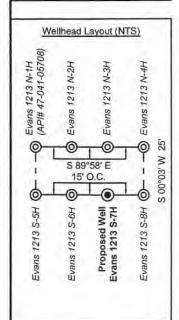
Parkersburg, WV 26101











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WV Department of Environmental Protection

Lease J.S. Hall, et ux
J.S. Norris
Mary C. Burnside, et al
Abram Gaston
L.E. Gall, et al
Emit K. Ward Jr., et al
Margaret F. Shutts
S.H. Bailey

Legend

Proposed gas well

Well Reference, as noted

Monument, as noted

Existing Well, as noted

Existing Plugged Well, as noted

Digitized Well, as noted

Creek or Drain

Existing Road

Surface boundary (approx.)

Adjoiner surface tracts (approx.)

Lewis Co. - Freeman Creek Dist. Bk / Pg TM / Par Owner Ac ne L. & James M. Evans 657 / 228 294.00 John K. Burnside & 6C / 3.2 666 / 44 115.00 Bertha F. Benedum Phillip E. Burnside 6C/3 666 / 38 87.20 Phillip E. Burnside Clarence C. Thacker, et al Eastern Gas Transmission 6C / 21 445 / 493 166.25 6 6C / 20 111 / 361 25.14 & Storage Inc.

Barbara J. Moore Revocable Trust
Barbara J. Moore Revocable Trust
Bradford A. Taylor
Scott & Amy Carpenter 6C / 18 644 / 306 76.50 10 William J. & Tonna B. Roff 12 6D / 22.1 13 6D / 66 William J. & Tonna B. Roff James R. & Mary Lou Myers (LE) James R. & Mary Lou Myers (LE) Thorne E. & LaDonna J. Cayton 14 6D / 21

FILE NO: 235-36-12-19

DRAWING NO: Evans 1213 S-7H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:

Submeter

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

DATE: January 22 20 21

OPERATOR'S WELL NO. Evans 1213 S-7H

API WELL NO

47 - 041 - 05725 STATE COUNTY PERMIT

	☐ LIQUID INJECTION ☐ WASTE DISPOSAL ☐ STORAGE ☐ DEEP ☒ SHALLOW
LOCATION: ELEVATION: 1,227.6' WA	TERSHED: Middle West Fork Creek
DISTRICT: Freemans Creek	
SURFACE OWNER: James M. & Suzann	e L. Evans, III
ROYALTY OWNER: Mary C. Burnside,	et al, et al

Btm: Weston

QUADRANGLE: Top: Camden

COUNTY: L@6/07/2021

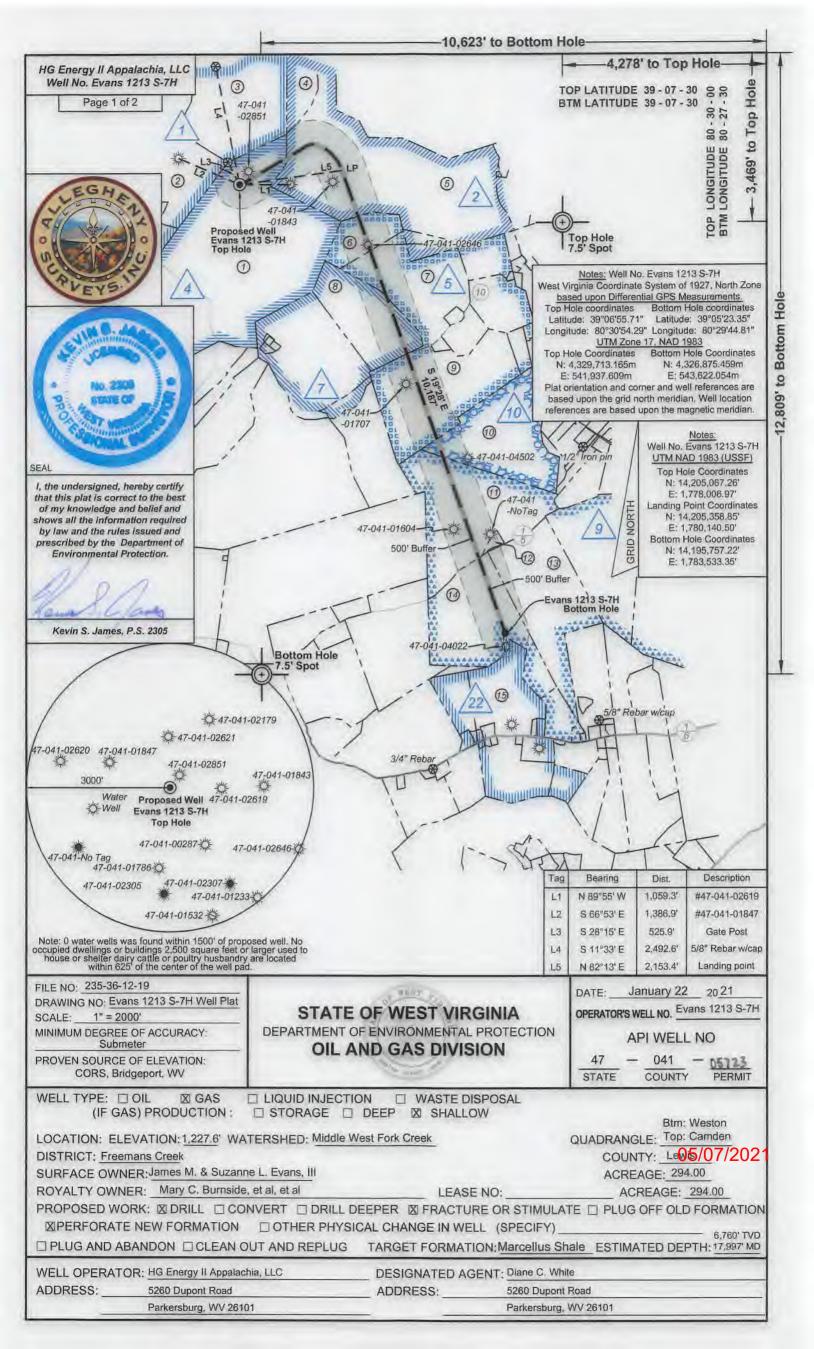
ACREAGE: 294.00

ACREAGE: 294.00

PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION ☒ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _______ 6.7501 PM

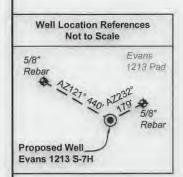
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION; Marcellus Shale ESTIMATED DEPTH: 17,997 MD

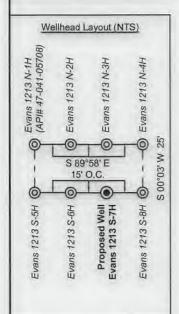
WELL OPERAT	OR: HG Energy II Appalachia, LLC	DESIGNATED AC	GENT: Diane C. White	
ADDRESS:	5260 Dupont Road	ADDRESS:	5260 Dupont Road	
	Parkersburg, WV 26101		Parkersburg, WV 26101	



Page 2 of 2







ID	Lease
7	J.S. Hall, et ux
2	J.S. Noms
4	Mary C. Burnside, et al
5	Abram Gaston
7	L.E. Gall, et al
9	Emit K. Ward Jr., et al
10	Margaret F. Shutts
22	S.H. Bailev

	Legend	
•	Proposed gas well	
•	Well Reference, as noted	
₩	Monument, as noted	
禁	Existing Well, as noted	
*	Existing Plugged Well, as noted	
恭	Digitized Well, as noted	
	Creek or Drain	
	Existing Road	
	 Surface boundary (approx.) Adjoiner surface tracts (approx.) 	

		Lewis Co Freeman Creek Dist.		
No.	TM / Par	Owner	Bk/Pg	Ac.
1	6C/4	Suzanne L. & James M. Evans, III	657 / 228	294.00
2	6C / 3.2	John K. Burnside & Bertha F. Benedum	666 / 44	115.00
3	6C/3	Phillip E. Burnside	666 / 38	87.20
4	6C/2	Phillip E. Burnside	666 / 38	17.10
5	6C / 21	Clarence C. Thacker, et al	445 / 493	166.2
6	6C / 20	Eastern Gas Transmission & Storage Inc.	111 / 361	25.14
7	6C / 18	Barbara J. Moore Revocable Trust	644 / 306	76.50
8	6C/9	Barbara J. Moore Revocable Trust	644 / 306	63.00
9	6C / 12	Bradford A. Taylor	673 / 1	101.7
10	6D / 23	Scott & Amy Carpenter	709 / 826	80.00
11	6D / 22	William J. & Tonna B. Roff	710 / 480	123.0
12	6D / 22.1	William J. & Tonna B. Roff	710 / 477	2.00
13	6D / 66	James R. & Mary Lou Myers (LE)	727 / 811	95.00
14	6D / 21	James R. & Mary Lou Myers (LE)	727 / 811	95.00
15	6D / 19	Thorne E. & LaDonna J. Cayton	551 / 145	78.90

FILE NO: 235-36-12-19

DRAWING NO: Evans 1213 S-7H Well Plat
SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

OPERATOR'S WELL NO. Evans 1213 S-7H

API WELL NO

47 — 041 — 05723

STATE COUNTY PERMIT

DATE: January 22 20 21

WELL TYPE: □ OIL ☑ GAS □ LIQUID INJECT (IF GAS) PRODUCTION : □ STORAGE □		Btm: Weston
LOCATION: ELEVATION: 1,227.6' WATERSHED: Middle V DISTRICT: Freemans Creek SURFACE OWNER: James M. & Suzanne L. Evans, III	QUADRANGLE: Top: Camden COUNTY: L05/07/2021 ACREAGE: 294.00	
ROYALTY OWNER: Mary C. Burnside, et al, et al	LEASE NO:	ACREAGE: 294.00
PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL I ☐ DRILL I ☐ OTHER PHYS	SICAL CHANGE IN WELL (SPECIFY)	6,760' TVD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG	TARGET FORMATION: Marcellus	Shale ESTIMATED DEPTH: 17,997' MD
WELL OPERATOR: HG Energy II Appalachia, LLC	DESIGNATED AGENT: Diane C. V	Vhite
ADDRESS: 5260 Dupont Road	ADDRESS: 5260 Dupo	ont Road
Parkersburg, WV 26101	Parkersbu	rg, WV 26101

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

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

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

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

See Attached Sheets

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

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

• WV Division of Water and Waste Management

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

RECEIVED
Office of Oil and Gas

FEB 2 4 2021

WV Department of Environmental Protection

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

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

Page 1 of

HG Energy II Appalachia, LLC - 1213 S-7H LEASE CHAIN

				HG Energy II Appalachia, LLC -	1220 771 22102 011111		r T	
TRACT	LEGACY LEASE				CDANITE (LECCE	DOVALTY	DEED BOOK	DAC
#12135	NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAG
				MARY C. BURNSIDE AND JOHN L. BURNSIDE, HER HUSBAND	A. W. WOODFORD AND GEO. E. MCGUIRE	NOT LESS THAN 1/8	33	
				A. W. WOODFORD	J. M. GUFFEY AND J. H. GALEY	ASSIGNMENT	33	
				J. M. GUFFEY AND J. H. GALEY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	44	58
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	THE PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	3
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	THE PITTSBURGH AND WEST VIRGINIA GAS COMPANY	DEED	125	37
				THE PITTSBURGH AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY	DEED	216	18
				EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	246	1
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	1
			Q100759000	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
_	514050220	03-005C-0043-0000	053436	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
4	FK052229	03-006C-0004-0000	053307	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	1.
			033307	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	8
			€	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	<u> </u>
		<u> </u>	l :	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	1
		ő	EB 2 4 2021 / Department of inmental Protection	DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		g <u>n</u>	202 ent o			SECOND AMENDMENT TO MEMORANDUM OF		
		RECEIVED e of Oil and	4 min	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	49
		Щō	22 par			THIRD AMENDMENT TO MEMORANDUM OF		
		O, EC	Deg Je	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	55
		g 20		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	
		JJ.O	<u> </u>	J. S. NORRIS	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	
			Envir	SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	
				HOPE NATURAL GAS COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79	
	Į.	l		RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	20
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	17
	ì			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	15
		03-006C-0021-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
2	FK053129	03-006C-0002-0000	Q100767000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	84
		03-006C-0019-0000	ì	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
	1	1		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	13
i		i		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	1
	Ì			DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
						SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	49
						THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	55
	1			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	2:
		 		ABRAHAM GASTON	RESERVE GAS COMPANY	NOT LESS THAN 1/8	68	5:
	1			RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	20
	1		1	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
	1			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	1.
			1	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
	1			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
i	1			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	15
4	1	1	1	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	

1	. I	260414000	Q101020000/	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
5	FK053265	106712000	053390/	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
		100, 11000	053429	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
			İ			SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
			1	DOMINION ENGINEE THE MINISTREET WAS		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
					RESERVE GAS COMPANY	ASSIGNMENT	79	370
				HOPE NATURAL GAS COMPANY		MERGER/NAME CHANGE	155	20:
			-95	ESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	294	89
			2 2	5. MOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION		425	12
			202	SONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT		12
			ver.	SOURCE OF THE PROPERTY OF THE	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
		03-006C-0008-0000	3 = 4	G TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
7	FK053159		0 € ex	DEMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
,	LV022123	03-006C-0008-0003 03-005C-0009-0000	RECEIVED Office of Office	☐ ON GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	5
				≥ D@MINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CEX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
	Į.			фыnion transmission, Inc.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
						SECOND AMENDMENT TO MEMORANDUM OF		
			}	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
	1		1			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
			<u> </u>	MARGARET F. SHUTTS	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	242	214
1	FK066646	03-006D-0023-0000		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	
			0000 Q100313000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
10				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
				DOMINION TRANSPILSSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF		
				DOLANGO FAISDOV TRANSLAUSSION INC	LIC ENERGY II ARRALACIIIA LLC	FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF	723	455
						I I	734	558
1				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	736	220
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)		
		03-0006-0001-0000	1	JOHN W NORRIS	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	119
	1	03-0006-0027-0000	1	SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	127
1	1	03-0006-0028 0000 03-0006-0028-0001	1	HOPE NATURAL GAS COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79	370
	i	03-0006-0028-0002		RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	202
1		03-006D-0021-0000		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	8
Į.	1	03-006D-0022-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	12
	1	03-006D-0022-0001		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
	1	03-006D-0055-0000 thru	1	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
	140221000	03-006D-0059-0000	I	DOMINION TRANSMISSION INC	CNX GAS COMPANY LLC	ASSIGNMENT	658	715

FEEHGII0035	03-006D-0059-0001 03-006D-0060-0000 03-006D-0061-0000 thru 03-006D-0066-0000 p/o 03-006D-0070-0000 03-006D-0096-0000 03-006D-0098-0000 03-006D-0098-0000 03-007D-0042-0000 03-007D-0042-0000	PCEIVELS CENT OII and Gas CENT OII and CENT	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	766	352
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Office WV Environ



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 57th Street Charleston, WV 25304

RE:

Drilling Under Roads – Evans 1213 S-7H 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 dwhite@hgenergyllc.com or 304-420-1119.

Very truly yours,

Diane White

Diane C. White

RECEIVED
Office of Oil and Gas.

FEB 2 4 2021

WV Department o: Environmental Protection

Enclosures

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

	ce Certification: 01/27/2021	API No. 4/	API No. 47			
		Operator's	Well No. Evans	s 1213 S-7H		
		Well Pad N	ame: Evans W	/ell Pad		
Notice has	oeen given:					
		22-6A, the Operator has provided the req	uired parties w	ith the Notice Forms listed		
	tract of land as follows:	7	E44007.0			
State:	West Virginia	UTM NAD 83 Easting: Northing:	541937.6 4329713.2			
County: District:	Lewis	Public Road Access:	Mare Run Road /	CP 100		
Quadrangle:	Big Iseas WV 7.5's Camden	Generally used farm name:	Evans			
Watershed:	Middle West Fork Creek	Generally used farm flame.				
prescribed by it has provid information r of giving the requirements Virginia Cod	the secretary, shall be verified and seed the owners of the surface description (b) and (c), so surface owner notice of entry to surface owner notice of subsection (b), section sixteen of	every permit application filed under this hall contain the following information: (14 bed in subdivisions (1), (2) and (4), subsection sixteen of this article; (ii) that the receiver pursuant to subsection (a), section to this article were waived in writing by the ender proof of and certify to the secretary it.	 A certification ection (b), secquirement was en of this articular the surface ow 	on from the operator that (i etion ten of this article, the deemed satisfied as a resul- cle six-a; or (iii) the notice orner; and Pursuant to Wes		
that the Ope	erator has properly served the require	perator has attached proof to this Notice Co d parties with the following:	ertification	OOG OFFICE USE		
*PLEASE CH	ECK ALL THAT APPLY			ONLY		
		■ NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUCT				
□ 1. NO	TICE OF SEISMIC ACTIVITY or	. 그 얼마나, 그리스의 사람은 얼마나면서 그렇게 하고 그렇게 있습니다. 얼마나면서 그리고 그 먹었다.	TED	ONLY RECEIVED/		
☐ 1. NO☐ 2. NO☐	TICE OF SEISMIC ACTIVITY or	SEISMIC ACTIVITY WAS CONDUCT	TED ONDUCTED USE	ONLY RECEIVED/ NOT REQUIRED		
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	SEISMIC ACTIVITY WAS CONDUCT OF PLAT SURVEY WAS CO NOTICE NOT REQUIRED BECAUNOTICE OF ENTRY FOR PLAT SURV	TED ONDUCTED JSE VEY	ONLY RECEIVED/ NOT REQUIRED RECEIVED RECEIVED/		
□ 1. NO □ 2. NO ■ 3. NO	TICE OF SEISMIC ACTIVITY or	SEISMIC ACTIVITY WAS CONDUCTED OF PLAT SURVEY WAS CONDUCTED OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OF THE WAS CONDUCTED OF THE WAS SURFACED WAS SURFACED OF THE WAS SU	TED ONDUCTED JSE VEY	ONLY RECEIVED/ NOT REQUIRED RECEIVED RECEIVED/		
□ 1. NO □ 2. NO □ 3. NO □ 4. NO	TICE OF SEISMIC ACTIVITY or TICE OF ENTRY FOR PLAT SURV	SEISMIC ACTIVITY WAS CONDUCTED OF PLAT SURVEY WAS CONDUCTED OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OF THE WAS CONDUCTED OF THE WAS SURFACED WAS SURFACED OF THE WAS SU	TED ONDUCTED JSE VEY	ONLY RECEIVED/ NOT REQUIRED RECEIVED/ NOT REQUIRED		

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.

Office of Oil and Gos



Certification of Notice is hereby given:

Well Operator: HG II Appalachia, LLC

By: Diane White Diane White

Agent Lucane White

 Its:
 Agent

 Telephone:
 304-420-1119

Address: 5260 Dupont Road

Parkersburg, WV 26101 Facsimile: 304-863-3172

Email: dwhite@hgenergyllc.com

NOTARY SEAL

OFFICIAL SEAL
NOTARY PUBLIC. STATE OF WEST VIRGINIA
MARK J SCHALL
H G Energy L L C
PO Box 5519, Vienna, WV 26105
My Commission Expires November 2, 2021

Subscribed and sworn before me this 27th day of January, 2021

Notary Public

My Commission Expires 11/2/20

Oil and Gas Privacy Notice:

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

RECEIVED
Office of Oil and Gas

FEB 2 4 2021

WV Department or Environmental Frotection

05/07/2021

API NO. 47-	041 .	- 09	5723
OPERATOR	WELL	NO.	Evans 1213 N2H -S8H
Well Pad Nar	ne: Eva	ns 1213	3

Noti	ce Time Requirem	ent: notice shall be provi	ided no later tha	n the ming date of permit application.	
	e of Notice: 02/11/21 ce of:	_ Date Permit Applica	ntion Filed: 02/21	/2021	
V	PERMIT FOR AN WELL WORK			ROVAL FOR THE AN IMPOUNDMENT OR PIT	·
Deli	very method pursu	ant to West Virginia C	ode § 22-6A-10	(b)	
	PERSONAL SERVICE	REGISTERED MAIL		OD OF DELIVERY THAT REQUIRES A PT OR SIGNATURE CONFIRMATION	
sedir the soil and description operation opera	ment control plan requirace of the tract on and gas leasehold being ribed in the erosion and tor or lessee, in the erosion and to a seams; (4) The work, if the surface to a water well, spring ide water for consumous osed well work active ection (b) of this sector of the sheriff requision of this article to the R. § 35-8-5.7. a requirement of the sheriff requision of this article to the sheriff requision of the sher	uired by section seven of which the well is or is proged developed by the proposed sediment control plan event the tract of land on wowners of record of the stract is to be used for the processories of in section nine of or water supply source longition by humans or dome ity is to take place. (c)(1) ion hold interests in the laired to be maintained pure the contrary, notice to a luires, in part, that the ope	this article, and the oposed to be local sed well work, if submitted pursual which the well prurface tract or traplacement, constraints article; (5) A cated within one estic animals; and all for more than three ands, the applicant suant to section elien holder is not rator shall also printed and the contrator shall also printed and the contrator shall also printed and the contrator shall also printed as to be contrator shall also printed as to be contrator shall also printed as the contrator s	r signature confirmation, copies of the application, ne well plat to each of the following persons: (1) The ted; (2) The owners of record of the surface tract of the surface tract is to be used for roads or other land to subsection (c), section seven of this article; (3) opposed to be drilled is located [sic] is known to be used to see the original that of the control of the surface overlying the oil and gas leasehold being develoustion, enlargement, alteration, repair, removal or all only surface owner or water purveyor who is known thousand five hundred feet of the center of the well (6) The operator of any natural gas storage field with tenants in common or other co-owners of interests at may serve the documents required upon the personalight, article one, chapter eleven-a of this code. (2) Innotice to a landowner, unless the lien holder is the landous the Well Site Safety Plan ("WSSP") to the supposition of this rule.	the owners of record of a tracts overlying the disturbance as the coal owner, underlain by one or uped by the proposed bandonment of any to the applicant to pad which is used to thin which the described in the Notwithstanding any landowner. W. Va.
ØΑ	pplication Notice	☑ WSSP Notice ☑ E	&S Plan Notice	☑ Well Plat Notice is hereby provided to:	
☑ SU	JRFACE OWNER(s)		☐ COAL OWNER OR LESSEE	
Nam	···	Evans (pad, road, water)	_	Name: NA	
Add	ress: 1064 38th Street			Address:	_
	Parkersburg, WV 2	26104			_
Nam			_	COAL OPERATOR	
Add	ress:			Name: NA	
	mal or over man) m 1 1/ 0/1 D:		Address:	
		s) (Road and/or Other Di		TOTTEL OF OVERTED OF WATER WELL	
Nam	ie:		_	SURFACE OWNER OF WATER WELL	
Add	ress:			AND/OR WATER PURVEYOR(s)	
				Name:	_
Nam	ie:			Address:	_
Add	ress:		_	OPERATOR OF ANY NATURAL GAS STO	D V CE EIEI D
CT	IDEACE OWNED	s) (Impoundments or Pits	<u>,,</u>	Name: Dominion Energy Transmission - Attn: Ronald Waldr	
_	· ·	. · -	•	Address: 925 White Oaks Blvd	_\C\C\V\ED
INBNI INBNI	ress:		_	Bridgeport, WV 26330	Office of Oil and Gas
Add	1038.		_	*Please attach additional forms if necessary	FEB 2 4 2021
				- 10000 acaom additional torrib it noocodaly	1 1 2 7 /1 /11/1

WV Department of Environmental Protection

API NO. 47- 64/ - 05723

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 water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and pullified to test water supplies in accordance with standard acceptable methods.

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, poud 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

API NO. 47-<u>041</u> - <u>05723</u>

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 location or construction of the applicant's proposed well work to the Secretary at:

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

FEB 2 4 2021

WV Department of Environmental Projection

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- 041 - 05773

OPERATOR WELL NO. Evans 1213 N2H-SBH

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

Permit Denial or Condition

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

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

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

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

CREEVED Chief of Oil med Fa

FEB 2 4 2021

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API NO. 47- 64 - 05723

OPERATOR WELL NO. Evans 1213 N2H-S8H

Well Pad Name: Evans 1213

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

Telephone: 304-420-1119

Email: dwhite@hgenergyllc.com

Address: 5260 Dupont Road

Parkersburg, WV 26101

Facsimile: 304-863-2172

Oil and Gas Privacy Notice:

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



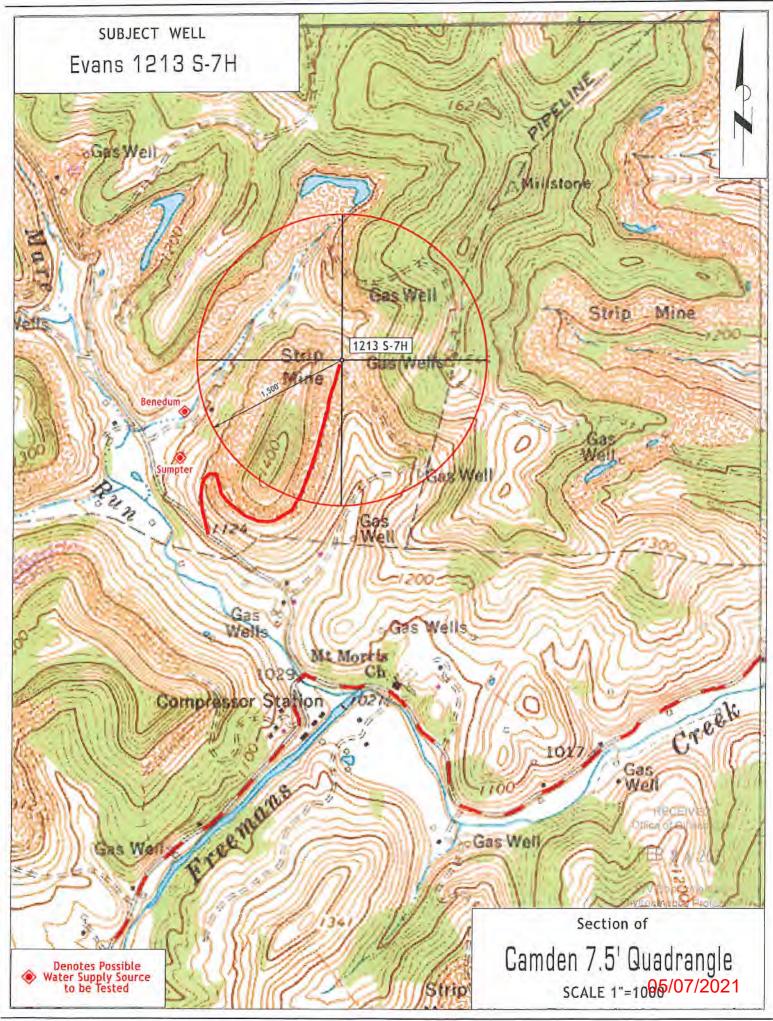
Subscribed and sworn before me this 11th day of February, 2021

Notary Public

My Commission Expires

RECEIVED
Office of Oil and Gas

FEB 2 4 2021





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

February 11, 2021

Suzanne & James Evans 1064 38th 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 dwhite@hgenergyllc.com.

Very truly yours,

Diane White

Diane C. White

Enclosures

RECEIVED
Office of Oil and Gns

FEB 2 4 2021

Diane White

From:

Diane White

Sent:

Wednesday, September 2, 2020 4:14 PM

To:

Vicki Hoops

Subject:

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 38th 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

RECEIVED
Office of Oil and Gas

Sturm Environmental Services

VICTORIA L. HOOPS, PRESIDENT

COMPANY:

H.G. ENERGY, LLC.

DATE/TIME SAMPLED:

10-20-20 1430

SAMPLE ID:

EVANS WELL#1

DATE/TIME RECEIVED:

10-20-20 1400

SAMPLED BY: L. GARLITZ

LABORATORY ID:

HGE 201020-1

PARAMETER	TEST RESULTS	UNITS	метнор	METHOD DETECTION LIMIT	MINIMUM REPORTING LIMIT	DATE/TIME ANALYZED	ANALYST
FIELD pH	7.4	units				10-20-20 1430	LG
FIELD TEMP	15.8	°C				10-20-20 1430	LG
FIELD COND	485	μmhos				10-20-20 1430	LG
рН О	6.8	units	SM 22 nd 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 1-1750-85	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 nd 5540C	.02	.04	10-21-20 2126	SW
			7451 175 77				
					to intention		
			15.0				

*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-CEIVED

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:

Approved Joseph 15 NV Department of

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VICTORIA L. HOOPS, PRESIDENT

COMPANY:

H.G. ENERGY, LLC.

DATE/TIME SAMPLED:

10-20-20 1445

SAMPLE ID:

EVANS WELL #2

DATE TIME RECEIVED:

10-20-20 1400

SAMPLED BY: L. GARLITZ

LABORATORY ID:

HGE 201020-2

PARAMETER	TEST RESULTS	UNITS	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			10-20-20 1445	LG
pH O	7.0	units	SM 22 nd 4500 H B	.1	2,-10.	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
CI-	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 nd 5540C	,02	.04	10-21-20 2126	SW
Seles,							

*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, B

E Estimated Reported value exceeded calibration range.

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

PND Precision not determined.

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

Recovery not determined. RND

U Compound was analyzed for, but not detected.

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

T 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:

FEB 2 4 2021

WV Dopen mant of Environmental Protection

mmental

VICTORIA L. HOOPS, PRESIDENT

COMPANY:

H.G. ENERGY, LLC.

DATE TIME SAMPLED:

10-20-20 1250

SAMPLE ID:

HAUGHT

DATE TIME RECEIVED:

10-20-20 1400

SAMPLED BY: L. GARLITZ

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				10-20-20 1250	LG
FIELD TEMP	16.2	°C				10-20-20 1250	LG
FIELD COND	449	μmhos				10-20-20 1250	LG
pH O	7.1	units	SM 22 nd 4500 H B	.1	2,-10.	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 I-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 nd 5540C	.02	.04	10-21-20 2126	SW
+							
						1	
			-				

*Client Provided

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

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. EGEIVED R Office of Oil and Gas RND Recovery not determined.

U Compound was analyzed for, but not detected.

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

This result is not supported by our certification ID. T

A Does not meet 40 CFR 136/141 compliance.

Does not meet 47 CSR 32 compliance.

Narrative:

FEB 2 4 2021 WV Doperment of

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

STURM ENVIRONMENTAL SERVICES

STURM ENVIRONMENTAL BRUSHY FORK ROAD BRIDGEPORT, WV 26330 PHONE: 304-623-6549 FAX: 304-623-6552 STURM ENVIRONMENTAL SERVICES 610 D STREET SO. CHARLESTON, WV 25303 PHONE: 304-744-9864

6552 FAX: 304-744-7866 MAILING ADDRESSES ARE LISTED BELOW

REPORT TO: Client Name:	HG EN	ERGY								В	ILL.	TO:	Clie	ent Na	ame:	_											RECEIVED Office of Oil and	PG-TOF 2	WV Dept timen Environments/Pro
Address:																											90	63	1
City/State/Zip:												- 1															世 8		O E
Contact Person:																											OHIO.		₹ 5
Telephone Number:											T	eleph	none	Nun	nber						FAX								E III
Email Address:														Addi													5		
Sampler Name: (Print)	LARRY	GARLI	TZ									Purc	hase	o Ord	ar#:	:													
Sampler Signature:	Z	~ -		1							TUE	N A	ROU	ND T	IME:	:	SI	tandard	i								1 DAY	2 DAY	3 DAY
Project Name			1														R	USH (pr	e-sche	eduled; surcha	rges may	apply)	Pleas	e Chec	k One				
Special Reporting:		Email F	Results		1	Fax Res	ults													te Needed							1000000		-
	C	OMPOSI	TE SAME	PLE	GRAB S	SAMPLE	T	PRI	SERV	ATIVE				MATI	RIX				AN	ALYZE FOR:			1						
Sample ID / Description	START DATE	START TIME	END DATE	END TIME	DATE	TIME	Ice	отнея	HCI	H ₂ SO ₄ Plastic	H ₂ SO ₂ Glass	HNO3	Groundwater	Drinking Water	Soll	Other (specify):	Fredriii			FREQUENCY			# of Bottles	Field pH	Flow (gpm, cfs, mgd) circle one	Field Conductivity	Field DO	Fleid Chlorine (mg/L or ug/L) circle one	Field Temp (F° o; C') circle one
Evans (w-1)		- 07			10/20/20	230 pm	x		T			Ħ		11		T	x	\top	T				3	7.4		485	1.5	u_ u	15.8
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STURM ENVIRONMENTAL SERVICES

STURM ENVIRONMENTAL BRUSHY FORK ROAD BRIDGEPORT, WV 26330 PHONE: 304-623-6549 FAX: 304-623-6552 STURM ENVIRONMENTAL SERVICES 610 D STREET SO. CHARLESTON, WV 25303 PHONE: 304-744-9864

FAX: 304-744-7866

MAILING ADDRESSES ARE LISTED BELOW

REPORT TO: Client Name: 1	HG EN	ERGY								В	ILL	TO:	Clie	nt Na	ame:											. 97	~ ~ ~	WV Department Environmental Pro-
Address:																										HECEIV		是是
City/State/Zip:													City!	State	/Zip:								J			HEC	0	D H
Contact Person:												Co	ntac	t Per	son:											_	图	W
Telephone Number:											T	elepi	one	Nun	ber:					F	AX			t m				E
Email Address:												E	mall	Addi	ress:													
Sampler Name: (Print)		GARLI	TZ	.1								Purc	has	o Ord	er#:													
Sampler Signature:	1		/	fer							TU	RN A	ROU	ND T	IME:	_	_St	tand	ard							1 DAY	2 DAY	3 DAY
Project Name	/		11														R	USH	(pre-sc	heduled; surchar	gos may appl	ly) Plea	se Che	ck One				
Special Reporting:		Email F	Results			Fax Res	ults												D	ate Needed								
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Sample ID / Description	START DATE	START TIME	END DATE	END TIME	DATE	TIME	Ice	OTHER	HCI	H ₂ SO ₄ Plastic	H ₂ SO ₄ Glass	HNO ₃	Groundwater	Drinking Water	Sludge	Other (specify):	Fredrii			FREQUENCY		# Of Roselea	Fletd pH	Flow (gpm, cfs, mgd) circle ans		Field DO	Field Chlorine(ingiL or ugiL).	Flatd Temp (F" or C") circle
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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.

Date of Noti			nit Application Filed: 02/20/2021	permit application	on. -
Delivery me	thod pursuant to	o West Virginia Code § 22	-6A-16(b)		
☐ HAND	Tell .	CERTIFIED MAIL			
DELIVI		RETURN RECEIPT REQU	IESTED		
DELIVI	SK I	KETUKN KECEIFT KEQU	DESTED		
receipt reque drilling a hor of this subsec subsection m	sted or hand deli- rizontal well: Pro- ction as of the dat ay be waived in	very, give the surface owne ovided. That notice given p te the notice was provided to writing by the surface owne	s prior to filing a permit application, or notice of its intent to enter upon the pursuant to subsection (a), section to the surface owner: <i>Provided, hower</i> . The notice, if required, shall includes of the operator and the operator	ne surface owner n of this article never, That the n ude the name, ac	's land for the purpose of satisfies the requirements otice requirements of this ldress, telephone number,
	reby provided	to the SURFACE OWN			
1000000	Suzanne & James Evans		Name:		
radi ess.	064 38th Street		Address:		
F	Parkersburg, WV 26104				
State: County:	West Virginia Lewis	te purpose of utiling a nort	zontal well on the tract of land as fo UTM NAD 83 Easting: Northing:	541933.0 4329720.8	
County: District:	Freemans Creek		Public Road Access:	Mare Run Road/CR	40/0
Quadrangle:	14.92010.003.00.023.9030	Camden	Generally used farm name:	Evans	10/3
Watershed:	Middle West Fork C		Generally used farm flame.	Lvans	
Pursuant to facsimile nur	nber and electro	ode § 22-6A-16(b), this nonic mail address of the op-	otice shall include the name, addresserator and the operator's authorize Secretary, at the WV Department of	d representative	. Additional information
located at 60	1 57 th Street, SE,	Charleston, WV 25304 (30	04-926-0450) or by visiting <u>www.de</u>	p.wv.gov/oil-and	d-gas/pages/default.aspx.
	ereby given by:				2 4
Market Company of the	or: HG Energy II Ap	palachia, LLC	Authorized Representative:	Diane White	Diane White
Address:	5260 Dupont Ro	ad	Address:	5260 Dupont Roa	d
	Parkersburg, W\	V 26101		Parkersburg, WV	26101
Telephone:	304-420-1119		Telephone:	304-420-1119	
Email:	dwhite@hgenerg	gyllc.com	Email:	dwhite@hgenergy	/llc.com
Facsimile:	304-863-3172		Facsimile;	304-863-3172	
	7				

Oil and Gas Privacy Notice:

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

WW-6A5 (1/12)

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

Delivery me	thod pursuant to West Virginia	Code 8	22-6A-16(c)		
	IFIED MAIL		HAND		
RETU	RN RECEIPT REQUESTED		DELIVERY		
return receip the planned required to be drilling of a damages to t (d) The notice of notice.	t requested or hand delivery, give operation. The notice required le e provided by subsection (b), sect horizontal well; and (3) A propo- he surface affected by oil and gas ses required by this section shall be reby provided to the SURFACE	the surfice of the su	ace owner whose land ubsection shall inclu of this article to a surface use and compens to the extent the date to the surface owner at	I will be used for de: (1) A copy ace owner whose sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
,	ss listed in the records of the sheri	at the	Name:		
,		-			
Address 106	4 38th Street		Addres	ć.	
Notice is he. Pursuant to Voperation or	reby given: West Virginia Code § 22-6A-16(c) In the surface owner's land for the			he undersigned all well on the tra	
Notice is here Pursuant to Voperation or State: County: District:	reby given: West Virginia Code § 22-6A-16(c) the surface owner's land for the West Virginia Lewis Freemans Creek		is hereby given that th	ne undersigned al well on the tra Basting: Northing:	
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Notice is here Pursuant to Voperation or State: County: District: Quadrangle: Watershed: This Notice Pursuant to Voto be provide horizontal wasurface affectinformation	reby given: West Virginia Code § 22-6A-16(c) In the surface owner's land for the West Virginia Lewis Freemans Creek Big Issae WV 7.5' Camben Middle West Fork Creek Shall Include: West Virginia Code § 22-6A-16(c) Itel by W. Va. Code § 22-6A-10(c) Itel; and (3) A proposed surface use the distribution of the company of th), this no b) to a e and co the exter	is hereby given that the of drilling a horizonta UTM NAD 8 Public Road Generally use of the shall include: (1) surface owner whose ompensation agreement the damages are conined from the Secretal points of the damages are conined from the secretal points of the damages are conined from the damages are conined from the secretal points of the damages are conined from the secretal points of the damages are conined from the secretal points of the damages are conined from the secretal points of the damages are conined from the secretal points of the damages are conined from the secretal po	he undersigned all well on the traces and arm name: Access: ed farm name: A copy of this e land will be understand arm name; are mpensable undersy, at the WV	act of land as follows: 541933.0 4329720.8 Mare Run Road / CR 10/9 Evans code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection
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Notice is here Pursuant to Very person or State: County: District: Quadrangle: Watershed: This Notice Pursuant to Very person of the provide horizontal wasurface affect information headquarters	reby given: West Virginia Code § 22-6A-16(c) In the surface owner's land for the West Virginia Lewis Freemans Creek Big Issee WV 7.5' Camben Middle West Fork Creek Shall Include: West Virginia Code § 22-6A-16(c) ed by W. Va. Code § 22-6A-10(e) ell; and (3) A proposed surface use ted by oil and gas operations to related to horizontal drilling may located at 601 57th Street, SE, fault.aspx.), this no b) to a e and co the exter	is hereby given that the of drilling a horizonta UTM NAD 8 Public Road Generally use of the shall include: (1) surface owner whose omptensation agreement the damages are contined from the Secret leston, WV 25304	he undersigned all well on the traces as Easting: Northing: Access: ed farm name: Acopy of this e land will be understand arm to containing arompensable underly, at the WV (304-926-0450)	act of land as follows: 541933.0 4329720.8 Mare Run Road / CR 10/9 Evans code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional T Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-

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

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

January 26, 2021

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

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

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

Subject: DOH Permit for the Evans 1213 Pad, Lewis County Evans 1213 S-7H 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. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton, P.E.

Jan K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Diane White HG Energy, LLC.

CH, OM, D-7

File

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Office of Oil and Gas

FEB 2 4 2021

WV Department of Environments | Protection

05/07/2021

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
TTO SHALL SINK YES		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
Since Suna and Ground Suna	IVIIXCUIC	1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
BIO CLEAR 2000	Mixture	25322-68-3
DIO GELIAN 2000	Winter	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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FEB 2 4 2021

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
Silica Sariu ariu Grounu Sariu	IVIIXture	1344-28-1
		1309-37-1
		13463-67-7
		15405 07 7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
BIO CLEAR 2000	Mixture	25322-68-3
		10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
		107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	

RECEIVED
Office of Oil and Gas

FEB 2 4 2021



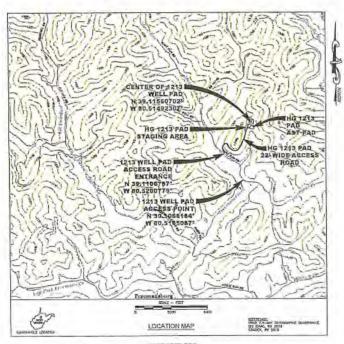
CONSTRUCTION IMPROVEMENT PLANS WITH **EROSION AND SEDIMENT CONTROLS** HG 1213 WELL PAD

SHT. NO.	SHEET TITLE
1	TITLE SHEET
2A-2D	SITE DEVELOPMENT PLANS
3	WELL PAD SECTIONS
4A-4B	ACCESS ROAD SECTIONS
5A-5F	CONSTRUCTION NOTES & DETAILS
6A-6C	RESTORATION PLAN
7	PROPERTY MAP

CONSTRUCTION SEQUENCE

- 1. Prior to commencement of any earth disturbance activity including clearing and grubbing, the registrant shall call West Virginia 811 by dialing 811 or 1-800-245-4848 to identify all utility lines. The registrant also must clearly delineate sensitive areas, riparian forest buffer boundaries, the limits of clearing, and trees that are to be conserved within the project site, and shall install appropriate barriers where equipment may not be parked, staged, operated or located for any purpose.
- 2. Site access This is the first land-disturbance activity to take place at the site and should provide BMPs to minimize accelerated erosion and sedimentation from the following areas: entrance to the site, construction routes, and areas designated for equipment or other use at the site including parking, stockpiles.
- 3. Sediment Barriers Install perimeter BMPs after the construction site is accessed, keeping associated clearing and grubbing limited to only that amount required for installing perimeter BMPs,
- 4. Land Clearing and Grading Implement clearing and grading only after all downslope E&S BMPs have been constructed and stabilized.
- 5. Surface Stabilization Apply temporary or permanent stabilization measures immediately to any disturbed areas where work has reached final grade, has been delayed or otherwise temporarily suspended.
- 6. Construction of Buildings, Utilities, and Paving During construction, install and maintain any additional erosion and sediment control BMPs, and implement any structural post construction stormwater BMPs that may
- 7. Upon completion of pad grading, compact the pad to grade and begin placement of pad soil cement,
- 8. Final Stabilization, Topsoiling, Trees and Shrubs After construction is completed, install stabilization BMPs including: permanent seeding, mulching and riprap, and complete implementation of stormwater BMPs in this last construction phase. Stabilize all open areas, including borrow and spoil areas, and remove all temporary BMPs and stabilize any disturbances associated with the removal of the BMP.

FREEMANS CREEK DISTRICT LEWIS COUNTY WEST VIRGINIA



PREPARED FOR HG ENERGY II APPALACHIA, LLC

5260 DUPONT ROAD PARKERSBURG, WEST VIRGINIA 26101 (304) 420-1100

PREPARED BY PENN ENVIRONMENTAL & REMEDIATION, INC.

> 111 RYAN COURT PITTSBURGH, PA 15205 (412) 722-1222

Final Development - Grav	el Cirtino			***************************************	dinalinimile livinilisie
ma boycasmon - arox	a copier.		Cut	FE	/ Stockbile
213 Well Pad			6.323	7.678	e50
1213 Well Fad Access Road	1		5.323	1,540	3.763
1213 Wid Pird AST Pad			350	440	1 -50
1215 Well Park Storying Area		-	570	420	150
Totals	_		14,550	10,070	4.490
Est, Swell Fetter		(20%)	1		895
Total Statistance:			***************		5,990
Stripped Topsel (Limits of)	(Figwells		_		5,792
Est, Smill Factor		(20%)			1 (.156
Est, Tepsofi Sinckpile Velut	D steal) on	n	,		6,938
Minimum Total Stockpile Co	anciety Root	and (Cr)	P-1		12,328
Material habines for est. Topsoil est, volume base Malerial belance and est.	d on 5 inche	es average millim bas	doptii.	rate:	
1. Material balance for est. 2. Topsoil est, volume base	ed on 6 inche gregale que raise of act	es average milier bas tud quant	doptii. od on estir ties.	ratrs	
Topsoil est, volume base Malerial beforce and eg- and may not be represent	id on 6 Inche gregale que ralise ol ad conractor p	es average milier bas tud quant	doptii. od on estir ties.	ralife:	
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Material balance for est. Topsoil est, volume base Malorial believoe and eg- and may not be represent. Estimates do est reflect.	d on 6 km/s gregale que stalise ol aci contractor p t 1210 Part L Add #2d	es average milies bas surf quant ay volume	doptic. nd on estr tes.	AGT Fed	26,50
Marginal batherise for est. Topped est, workinn base Majord philance and againd may not be represent. Estimated on the objection. Estimated Gravel Duarcitic State of the Communication of the Commun	d on 6 inche gregale que realise ol ect compactor p 1213 Pari E AST Pad Secon Javan B,420 608	Slegge Arca Fod	togalic molecular fies, is, well red 18,700	Agr Fed	26,50
Material balance for est. Topesal est, volume base Topesal est, volume base Maled in planne and egy and may not be expresse. Edimated General Guard to Topesal Guard to	d on 6 inche gregale que ratine ol ad cominactor p 1211 Part L AST 814 6-con llava B,420 608 ad a' Faux 5	store agreement of the store of	togalic molecular fies, is, well red 18,700	AGT Fed	26,50
Material habites for est. Toppool est, volume base. Toppool est, volume base. Malde faithere and on an and may not be repreted to the product of the produ	d on 6 inche gregale que relate ol ed relate	Steppe Acard action (CF)	tata well Pas 10,700 773	AGT Fed	25,59 1,91
Material bathers for est. Topped est, volum base 3, Majord palance and egg and may not be expressed. Estimated General District to the reflect Estimated General District to 32 bases of the Community of	d on 6 inche gregale que relate ol ed relate	Steppe Acard action (CF)	tata well Pas 10,700 773	AGT Fed	26,50 1,91 734
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Meterial Subress for eat. Maile fell preference and any man fell preference and any fell preferen	d on 6 below gregate quo grega	in serving colors of the color	indeptilities of the second se	Fed 4.125 298	26.55 1.91 734 1310 2044 8.1

# TTEM	LAT.	LONG.
N-1H	N 39.115635	W 60.515002
N-2H	N 39,115835	W 80.514949
N-3H	N 39.115634	W 80.514898
N-4H	N 39.115834	W 80.514844
5-5H	N 39.115566	W 80.515003
S-6H	N 39.115566	W 80,514950
S-7H	N 39.119566	W 80.514897
S-BH	N 39.115565	W 80.514844

WELL ELEVATIONS 1227.45

	LATTTUDE	LONGITUDE
1213 WELL PAD ACCESS POINT	N 39.1055184	W 80.5165087
1213 WELL PAD ACCESS ROAD ENTRANCE	N 39.1106787	W-80.5200779

RECORD GWNER	RECORD LDT #	RECORD AREA OF LOT	AREA WITHIN LOD
SUZANNE LYNN & JAVES M. EVANS	21-03-0000-0004-0000	308.1376	14.340
MARE RUN ROAD D.R. 10/s	N/A	N/A	0,025
			1.2.2
TOTAL LIMIT DE D	ISTURBANCE		14.365 M

Well Area Surface Floration (F



TITLE SHEET

HG 1213 PAD FREEMANS CREEK DISTRICT LEWIS COUNTY, WEST VIRGINIA

HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA

DRAWING NUMBER PA008130-001

Dial 811 or 800,245,4848



Office FEB 50 202

WEST VIRGINIA

YOU DIG!

SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSED FOR LOCATING, WAINTAINING, AND REPLACING AS MICCESSARY TO ENSUR

