

#### west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Friday, February 7, 2020 WELL WORK PERMIT Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for ANTONIO 1206 N-4H

47-033-05981-00-00

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: ANTONIO 1206 N-4H

Farm Name: CHARLES R. & FRANKLIN I

U.S. WELL NUMBER: 47-033-05981-00-00

Horizontal 6A New Drill Date Issued: 2/7/2020

Promoting a healthy environment.

API Number: 4703305981

### PERMIT CONDITIONS

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

#### CONDITIONS

- This proposed activity may require permit coverage from the United States Army Corps of Engineers
  (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed
  activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply 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: 47 03305981

## 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, sending an email to DEPOOGNotify@wv.gov.

API NO. 47-033 - 05 98/
OPERATOR WELL NO. Antonio 1206 N-4H
Well Pad Name: Antonio 1206

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

1) Well Operat	or: HG Ene	ergy II Appa	lachia, 🔓	494519932	Harrison	Grant	West Milford 7.5'
				Operator ID	County	District	Quadrangle
2) Operator's V	Vell Number:	Antonio 12	206 <b>N</b> -4H	Well Pad	Name: Anton	io 1206	
3) Farm Name/	Surface Own	er: HG Energy	y II Appalachi	a, LLC Public Road	d Access: Had	kers Cree	k Rd @ SR 19
4) Elevation, cu	urrent ground	: 1364'	Ele	evation, proposed p	ost-constructio	on: 1350'	
5) Well Type	(a) Gas $\geq$ Other	(	Oil	Unde	rground Storag	ge	
	_	Shallow	X	Deep			
	* *	Horizontal	×				
6) Existing Pad							
				pated Thickness ar		essure(s):	
8) Proposed To	tal Vertical D	Depth: 7252	2'				
9) Formation at		_	/larcellus				
10) Proposed T	otal Measure	d Depth: 1	8,793'				
11) Proposed H	Iorizontal Leg	g Length: 1	0,745'				
12) Approxima	te Fresh Wate	er Strata Dep	oths:	135', 480', 637',	731'		
13) Method to 1	Determine Fr	esh Water D	epths: N	earest offset well	data		
14) Approxima	te Saltwater I	Depths: No	S/W depths	s found on WR-35's fo	r offset wells, salt	water expect	ed to be below elevation
15) Approxima	te Coal Seam	Depths: 62	23', 1010'	to 1015'			
16) Approxima	te Depth to P	ossible Voic	l (coal mi	ne, karst, other): _	lone		
17) Does Propo directly overlyi				Yes	No	X	
(a) If Yes, pro	vide Mine In	fo: Name:					
		Depth:					
		Seam:					
		Owner					

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

1) Well Operator: HG	6 Energy II Appalachia, 🔓	494519932	Harrison	Grant	West Milford 7.5'
		Operator ID	County	District	Quadrangle
2) Operator's Well Nu	mber: Antonio 1206 N-4H	Well Pad	Name: Anton	io 1206	-
3) Farm Name/Surface	Owner: HG Energy II Appalachi	a, LLC Public Road	d Access: Had	kers Cree	k Rd @ SR 19
4) Elevation, current gr	round: <u>1364'</u> Ele	evation, proposed p	ost-construction	on: 1350'	
5) Well Type (a) Gas Other	s X Oil	Unde	rground Storag	e	
(b)If G	as Shallow x	Deep			SDW
6) Existing Pad: Yes or	Horizontal X No No				50w 10131 Izaq
	rmation(s), Depth(s), Antici 260' and 179' in thickness. A	•		essure(s):	
8) Proposed Total Vert	ical Depth: 7252'				
9) Formation at Total V	Vertical Depth: Marcellus				
10) Proposed Total Me	asured Depth: 18,793'				
11) Proposed Horizont	al Leg Length: 10,745'				
12) Approximate Fresh	Water Strata Depths:	135', 480', 637',	731'		
13) Method to Determi	ne Fresh Water Depths: N	learest offset well	data		
14) Approximate Saltw	vater Depths: NA				
15) Approximate Coal	Seam Depths: 623', 1010'	to 1015'			
16) Approximate Dept	h to Possible Void (coal mir	ne, karst, other):	Vone		
*	ll location contain coal seam	Yes	No	X	
(a) If Yes, provide M	ine Info: Name:				
	Depth:				
RECEIVED Office of Oil and Gas	Seam: Owner:				
0 4 2019					

Well Pad Name: Antonio 1206

#### 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'	40% excess,CTS
Intermediate 1	13 3/8"	NEW	J-55	68	2200'	2200'	40% excess,CTS
Intermediate 2	9 5/8"	NEW	J-55	40	3000'	3000'	40% excess tail, CTS
Production	5 1/2"	NEW	P-110	23	18793'	18793'	20% excess tail, CTS
Tubing							
Liners							

5000 10/31/2019

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (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"	24"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Lead 40% excess, Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Lead 40% excess, Tail 0% Excess
Production	5 1/2"	8 1/2"	.415	16240	12500		
Tubing							
Liners							

#### **PACKERS**

Kind:		
Sizes:		
Depths Set:		
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Page 2 of 3

API NO. 47-\_\_\_\_
OPERATOR WELL NO. Antonio 1206 N-4H

Well Pad Name: Antonio 1206

7-6B API NO

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 7252 feet. Drill horizontal leg to estimated 10,745' lateral length, 18,793' TMD. Hydraulically fracture stimulate and be capable of producing from the Marcellus Formation. Should we encounter an unanticipated void in the coal, we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface. We plan to run an ECP above the Gantz/Dominion Storage interval to aid in sealing off and isolating the storage interval.

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 68.187 acres

22) Area to be disturbed for well pad only, less access road (acres): 11.058 acres

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing.
Freshwater - centralized every 3 joints to surface.
Coal - 5 ow Spring on every joint, will also be running. ACP for isolating storage zone
Intermediate - 5 ow Spring on first 2 joints the nevery 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:

Conclustor-NIA, Casing to be diffed in will busil Rotary Rig.
Frish Water 1-5 by pg PME-1 + 92 be busic CAL (40% Excess Yield = 1.20, CTS
Informediate 1 - \*Lead: 154 pgp PME-1 + 2.5% busic CACHON'S Excess I Tail: 158 ppg PME-1 + 2.5% busic CACHON'S Excess I Tai

25) Proposed borehole conditioning procedures:

Conductor - ensure the note is clean at 10.

Fresh Water - Choice cashig is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.

Cost - Once cashing is at setting depth. Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.

Intermedate - Once cashing is at setting depth. Circulate and condition and at TD. Circulate a minimum of one hole volume prior to pumping cement.

Intermedate - Once cashing is at setting depth. Circulate and condition must a trib. Circulate a minimum of one hole volume prior to pumping cement.

Production - Once on bottom/TD with casing, circulate at mix allowable pump rate for at least 2x 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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\*Note: Attach additional sheets as needed.

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Page 3 of 3

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## Antonio 1206 Well Pad (N-1H, N-2H, N-3H, N-4H, N-5H) Cement Additives

03989

Material Name	Material Type	Material Description	CAS#			
		Premium NE-1 is a	Ingredient name		%	CAS number
		portland cement with early compressive	Portland cement		90 - 100	65997-15-1
		strength properties.	Calcium oxide Magnesium oxide		1 - 5 1 - 5	1305-78-8 1309-48-4
Premium NE-1	Portland Cement		Crystalline silica: Quartz (SiO2)		0.1 - 1	14808-60-7
		Commonly called gel, it is	Ingradient name		lai	-
		a clay material used as a cement extender and to	bentonite		90 - 100	CAS number
		control excessive free	Crystalline silica: Quartz (SiO2)		5 - 10	1302-78-9 14808-60-7
		water.	¥			
Bentonite	Extender					
		A powdered, flaked or				
		pelletized material used	ingredient name		%	CAS number
		to decrease thickening	Calcium chloride		90 - 100	10043-52-4
		time and increase the rate				
lcium Chloride	Accelerator	of strength development				
	neciciato					
		Graded (3/8 to 3/4 inch)	Ingredient name		%	CAS number
		cellophane flakes used as	No hazardous ingredient		/#	one number
ilo Flake	Lost Circulation	a lost circulation material.	<u> </u>			
		ED 401 in a december of				
		FP-13L is a clear liquid organic phosphate				
		antifoaming agent used in				
		cementing operations. It	Ingredient name		1%	CAS number
		is very effective	Tributyl phosphate		90 - 100	126-73-8
		minimizing air				
		entrapment and				
		preventing foaming				
		tendencies of latex systems.				
P-13L	Foam Preventer	,				
			ingredient name		Tay.	
		Used to retard cement	Sucrose		%	CAS number
ranulated Sugar	Retarder	returns at surface.	Onciose		90 - 100	57-50-1
		A proprietary product				
		that provides expansive properties and improves				
		bonding at low to	Ingredient name		46	@AB
		moderate	Calcium magnesium oxide		% 90 - 100	CAS number
÷1		temperatures.	1		30 - 100	37247-91-9
-A		Multi-purpose polymer				
		additive used to control	Remark of Louis and Louis			
		free fluid, fluid loss,	Ingradient name		%	CAS number
DA 170	Con Milm. 11	rheology, and gas	No hazardous ingredient			
PA-170	Gas Migration	migration.		400		
		A synthetic pozzolan,	177	No.		
		(primarily Silicon Dioxide).		_ 0		
		When blended with	Environ	N H F		
		cement, Pozzolan can be	Ingredient name	Office of DEC 0	Ter	15.
		used to create		Depo	%	CAS number
		lightweight cement slurries used as either a	Calcium oxide	MO 4 9	5 - 10 1 - 5	14808-60-7 1305-78-8
		filler slurry or a sulfate	The state of the s	2 0 0 3	1.	1900-10-0
		resistant completion		and (2019)		
		cement.	The state of the s	VED and Ga 2019		
z (Fly Ash)	Base		Crystalline silica: Quartz (SiO2) Calcium oxide	vED and Gas 2019		
				97		
		A. L				
		A low temperature				

retarder used in a wide

range of slurry formulations to extend

Retarder

Surfactant

S-5

the slurry thickening time.

Used to water wet casing and formation to facilitate cement bonding.

Ingradient name Organic acid salt

Ingredient name

2-Butoxyethanol
Proprietary surfactant
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides
Alkylarylsulfonate amine sait
Polyoxyalkylenes

% 40 - 50

% 20 - 30 10 - 20 5 - 10 1 - 5 0.1 - 1 CAS number

Trade secret.

CAS number

111-76-2 Trade secret. 110615-47-9 Trade secret. Trade secret.

		TO	REC Office of	RECEIVED Office of Oil and Gas				1206 N-4H Marcellus Shale Horizontal	N-4H ale Horizontal	
	open	ENERGY		0 4 2019				Harrison County, WV	ounty, WV	
					1206 N	1206 N-4H SHL		14	14220786.49N 1815519.34E	19.34E
<b>Ground Elevation</b>		1350'	WVDe	partment of		1206 N-4H LP		14	14221378.34N 1816903.17E	03.17E
Azm		340.538°	.8			1206 N-4H BHI		14	14231506.05N 1813324.41E	24.41E
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
		20" 427 R#					todist od 0+ prise 0 A/M			_
×	30"	137.3# LS	Conductor	0	120	AIR	in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5° wall thickness
			Fresh Water	0	135, 480, 637, 731		15.6 ppg PNE-1 + 3%		Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" wall
×	24"	20" 94# J-55	Coal	1010	1015	AIR	bwoc CaCl 40% Excess	Centralized every 3 joints to surface	of one hole volume with	
×			Surface / FW	0	1100		Yield=1.20 / CTS		rresh vvater prior to pumping cement.	Burst=2110 psi
							Lead: 15.4 ppg PNE-1 +	Bow Spring on every	Once casing is at setting	
	17 5"	13-3/8" 68#	Little/Big Lime	1555 / 1596	1575 / 1658	AIR / KCL-	40% Excess / Tail: 15.9	joint joint	condition at TD. Circulate a	Interme
×	0.	J-55 BTC	Injun / Gantz (Storage)	1658 / 1985	1770 / 2050	Polymer	ppg PNE-1 + 2.5% bwoc CaCl	Will also be running ACP for isolating storage zone*	minimum of one hole volume prior to pumping	wall mickness Burst=3450 psi
			Thirty Thirty Cont	0000	7457		Zelo /a Lycess. Cl 3		Called	
×			Gordon Stray / Gordon	2013/12/02	2272 / 2385		Lead: 15.4 ppg PNE-1 + 2 5% bwoc CaCl	Bow Spring on first 2	Once casing is at setting	
	12.25"	9-5/8" 40#	5th Sand	2515	2527	AIR / KCL - Sait	40% Excess / Tail: 15.9	joints then every third	condition mud at TD.	Intermediate casing = 0.395" wall thickness
×		) B cc-L	Bayard / Warren	2591 / 2891	2601 / 2931	Polymer	ppg PNE-1 + 2.5% bwoc CaCl	joint to 100° form surface	Circulate a minimum of one hole volume prior to	Burst=3950 psi
			Intermediate 2	0	3000		zero% Excess. CTS		pumping cement.	
×			Speechley	3204	3224					
			Balltown	3438	3448	9.0pgg		Kun 1 spiral centralizer every 5 joints from the		
	8.5" Vertical		Benson	4505	4525	SOBM	Lead: 14.5 ppg POZ:PNE-1 + 0.3%	top of the curve to		
							bwoc R3 + 1% bwoc	92	:	
			Rhinestreet	6395	6651		FP13L + 0.3% bwoc		casing circulate at max	
			Cashaqua	6651	6751		MPA170		allowable pump rate for at	Production casing = 0.415"
×		5-1/2"	Middlesex	6751	6783	11.5ppg-	Tail: 14.8 ppg PNE-1 + 0.35% pwoc R3 + 0.75		least 2x bottoms up, or until returns and pump	wall thickness Burst=16240 psi
	8.5" Curve	P-110 HP	West River	6783	6854	12.5ppg	gal/sk FP13L + 50%		pressures indicate the hole	Note: Actual centralizer
		срс нта	Burkett	6854	6864	SOBM	bwoc ASCA1 + 0.5%	Run 1 spiral centralizer	is clean. Circulate a	schedules may be changed
,			Tully Limestone	6864	6972		20% Excess	1st 5.5" long joint to the	>	
			Hamilton	6972	7081		Lead Yield=1.19	top of the curve.		7
			Marcellus	7081	7260		CTS			
	8.5" Lateral		TMD / TVD (Production)	18793	7252	11.5ppg- 12.5ppg				0
>			Coopaga	7260		SOBM				72.70
<	×	×	- Ollolldaga	X X		×	Y	×	Y	×
LP @ 72	LP @ 7252' TVD / 8048'			8.5" Hole - Cemented Long String	d Long String			+/-1074	+/-10745' ft Lateral	TD @ +/-7252' TVD
	2			1011-1402 211-0	2 0 0 0					1/1/20/2011/1

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

#### Antonio 1206 Well Pad (N-1H to N-5H)

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

Office of Oil and Gas
Office of Oil and Gas

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WV Department of
Environmental Protection

4703 0000

#### PROPOSAL TO DRILL WITHIN DOMINION TRANSMISSION STORAGE FIELD

FIELD/ZONES:

DOMINION FINK/KENNEDY/LOST CREEK-GANTZ SAND

WELL NAME: Antonio 1206 N-4H

Well # Antonio 1206 N-4H

DISTRICT/COUNTY/STATE: Grant/Harrison/WV

Submitted

JOSH HINTON HG ENERGY, LLC DATE 11-13-19

DATE 11/19/19

**Dominion Energy Transmission** 

Approved

DATE 11/15/19

**Dominion Energy Transmission** 

#### Comments:

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

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	12.3	11 29	- 2	11 1
d/	4			

API NO. 47			
OPERATOR WEL	L	NO.	Antonio 1206 N-4H
Well Pad Name	-	Antoni	0 1206

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

1) Well Operator:	HG Energy	II Appala	chia, L		19932	Harrison	Grant	West Milford 7.5'
				Oper	ator ID	County	District	Quadrangle
2) Operator's Well	Number: Ar	itonio 120	6 N-4H		Well Pa	ad Name: An	tonio 1206	
3) Farm Name/Surl	face Owner:	HG Energy I	Appalach	ia, LLC	Public Ro	ad Access: _	łackers Cre	ek Rd @ SR 19
4) Elevation, currer	nt ground:	1364'	Ele	evation	, proposed	l post-constru	ction: 1350'	
5) Well Type (a) Oth	Gas x		Oil		Uno	lerground Sto	rage	
(b)		_	(		Deep			SUW
6) Existing Pad: Ye		rizontal >	(					SDW 1018 12019
7) Proposed Target Marcellus at 708	Formation(s						Pressure(s):	
8) Proposed Total V								
9) Formation at Tot		-	arcellus					
10) Proposed Total	Measured D	epth: 18	,793'					
11) Proposed Horiz	ontal Leg Le	ngth: 10	,745'					
12) Approximate Fr	resh Water S	trata Deptl	rs:	135',	480', 637'	, 731'		
13) Method to Dete 14) Approximate Sa			oths: N	leares	offset we	ell data		
15) Approximate C	oal Seam De	pths: 623	', 1010'	to 10	15'			
16) Approximate D	epth to Possi	ble Void (	coal mi	ne, kar	st, other):	None		
17) Does Proposed directly overlying o					es	N	lo X	
(a) If Yes, provide	Mine Info:	Name:						
		Depth:	2.000					
		Seam:						
		Owner:						

Page 1 of 3

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API NO. 47-OPERATOR WELL NO. Antonio 1206 N-4H
Well Pad Name: Antonio 1208

4703:03991

#### 18)

#### CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120'	Drilled In
Fresh Water/Coal	20"	NEW	J-55	94	1100'	1100'	40% excess,CTS
Intermediate 1	13 3/8"	NEW	J-55	68	2200'	2200'	40% excess,CTS
Intermediate 2	9 5/8"	NEW	J-55	40	3000'	3000'	40% excess tall, CTS
Production	5 1/2"	NEW	P-110	23	18793'	18793'	20% excess tail, CTS
Tubing							
Liners							

Sow 10/31/2019

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30 <sup>n</sup>	.500				Drilled In
Fresh Water/Coal	20"	24"	.438	2110	1200	Type 1, Class A	40 % access yield = 1.20, CTS
Intermediate1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Loso 40% excess, Tall 0% oxons
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Lood 40% amone, Yali UN Estain
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% overstryck > 1.18; (54)(64) 1.44
Tubing							
Liners							-

#### **PACKERS**

Kind:	
Sizes:	
Depths Set:	

Page 2 of 3

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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 7252 feet. Drill horizontal leg to estimated 10,745' lateral length, 18,793' TMD. Hydraulically fracture stimulate and be capable of producing from the Marcellus Formation. Should we encounter an unanticipated void in the coal, we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface. We plan to run an ECP above the Gantz/Dominion Storage interval to aid in sealing off and isolating the storage interval.

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 68.187 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 11.058 acres
- 23) Describe centralizer placement for each casing string:

The contributors will be Lood with inemblature gaining.

Federal variety and every of plants in long-loop, BCE for investing actings across

Federal variety and every of plants in long-loop, BCE for investing actings across

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Federal contributor only 1 gives from the 1 s.5° bring-plant to the time of the control.

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

Casacidate AVI. Casality is the Selfs of the Goal Revay Ping.

First Water 1-18, pp 97864 - 7-3 km cell Cast Strass Triple 1-30, CTS

Parent Water 1-18, pp 97864 - 7-3 km cell Cast Strass Triple 1-30, CTS

Parent Water 1-18, pp 97864 - 7-2 km cell Cast Strass Triple 1-30, CTS

Parent Water 1-18, pp 9786 - 7-2 km cell Cast Strass Triple 1-2 km cell Cast Strass Triple 1-2

25) Proposed borehole conditioning procedures:

Conductive - Details to hable date on 9 TV.

This All Value - Once of both is at sixting require, displaint an efficient of six hable victors within Fresh Water - Once of the control of the six of the control of the contro

\*Note: Attach additional sheets as needed.

Page 3 of 3

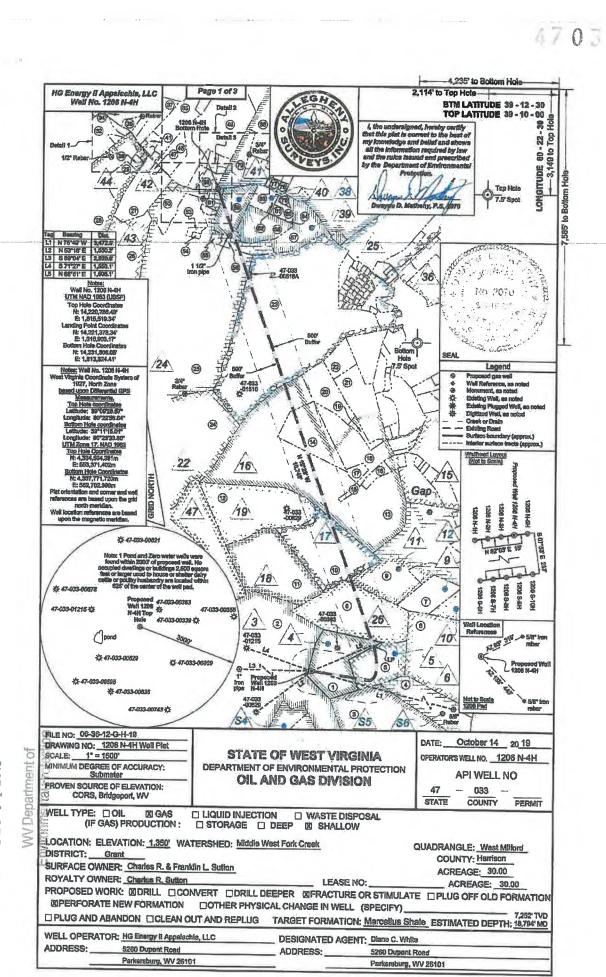
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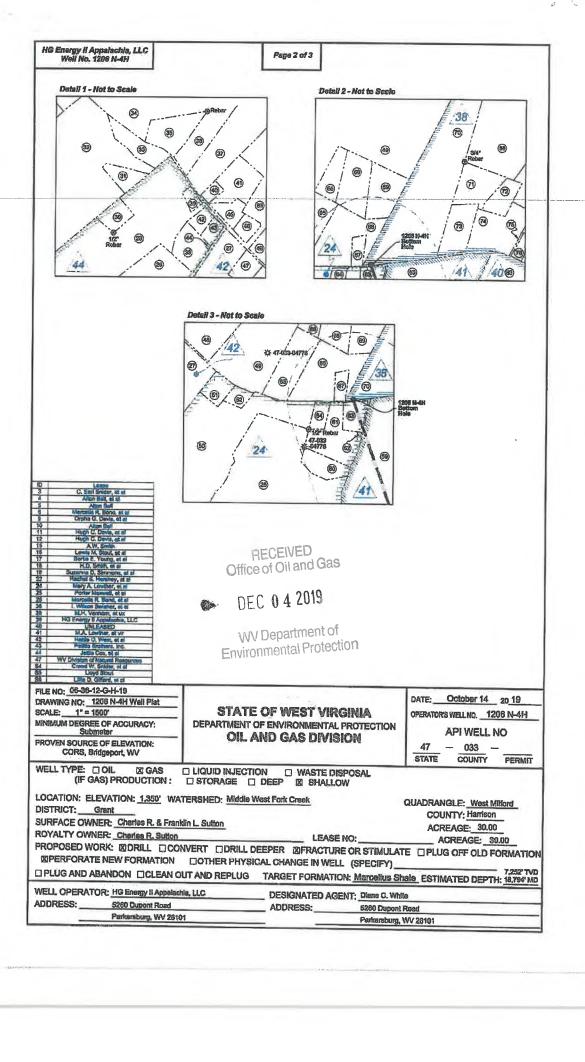
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Grannel Flavation					1206 h	1206 N-4H SHL	-	7	14220786.49N 1815519.34E	19.34E
Valion		1350	2		1206	1206 N-4H LP		4	14221378.34N 1816903.17E	03.17E
		340.538	980		1206 N	1206 N-4H BHI		\$5.	14231506.05N 1813324.41E	24.41E
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	40T	BASE	QNIN	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
W.E.		30* 157.5#					W/b Coning to be dilled		the second secon	_
×	30	SI	Conductor	0	120	AIR	In w/ Dual Rotary Rig	NIA	TD.	Conductor casing = 0.5" wall thickness
			Fresh Water	O	135, 480, 637, 731		15.8 ppg PNE-1 + 3%		Once casing is at setting	
×	24"	84# J-55	Coal	1010	1015	AIR	bwoc CaCi 40% Excess	Centralized every 3 joints to surface	of one hole volume with	Sundce Casing = 0.436 wall
×			Surface / FW	0	1160		Yield=1,20 / CTS		pumping cement.	Burst=2110
						-	Lead: 15.4 ppg PNE-1 +	Bow Spring on every	Once casing is at setting	
	17.5	13-3/8" 68#	Little/Big Lime	1555 / 1586		AIR / KCL-	40% Excess / Tail: 15.9	_	condition at TD. Circulate a	Interm
×		200 810	Injum/ Gardz (Storage)	1658 / 1985	2		ppg PNE-1 + 2.5% bwoc CaCl	ACP for isolating	minimum of one hale volume prior to pumping	Well Unchaiss Burst=3450 psi
	1		intermediate 1	0	2200		zero% Excess. CTS	Simede Cone	cement	
×			Greeden Street Greeden	2095 / 2182	2157 / 2200		Lead: 15.4 ppg PNE-1 +		O	
•	12.25	9-5/8, 40#	Sth Sand	2645		AIR / KCL -		joints then every third	condition mud at TD.	Intermediate casing = 0.395*
×		J-55 BTC	Bayard / Warren	2591 / 2891	2601 / 2931	35		joint to 100' form surface	Ö	wall thickness Burst≕3950 psi
			Internediate 2	0	3000		zero% Excess, CTS		pumping cement.	
×			Speechiay	3204	3224			Dun t confront manufacture		
ີ່ຄວ	8.5" Vertical		Ballown	3438	3448	9.0000		every 5 joints from the		
			Benson	4505	4525	MGOS M	POZ:PNE-1 + 0.3%	sop of the curve to surface.		
			Rhinestreet	6395	6651		EC1 + 0.75 gal/sk		Once on bottom/TD with	
1005			Cashaqua	6651	6751		FF131 + 0.3% DWDC		casing, circulate at max allowable pump rate for at	Production castno = 0.415
×		23#	Middlesex	6751	6783		Tail: 14.8 ppg PNE-1 + 0.35% byoc R3 + 0.75		least 2x bottoms up, or until	wall thickness
42,	8.5" Curve	P-110 HP	West River	6783	T	12.5ppg SOBM	gal/bk FP13L + 50%	Din A policel condentions	pressures indicate the hole	Note: Actual centralizer
			Tully franchis	6854	6884			every 3 joints from the	minimum of one hale	due to hole conditions
			Hamilton	6872	7081			top of the curve.	volume prior to pumping cement.	
			Marcellus	7081	1		CTS			
80 80	8.5" Lateral		(Production)	18793	7252	11.5ppg-				
**			Onondaga	7260		SOBM				
LP @ 7252' TVD / 8048'	D / 8048	<	8.8	8.5" Hole - Cemented Long String	Long String	×	×	×	Y	TD @ +4.7252 TVM
8			9-10	1/2" 23# P-110 HF	срсито			+7-1074	4/-10745' ft Lateral	*/-18793*MD

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Parkersburg, WV 26101

HG Energy II Appalachia, LLC Well No. 1206 N-4H Page 3 of 3 Chotter
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Charles R. & Franklin L. Sutton
Arthorito P., LLC
Charles P., LLC
Charles P., LLC
Charles R. & Robert M. Levels J.K.
Front J. Charles J.K.
Front Waynero Cantley, et al.
Paul Waynero Cantley, et al.
Potnie D. & Booner R. Reasear TM IPPE 405 19.1 2 405 19.1 37.2 405 19.2 405 19.3 405 19 FILE NO: 06-36-12-G-H-19
DRAWING NO: 1206 N-4H Well Plat
SCALE: 1"= 1500" DATE: October 14 20 19 STATE OF WEST VIRGINIA OPERATOR'S WELL NO. 1206 N-4H MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV DEPARTMENT OF ENVIRONMENTAL PROTECTION API WELL NO OIL AND GAS DIVISION 033 WELL TYPE: OIL IN GAS (IF GAS) PRODUCTION: STATE COUNTY PERMIT ☐ LIQUID INJECTION ☐ WASTE DISPOSAL ☐ STORAGE ☐ DEEP ☒ SHALLOW LOCATION: ELEVATION: 1,350' WATERSHED: Middle West Fork Creek QUADRANGLE: West Milford
COUNTY: Harrison DISTRICT: Grant SURFACE OWNER: Charles R. & Franklin L. Sutton ACREAGE: 30.00 ROYALTY OWNER: Charles R. Sutton LEASE NO: ACREAGE: 30.00 PROPOSED WORK: SIDRILL CONVERT CONVERT CONTROL STIMULATE CONTROL OF OLD FORMATION CONTROL CHANGE IN WELL (SPECIFY) ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 18,794 MD WELL OPERATOR; HG Energy II Appelachia, LLC DESIGNATED AGENT: Diane C. White ADDRESS: 5260 Dupont Road ADDRESS:\_ 5260 Dupont Road

Parkersburg, WV 26101

WWifee of Oil and Gas (4/16)

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WV Department of Environmental Protection API Number 47 -

4705003991

Operator's Well No. Antonio 1206 N-4H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy II Appalachia, LLC	OP Code 494501907
Watershed (HUC 10)_Middle West Fork Creek	Quadrangle West Milford 7.5'
Do you anticipate using more than 5,000 bbls of water to comp	plete the proposed well work? Yes 🗸 No
Will a pit be used? Yes No	
If so, please describe anticipated pit waste: NA	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	SDW
Land Application Underground Injection (UIC Perm Reuse (at API Number TBD - At next Off Site Disposal (Supply form WV Other (Explain	anticipated well
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 horizon	tal)? Air, freshwater, oil based, etc. Vertical - Air, Air/KCL, SOBM, Horizontal - SOBM
-If oil based, what type? Synthetic, petroleum, etcS	Synthetic
Additives to be used in drilling medium?Water, Soap, KCl, Bar	rite, Base Oil, Wetting Agents
Drill cuttings disposal method? Leave in pit, landfill, removed	1 offsite, etc. Approved Landfill
-If left in pit and plan to solidify what medium will be	e used? (cement, lime, sawdust) NA
-Landfill or offsite name/permit number? See Attache	od .
Permittee shall provide written notice to the Office of Oil and West Virginia solid waste facility. The notice shall be provided where it was properly disposed.	Gas of any load of drill cuttings or associated waste rejected at any d within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West V provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally application form and all attachments thereto and that, base	conditions of the GENERAL WATER POLLUTION PERMIT issued firginia Department of Environmental Protection. I understand that the of any term or condition of the general permit and/or other applicable by examined and am familiar with the information submitted on this ed on my inquiry of those individuals immediately responsible for true, accurate, and complete. I am aware that there are significant bility of fine or imprisonment.
Company Official Signature Diane White	
Company Official (Typed Name) Diane White	
Company Official Title Agent	
Subscribed and sworn before me this 27th day of S	eptember , 20_19
My commission expires $11/2/2021$	Notary Public  Notary Public  Notary Public  Notary Public STATE OF MARK J SCHALL  H G Energy L  PO Box 5519, Vienna My Commission Expires N
	my Contrassor Capacity

Proposed Revegetation Treatm	00.40	37	
	nent: Acres Disturbed 68.18		on pH
Lime	Tons/acre or to correct to 20-20	pH 6.5	RECEIVED Office of Oil and Gas
Fertilizer amount	500	lbs/acre	DEC 0 4 2019
Mulch_ Hay	2 <sub>Tor</sub>	ns/acre	WV Department of Environmental Protectio
	$\underline{\mathbf{S}}$	seed Mixtures	
Tem	nporary	Pe	ermanent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
acreage, of the land application	t will be land applied, include n area.	olication (unless engineered plans is dimensions (L x W x D) of the pit	ncluding this info have been , and dimensions (L $x$ W), and a
acreage, of the land application Photocopied section of involve	t will be land applied, include n area.  ed 7.5' topographic sheet.	dimensions (L x W x D) of the pit	ncluding this info have been, and dimensions (L x W), and a
acreage, of the land application  Photocopied section of involve  Plan Approved by:	t will be land applied, include n area.  ed 7.5' topographic sheet.	dimensions (L x W x D) of the pit	, and dimensions (L x W), and a
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Plan Approved by:	t will be land applied, include n area.  ed 7.5' topographic sheet.  Lucase  mulch as soon as r	dimensions (L x W x D) of the pit	, and dimensions (L x W), and a
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Photocopied section of involve Plan Approved by: Comments: Pre-seed/n	t will be land applied, include n area.  ed 7.5' topographic sheet.  Lucace  nulch as soon as reeded per WV DEF	dimensions (L x W x D) of the pit	, and dimensions (L x W), and a

(X) Yes

Field Reviewed?

### Cuttings Disposal/Site Water

Cuttings - Haul off Company:

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

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

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

#### Disposal Locations:

Apex Environnemental, LLC Permit # 06-08488 LL County Road 78 Amsterdam, OH 48903 740-548-4889

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

Sycamore Landfill Inc. Fermit #R80-078001 05-2010 4801 Sycamore Ridge Road Hurricane, WV 25526 304-562-2611

Max Environnemental Technologies, Inc. Facility Permit # PAD004888146 / 301071, 288 Max Lane
Yukon, PA 25968
724-722-8500

Max Environnemental Technologies, Inc. Facility Permit # PADO5087072 / 301359 200 Max Drive Bulger, PA 15018 724-796-1571

Waste Management Kelly Run Permit # 100663 1901 Park Side Drive Elizabeth, PA 15087 412-884-7669

Waste Management South Hills (Arnoni) Permit # 100592 3100 Hill Road Library, PA 15129 724-348-7018 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 26390

Brooke County Landfill Permit # SWF-108-87 / WV 0109029 Rd 2 Box 410 Colliers, WV 26025 804-748-0014 RECEIVED
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Weizel County Landfill Permit # SWF-1021-97 / WV 0109186 Rt 1 Box 156A New Martinsville, WV 26035 804-455-3800

Energy Solutions, LLC Permit # UT 2300249 428 West 800 South Suite 200 Salt Lake City, UT 84101

Energy Solutions Services, Inc. Permit # R-79006-L24 1560 Bear Creek Road Oak Ridge, TN 97880

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

#### Water Haul off Companies:

Dynamic Structures, Clear Creek DOT # 720485 3790 State Route 7 New Waterford, OH 44445 880-892-0164

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

Select Energy Services, LLC PO Box 208997 Dallas, TX 75320-8997

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

Mustang Olifield Services LLC PO Box 789 St. Clairsville, OH 43950

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

Disposal Locations:

Solidification

200 Rangos Lane

Washington, PA 15301

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WV Department of Environmental Protection

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Permit # 4096 Rt. 88 Garrettsville, OH 718-275-4816

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 49767 614-648-8898 740-706-6495

Nichios 1-A (SWIW #18) Permit # 8862 800 Charrington Pkwy, Suite 200 Coraopolis, PA 15108

CMS of Dalaware Inc. DBA CMS Ollfield Sary

301 Commerce Drive

Indiana, PA 15701

Sala Construction

St. Mary's, WV 26170

Equipment Transport

Myers Well Service, \_

2001 Ballpark Court

Burns Drilling & Excavating

Wind Ridge, PA 15880

618 Crabapple Road P.O. Box

Export, PA 15682

Carlisle, PA 17018

P.O. Box 544

1 Tyler Court

Force, Inc.

Moorestown, NJ 08057

1880 Rts. 286 Hwy. E, Suite 808

Grosella (SWIW #34)

412-829-7275

### 724-225-1589 Solidification/Incineration Sail Remediation, Inc. Permit # 02-20753

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

Waste Management, Arden Landfill Permit # 100172

Adams #1 (Buckeye Brine, LLC) Permit # 34-031-2-7177 23986 Airport Road Coshocton, OH 43812 740-575-4484 512-478-6545

Adams #2 (Buckeye Brine, LLC) 2205 Westover Road Austin TX 78708 Permit # 34-081-2-7178 740-575-4484 612-478-6645

Adams #8 (Buckeye Brîne, LLC) Permit #84-031-2-7241-00-00 2680 Exposition, Suite 117 Austin, TX 78703 612-478-6545

Mozena #1 Well (SWIW # 18) Permit # 34-157-2-6511-00-00 6867 E. State Street Newcomerstown, OH 48882 740-768-3966

Goff SWD #1 (SWIW # 27) Permit # 84-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Coreopolis, PA 15108 412-828-7275

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

Dudley #1 UIC (SWIW #1)
Permit # 34-121-2-2459-00-00
Select Energy Services, LLC
7894 S. Pleasants Hwy
St. Warys, WV 26170
204-665-2652

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WV/ Department of Environmental Protection OH UIC #1. Bu keya UIC Barnesville 1 & 2 CNX Gas Com...any, LLC 1,000 Consol Energy Drive Permit # 84-018-2-0609-00-00 Permit # 34-013-2-0614-00-00 804-828-6668

US Steele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15780 804-328-6568

Chapin #7 UIC (SWIW #7)
Permit # 84-083-2-4187-00-00
Elkhead Gas& Oll Company
12168 Marne Rd. NE
Newark, OH 48055
740-768-8966

## HG Energy II Appalachia, LLC

## **Site Safety Plan**

Antonio 1206 Well Pad 5279 Duck Creek Road Lost Creek Harrison County, WV 26385

September 2019: Version 1

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

HG Energy II Appalachia, LLC Sow

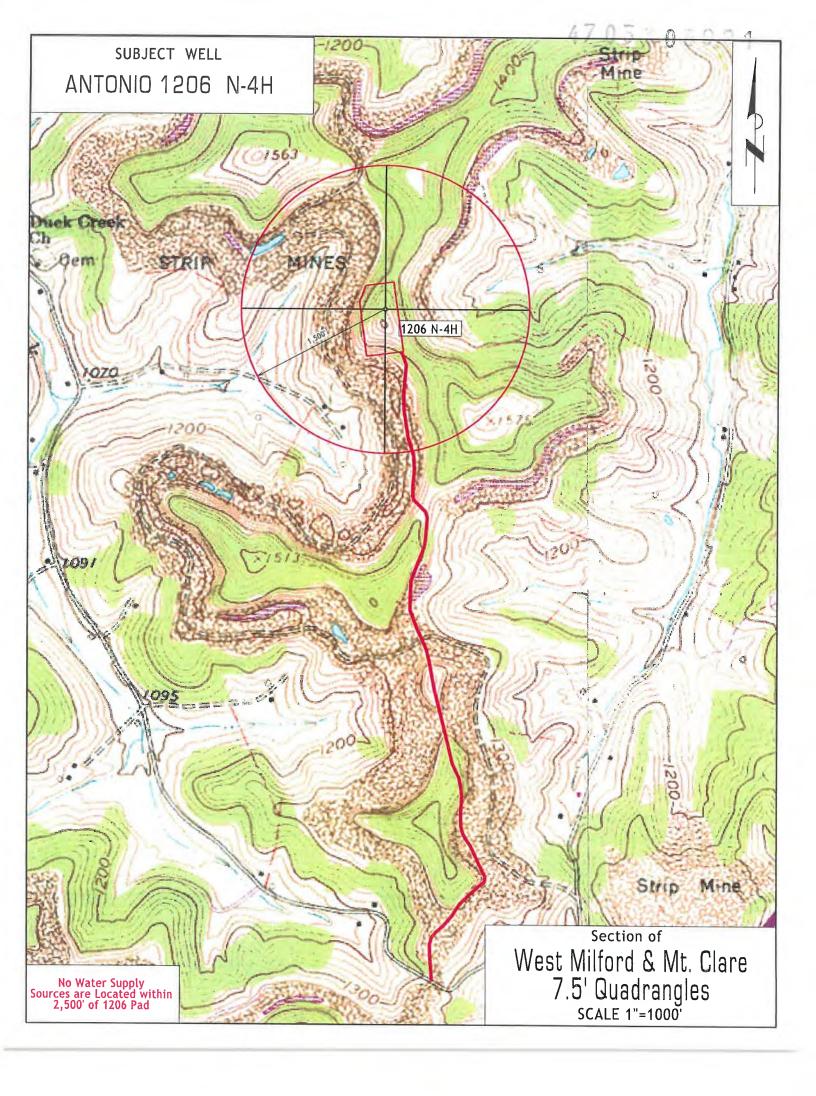
5260 Dupont Road

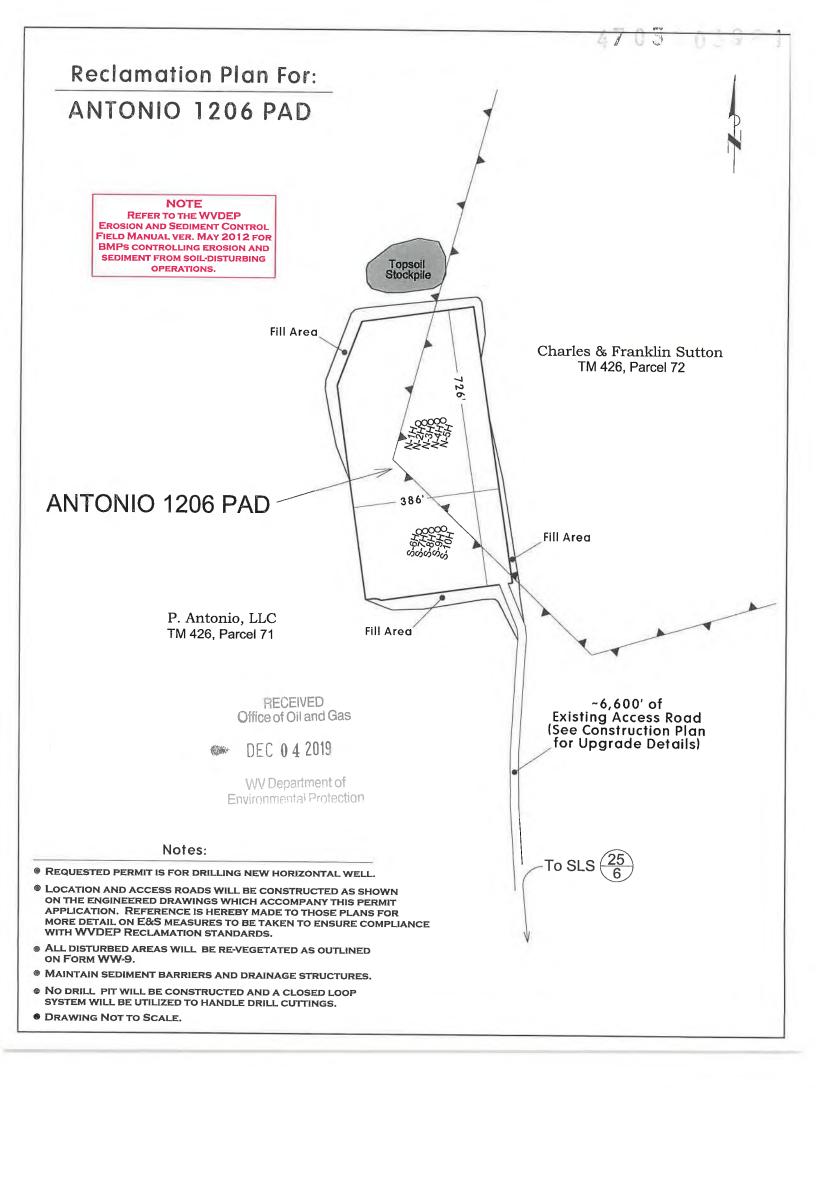
10/31/2019

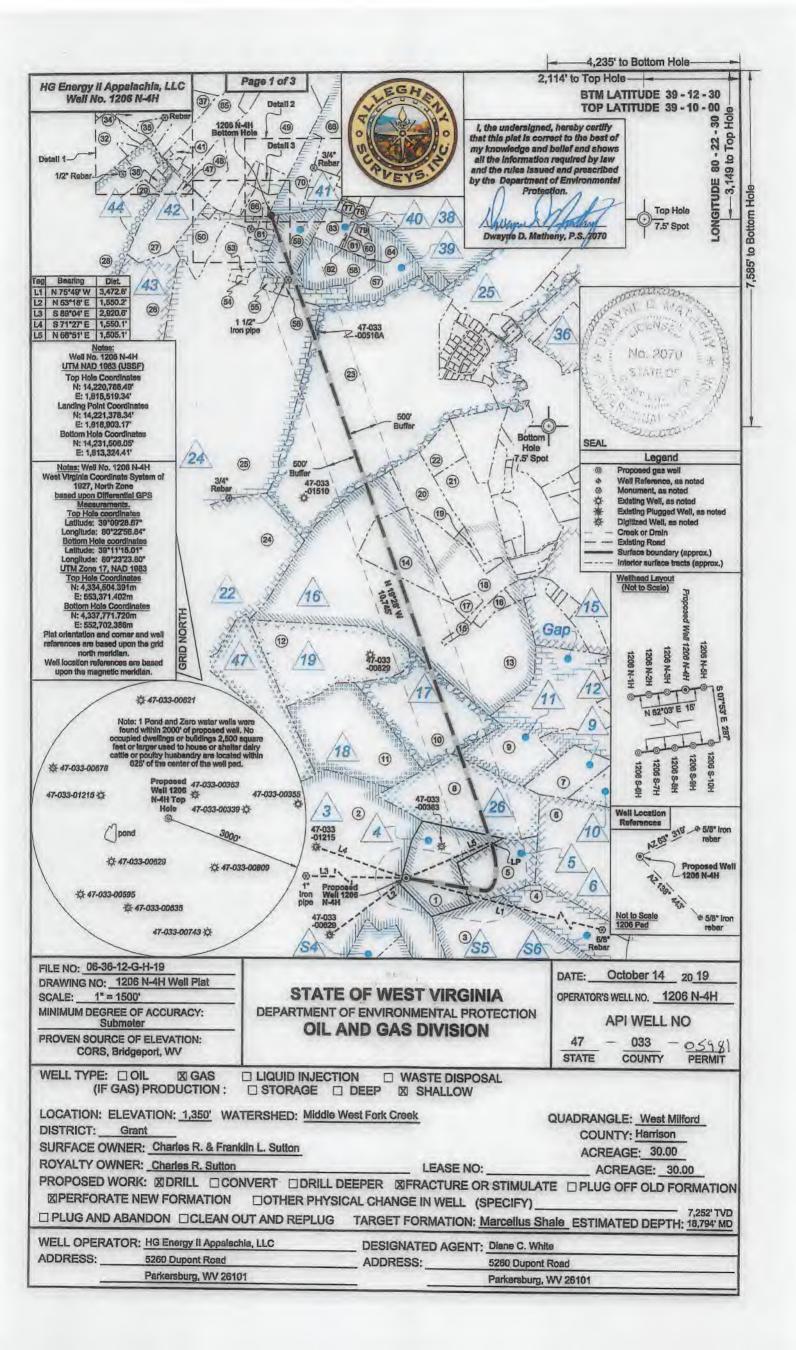
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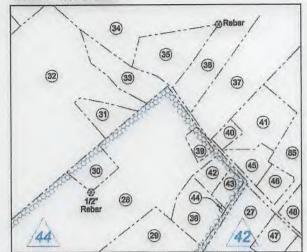




HG Energy II Appalachia, LLC Well No. 1206 N-4H

Page 2 of 3

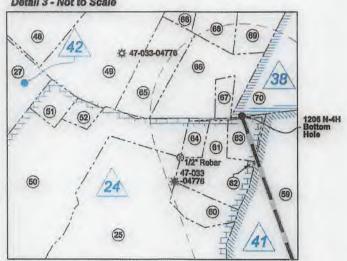
Detail 1 - Not to Scale



Detail 2 - Not to Scale



Detall 3 - Not to Scale



ID	Lease
3	C. Earl Snider, et al
4	Alton Bell, et al
- 5	Alton Bell
6	Mercelle R. Bond, et al
8	Orpha G. Davis, et al
10	Alton Bell
31	Hugh C. Davis, et al
12	Hugh C. Davis, et al
15	A.W. Smith
16	Lewis M. Stout, et al
17	Bartie E. Young, et al
18	H.D. Smith, et al
10	Suzanna D. Simmons, et al
22	Rachel S. Hershey, et al
24	Mary A. Lowiner, et al
25	Porter Maxwell, et al
26	Marcella R. Bond, et al
36	I. Wilson Swisher, et al
38	M.H. Vanhom, et ux
39	HG Energy II Appalachia, LLC
40	UNLEASED
49	M.A. Lowther, et vir
42	Hattle O. West, et al
43	Petitio Brothers, Inc.
44	Jettie Cox, et al
47	WV Division of Natural Resources
S4	Creed W. Snider, et al
55	Lloyd Stout
SS	Lillie D. Gifford, et al
	NO: 06-36-12-G-H-19

DRAWING NO: 1206 N-4H Well Plat

1" = 1500" MINIMUM DEGREE OF ACCURACY: Submeter

PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

SCALE:

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

DATE: October 14 20 19 OPERATOR'S WELL NO. 1206 N-4H API WELL NO 033 47

CORS, Bridgeport, WV		STATE	COUNTY	PERMIT
WELL TYPE: □ OIL ☑ GAS □ LIQUID INJECTION : □ STORAGE □		AL.		
LOCATION: ELEVATION: 1,350' WATERSHED: Middle W. DISTRICT: Grant SURFACE OWNER: Charles R. & Franklin L. Sutton	est Fork Creek	cour	GLE: West M NTY: Harrison EAGE: 30.00	
ROYALTY OWNER: Charles R. Sutton	LEASE NO:_	AC	REAGE: 3	0.00
PROPOSED WORK: ☑DRILL ☐ CONVERT ☐ DRILL DI ☑PERFORATE NEW FORMATION ☐ OTHER PHYSIC ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG	EEPER ØFRACTURE OR CAL CHANGE IN WELL (SP	STIMULATE PLUG	OFF OLD F	ORMATION
WELL OPERATOR: HG Energy II Appalachia, LLC ADDRESS: 5260 Dupont Road Parkersburg, WV 26101		Diene C. White 5260 Dupont Road Parkersburg, WV 26101		

Page 3 of 3

No.	TM / Par	Owner	BK/Pg	Ac.
1	428 / 72	Charles R. & Franklin L. Sutton	1301/98	30,00
2	426/71	Antonio P., LLC	1503 / 291	233.35
3	448/3	Antonio P., LLC	1503 / 291	200.00
4	446/4	Bob R. Blankenship	1310 / 740	27.67
5	426 / 73	Charles R. & Franklin L. Sutton	1301/98	22.6
6	428 / 74	Harriet June Ferres	1514 / 480	60.30
7	428 / 41	Charles R. & Franklin L. Sutton	1301 / 98	15.00
8	426 / 63	Charles R. & Franklin L. Sutton	1301/98	51.33
9	428/40	Charles R. & Franklin L. Sutton	1332 / 28	57,97
10	426 / 39	Antonia P., LLC	1503 / 291	50.00
11	428/38	Antonio P., LLC	1503 / 291	50,75
12	426/37	Antonio P., LLC	1503 / 291	54.00
13	426 / 13	Anionio P., LLC	1503 / 291	140.74
14	428/1	Antonio P., LLC	1503 / 291	20.98
15	428/14	Antania P., LLC	1503/291	1.21
16	428 / 16	Antonio P., LLC	1503 / 291	3.02
17	426/15	Antonio P., LLC	1503 / 291	3.22
18	428/2	Aniania P., LLC	1503 / 291	26.13
19	426/3	Anianio P., LLC	1503 / 291	3.00
20	406/29	Anianio P., LLC	1503 / 201	19.43
21	42614	Antanio P., LLC	1503 / 291	22.04
22	406/30	Anionio P., LLC	1503 / 291	8,416
23	406/28	Anianio P., LLC	1503 / 201	176.82
24	425/16	Antonio P., LLC	1503 / 291	122.25
25	405/82	Jim K. Stutler	1563 / 69	208.52
26	405 / 86	Anionia P., LLC	1503 / 291	33.00
27	405 / 65.1	Kermit P. & Deborah B. Stuffer	1181/306	20.65
28	405/64	Robert M. Lewis, Jr.	1518 / 814	75.286
29	405 / 64.1	Tracy L. Davis	1443 / 766	8.20
30	405 / 64,6	Edward G. Lowis (LE)	1394 / 367	0.82
31	405/51	Connia J. & Robert M. Lowis Jr.	1518 / 814	0.80
32	405/49	Connie J. & Robert M. Lewis Jr.	1221 / 898	12.12
33	405 / 52	Paul Wayne Conley, et al	WB 126/204	1.15
34	405 / 53.1	Donnie D. & Donna R. Reaser	1047 / 543	4.72
35	405/54	Justina H. Ball	WB 1887252	2.00
36	405 / 55	Justina G. & Rodney D. Ball	1067 / 404	2.08
37	405 / 56	Pamela K. Metzgar	1362 / 825	8.64
38	405 / 64.5	James B. & Darlens D. Cook	1336 / 723	1.36
39	405/64.4	W. Delma Parris	1195 / 463	0.35
40	405 / 57.1	Paul D. & Sabrina M. Skidmore	1408 / 779	0.316
41	405 / 57	Paul D. & Sabrina M. Skidmore	1408 / 779	1.00
42	405/64.2	Hollfe A. Stutler	1583 / 320	0.498
43	405/64.3	Alan R. & Judy R. Haught	1053 / 1098	0.394

No.	TM / Par	Owner	Bk/Pg	Ac.
44	405 / 64.7	Grant Union Public Service	1164 / 945	0.02
45	405 / 57.2	Patsy L. Hite	1237 / 581	0.86
46	405 / 57.6	Judith A. & David L. Corkrean	1277 / 738	0.55
47	408/85	Kermit P. & Deborah Stutler	1481/306	0.85
48	405/58	Tory J. Nicholson	1558 / 794	7.92
49	406/2	Arden L. & Wendy D. Skidmore	1397 / 26	37.78
50	405 / 82.3	Kermit P. & Daborah B. Stutter	1369 / 812	12.53
51	405 / 82.1	Arden L. & Wendy D. Skidmore	1434 / 489	0.87
52	405 / 82.2	William D. & Tabitha N. Ratiff	1503 / 389	0.48
53	408 / 82.4	Kermit P, Stutler	1458 / 110	1.20
54	406 / 82.5	Jennifer C. Stutler	1377 / 1043	0.53
55	406 / 49.1	Nina S. & David T. Mathews Sr.	1177 / 450	1,34
56	406/49	Jim K. Stutler	1583 / 89	8.03
57	406/19	Anionio P., LLC	1503 / 291	23.49
58	406 / 19.1	Hamaon County Board of Education	1240 / 27	13.91
59	408 / 17	Board of Education	816 / 523	15,94
60	408/18	Jim K. Stutler	1563 / 89	1.40
61	406 / 16.3	Jim K. Stutier	1563 / 94	2.41
62	406 / 16.4	Grant Union Public Service	1169 / 1022	0.02
63	406 / 16.2	Aaron & Carly Underwood	1588 / 1058	0.846
64	406 / 16.1	Kevin K, Stutler & Linda Queen Turner	1430 / 1191	0.52
65	406/3	Paul O. & Marilyn S. Kittle	1464 / 242	2.50
66	406/4	T. Dane Williams	1098 / 765	4.73
67	406 / 4.1	T. Dane Williams	1173 / 734	0.35
68	406 / 4.2	Roger A. & Chandra D. Harper	1624 / 239	2.00
68	406 / 4,3	Michelle J. & Christy R. Foster	1528 / 960	1.90
70	406/6	Richard K. Williams	1344 / 966	10,966
71	406 / 7	Lori E. & Jose E. Moreno	1368 / 627	1,82
72	406 / 7,10	Lori E. & Jose E. Morono	1361 / 616	1.00
73	406 / 7.5	Luarinda R. Backstead & Jo Ann Longenecket	1616 / 375	1.66
74	406 / 7.14	Mark A. Bond	1368 / 588	2.68
75	406 / 7.11	Micheel L. & Clenta V. Bond	1368 / 564	0.06
76	408 / 7.8	Michael L. & Clenta V. Bond	1331 / 616	0.36
77	406 / 7.1	Michael L. & Clenta V. Bond	1087 / 304	1,00
78	406 / 7.2	Richard A. & Wilma D. Fenstermacher	1075 / 1031	1.00
79	405 / 18.1	Bridgette A. & Richard L. Ward	1217/862	0.94
80	408 / 18.2	Bridgette A. & Richard L. Ward	1217 / 862	2.045
81	406/18	Bridgette A. & Richard L. Ward	1338 / 137	1.584
82	406 / 18.4	Bridgette A. & Richard L. Ward	1338 / 137	0.747
83	408 / 18.3	The Board of Education of Harrison County	1230 / 1024	5.00
84	408 / 18.5	Bridgette A. & Richard L. Ward	1338 / 137	0.169
85	405 / 57.3	David P. & Kelley J. Richman	1273 / 116	12.91
88	406/6	Richard K. Williams	1344 / 956	40.00

DRAWING NO: 1206 N-4H Well Plat SCALE: 1" = 1500'

MINIMUM DEGREE OF ACCURACY: Submeter

PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

DATE: October 14 20 19 OPERATOR'S WELL NO. 1206 N-4H API WELL NO - 0598) PERMIT 47 033

COUNTY

STATE

WELL TYPE: ☐ OIL ☑ GAS ☐ LIQUID INJECTION (IF GAS) PRODUCTION : ☐ STORAGE ☐		
LOCATION: ELEVATION: 1,350' WATERSHED: Middle Wood DISTRICT: Grant SURFACE OWNER: Charles R. & Franklin L. Sulton	47474474	QUADRANGLE: West Milford COUNTY: Harrison ACREAGE: 30.00
ROYALTY OWNER: Charles R. Sutton		ACREAGE: 30.00
PROPOSED WORK: MODRILL □ CONVERT □ DRILL DE MPERFORATE NEW FORMATION □ OTHER PHYSIC	CAL CHANGE IN WELL (SPECIFY)	7 252 TVD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG	TARGET FORMATION: Marcellus	Shale ESTIMATED DEPTH: 18,794'MD
WELL OPERATOR: HG Energy II Appalachia, LLC	DESIGNATED AGENT: Diane C.	White
ADDRESS: 5260 Dupont Road	ADDRESS: 5260 Dup	ont Road
Parkersburg, WV 26101	Parkersbu	irg, WV 26101

RECEIVED
Office of Oil and Gas

00 200000	39 180757	PILIGGED	1	not available	NWONXNI	Dominion Fnergy Transmission Inc.	Mary A Lowther (CW/-261)	HARRISON	4703303092	45
-80.393167	39.175796	PLUGGED	_	not available	UNKNOWN	Dominion Energy Transmission Inc.	Mary A Lowther (CW-260)	HARRISON	4703303091	44
-80.377794	39.177510	PLUGGED		not available	UNKNOWN	Dominion Energy Transmission Inc.	Dorthy S Sinclair	HARRISON	4703303014	43
-80.399236	39.179095	PLUGGED	98	not available	UNKNOWN	Dominion Energy Transmission Inc.	Carl Smith (CW-150)	HARRISON	4703302928	42
-80.399782	39.176640	PLUGGED	3187	Gas	Greenland Gap Fm	Dominion Energy Transmission Inc.	John Alvin Smith 1	HARRISON	4703302883	41
-80 379538	39.183148	ACTIVE	2048	Storage	Gantz	Dominion Energy Transmission Inc.	P Maxwell CW-348	HARRISON	4703302818	40
-80.395987	39.179068	ACTIVE	2101	Storage	Fifty-foot	Dominion Energy Transmission Inc.	J R Richards CW256	HARRISON	4703302626	39
-80.387111	39.187832	PLUGGED		not available	UNKNOWN	Spencer Enterprises	Mary A Lowther (CW-257)	HARRISON	4703302472	38
-80 397385	39.171549	ACTIVE	2000	Observation	Gantz	Dominion Energy Transmission Inc.	R S Hershey	HARRISON	4703302426	37
-80 382055	39,177871	PLUGGED	2132	Storage	Hampshire Grp	Dominion Energy Transmission Inc.	P Maxwell CW-245	HARRISON	4703302323	36
-80 387797	39.188717	ACTIVE	2346	House Gas	Hampshire Grp	Dominion Energy Transmission Inc.	Dane Williams	HARRISON	4703301696	35
-80.388015	39,175019	ACTIVE	2714	Storage	Fifth	Dominion Energy Transmission Inc.	T Pettito CW-244	HARRISON	4703301510	34
-80.387444	39.159492	ACTIVE	4661	Gas	Benson	Dominion Energy Transmission Inc.	CESnider	HARRISON	4703301215	33
-80.401080	39.191805	ACTIVE	4420	Gas	Benson	Mineral Resource Management, LLC	R M Lewis 1	HARRISON	4703300979	32
-80.391397	39.189992	PLUGGED	4526	Dry w/ Gas Show	Benson	ALAMCO, Inc.	J West 2	HARRISON	4703300935	31
-80.400218	39.185209	ACTIVE	4580	Gas	Benson	Mineral Resource Management, LLC	S S Floyd 3	HARRISON	4703300918	8
-80.377661	39.176741	ACTIVE	4520	Gas	Greenland Gap Fm	Dominion Energy Transmission Inc.	Dorothy Sinclair	HARRISON	4703300917	29
-80,393799	39.159254	ÁCTIVE	4410	Gas	Greenland Gap Fm	Dominion Energy Transmission Inc.	Hiram E Edmonds	HARRISON	4703300854	28
-80 391702	39 164846	ACTIVE	4364	Gas	Benson	Dominion Energy Transmission Inc.	Mae Gaston	HARRISON	4703300832	27
-80.384254	39 168042	ACTIVE	2490	Storage	Fourth	Dominion Energy Transmission Inc.	A W Smith	HARRISON	4703300829	26
-80.388510	39.168004	ACTIVE	4660	Gas	Benson	Dominion Energy Transmission Inc.	A W Smith	HARRISON	4703300828	25
-80.394379	39.159502	ACTIVE	1881	Storage	Fifty-foot	Dominion Energy Transmission Inc.	H T Edwards CW236	HARRISON	4703300825	24
-80.381490	39 169821	ACTIVE	4553	Gas	Benson	Dominion Energy Transmission Inc.	Lewis M Stout	HARRISON	4703300823	23
-80.378750	39,155225	PLUGGED	4793	not available	Mid Devonian	Dominion Energy Transmission Inc.	Lloyd Stout CW234	HARRISON	4703300809	22
-80 387380	39 171363	PLUGGED	2250	Storage	Greenland Gap Fm	Dominion Energy Transmission Inc.	L M Stout CW243	HARRISON	4703300781	21
-80 382784	39 182072	ACTIVE	4600	Gas	Benson	Dominion Energy Transmission Inc.	W B & P Maxwell	HARRISON	4703300775	20
-80.378760	39 169307	ACTIVE	2080	Observation	Hampshire Grp	Dominion Energy Transmission Inc.	Petito Brothers	HARRISON	4703300768	19
-80.395928	39.158092	PLUGGED	1910	Storage	Fifty-foot	Dominion Energy Transmission Inc.	A C Thrash CW235	HARRISON	4703300724	18
-80.392280	39 180897	ACTIVE	4510	Gas	Benson	Dominion Energy Transmission Inc.	Mary A Lowther	HARRISON	4703300714	17
-80.393813	39 172871	ACTIVE	4585	Gas	Benson	Dominion Energy Transmission Inc.	Rachel S Hershey	HARRISON	4703300713	16
-80.391133	39.171410	ACTIVE	2297	Storage	Greenland Gap Fm	Dominion Energy Transmission Inc.	R S Hersey CW242	HARRISON	4703300682	15
-80.389720	39.161099	ACTIVE	2264	Storage	Greenland Gap Fm	Dominion Energy Transmission Inc.	C E Snider CW238	HARRISON	4703300678	14
-80.391075	39.159653	ACTIVE	2301	Storage	Fifty-foot	Dominion Energy Transmission Inc.	G W Conley CW632	HARRISON	4703300658	13
-80.394798	39.157187	PLUGGED	2140	Storage	Fifty-foot	Dominion Energy Transmission Inc.	R Bartlett CW628	HARRISON	4703300652	12
-80 386677	39 155591	ACTIVE		Storage	Thirty-foot	Dominion Energy Transmission Inc.	C Earl Snider	HARRISON	4703300629	11
-80.401465	39.178420	ACTIVE	2010	Gas	Big Injun (Grnbr)	Antero Resources Corporation	Carl Smith 2	HARRISON	4703300625	10
-80 384332	39 165178	ACTIVE	4575	Gas	Greenland Gap Fm	Dominion Energy Transmission Inc.	Young & Smith	HARRISON	4703300621	9
-80,401302	39 178483	ACTIVE	4538	Gas	Benson	Antero Resources Corporation	Carl Smith 2	HARRISON	4703300608	œ
-80.389064	39.153667	ACTIVE	4620	Gas	Benson	Dominion Energy Transmission Inc.	C E Snider	HARRISON	4703300595	7
-80.398451	39 167358	ACTIVE	4461	Gas	Greenland Gap Fm	Dominion Energy Transmission Inc.	Petitto Brothers Inc	HARRISON	4703300588	01
-80.381243	39.158029	PLUGGED	2150	Storage	Thirty-foot	Dominion Energy Transmission Inc.	A Bell	HARRISON	4703300363	5
-80.376303	39.163566	PLUGGED	2210	Dry w/ Gas Show	Thirty-foot	Dominion Energy Transmission Inc.	A J Randolph	HARRISON	4703300362	4
-80.372289	39 158947	ACTIVE	4290	Storage	Greenland Gap Fm	Dominion Energy Transmission Inc.	Fred H Smith	HARRISON	4703300355	3
-80.376279	39.158620	ACTIVE	1959	Storage	Gantz	Dominion Energy Transmission Inc.	Alton Bell CW-333	HARRISON	4703300339	2
-80.399969	39.169238	PLUGGED	2050	Storage	Fifty-foot	Dominion Energy Transmission Inc.	C H Gaston 2 CW136	HARRISON	4703300300	Ţ.
LONGITUDE	LATITUDE	STATUS	TVD	WELL TYPE	FORMATION NAME	OPERATOR NAME	FARM	COUNTY	AA/TAPI	CI
		N-6H	V-5H and	H, N-3H, N-4H, N-5H and N-6H	IIT AND PROPOSED WELLS N-1H, N-2H, N-	ANTONIO 1206 NORTH UNIT AND PROPOSED WELLS N-1H, N-2H,	ANTONIO 120		OLO TE O TOTA	U
				VV J CA.	COLUMN TO THE PARTY OF THE PART	100 100 100 100 100 100 100 100 100 100				

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PECEIVED
Office of Oil and Gas

SOURCE: WVGES DATASET (2017) and WVDEP WEBSITE

Environmental Protection **WV Department of** 

55 4703305031 HARRISON Robert M Lewis 52 50 53 4703304776 4703304838 4703304777 4703303093 4703303568 4703303094 4703303577 4703303365 4703303458 HARRISON Jim K & Betty L Stutler HARRISON HARRISON Mary A Lowther (CW-262) HARRISON Carol Daugherty-Skidmore HARRISON Byron Construction Co HARRISON Carl V Smith Jr 4 HARRISON HARRISON HARRISON Carol Daugherty-Skidmore Carl Smith Mary A Lowther (CW-259) Ted/B Wilfong Dominion Energy Transmission Inc. Ross & Wharton Gas Co. Inc. Dominion Energy Transmission Inc. Alliance Petroleum Corporation Antero Resources Corporation Dominion Energy Transmission Inc.

Dominion Energy Transmission Inc. Dominion Energy Transmission Inc. Ross & Wharton Gas Co. Inc. Dominion Energy Transmission Inc. Greenland Gap Fm Greenland Gap Fm Greenland Gap Fm Greenland Gap Fm Hampshire Grp UNKNOWN UNKNOWN UNKNOWN UNKNOWN Benson not available not available not available not available Storage Gas Gas Gas Gas Gas 4550 2292 2400 5024 4813 4575 5018 PLUGGED PLUGGED PLUGGED PLUGGED PLUGGED ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE 39.185657 39.182204 39.181950 39.188870 39.178462 39.176248 39.188534 GREEN DENOTES SURVEYED WELLS 39.186354 39,186628 39.192332

-80,402884 -80,392055

-80 407701

-80 391066 -80.387363 -80 391401 -80 395739

-80,404970

-80,405388 -80.385247



October 9, 2019

Mineral Resource Management, LLC P. O. Box 603 Jane Lew, WV 26378

RE:

Area of Review – Antonio 1206 Well Pad (N-1H to N-8H, S9H – S10H)

Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, has developed a Marcellus pad (Antonio 1206 pad) located in Harrison County, WV. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7252' TVD) and existing conventional natural gas wells.

HG Energy anticipates conducting hydraulic fracturing of the Nutter 1208 Pad during the fourth quarter of 2020. We have identified conventional natural gas wells operated by your company within 500' of one of the newly planned laterals. A plat for the well is attached.

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

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

- 2. Observe wells closely during and after fracturing and monitor for abnormal increases in gas, water or pressure.
- 3. Inspect or install master valves rated at 3,000 psi or other necessary equipment for wellhead integrity.
- 4. Notify the OOG and HG Energy if any changes in water, gas production, pressure or other anomalies are identified.

Should you have any questions or desire further information, please contact me at 304-420-1119 or <a href="mailto:dwhite@hgenergyllc.com">dwhite@hgenergyllc.com</a>. You may also contact the WV Office of Oil and Gas at 304-926-0444.

Sincerely,

Diane White

Diane White

Enclosure

WV Department of Environmental Protection

DEC 0 4 5019

Offlice of Oil and Gas



October 9, 2019

ALAMCO, Inc P. O. Box 6070 Charleston, WV 25302

RE:

Area of Review – Antonio 1206 Well Pad (N-1H to N-8H, S9H – S10H)

Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, is developing a Marcellus pad (Antonio 1206 pad) located in Harrison County, WV. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in this matter

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HG Energy anticipates conducting hydraulic fracturing of the Antonio 1206 Pad during the fourth quarter of 2020. We have identified conventional natural gas wells operated by your company within 500' of one of the newly planned laterals. A plat for the well is attached.

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Sincerely,

Diane White

Diane White

Enclosure

WV Department of Environmental Protection

DEC 0 4 5018

PECEIVED Gas



October 9, 2019

Spencer Enterprises P. O. Box 143 Smithburg, WV 26436

RE:

Area of Review - Antonio 1206 Well Pad (N-1H to N-8H, S9H - S10H)

Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, has developed a Marcellus pad (Antonio 1206 pad) located in Harrison County, WV. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in this matter.

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Sincerely,

Diane White

Diane White

Enclosure

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Office of Oil and Gas

₩ DEC 0 4 2019



October 9, 2019

Alliance Petroleum Company 101 McQuiston Drive Jackson Center, PA 16133

RE:

Area of Review – Antonio 1206 Well Pad (N-1H to N-8H, S9H – S10H)

Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, is developing a Marcellus pad (Antonio 1206 pad) located in Harrison County, WV. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in this matter.

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Sincerely,

Diane White

Diane White

Enclosure

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Office of Oil and Gas

DEC 0 4 2019



October 9, 2019

Ross & Wharton Gas Co., Inc. 29 Morton Street Buckhannon, WV 26201

RE:

Area of Review – Antonio 1206 Well Pad (N-1H to N-8H, S9H – S10H)

Hydraulic Fracturing Notice

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

Should you have any questions or desire further information, please contact me at 304-420-1119 or <a href="mailto:dwhite@hgenergyllc.com">dwhite@hgenergyllc.com</a>. You may also contact the WV Office of Oil and Gas at 304-926-0444.

Sincerely,

Diane White

Diane White

Enclosure

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Office of Oil and Gas

DEC 0 4 2019



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

October 9, 2019

Dominion Energy Transmission, Inc. 925 White Oaks Blvd Bridgeport, WV 26330

RE:

Area of Review - Antonio 1206 Well Pad (N-1H to N-8H, S9H - S10H)

Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, is developing a Marcellus pad (Antonio 1206 pad) located in Harrison County, WV. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7252' TVD) and existing conventional natural gas wells.

HG Energy anticipates conducting hydraulic fracturing of the Antonio 1206 Pad during the fourth quarter of 2020. We have identified conventional natural gas wells operated by your company within 500' of one of the newly planned laterals (Antonio 1206 laterals). A plat for the well is attached.

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

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

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

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Sincerely, Diane White

Diane White

Enclosure

RECEIVED
Office of Oil and Gas

DEC 0 4 2019



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

October 9, 2019

Antero Resources 535 White Oaks Blvd Bridgeport, WV 26330

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Sincerely, Diane White

Diane White

Enclosure

RECEIVED
Office of Oil and Gas

DEC 0 4 2019

#### 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

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Office of Oil and Gas

\*\*See Attached Sheets\*\*

DEC 0 4 2019

WV Department of Environmental Protection

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

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

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

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

Well Operator: HG Energy II Appalachia, LLC

By: Diane White Diane White

Its: Accountant

Page 1 of \_\_\_\_

# HG Energy II Appalachia, LLC Antonio 1206 N-4H Lease Chains

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	Q100876000	Q100892000	LEASE NUMBER
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ASSIGNMENT	MERGER/NAME CHANGE	ASSIGNMENT	PARTIAL ASSIGNMENT (32%)	LIMITED PARTIAL ASSIGNMENT (50%)	FARMOUT AGREEMENT	EIRST AMENDAGENT TO MENAORANDI IN OF	MERGER/NAME CHANGE	MERGER/NAME CHANGE	ASSIGNMENT	CONFIRMATORY DEED	NOT LESS THAN 1/8			FARMOUT AGREEMENT	MERGER/NAME CHANGE	ASSIGNMENT	ASSIGNMENT	PARTIAL ASSIGNMENT (32%)	LIMITED PARTIAL ASSIGNMENT (50%)	MEMORANDUM FARMOUT AGREEMENT	MERGER/NAME CHANGE	MERGER/NAME CHANGE	ASSIGNMENT	NOT LESS THAN 1/8		CONFIRMATORY DEED	NOT LESS THAN 1/8					FARMOUT AGREEMENT	THIRD AMENDMENT TO MEMORANDUM OF	FARMOUT AGREEMENT	SECOND AMENDMENT TO MEMORANDUM OF	MERGER/NAME CHANGE	ASSIGNMENT	ASSIGNMENT	PARTIAL ASSIGNMENT (32%)	LIMITED PARTIAL ASSIGNMENT (50%)	FARMOUT AGREEMENT	
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692		942	125	1235	491	S.	362	267	250	250	80			581		692	942	125	1235	33	362	795	250	603		179	71					1295		581			692	942	125	1235	491	

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1601	FARMOUT AGREEMENT	HG ENERGY II APPALACHIA. LLC	DOMINION ENERGY TRANSMISSION INC			
1601	THIRD AMENDMENT TO MEMORANDIM OF	ng enengi ii affadachia; etc	DOMINION ENERGY TRANSMISSION, INC.			
	SECOND AMENDMENT TO MEMORANDUM OF					
WVSOS	MERGER/NAME CHANGE	DOMINION ENERGY TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.	12-406A-0041-0000		
1600	ASSIGNMENT	HG ENERGY II APPALACHIA, LLC	NOBLE ENERGY, INC.	12-406A-0001-0000 through		
1584	ASSIGNMENT	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	and		
1576	PARTIAL ASSIGNMENT (32%)	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	DOMINION TRANSMISSION, INC.	12-0406-0028-0000		
1543	LIMITED PARTIAL ASSIGNMENT (50%)	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	12-0406-0025-0000		
1524	FARMOUT AGREEMENT	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	12-0406-0021-0008		
	FIRST AMENDMENT TO MEMORANDUM OF			12-0406-0021-0007	LC052223	25
1522	MEMORANDUM OF FARMOUT AGREEMENT	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	_		)
58	MERGER/NAME CHANGE	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	12-0406-0021-0005		
51	MERGER/NAME CHANGE	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	12-0406-0021-0004		
1136	ASSIGNMENT	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	12-0406-0021-0003		
903	CONFIRMATORY DEED	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATURAL GAS COMPANY	12-0406-0021-0002		
504	ASSIGNMENT	HOPE NATURAL GAS COMPANY	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	12-0406-0021-0001		
236	ASSIGNMENT	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	12-0406-0021-0000		
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1/5	NOI LESS IHAN 1/8	JOHN C. CHIDESTER	AXWELL AND LILLIE J. MAXWELL, HUSBAND AND WIFE			
477	100 1100 1100 100		HUSBAND AND WIFE;	Environmental Protection		
1621	FARMOUT AGREEMENT	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.	W/V Department or		
	THIRD AMENDMENT TO MEMORANDUM OF					
1601	FARMOUT AGREEMENT	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.	UEU 04 KU19		
	SECOND AMENDMENT TO MEMORANDUM OF					
WVSOS	MERGER/NAME CHANGE	DOMINION ENERGY TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.			
1600	ASSIGNMENT	HG ENERGY II APPALACHIA, LLC	NOBLE ENERGY, INC.	Office of Oil and Gas		
1584	ASSIGNMENT	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	0/0 1Z-04Z0-001Z000Z01ED		
1576	PARTIAL ASSIGNMENT (32%)	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	DOMINION TRANSMISSION, INC.	12-0426-0017 0000		
1543	LIMITED PARTIAL ASSIGNMENT (50%)	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	12 0426 0045 0000		
1524	FARMOUT AGREEMENT	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	12 0426 0015 0000		
	FIRST AMENDMENT TO MEMORANDUM OF			_	LC080/24	D
1522	MEMORANDUM FARMOUT AGREEMENT	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	12-0426-0004-0000	1,5050371	16
58	MERGER/NAME CHANGE	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	5/5 13-0435-0004-0000		
51	MERGER/NAME CHANGE	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	12-0426-0003-0000		
1136	ASSIGNMENT	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	n/o 12-0426-0002-0000		
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902	NOT LESS THAN 1/8	HOPE NATURAL GAS COMPANY	WIFE; AND LLOYD A. STOUT AND RUTH REEDER STOUT, HIS WIFE			
80	NOT LECCTLAN 1 /o	TOOT NATION OAS OOMBANK				
LEWIS 736	PARTIAL ASSIGNMENT (68%)	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.			
1621	FARMOUT AGREEMENT	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.			0
F 1601	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.			
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	MEMORANDUM FARMOUT AGREEMENT	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	12-0406-0007-0008	· ·		
	MERGER/NAME CHANGE	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	12-0406-0007-0007			
51 795	MERGER/NAME CHANGE	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	12-0406-0007-0006			
	ASSIGNMENT	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	12-0406-0007-0005	е.		
1046 1003	DEED	CONSOLIDATED GAS SUPPLY CORPORATION	COLUMBIA GAS TRANSMISSION CORPORATION	12-0406-0007-0004			
	QUITCLAIM DEED	COLUMBIA GAS TRANSMISSION CORPORATION	CUMBERLAND AND ALLEGHENY GAS COMPANY	12-0406-0007-0003	-		
	DEED	CUMBERLAND AND ALLEGHENY GAS COMPANY	WEST VIRGINIA CENTRAL GAS COMPANY	12-0406-0007-0002			
	DEED	CONSOLIDATED NATURAL GAS COMPANIES OF WEST VIRGINIA	WEST VIRGINIA CENTRAL GAS COMPANY	12-0406-0007-0001			
140	ASSIGNMENT	WEST VIRGINIA CENTRAL GAS COMPANY	EASTERN OIL COMPANY	12-0406-0006-0000	<u>.</u>		
	NOT LESS THAN 1/8	EASTERN CIE COMPANY	W. B. VAN HORN AND ELSIE M. VAN HORN, HIS WIFE	12-0406-0005-0000			
		CACTED OF COMPANY					
	68%)	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.			_	
1601 581	FARMOUT AGREEMENT	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.	_			
	SECOND AMENDMENT TO MEMORANDUM OF						
1600 692	ASSIGNMENT	HG ENERGY II APPALACHIA, LLC	NOBLE ENERGY, INC.				
WVSOS	MERGER/NAME CHANGE	DOMINION ENERGY TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.			_	
1584 942	ASSIGNMENT	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC				
1576 125	PARTIAL ASSIGNMENT (32%)	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	DOMINION TRANSMISSION, INC.				
1543 1235	LIMITED PARTIAL ASSIGNMENT (50%)	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	12-0406-0017-0000 Q100580000	LC071020   12	LCC	41
	FARMOUT AGREEMENT	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.			_	
	FIRST AMENDMENT TO MEMORANDUM OF			_		_	
1522	MEMORANDUM OF FARMOUT AGREEMENT	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	Environmental Protection		_	
58 362	MERGER/NAME CHANGE	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	WV Department of		_	
	MERGER/NAME CHANGE	CNG TRANSMISSION CORPORATION	CONSCLIDATED GAS TRANSMISSION CORPORATION			_	
	ASSIGNMENT	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	000	1		
985	NOT LESS THAN 1/8	CONSOLIDATED GAS SUPPLY CORPORATION	MARY ANNE LOWTHER AND E. J. LOWTHER, HER HUSBAND	DEC 0 4 2010			
1627 1254	MINERAL DEED	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.				
	FARMOUT AGREEMENT	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.	Office of Oil and Gas			
	THIRD AMENDMENT TO MEMORANDUM OF			P HECHVEU	_		
1601 581	FARMOUT AGREEMENT	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.	And the Control of th	1		
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WVSOS	MERGER/NAME CHANGE	DOMINION ENERGY TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.	12-0406-0019-0000	12		
	ASSIGNMENT	HG ENERGY II APPALACHIA, LLC	NOBLE ENERGY, INC.				
1584 942	ASSIGNMENT	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC				
1543 1235	LIMITED PARTIAL ASSIGNMENT (50%)	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC				
1551 969	NOT LESS THAN 1/8	CNX GAS COMPANY LLC AND NOBLE ENERGY, ING	DOMINION TRANSMISSION, INC.		1		
1621 1295	FARMOUT AGREEMENT	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.				
1001	THIRD AMENDMENT TO MEMORANDIIM OF	HG ENERGY II APPALACHIA, LLC	DOMINION TRANSMISSION, INC.				9
	SECOND AMENDMENT TO MEMORANDUM OF			12-040-0010-0004			1
WVSOS	MERGER/NAME CHANGE	DOMINION ENERGY TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.	13 0406 0016-0003	12		(40%)
1600 692	ASSIGNMENT	HG ENERGY II APPALACHIA, LLC	NOBLE ENERGY, INC.	0.010E-0010E-0002	12		
	ASSIGNMENT	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	12 0406 0016 0002	1.7		1 3
	PARTIAL ASSIGNMENT (32%)	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	DOMINION TRANSMISSION, INC.	12-0406-0016-0000	12		
	LIMITED PARTIAL ASSIGNMENT (50%)	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	13 006 0016 0000 Q101123000	LC068558 12	LCC	24
	FARMOUT AGREEMENT	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	12-0406-0049-0000,	.12		0
77CT	FIRST AMENDMENT TO MEMORANDI IM OF	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	12-0405-0082-0002	12		1
30 302	MERGER/NAME CHANGE	DOWINION IRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	12-0405-0082-0001	12		75
	WENGEN/WAIVE CHANGE	CNG IRANSVISSION CONFORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	12-0405-0082-0000			
51 795	MERGER /NAME CHANGE	CONSCIDENT CORPORATION CONFORMATION	CONSOLIDATED GAS SUPPLY CURPURATION				

	12-0406-0007-0017 12-0406-0007-0018 12-0406-0007-0019 12-0406-0007-0020	12-0406-0007-0017 12-0406-0007-0018 12-0406-0007-0019	12-0406-0007-0017 12-0406-0007-0018				12-0406-0007-0017 12-0406-0007-0018	12-0406-0007-0017 12-0406-0007-0018	12-0406-0007-0017 12-0406-0007-0018 12-0406-0007-0019	12-0406-0007-0017 12-0406-0007-0018 12-0406-0007-0019 12-0406-0007-0020	12-0406-0007-0017 12-0406-0007-0018 12-0406-0007-0019 12-0406-0007-0020	12-0406-0007-0017 12-0406-0007-0018 12-0406-0007-0019 12-0406-0007-0020	12-0406-0007-0017 12-0406-0007-0018 12-0406-0007-0019 12-0406-0007-0020	12-0406-0007-0017 12-0406-0007-0018 12-0406-0007-0019 12-0406-0007-0020	12-0406-0007-0017 12-0406-0007-0018 12-0406-0007-0019 12-0406-0007-0020 12-0406-0008-0000	12-0406-0007-0017 12-0406-0007-0018 12-0406-0007-0019 12-0406-0007-0020 12-0406-0008-0000	12-0406-0007-0017 12-0406-0007-0018 12-0406-0007-0019 12-0406-0007-0020 12-0406-0008-0000								
DOMINION I KANSMISSION, INC.  DOMINION ENERGY TRANSMISSION, INC.  DOMINION ENERGY TRANSMISSION, INC.	MINION ENERGY TRANSMISSION, INC.	MINION ENERGY TRANSMISSION, INC.	MINION FRIEDRY TRANSPORTED INC.	VINION I RANSIVISSION, INC.	VINION I RANSIVISSION, INC.	VINION IRANSVISSION, INC.	MINION FRANSKISSION, INC.	MINION FRANKFISSION, INC.	MINION ENERGY TRANSMISSION, INC.	VIINION ENERGY TRANSMISSION, INC.	VIINION ENERGY TRANSMISSION, INC.	VINION ENERGY TRANSMISSION, INC.	MINION ENERGY TRANSMISSION, INC.	MINION ENERGY TRANSMISSION, INC.	VIINION ENERGY TRANSMISSION, INC.	VIINION ENERGY TRANSMISSION, INC.	VIINION ENERGY TRANSMISSION, INC.	VIINION ENERGY TRANSMISSION, INC.	MINION ENERGY TRANSMISSION, INC.	MINION ENERGY TRANSMISSION, INC.	MINION ENERGY TRANSMISSION, INC.	MINION ENERGY TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.  DOMINION ENERGY TRANSMISSION, INC.	MINION ENERGY TRANSMISSION, INC. MINION ENERGY TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.  DOMINION ENERGY TRANSMISSION, INC.  DOMINION ENERGY TRANSMISSION, INC.

CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.

PARTIAL ASSIGNMENT (32%)

1524 1543 1576 1584 WVSOS 1600

491 1235 125 942

LIMITED PARTIAL ASSIGNMENT (50%)

FARMOUT AGREEMENT

ASSIGNMENT

MERGER/NAME CHANGE

**WVSOS** 

692

1601

581

MERGER/NAME CHANGE

ASSIGNMENT

FIRST AMENDMENT TO MEMORANDUM OF

NOBLE ENERGY, INC. CNX GAS COMPANY LLC

HG ENERGY II APPALACHIA, LLC

HG ENERGY II APPALACHIA, LLC

SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT

THIRD AMENDMENT TO MEMORANDUM OF

PARTIAL ASSIGNMENT (68%)

1621 LEWIS 736

1295 220

ARMOUT AGREEMENT

DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC

RECEIVED
Office of Oil and Gas

DEC 0 4 2019 Environmental Protection WV Department of



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

October 23, 2019

RECEIVED Office of Oil and Gas

Laura Adkins WV DEP Division of Oil & Gas 601 57th Street Charleston, WV 25304 DEC 0 4 2019

WV Department of Environmental Protection

RE:

Drilling Under Roads - Antonio 1206 N-4H

Grant District, Harrison County

West Virginia

Dear Ms. Adkins:

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

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

Very truly yours,

Diane White

Diane C. White

**Enclosures** 

4703.03001

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS $\frac{\text{NOTICE CERTIFICATION}}{\text{NOTICE CERTIFICATION}}$

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Form below for the tract of land as follows:  State: West Virginia County: Harrison District: Grant Quadrangle: West Millord Watershed: Middle West Fork Creek  Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this artiof giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of sec of this article have been completed by the applicant.  Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  **PLEASE CHECK ALL THAT APPLY**  1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED  3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED  WRITTEN WAIVER BY SURFACE OWNER	Date of Notic	e Certification: 11/21/2019		API No. 47	7	
Notice has been given:  Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Form below for the tract of land as follows:  State:  West Virginia  County:  Harrison  District:  Grant  Quadrangle:  West Milford  Watershed:  Middle West Fork Creek  Public Road Access:  Generally used farm name:  Public Road Access:  Generally used farm name:  Public Road Access  Generally used farm name:  Public Road Access  Fork Oreek Road  Antonio  Antonio  Antonio  Antonio  Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed safisfied as of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  **Pulsase CHECK ALL THAT APPLY**  1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  **PLEASE CHECK ALL THAT APPLY**  1. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF NOT REQUIRED  **PROPERTY FOR PLAT SURVEY OR NOTICE NOT REQUIRED BECAUSE NOTICE OF RECEIVED/NOT REQUIRED  **PROPERTY FOR PLAT SURVEY WAS CONDUCTED NOTICE NOT REQUIRED BECAUSE NOTICE OF RECEIVED/NOT REQUIRED  **PROPERTY FOR PLAT SURVEY WAS CONDUCTED NOTICE NOT REQUIRED BECAUSE NOTICE OF SEISMIC ACTIVITY WAS CONDUCTED NOTICE NOT REQUIRED BECAUSE NOTICE				Operator's	Well No. Anto	nio 1206 N-4H
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below for the tract of land as follows:  State: West Virginia  County: Harrison  District: Grant  Quadrangle: West Milford  Watershed: Middle West Fork Creek  Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this artiformation required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article were waived in writing by the surface owner; and Pursuant Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of sec of this article have been completed by the applicant.  Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  **PLEASE CHECK ALL THAT APPLY**  1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  **PLEASE CHECK ALL THAT APPLY**  1. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED  3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR RECEIVED/NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR WRITTEN WAIVER BY SURFACE OWNER						
State:	ursuant to the	e provisions in West Virginia Code	§ 22-6A, the Operator has pro	vided the red	quired parties v	vith the Notice Forms list
County: Harrison District: Grant Quadrangle: West Milford Watershed: Middle West Fork Creek Watershed: Middle West Fork Creek Watershed: Middle West Fork Creek Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator in the prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator in the prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator in the prescribed by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner, and Pursuant Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of sec of this article have been completed by the applicant.  Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  **PLEASE CHECK ALL THAT APPLY*  1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NOTICE UNITY ON TREQUIRED  **PLEASE CHECK ALL THAT APPLY*  1. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED  1. RECEIVED NOT REQUIRED  1. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER				T		
District: Grant Quadrangle: West Milford Generally used farm name: Generally used farm name: Antonio  Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator in has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of sec of this article have been completed by the applicant.  Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  **PLEASE CHECK ALL THAT APPLY**  1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED  3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR NOT REQUIRED BECAUSE NOTICE NOT REQUIRED BECA			UTM NAD 83			
Quadrangle: West Milford			Dublic Pood Acc	_		One als Decad
Watershed: Middle West Fork Creek  Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this articlinformation required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of sec of this article have been completed by the applicant.  Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  **PLEASE CHECK ALL THAT APPLY  1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED  3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED RECEIVED/NOT REQUIRED NOT REQUIRED NOT REQUIRED SECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED RECEIVED/NOT REQUIRED SECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR		And the second s			-	Сгеек Коао
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SEISMIC ACTIVITY WAS CONDUCTED  ONOT REQUIR  2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED  OR NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or  WRITTEN WAIVER BY SURFACE OWNER  INCOMPTS NOT REQUIRED RECEIVED NOT REQUIRED NOT REQ	that the Oper	rator has properly served the require	perator has attached proof to t ed parties with the following:	his Notice C	ertification	OOG OFFICE USE ONLY
■ 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER	☐ 1. NOT	TICE OF SEISMIC ACTIVITY or	7			☐ RECEIVED/ NOT REQUIRED
NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or  WRITTEN WAIVER BY SURFACE OWNER	■ 2. NOT	TICE OF ENTRY FOR PLAT SUR	VEY or D NO PLAT SURV	EY WAS CO	ONDUCTED	RECEIVED
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(PLEASE ATTACH)			☐ WRITTEN WAIVER : (PLEASE ATTACH)		CE OWNER	
■ 4. NOTICE OF PLANNED OPERATION RECEIVED	■ 4. NOT	TICE OF PLANNED OPERATION	HEDEIVED			RECEIVED
■ 5. PUBLIC NOTICE Office of Oil and Gas	5. PUB	ELIC NOTICE		•		☐ RECEIVED
■ 6. NOTICE OF APPLICATION ■ DEC 0 4 2019 □ RECEIVED	■ 6. NOT	TICE OF APPLICATION				☐ RECEIVED
WV Department of Environmental Protection						

#### **Required Attachments:**

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

WW-6AC (1/12)

4700 03991

#### Certification of Notice is hereby given:

Well Operator:HG II Appalachia, LLCAddress:5260 Dupont RoadBy:Diane White Diane White Diane WhiteParkersburg, WV 26101Its:AgentFacsimile:304-863-3172Telephone:304-420-1119Email:dwhite@hgenergyllc.com



Subscribed and sworn before me this 21st day of November, 2019

Notary Public My Commission Expires 7(31)2022

#### Oil and Gas Privacy Notice:

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

RECEIVED
Office of Oil and Gas

WEC 0 4 2019

☐ SURFACE OWNER(s) (Impoundments or Pits)

Name: See Above

Address:

API NO. 47-OPERATOR WELL NO. 1206 N-4H Well Pad Name: Antonio 1206

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 11/13/19 Date Permit Application Filed: 11/18/19 Notice of: ✓ PERMIT FOR ANY ☑ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) PERSONAL ☐ REGISTERED ☑ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION **SERVICE** MAIL. Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to: ☐ COAL OWNER OR LESSEE ☐ SURFACE OWNER(s) RECEIVED Name: Antonio PLLC, c/o Mike Ross Name: Antonio PLLC, c/o Mike Ross Office of Oil and Gas Address: P. O. Box 219 Address: P. O. Box 219 Coalton, WV 26257 Coalton, WV 26257 DEC 04 2019 Name: Charles R. Sutton ☐ COAL OPERATOR Address: 593 Long Run Road Name: WV Department of Lost Creek, WV 26385 Address: ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) Environmental Protection ☐ SURFACE OWNER OF WATER WELL Name: See Above Address: AND/OR WATER PURVEYOR(s) Name: Name: Address: Address: ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: Dominion Energy Transmission, Inc. Attn: Ron Walden

925 White Oaks Blvd

Bridgeport, WV 26330
\*Please attach additional forms if necessary

Address:

API NO. 47OPERATOR WELL NO. 1206 N-4H
Well Pad Name: Antonio 1206

#### Notice is hereby given:

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

#### This Notice Shall Include:

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

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

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

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

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

#### Well Location Restrictions

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

WW-6A (8-13) API NO. 47-\_

OPERATOR WELL NO. 1206 N-4H

Well Pad Name: Antonio 1206

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

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

DEC 0 4 2019

WV Department of

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.

#### Time Limits and Methods for Filing Comments.

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

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

#### **Comment Requirements**

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

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

#### **Permit Denial or Condition**

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

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

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

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

RECEIVED
Office of Oil and Gas

DEC 0 4 2019

API NO. 47<sup>2</sup> OPERATOR WELL NO. 1206 N-4H
Well Pad Name: Antonio 1206

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

Telephone: 304-420-1119

Email: dwhite@hgenergyllc.com Quare White

Address: 5260 Dupont Road

Parkersburg, WV 26101

Facsimile: 304-863-3172

Oil and Gas Privacy Notice:

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



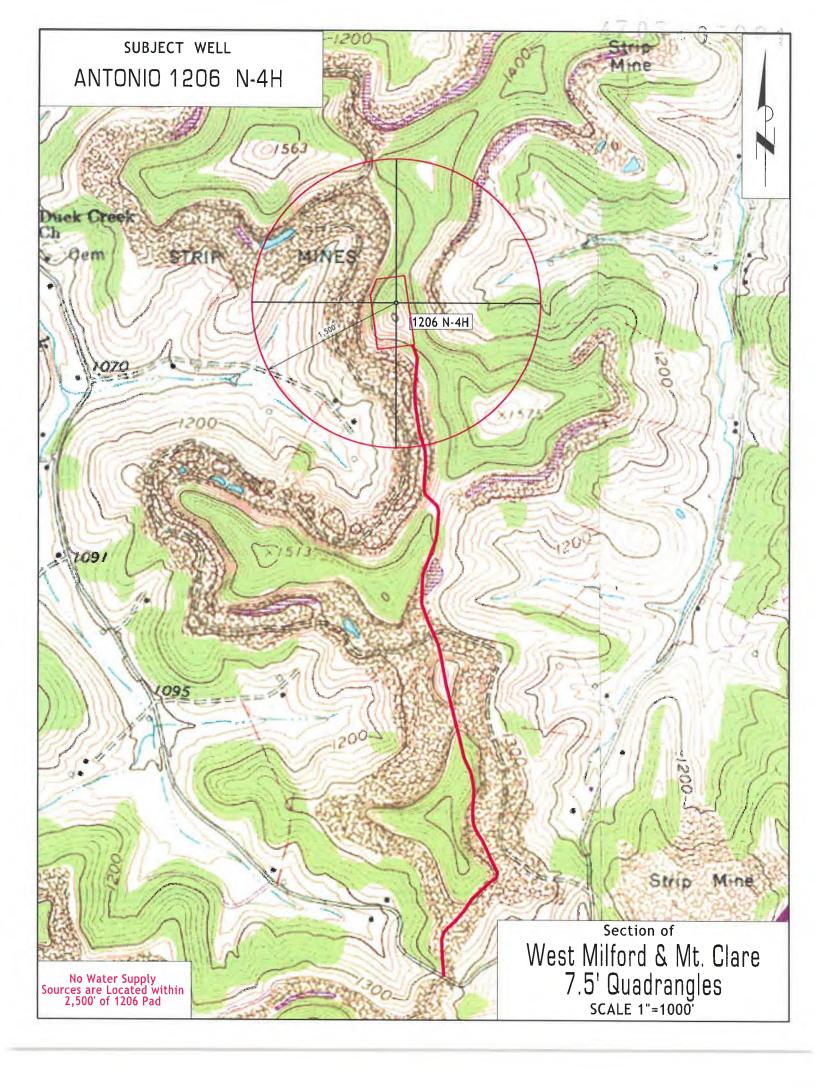
Subscribed and sworn before me this 9th day of October, 2019

Notary Public

My Commission Expires 4/2/2021

Office of Oil and Gas

DEC 04 2019



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

Address:  *please attach additional forms if necessary  Notice is hereby given:  Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:  State:  West Virginia  Approx. Latitude & Longitude:  State:  Public Road Access:  Fig.  Middle West Fork Creek	Notice Time Rentry  Date of Notice		ided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to ned Entry: 9/19/19
Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner or fiminerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.  Notice is hereby provided to:  SURFACE OWNER(s)  Name:  SURFACE OWNER(s)  Name:  Andono PLIC, clo Mike Ross  Address:  P. D. Box 219  Coallon, WV 26257  Name:  Address:  P. D. Box 219  Coallon, WV 26257  Name:  Address:  Pol. Box 219  MINERAL OWNER(s)  Name:  Address:  Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:  State:  West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:  State:  West Virginia  Approx. Latitude & Longitude:  More of oli and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 22304 (30+29-26-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.	Delivery meth	od pursuant to West Virginia C	ode § 22-6A-10a
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on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner or minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.  Notice is hereby provided to:  SURFACE OWNER(s)  Name: Antonio PLLC, do Mike Rôge  Address; Po. Box 219  Coalton, WV 28287  Name: Antonio PLLC, do Mike Rôge  Address; Po. Box 219  Coalton, WV 28287  Name: Mineral Owners  Address: S93 Long Run Road  Lost Greek, WV 28385  Name: Mineral Owners  Address: S93 Long Run Road  Lost Greek, WV 28385  Name: Mineral Owners  Address: Plense attach additional forms if necessary  Notice is hereby given:  Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:  State: West Virginia Code § 22-6A-10(a) Approx. Latitude & Longitude: S8 19  District: Grant  Quadrangle: West Millord WV 7.5:  West Symina West Millord WV 7.5:  Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may b	SERVICE	MAIL	
SURFACE OWNER(s)  Name: Antonio PLLC, cto Mike Rôse Address: P. O. Box 219 Coalton, WV 26257  Name: Charles R. Sutton Address: S93 Long Run Road Lost Creek, WV 26385  Name: Mineral Owners Address: \$393 Long Run Road Lost Creek, WV 26385  Name: Mineral Owners Address: ** *please attach additional forms if necessary  ** Notice is hereby given:  Pursuant to West Virginia Code \$ 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia County: Harrison Public Road Access: SR 19  District: Grant Watershed: Matershed: Matershed: Matershed: Matershed: Middle West Fork Creek Quadrangle: West Milford WV 7.5' Generally used farm name: Antonio  Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57° Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.  RECEIVED Office of Oil and Gas  Well Operator: Ho Energy II Appalachia, LLC Address: \$260 Dupont Road WW Department of Environmental Protection headquarters, located at 601 57° Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.  RECEIVED Office of Oil and Gas  Well Operator: Ho Energy II Appalachia, LLC Address: \$260 Dupont Road Ww Department of dwhile@higenergyllc.com  Facsimile: 304-863-3172  Ww Department of	on to the surface but no more that beneath such tr owner of miner and Sediment C Secretary, whice enable the surface	the tract to conduct any plat surveys an forty-five days prior to such entract that has filed a declaration pure rals underlying such tract in the control Manual and the statutes and the statement shall include contact ace owner to obtain copies from the	required pursuant to this article. Such notice shall be provided at least seven days ry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seam suant to section thirty-six, article six, chapter twenty-two of this code; and (3) any unty tax records. The notice shall include a statement that copies of the state Eros d rules related to oil and gas exploration and production may be obtained from the nformation, including the address for a web page on the Secretary's web site, to
Name: Antonio PLLC, cio Milke Robes Address: P. O. Box 219 Coalton, WV 26257 Name: Charles R. Sutton Address: 593 Long Run Road Lost Creek, WV 28395 Name: Address: P. O. Box 219 Coalton, WV 26257 Name: Mineral Owners Address: P. O. Box 219 Coalton, WV 26257  Name: Mineral Owners Address: P. O. Box 219 Coalton, WV 26257  Name: Mineral Owners Address: P. O. Box 219 Coalton, WV 26257  Name: Mineral Owners Address: P. O. Box 219 Coalton, WV 26257  Name: Mineral Owners Address: P. O. Box 219 Coalton, WV 26257  Name: Mineral Owners Address: P. O. Box 219 Coalton, WV 26257  Name: Mineral Owners Address: P. O. Box 219 Coalton, WV 26367  Name: Mineral Owners Address: P. O. Box 219 Coalton, WV 26367  Name: Mineral Owners Address: P. O. Box 219 Coalton, WV 26367  Name: Mineral Owners Address: P. O. Box 219 Coalton, WV 26367  Name: Mineral Owners Address: P. O. Box 219 Coalton, WV 26367  Name: Mineral Owners Address: P. O. Box 219 Coalton, WV 26367  Name: Mineral Owners Address: Sale Support in the Coalton of the Coalton o			COAL OWNED OF LESSEE
Address: P. O. Box 219 Coalton, WV 26257  Name: Charles R. Sutton  Address: S93 Long Run Road Lost Creek, WV 26385  Name: Mineral Owners  Address:		` '	
Coallon, WV 26257   Coallon, WV 26257   Coallon, WV 26257   Name:   Sutton   Sun Road   Coallon, WV 26385   Name:   MINERAL OWNER(s)   Name:   Mineral Owners   Address:   Add	1 (001110)		
Name: Charles R. Sutton Address: 593 Long Run Road Lost Creek, WV 26385 Name: Address: Address: Address: Address: ** Please attach additional forms if necessary  ** Notice is hereby given: Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia Approx. Latitude & Longitude: 39,158096/-80.382426 County: Harrison Public Road Access: SR 19 District: Grant Watershed: Middle West Fork Creek Quadrangle: West Millord WV 7.5' Generally used farm name: Antonio  Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.  **RECEIVED Office of Oil and Gas**  Notice is hereby given by:  Well Operator: HG Energy II Appalachia, LLC Address: 5260 Dupont Road Parkersburg, WV 26101  **West Parkersburg, WV 26101**  **Please attach additional forms if necessary  **Millorers is planning entry to conduct undersigned well operator is planning entry to conduct a planning entry t			
Address: 593 Long Run Road Lost Creek, WV 26385  Name: Mineral Owners Address: **please attach additional forms if necessary  Notice is hereby given:  Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:  State: West Virginia Approx. Latitude & Longitude: 39.158096 /-80.382426  County: Harrison Public Road Access: SR 19  District: Grant Watershed: Middle West Fork Creek Quadrangle: West Milford WV 7.5' Generally used farm name: Anoio  Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.  Notice is hereby given by:  Well Operator: HG Energy II Appalachia, LLC Address: 5260 Dupont Road Parkersburg, WV 26101  Parkersburg, WV 26101  Address: Mineral Owners  Address: 5260 Dupont Road Parkersburg, WV 26101  Parkersburg, WV 26101  WWDepartment of Environment of Parkersburg, WV 26101			
Name: Address: Pups a statch additional forms if necessary  Notice is hereby given: Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia Approx. Latitude & Longitude: 39.158096 / -80.382426  County: Harrison Public Road Access: SR 19 District: Grant Watershed: Middle West Fork Creek Quadrangle: West Milford WV 7.5' Generally used farm name: Antonio  Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.  RECEIVED Office of Oil and Gas  Notice is hereby given by:  Well Operator: HG Energy II Appalachia, LLC Address: 5260 Dupont Road Parkersburg, WV 26101  Telephone: 40th@energyllc.com Facsimile: 304-863-3172 WWDepartment of WVDepartment of WVDepartment of Monte Secretary Box 2011		ng Run Road	MINERAL OWNER(s)
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*please attach additional forms if necessary  *Police is hereby given:  Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:  State: West Virginia Approx. Latitude & Longitude: 39.158096 / -80.382426  County: Harrison Public Road Access: SR 19  District: Grant Watershed: Middle West Fork Creek  Quadrangle: West Milford WV 7.5' Generally used farm name: Antonio  Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.  **RECEIVED**  Office of Oil and Gas**  **Please attach additional forms if necessary  **Jepalachia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a planting entry to conduct a p	Name:		110000
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Quadrangle: West Milford WV 7.5'  Generally used farm name: Antonio  Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a> .  RECEIVED  Office of Oil and Gas  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: 304-863-3172  WW Department of	County:	Harrison	D 11 D 11
Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 <sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a> .  RECEIVED Office of Oil and Gas  Notice is hereby given by:  Well Operator: HG Energy II Appalachia, LLC Telephone:  304-420-1119 Address: 5260 Dupont Road Parkersburg, WV 26101 Facsimile: 304-863-3172 WW Department of	District:	Grant	Watershed: Middle West Fork Creek
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Telephone: 304-420-1119 Parkersburg, WV 26101  Email: dwhite@hgenergyllc.com Facsimile: 304-863-3172 WV Department of	may be obtained Charleston, WV obtained from t	d from the Secretary, at the WV D V 25304 (304-926-0450). Copies the Secretary by visiting <u>www.dep</u> eby given by:	repartment of Environmental Protection headquarters, located at 601 57 <sup>th</sup> Street, S of such documents or additional information related to horizontal drilling may be awv.gov/oil-and-gas/pages/default.aspx.  RECEIVED Office of Oil and Gas
Email: dwhite@hgenergyllc.com Facsimile: 304-863-3172 WV Department of	-		———— DEC 0 4 2013
WyDepartment of	•		Egginalla, agrana ara
		аттовиденогрупо,сон	- Wy Detailment of

Oil and Gas Privacy Notice:

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

### $\frac{WW-6A3}{(1-12)}$

#### Antonio 1206 N-4H

#### Page 1 Continued

#### **Mineral Owners**

Antonio PLLC c/o Mike Ross PO Box 219 Coalton, WV 26257

Ann M. Zinn Berlin K. Zinn, POA 180 Valley Street Salem, WV 26426

Betty Lee Stout 3711 64th Dr Lubbock, TX 79413-5311

Carmella Weber 6642 Louann Drive North Olmstead, WV 2650

Chad W. Johnson 509 Heritage Road Bridgeport, WV 26330

Charles Lloyd Stout PO Box 4609 Bridgeport, WV 26330

Cynthia Preston 610 Stealey Ave Clarksburg, WV 26301

Dominion Energy Transmission, Inc. P. O. Box 26666 Richmond, VA 23261-6666 Charles R Sutton 593 Long Run Road Lost Creek, WV 26385

Appalachian Royalty Company 501 Wood Lake Rd Aledo, TX 76008-4632

Camden Newlon 3211 Simpson Rd. Flemington, WV 26347-9711

Carrie Louise Wagner & Daniel Stout 3954 Saranac Dr Sharpsville, PA 16150-9678

Charles A. Smith 94 Dogwood Trail Napier, WV 26631

Charles R. Sutton 801 Worthihngton Dr Bridgeport, WV 26330

Diana Jean Smith Rahm 601 N Sterling Ave Veedersburg, IN 47987

Doris C. Stout Irrevocable Trust Daniel Stout RR 2 Box 488 Grafton, WV 26354-9655

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DEC 0 4 2019

### <u>(1-12)</u>

#### Page 1 Continued

#### **Mineral Owners**

Elizabeth S. Salsbury 18641 Stonehouse Shores Road Hersey, MI 49639

Gordon Sommerville 28 Riverbend Road Lost Creek, WV 26385

J.P. Morgan Chase Bank Trustee for Gore-Morris Trust PO Box 659 Wichita Falls, TX 76307

Janell D. Stout 156 Maple street Flemington, WV 26347

Kathy Sullivan 223 McCarty Rd Fredericksburg, VA 22405

Kenneth R. Snider 4820 Old Main St Richmond, VA 23231

Luan Butler Vinson 223 Lakes At Litchfield Dr Pawleys Island, SC 29585

Martha Jean Stout & Barbara Spencer RR 1 Box 165
Flemington, WV 26347-9720

Michael LaGatta 116 Broad Street, Apt C Westover, WV 26501 Franklin L. Sutton 113 Cimmarron Rd Clarksburg, WV 26301

Harvey Smith, Watters Smith Memorial C/O WV Dept Natural Resources Building 74, 324 Fourth Ave South Charleston, WV 25303

James Robert Cox 1730 Shady Creek Lane Lawrenceville, GA 30043

Julie R. Cox Goldsmith 96 Hickman Road Salem, WV 26426

Kenneth M Snider Sr 5711 Castlebridge Rd Fredericksburg, VA 22407

Kermit P and Deborah B Stutler RR 1 Box 64 Lost Creek, WV 26385-9707

Marc D. Smith 1313 Kassuba Road Gaylord, MI 49735

Mary Margaret Hood 401 E Olive St Bridgeport, WV 26330

Mike Ross PO Box 219 Coalton, WV 26257-0219 RECEIVED
Office of Oil and Gas

DEC 0 4 2019

### $\frac{WW-6A3}{(1-12)}$

#### Antonio 1206 N-4H

#### Page 1 Continued

#### **Mineral Owners**

Nellie Jo Brissey and Richard R. Bond 156 Valley Street Salem, WV 26426

Ralph LaGatta 127 Columbus Street Westover, WV 26501

Ruth Ann Kniceley 542 Brushy Fork Rd Bridgeport, WV 26330

Susan J Smith 315 Clifton Toledo, OH 43607

Touchstone Energy LLC 154 Marietta Street Clarksburg, WV 26301

John C. Stout Revocable Trust Thomas Stout, Trustee 321 Pennsylvania Ave Bridgeport, WV 26330-1543

Waco Oil and Gas Company PO Box 397 Glenville, WV 26351-0397 Paul E. Alkire 4203 Hackers Creek Rd Jane Lew, WV 26378-8305

Richard R. Bond 1720 60th Avenue, # 318 Greeley, CO 80634

Sheryl Lynn Smith Koons 601 N Sterling Ave Veedersburg, IN 47987

Suzanne D. Simmons 301 WV HIghway 74 Coxs Mills, WV 26342

Trio Petroleum Corp. PO Box 880 Glenville, WV 26351-0880

Lost Creek United Methodist Church Trustee PO Box 176 Lost Creek, WV 26385

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Office of Oil and Gas

DEC 0 4 2019

HG Energy II Appalachia, LLC

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

September 12, 2019

RE: Antonio 1206 N-4H

Grant District, Harrison County

West Virginia

To Whom It May Concern:

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

4700 03901

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

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

Very truly yours,

Diane White

Diane C. White

RECEIVED
Office of Oil and Gas

Enclosures

DEC 0 4 2019

Operator Well No. 1206 N-4H

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

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

Notice Time I Date of Notice	Requirement: Notice shall be e: 11/14/2019	provided at least TEN (1  Date Permit Applicat			permit application.
Delivery meth	nod pursuant to West Virgin	ia Code § 22-6A-16(b)			
☐ HAND	■ CERTIFIED M	f A II			
DELIVE		CEIPT REQUESTED			
receipt request drilling a horize of this subsect subsection ma	ted or hand delivery, give the secontal well: <i>Provided</i> , That notion as of the date the notice we	surface owner notice of it office given pursuant to state as provided to the surface surface owner. The notice	s intent to absection e owner: e, if requ	o enter upon the (a), section to Provided, howeled, shall included.	, an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
	eby provided to the SURF	` '			
	nio PLLC, c/0 Mike Ross		lame:	Charles R. Sutto	
	Box 219		Address:	593 Long Run Ro	-
Coal	ton, WV 26257			Lost Creek, WV 2	26385
Pursuant to W facsimile num	ber and electronic mail addre	General Genera	nclude tl	farm name: ne name, additor's authorize	SR19/Hackers Creek Road  Antonio  ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters,
		V 25304 (304-926-0450	) or by vi	siting <u>www.de</u>	ep.wv.gov/oil-and-gas/pages/default.aspx.
	reby given by:	A41	1 D		
_	: HG Energy II Appalachia, LLC			epresentative:	·
Address:	5260 Dupont Road	Add	ress:		5260 Dupont Road
	Parkersburg, WV 26101				Parkersburg, WV 26101
Felephone:	304-420-1119		phone:		304-420-1119
Email:	dwhite@hgenergyllc.com Dian	re white Ema			dwhite@hgenergyllc.com
Facsimile:	304-863-3172	Face	simile:		304-863-3172
The Office of duties. Your preeded to conappropriately s	personal information may be omply with statutory or regul	disclosed to other State atory requirements, incion. If you have any que	agencies luding Fractions about Particle	or third partie reedom of In	elephone number, as part of our regulatory es in the normal course of business or as formation Act requests. Our office will your personal information, please contact
			WYE	enartment of	

Environmental Protection

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

		Requirement: notice shall be provided no later te: 11/15/2019 Date Permit Applica			application.
Delive	ery met	hod pursuant to West Virginia Code § 22-6A	-16(c)		
		FIED MAIL HAN RN RECEIPT REQUESTED DEL	ND LIVERY		
return the pla require drilling damag	receipt anned o ed to be g of a h es to th e notice	V. Va. Code § 22-6A-16(c), no later than the or requested or hand delivery, give the surface own peration. The notice required by this subsect provided by subsection (b), section ten of this norizontal well; and (3) A proposed surface use surface affected by oil and gas operations to the serious provided by this section shall be given to the	vner whose land tion shall include article to a surfa- se and compens he extent the da	I will be used fo de: (1) A copy ace owner whose ation agreement amages are comp	r the drilling of a horizontal well notice of of this code section; (2) The information e land will be used in conjunction with the t containing an offer of compensation for pensable under article six-b of this chapter.
(at the Name:	Antoni	eby provided to the SURFACE OWNER(s) s listed in the records of the sheriff at the time of the sheriff at the sheriff	of notice): Name: Address	Charles R. Sutton 593 Long Run Ros Lost Creek, WV 26	
Pursua	int to Wion on the control on the co	eby given:  'est Virginia Code § 22-6A-16(c), notice is here the surface owner's land for the purpose of drill  West Virginia  Harrison  Grant  West Milford  Middle West Fork Creek	ling a horizonta UTM NAD 8 Public Road A	l well on the trac Easting: Northing:	vell operator has developed a planned et of land as follows:  553371.4  4334504.4  SR19/Hackers Creek Road  Antonio
Pursua to be p horizon surface inform headqu	nt to W provide ntal we affect ation re arters,	Shall Include: Vest Virginia Code § 22-6A-16(c), this notice sld by W. Va. Code § 22-6A-10(b) to a surfacell; and (3) A proposed surface use and compened by oil and gas operations to the extent the elated to horizontal drilling may be obtained to located at 601 57th Street, SE, Charleston, ault.aspx.	e owner whose sation agreemen damages are co from the Secret	land will be unt containing an ompensable underly, at the WV	sed in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional
Well C	)perator	HG Energy II Appalachia, LLC	Address:	5260 Dupont Road	
Teleph	ione:	304-420-1119	-	Parkersburg, WV 26	101
Email:		dwhite@hgenergyllc.com Diane White	Facsimile:	304-863-3172	
The Orduties. needed appropriate appropria	ffice of Your placed to coordinately	Privacy Notice: Oil and Gas processes your personal information personal information may be disclosed to other mply with statutory or regulatory requirements secure your personal information. If you have Privacy Officer at <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a> .	er State agencients, including	es or third partic Freedom of In bout our use or	es in the normal course of business or as formation Act requests. Our office will your personal information, please contact
				Office of Oil a	ED nd Gas
			fine fine	DEC 0 4 2	ent of

Environmental Protection



## WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

October 18, 2019

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

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

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

Subject: DOH Permit for the Antonio 1206 Pad, Harrison County 1206 N-4H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2018-1374 which has been issued to HG Energy II for access to the State Road for a haul road located off Harrison County Route 19/20 SLS. The haul route will cross Harrison County Route 25/6 by permits 04-2019-0930 & 04-2019-0931.

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.

RECEIVED
Office of Oil and Gas

DEC 0 4 2019

WV Department of Environmental Protection Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc:

Diane C. White HG Energy II CH, OM, D-4 File

E.E.O./AFFIRMATIVE ACTION EMPLOYER

### CONSTRUCTION IMPROVEMENT PLANS WITH **EROSION AND SEDIMENT CONTROLS HG 1206 WELL PAD &**

SHT. NO.	SHEET TITLE
1	TITLE SHEET
2A-2Z	SITE DEVELOPMENT PLANS
3A-3B	IMPOUNDMENT SECTIONS
4A-4H	ACCESS ROAD SECTIONS
5A-5G	CONSTRUCTION NOTES & DETAILS
6A-6K	RESTORATION PLAN
7A-7C	PROPERTY MAP

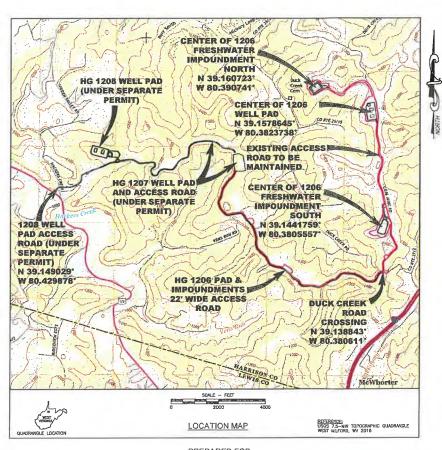
### **GRANT DISTRICT** HARRISON COUNTY **WEST VIRGINIA**

IMPOUNDMENTS



#### 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 be required.
- 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.



#### PREPARED FOR

#### HG ENERGY II APPALACHIA, LLC

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

#### PREPARED BY

#### PENN ENVIRONMENTAL & REMEDIATION, INC.

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

	Cut	Fill .	Stockpile
1206 Impoundment North & Staging Area	32.865	32,355	510
1206 Impoundment North DC-01 & 02	2,610	20	2.590
1206 Impoundment South & Staging Area	54,705	44,870	9,835
1206 Pad & Impoundments Access Road	4,315	3,970	345
1206 Well Pad & Access	32,760	32.455	305
Coal Mine Rd Sight Distance Improvements	1,200	0	1,200
Totals	128,455	113.670	14.785
Est, Swell Factor (20%)	, 120,400	110,010 [	2,957
Total Site Balance:			17,742
Stripped Topsoil (Limits of Earthwork)			20,738
Est, Swell Factor (20%)	-		4,147
Est, Topsoil Stockpile Volume (Loose CY)			24,885
Minimum Total Stockpile Capacity Required (CY)			42.627
Pad & Impoundminis North Staglin Access Road   Access Road   Access Road   Access Road   Access Road   Page 1975   27,390   2,985	ant Impound g & South Sta	ment 1206 We	a De al
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3,690	30,	530   64,595
Top Coal Chip & Seel (Placed SY) 27,390 2,985		30,8	530   64,595 10 34,395
Top Coal Chip & Seal (Placed SY) 27,390 2,985 3* Depth of 3/4* Crusher Run (Toras) — —	3,690	30,4	530   64,595 10   34,395 70   3,270
Top Coal Chip & Seel (Pisced St) 27,390 2,985 3' Depth of 3/4' Crusher Run (Tons) 2 Estimated Pad & Impoundments Access Road 12	3,690 3,690 — * Filter Sock	30,4	530   64,595 10 34,395 70 3,270 14,510
Top Cost Chip & Seel (Piered Sr) 27,390 2,985  3* Depth of 34* Couster Ren (Torss)  Estimated Pad & Impoundments Access Road 12  Estimated Impoundment North 12* Filter Sock Len	3,690 3,690 	30,4	530   64,595 50   34,395 70   3,270 14,510 2,901
Top Coal Chip & Seal (Placed Sh) 27,390 2,985  © Depth of Jate Coate Rea (Florad)  Estimated Pad & Impoundments Access Road 12  Estimated Impoundment North 12° Filter Sock Len  Estimated Impoundment North 12° Filter Sock Len	3,690 3,690 	30,4	530   64,595 10 34,395 70 3,270 14,510
Top Coal Chip & Seal (Placed Sh) 27,390 2,985  © Depth of Jate Coate Rea (Florad)  Estimated Pad & Impoundments Access Road 12  Estimated Impoundment North 12° Filter Sock Len  Estimated Impoundment North 12° Filter Sock Len	3,690 3,690 	30,4	530   64,595 10 34,395 170 3,270 14,510 2,901 5,450
Top Oxel Onlip 8 seel (Placed 5t) 27,390 2,985  20 Degrid 4 3P Contine Ren (Ford) — —  Estimated Pad 8. Impoundments Access Road 12  Estimated Impoundment North 12° Filter Sock Ler  Estimated Impoundment South 12° Filter Sock Ler  Estimated Well Pad 12° Filter Sock Length (LF)	3,690 3,690 - * Filter Sock agth (LF)	30,4	530   64,595 10   34,395 170   3,270 14,510 2,901 5,450 1,576
Top Dead Onle & seel (Plated \$1) 27,390 2,985  **Top Byth of 1970 Coucher Ren (Ford) — — — — — — — — — — — — — — — — — — —	3,690 3,690 - * Filter Sock gth (LF) ngth (LF) (LF) nit of Disturt	30,4 3,2 Length (LF)	530   64,595 10   34,395 70   3,270 14,510 2,901 5,450 1,576 24,437
Top Dead Onle & seel (Plated \$1) 27,390 2,985  **Top Byth of 1970 Coucher Ren (Ford) — — — — — — — — — — — — — — — — — — —	3,690 3,690 - * Filter Sock gth (LF) ngth (LF) (LF) nit of Disturt	30,4 3,2 Length (LF)	530   64,595 10 34,395 170 3,270 14,510 2,901 5,450 1,576 24,437 21,955
Top Doubl Onle & seel (Plated \$1) 27,390 2,985  **Top Double Age Cauther Ren (Ford) — — — — — — — — — — — — — — — — — — —	3,690 3,690 - Filter Sock agth (LF) agth (LF) (LF) nit of Disturb vance (Acres	0 30,4 0 33 3,2 Length (LF)	530   64,595 30   34,395 70   3,270 14,510 2,901 5,450 1,576 24,437 9,297
Top Doed Onipe Seed (Placed St) 27,390 2,985  **P Dogsh of JaP Couther Rea (Tora) — — — — — — — — — — — — — — — — — — —	3,690 3,690	0 30,4 0 33 3,2 Length (LF)	530   64,595 10 34,395 170 3,270 14,510 2,901 5,450 1,576 24,437 9,297 11,696
Top Ocal Chips Seal (Piesed 5t) 27,390 2,985  **P Degrid A SP Coutabre Risa (Toru) — — — — — — — — — — — — — — — — — — —	3,690 3,690 3,690 4 Filter Sock tigth (LF) high (LF) hilt of Disturt hance (Acres hance (Acres)	0 30,4 0 33 3,2 Length (LF)	530   64,595 10 34,395 170 3,270 14,511 2,901 5,450 1,576 24,437 ) 21,955 9,297 11,696 14,181
Top Deat Chip 8 seal (Piesed 81) 27,390 2,985  **P Degrid A SP Couther Res (Torol) — — — — — — — — — — — — — — — — — — —	3,690 3,690 3,690 4 Filter Sock tigth (LF) high (LF) hilt of Disturt hance (Acres hance (Acres)	0 30,4 0 33 3,2 Length (LF)	530   64,595 10 34,395 170 3,270 14,511 2,901 5,450 1,576 24,437 9,297 11,696 14,181 11,056
Top Doal Chip & Seal (Pieced St) 27,390 2,985  **P Doglish of APP Couther Res (Torol) — — — — — — — — — — — — — — — — — — —	3,690 3,690	0 30,4 0 33 3,2 Length (LF)	530   64,595 10   34,395 170   3,270 14,511 2,901 5,450 24,437 21,955 9,291 11,694 14,191 11,056 68,181
Top Doub Onle & Seal (Plated Sh) 27,390 2,985  **P Doghi of Jan Casher Ren (Torol) — — — — — — — — — — — — — — — — — — —	3,690 3,690	0 30,4 0 33 3,2 Length (LF)	530   64,595 10 34,395 70 3,270 14,510 2,901 5,450 1,576 24,437 9,297 11,696 14,181 11,056 68,187
Top Coal Chip & Seal (Placed SY) 27,390 2,985	3,690 3,690	0 30,1 3.2 3.2 Length (LF)	530   64,595 10 34,395 70 3,270 14,510 2,901 5,450 1,576 24,437

WELL #	LAT.	LONG.
N-1H	N 39.158096	W 80.382426
N-2H	N 39.158101	W 80.382374
N-3H	N 39.158107	W 80.382321
N-4H	N 39.158112	W 80.382269
N-5H	N 39,158118	W 80.382216
5-6H	N 39.157314	W 80.382294
5-7H	N 39.157319	W 80.382242
S-8H	N 39.157325	W 80.382189
S-9H	N 39.157330	W 80.382137
S-10H	N 39.157336	W 80.382084

000000000000000000000000000000000000000						
	LATITUDE	LONGITUDE				
DUCK CREEK ROAD CROSSING	N 39.138843	W 80.380611				
207 WELL PAD ACCESS ROAD ENTRANCE	N 39.152061	W 80.420447				
208 WELL PAD ACCESS ROAD ENTRANCE	N 39.149029	W 80.429878				

RECORD OWNER	RECORD LOT #	RECORD AREA OF LOT	AREA WITHIN LOD
HUBERT E & SANDRA K NEEL	17-12-0445-0005-0000	89.07	0.099
MICKEY PETITO	17-12-0445-0013-0000	132.852	5.952
LELAND J FREEMAN	17-12-0445-0026-0000	15.5506	2.236
CHARLES R SUTTON	17-12-0445-0043-0000	4.655	1.134
FRANKLIN L SUTTON	17-12-0445-0047-0000	72.2783	4.670
RICHARD L HAWKINS, JR	17-12-0446-0031-0000	53.1225	3.425
FRANKLIN L SUTTON	17-12-0446-0039-0001	48.3295	2.713
W JOE & HANNAH M SUTTON	17-12-0446-0040-0000	84.6203	1.709
DUCK CREEK RD	N/A	N/A	0.052
CHARLES NAY	17-12-0446-0039-0000	26.2318	2.168
CHARLES RALPH & TANYA K SUTTON	17-12-0446-0040-0000	84.6203	2.253
JERI L. BOOHER	17-12-0446-0031-0001	22.6792	1.811
MARY RICHARDS	17-12-0446-0033-0000	47.9334	6,427
WILLIAM LEROY & VIRGINIA A. JENKINS	17-12-0446-0018-0000	78.5858	2.638
MARY RICHARDS	17-12-0446-0018-0001	0.9075	0,197
MARY RICHARDS	17-12-0446-0019-0000	56.5818	2.028
P ANTONIO, LLC	17-12-0446-0003-0000	180.7720	1.656
P ANTONIO, LLC	17-12-0446-0002-0000	41.0699	0.668
P ANTONIO, LLC	17-12-0426-0071-0000	230.6748	21.146
CHARLES R SUTTON	17-12-0426-0072-0000	31.1173	4.504
JUDITH H RUSSELL	17-12-0425-0021-0000	15.1580	0.701
TOTAL LIMIT	OF DISTURBANCE		68.187 AC

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1	9/16/19	REVISED WELLHEAD LAYOUT		

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PREPARED FOR HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA

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