

#### 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, March 6, 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 S-7H

47-033-05984-00-00

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 S-7H

Farm Name: ANTONIO P., LLC

Horizontal 6A New Drill

U.S. WELL NUMBER: 47-033-05984-00-00

Date Issued: 3/6/2020

Promoting a healthy environment.

API Number: 4703305984

## PERMIT CONDITIONS

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

#### CONDITIONS

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

API Number: 4703305984

## 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.

WW-6B (04/15)

API NO. 47		
OPERATOR W	ELL NO.	Antonio 1206 S-7H
Well Pad Nam	e: Antoni	o 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	achia, 📙	494519932	Harrison	Grant	West Milford 7.5'
				Operator ID	County	District	Quadrangle
2) Operator's Well	Number: An	tonio 120	6 S-7H	Well Pac	Name: Anton	io 1206	
3) Farm Name/Surf	ace Owner:	HG Energy	II Appalach	ia, LLC Public Roa	d Access: Had	ckers Cree	k Rd @ SR 19
4) Elevation, currer	nt ground:	1364'	Ele	evation, proposed	post-construction	on: 1350'	
5) Well Type (a)	Gas x		Oil	Unde	erground Storag	ge	
Oth	ner						
<b>(b)</b> <sup>1</sup>	If Gas Sha	llow	X	Deep			
	Hor	izontal 🗵	x				
6) Existing Pad: Ye	s or No <u>No</u>						
7) Proposed Target Marcellus at 7081				ipated Thickness a inticipated pressure		essure(s):	
8) Proposed Total V	ertical Deptl	<sub>h:</sub> 7252'					
9) Formation at Tot			arcellus				
10) Proposed Total	Measured De	epth: 24	1,005'				
11) Proposed Horiz	ontal Leg Le	ngth: 16	6,237'				
12) Approximate Fi	resh Water St	trata Dept	hs:	135', 480', 637',	731'		
13) Method to Dete	rmine Fresh	Water De	pths:	learest offset we	ll data		
14) Approximate S	altwater Dept	ths: No S	S/W depth	s found on WR-35 fo	r offset wells, salt	water expecte	ed to be below elevation
15) Approximate C	oal Seam De	pths: 623	3', 1010'	to 1015' (Surfac	e casing is bei	ng extende	d to cover the coal)
16) Approximate D	epth to Possi	ble Void	(coal mi	ne, karst, other):	None		
17) Does Proposed directly overlying o				ns Yes	No	Х	
(a) If Yes, provide	Mine Info	Name:		-			
(a) 11 103, provide	mio.	Depth:					
		Seam:					
		Owner:					

OPERATOR WELL NO. Antonio 1206 S-7H

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	24006'	24006'	20% excess tail, CTS
Tubing							
Liners							

SDW 12/4/2019

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	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, Tall 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Lead 40% excess, Tall 0% Excess Lea
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% excess yield = 1.19, ball yield 1.94.0
Tubing							
Liners							

#### **PACKERS**

Kind:		
Sizes:		
Depths Set:		

RECEIVED
Office of Oil and Gas

JAN 07 2020

WW-6B (04/15) 47 0 3 3 0 5 9 8 4

OPERATOR WELL NO. Antonio 1206 S-7H
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 Energy	/ II Appalachia,	494519932	Harrisor	Grant	West Milford 7.5'
2	-		Operator II	County	District	Quadrangle
2) Operator's V	Well Number: A	ntonio 1206 S-7	H We	Il Pad Name: _	Antonio 1206	
3) Farm Name	/Surface Owner:	HG Energy II Appala	nchia, LLC Public	Road Access:	Hackers Cre	ek Rd @ SR 19
4) Elevation, c	urrent ground:	1364'	Elevation, prop	osed post-const	truction: 1350'	i.
5) Well Type	(a) Gas <u>x</u> Other	Oil _		Underground S	Storage	
	(b)If Gas Sh		Dee	p		- 0 4. 7
6) Evicting Pag	d: Yes or No No	orizontal <u>x</u>				5DW 12/4/19
7) Proposed Ta	arget Formation(	s), Depth(s), Ant 179' in thickness.				12/4/19
8) Proposed To	otal Vertical Dep	th: 7252'				
9) Formation a	t Total Vertical	Depth: Marcell	us			
10) Proposed	Γotal Measured I	Depth: 24,006'				
11) Proposed I	Horizontal Leg L	ength: 16,237'				
12) Approxima	ate Fresh Water	Strata Depths:	135', 480',	637', 731'		
	Determine Fresh ate Saltwater De		Nearest offse	et well data		
15) Approxima	ate Coal Seam D	epths: 623', 10°	10' to 1015'			
16) Approxima	ate Depth to Pos	sible Void (coal 1	mine, karst, oth	er): None		
		n contain coal se o an active mine			No X	
(a) If Yes, pr	ovide Mine Info	Name:				
		Depth:				
F	RECEIVED	Seam:				
	of Olland Gas	Owner:				

JAN 0.7 2020

### API NO. 47-47-03305984

OPERATOR WELL NO. Antonio 1206 S-7H

Well Pad Name: Antonio 1206

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 16,237' lateral length, 24,006' 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.
Ceal - Bow Spring on every joint, will also be nurning ACP for isolating storage zone.
Intermediate - Bow Spring on first 2 joints then every third joint to 100° from surface.
Foreign the part of the pa

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

Conductor -WA, Casing to be drilled in w/ Dual Rotary Rig.
Fresh Water - 15.8 pog PNE-1 + 3% bworc CaCl, 40% Excess Yield = 1.20, CTS
Intermediate 1 - 1-caed: 15.4 pog PNE-1 + 2.5% bworc CaClAVO% Excess / Tail: 15.9 pog PNE-1 + 2.5% bworc CaCl zero% Excess. CTS'
Intermediate 2 - 1-caed: 15.4 pog PNE-1 + 2.5% bworc CaClAVO% Excess / Tail: 15.9 pog PNE-1 + 2.5% bworc CaCl zero% Excess. CTS'
Intermediate 2 - 1-caed: 15.4 pog PNE-1 + 2.5% bworc CaClAVO% Excess / Tail: 15.9 pog PNE-1 + 2.5% bworc CaCl zero% Excess. CTS'
Intermediate 2 - 1-caed: 15.4 pog PNE-1 + 2.5% bworc CaClAVO% Excess / Tail: 15.9 pog PNE-1 + 2.5% bworc CaClAVO% Excess

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hote is clean at 1D.

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

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

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

Production - Once on bottom/TD with casing, circulate at max allowable pump rate for at least 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.

**JAN () / 2020** 

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

	Material Type	Material Description Premium NE-1 is a	CAS#	%	CAS number
		portland cement with	Ingredient name	90 - 100	65997-15-1
		early compressive	Portland cement Calcium oxide	1-5	1305-78-8
		strength properties.	Magnesium oxide	1 - 5	1309-48-4 14808-60-7
mium NE-1	Portland Cement		Crystalline silica: Quartz (SiO2)	0.1 - 1	14000-00-7
		Commonly called gel, it is	Ingradient name	%	CAS number
		a clay material used as a	Ingredient name bentonite	90 - 100	1302-78-9
		cement extender and to control excessive free	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
		water.			
tonite	Extender				
		A powdered, flaked or	Ingredient name	%	CAS number
		pelletized material used to decrease thickening	Calcium chloride	90 - 100	10043-52-4
		time and increase the rate			
lum chlorid	Nanal-sets:	of strength development			
ium Chloride	Accelerator				
		Graded (3/8 to 3/4 inch)	Ingredient name	%	CAS number
		cellophane flakes used as a lost circulation material.	No hazardous ingredient	TILL	
o Flake	Lost Circulation	a lost direulation material.			
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in cementing operations. It	Ingredient name	%	CAS number
		is very effective	Tributyl phosphate	90 - 100	126-73-8
		minimizing air	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		entrapment and			
		preventing foaming			
		tendencies of latex systems.			
13L	Foam Preventer				
		MENT LESS BELLEVIERS	Ingredient name	%	CAS number
nulated Curs	Retarder	Used to retard cement returns at surface.	Sucrose	90 - 100	57-50-1
anulated Sugar	Vereinei	A proprietary product			
		that provides expansive			
		properties and improves			
		bonding at low to	Ingredient name	%	CAS number
		moderate temperatures.	Calcium magnesium oxide	90 - 100	37247-91-9
1		semperatures.			
		Multi-purpose polymer			
		additive used to control			
			Ingredient name	%	CAS number
		free fluid, fluid loss,	Ingredient name  No hazardous ingredient	%	CAS number
PA-170	Gas Migration		No hazardous ingredient		CAS number
PA-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration.	No hazardous ingredient		CAS number
A-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide).	No hazardous ingredient		CAS number
A-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with	No hazardous ingredient		
A-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide).	No hazardous ingredient  SES 0702  LOTO 101  Ingredient name	%	CAS number
<b>A-17</b> 0	Gas Migration	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be	No hazardous ingredient  SEB USA SEB U	% 5 - 10	CAS number 14808-60-7
A-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a	No hazardous ingredient  See 1010  Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide	%	CAS number
A-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate	No hazardous ingredient  See 1010  Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide	% 5 - 10	CAS number 14808-60-7
A-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a	No hazardous ingredient  See 1010  Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide	% 5 - 10	CAS number 14808-60-7
	Gas Migration  Base	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion	No hazardous ingredient  See 1010  Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide	% 5 - 10	CAS number 14808-60-7
		free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.	No hazardous ingredient  See 10 10 10 10 10 10 10 10 10 10 10 10 10	% 5 - 10	CAS number 14808-60-7
		free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion	No hazardous ingredient  No hazardous ingredie	% 5 - 10 1 - 5	CAS number 14808-60-7 1305-78-8
		free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.  A low temperature retarder used in a wide range of slurry	No hazardous ingredient  See 1010  Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide	% 5 - 10	CAS number 14808-60-7
		free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.  A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name	% 5 - 10 1 - 5	CAS number 14808-60-7 1305-78-8
		free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.  A low temperature retarder used in a wide range of slurry	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name	% 5 - 10 1 - 5	CAS number 14808-60-7 1305-78-8
A-170 (Fly Ash)	Base	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.  A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name Organic acid salt	% 5 - 10 1 - 5	CAS number 14808-60-7 1305-78-8  CAS number Trade secret.
{Fly Ash}	Base	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.  A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name Organic acid salt  Ingredient name	% 5 - 10 1 - 5 % 40 - 50	CAS number 14808-60-7 1305-78-8  CAS number Trade secret.
{Fly Ash}	Base	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.  A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide  Ingredient name Organic acid salt  Ingredient name 2-Butoxyethanol Proprietary surfactant	% 5 - 10 1 - 5 % 40 - 50	CAS number 14808-60-7 1305-78-8  CAS number Trade secret.  CAS number 111-76-2 Trade secret.
{Fly Ash}	Base	free fluid, fluid loss, rheology, and gas migration.  A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.  A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SIO2) Calcium oxide  Ingredient name Organic acid salt  Ingredient name 2-Butoxyethanol	% 5 - 10 1 - 5 % 40 - 50	CAS number 14808-60-7 1305-78-8  CAS number Trade secret.  CAS number 111-76-2

TD @ +/-7252' TVD +/-24005' MD	+/-16237' ft Lateral	+/-1623			d Long String	8.5" Hole - Cemented Long String 5-1/2" 23# P-110 HP CDC HTQ	. 8		7252' TVD / 7768' MD	LP @ 72	
X	<b>X</b>	×	×	×			X	×	×		
				SOBM		7260	Onondaga			× _	× _
				12.5ppg	7252	24005	(Production)		8.5" Lateral		
				11 Sppp	7260	7081	Marcellus				
	cement.	top of the curve.	Tail Yield=1.19		7081	6972	Hamilton				
	volume prior to pumping	1st 5.5" long joint to the			6972	6864	Tully Limestone				
due to hole conditions	minimum of one hole	every 3 joints from the		OCDIVI	6864	6854	Burkett	CDCHIO			
Note:Actual centralizer	pressures indicate the hole		gal/sk FP13L + 50%	12.5ppg	6854	6783	West River	P-110 HP	8.5" Curve		
wall thickness Burst=16240 psi	returns and pump		1ail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75	11.5ppg-	6783	6751	Middlesex	23#		×	×
Production casing = 0.415"	allowable pump rate for at		MPA170		6751	6651	Cashaqua				
	Once on bottom/TD with		EC1 + 0.75 gal/sk FP13L + 0.3% bwoc		6651	6395	Rhinestreet				- 10
		surface.	POZ:PNE-1 + 0.3%	OCDIN	4525	4505	Benson			ante de	lia
		every 5 joints from the	_	9.0ppg	3448	3438	Balltown		8,5" Vertical		
		Run 1 spiral centralizer			3224	3204	Speechley			×	×
	painiping centerit.		Lycess. C. C		3000	0	Intermediate 2			7/10	
Burst=3950 psi	hole volume prior to	surface		roymen	2601 / 2931	2591 / 2891	Bayard / Warren			×	×
wall thickness	Circulate a minimum of one	joint to 100' form	_	Salt	2527	2515	5th Sand	J-55 BTC	12.25"		
Intermediate casing = 0.395"	depth, Circulate and	Bow Spring on first 2	2.5% bwoc CaCl	AIR / KCL	2272 / 2385	2232 / 2272	Gordon Stray / Gordon	0.5/8" 40#			
	Once casing is at setting		Lead: 15.4 ppg PNE-1 +		2157 / 2200	2095 / 2182	Fifty / Thirty Foot			×	×
	cement.	storage zone*	zero% Excess. CTS		2200	0	Intermediate 1				
Burst=3450 psi	minimum of one hole	ACP for isolating	ppg PNE-1 + 2.5% bwoc CaCl	Polymer	1770 / 2050	1658 / 1985	Injun / Gantz (Storage)	J-55 BTC	11.00	×	×
Interme	condition at TD. Circulate a		40% Excess / Tail: 15.9	AIR / KCL		1555 / 1596	Little/Big Lime	13-3/8" 68#	17 5"		
	Once casing is at setting	Bow Spring on every	Lead: 15.4 ppg PNE-1 +								
pulst-zind	pumping cement.		Yield=1.20 / CTS		1100	0	Surface / FW			×	×
thickness	of one hole volume with	joints to surface	40% Excess	AIR	1015	1010	Coal	94# J-55	24"	×	×
Surface casing = 0.438" wall	Once casing is at setting depth, circulate a minimum		15.6 ppg PNE-1 + 3%		135, 480, 637, 731	0	Fresh Water	2			
Conductor casing = 0.5" wall thickness	Ensure the hole is clean at TD.	NA	N/A, Casing to be drilled in w/ Dual Rotary Rig	AIR	120	0	Conductor	30" 157.5# - LS	30"	×	×
								To the second			4/
COMMENTS	CONDITIONING	CENTRALIZERS	CEMENT	MUD		TOP	GEOLOGY	CASING	HOLE	DIAGRAM	WELLBORE DIAGRAM
36 82E	14204454 OSN 1820496 62E	14	=	S-7H RHI	1206.5		80	159 7980		3	Azm
91.52E	14219686.37N 1814891.52E	14	P	S-7H LP	1206 9		The state of the s	1350'		Elevation	round
28.99E	14220497.87N 1815528.99E	14	Ė	S-7H SHL	1206 S	dal Protection	ANTIDOSIMO-				3
	le Horizontal bunty, WV	Marcellus Shale Horizontal Harrison County, WV				7 2020	JAN 0 7 2020	ENERGY	J <sub>m</sub>		59
	3-7H	1206 S-7H				Company of the second	100000000000000000000000000000000000000	工			8

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

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

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

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WV Department of Environmental Protection

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

FIELD/ZONES:

DOMINION FINK/KENNEDY/LOST CREEK-GANTZ SAND

WELL NAME: Antonio 1206

Well # Antonio 1206 S-7H

DISTRICT/COUNTY/STATE: Grant/Harrison/WV

Submitted -

JOSH HINTON HG ENERGY, LLC DATE 12-12-19

**Dominion Energy Transmission** 

DATE 12/17/19

DATE 12/18/19

**Dominion Energy Transmission** 

#### Comments:

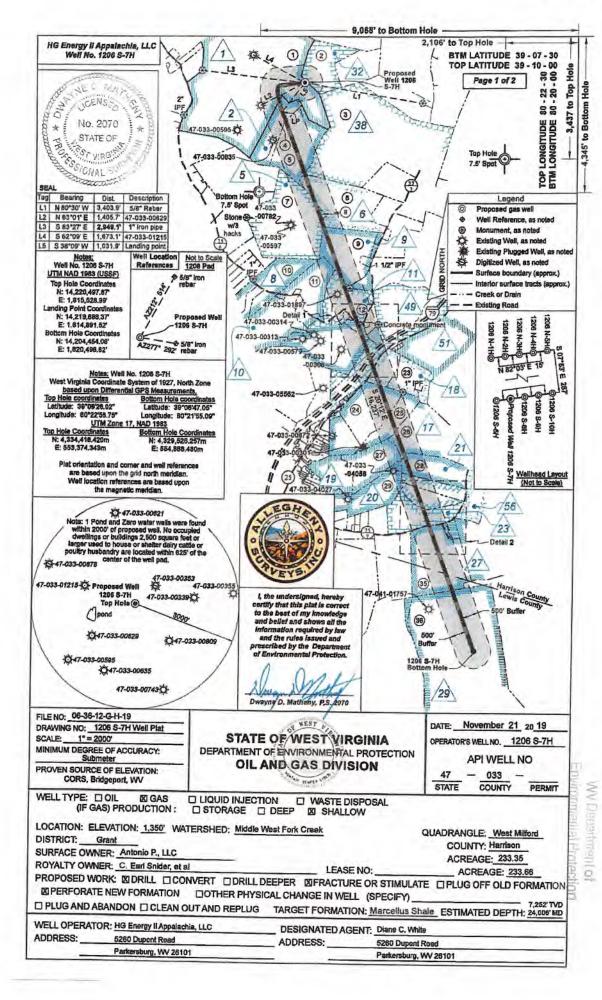
HG Energy has submitted this Casing & Cementing diagram and Drilling Plan to Dominion Transmission for Review. This signed document acknowledges that Dominion has reviewed the proposed casing program and the well's location within the Fink/Kennedy/Lost Creek storage field. This acknowledgement also confirms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

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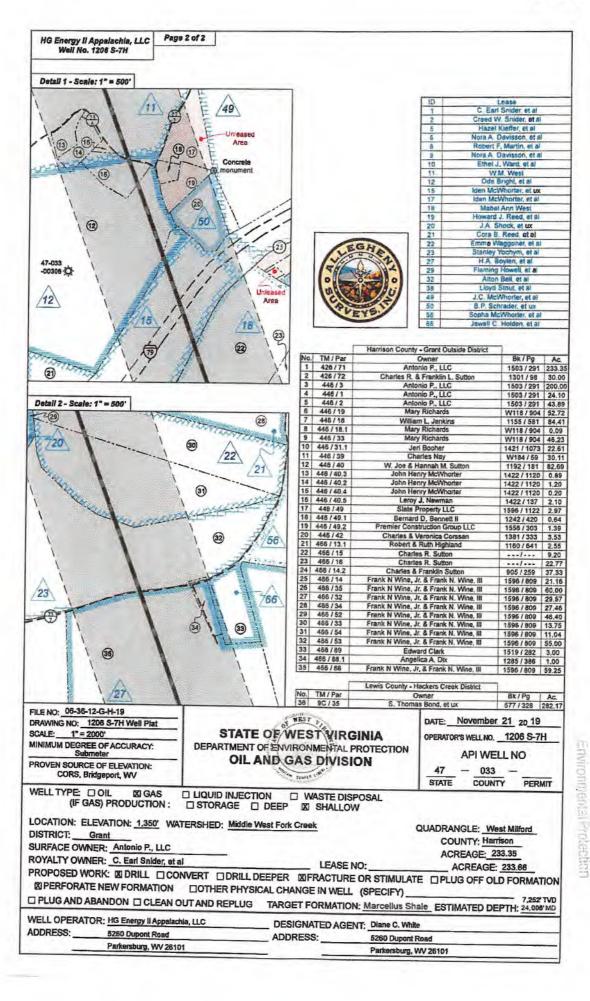
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WW-6B (04/15)

PI	NO. 47	_		
	<b>OPERATOR WELL N</b>	10.	Antonio	1206 S-7H
	Well Pad Name: A	ntonk	1206	

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

1) Well Operat	or: HG Er	nergy II Appa	alachia,	494519932	Harrison	Grant	West Milford 7.5'
				Operator ID	County	District	Quadrangle
2) Operator's \	Well Number	er: Antonio 1	206 S-71	H Well P	ad Name: Ant	onio 1206	
3) Farm Name	Surface Ov	vner: HG Energ	y II Appalac	hia, LLC Public Re	oad Access: H	ackers Cre	ek Rd @ SR 19
4) Elevation, c	urrent groun	nd: 1364'	E	levation, propose	d post-construc	tion: 1350'	
5) Well Type	(a) Gas Other	x	_ Oil _	Un	derground Stor	age	
	(b)If Gas	Shallow	x	Deep			
		Horizontal	x				5DW
6) Existing Pac		-			٠		5DW 12/4/19
				ipated Thickness		Pressure(s):	126-0[17
Marcellus at	708177260	and 179' in thi	ckness.	Anticipated pressu	re at 4314#.		
8) Proposed To	tal Vertical	Depth: 725	2'				
9) Formation a	Total Vert	ical Depth:	Marcellu	3			
10) Proposed T	otal Measur	red Depth: 2	24,006'				
11) Proposed H	lorizontal L	eg Length:	16,237'				
(2) Approxima	te Fresh Wa	iter Strata Dej	oths:	135', 480', 637	', 731'		
3) Method to	Determine F	resh Water D	epths:	Vearest offset w	ell data		
4) Approxima							- <del> </del>
5) Approxima	te Coal Sear	m Depths: 62	23', 1010	' to 1015'			
6) Approxima	te Depth to	Possible Void	i (coal m	ne, karst, other):	None		
7) Does Propo lirectly overlyi	sed well looning or adjace	eation contain ent to an activ	coal sear	ms Yes	N	<u>x</u>	
(a) If Yes, pro	vide Mine I	nfo: Name:					
		Depth:					
		Seam:			(Internal)		Tabelia and the state of the st
		Owner					

Page 1 of 3

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WW-6B (04/15)

API N	0.47			
0	PERATOR	WELL	NO.	Antonio 1206 S-7H
V	Veli Pad N	lame:	Antoni	o 1208

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	24006'	24006'	20% excess tail, CTS
Tubing							
Liners							

50W 12/4/200

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	12[4][206] <u>Cement</u> <u>Yield</u> (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	Load 40% excess, Tall 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Load 40% seems, Toll 0% Excess Lat
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% concer yield * 1.15, but yield 1.24.
Tubing					.2000		
Liners							

#### PACKERS

Kind:		
Sizes:		
Depths Set:		

Page 2 of 3

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WW-6B (10/14)

API	NO. 47		
	<b>OPERATOR WELL</b>	NO.	Antonio 1206 S-7H
	Well Pad Name:	Antoni	o 1206

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 16,237' lateral length, 24,006' 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:

thy controlled with solid this continue continue.  Facilitative General laws of the law to continue of the con	

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

Desident Affi, Comp on the Class of Except (Except Inc.)  The Miller - 48 to PAP 1-17 to have CLASS desident New + 120. CFS  Nonember 1-1 and CLASS profile - 2.5% to the CLASS (Except Inc.)  Nonember 1-1 and CLASS profile - 2.5% to the CLASS (Except Inc.)  Nonember 1-1 and CLASS profile - 2.5% to the CLASS (Except Inc.)  Nonember 1-1 and CLASS profile - 2.5% to the CLASS (Except Inc.)  Nonember 1-1 and CLASS profile - 2.5% to the CLASS (Except Inc.)  Nonember 1-1 and CLASS (Except In	
	•

25) Proposed borehole conditioning procedures:

Consider - Capes the time is time or TD.  This Plant-Procedure is a state of the Cape of t	

\*Note: Attach additional sheets as needed.

Page 3 of 3

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WW-9 (4/16)

API Number 47 -	-
Operator's Wall No.	Antonio 1206 C 7H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN	I.
Operator Name HG Energy II Appalachia, LLC OP Code 49	4501907
Watershed (HUC 10) Middle West Fork Creek Quadrangle West Milford 7.5'	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes Will a pit be used? Yes No V	s_V No_
If so, please describe anticipated pit waste: NA	
Will a synthetic liner be used in the pit? Yes No If so, what ml.?	
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection ( UIC Permit Number	)
Reuse (at API Number_TBD - At next anticipated well	)
Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain	50W 12/4/2019
Oule: (Explain_	12/4/2019
Will closed loop system be used? If so, describe: Yes, cuttings and fluids will be collected in a closed loop system, re-used on	r hauled to an approved disposal site or landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc	
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Water, Soap, KCI, Barite, Base Oil, Wetting Agents	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Approved Landfill	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) No	Α
-Landfill or offsite name/permit number? See Attached	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or a West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WAY on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environment provisions of the permit are enforceable by law. Violations of any term or condition of the ger law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with application form and all attachments thereto and that, based on my inquiry of those indivious obtaining the information, I believe that the information is true, accurate, and complete. I a penalties for submitting false information, including the possibility of fine or imprisonment.	tal Protection. I understand that the neral permit and/or other applicable the information submitted on this duals immediately responsible for
Company Official Signature Diane White	REGEIVED
Company Official (Typed Name) Diane White	<del>Silver of Official</del> OdS
Company Official Title Agent	0202 7 V MAL
	ARJ I reserved as a R
	Environmental Protection
Subscribed and sworn before me this 23rd day of October , 20	19
Notary	Public OFFICIAL SEAL NOTARY PUBLIC. STATE OF WEST V
My commission expires $11/2/2021$	H G Energy LLC PO Box 5519, Vianna, WV 2610 My Commission Expires November 2
	My Commission Expires November 2

Proposed Revegetation Treats	ment: Acres Disturbed 68.	187 Prevegetation pl	·
Lime	3 Tons/acre or to correct	to pH6.5	
Fertilizer type10-	-20-20	_	
Fertilizer amount	500	lbs/acre	
<sub>Mulch</sub> Hay	2 -	Γons/acre	
		Seed Mixtures	
Te	mporary	Perma	nnent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Attach: Maps(s) of road, location, pit provided). If water from the pacreage, of the land application	and proposed area for land pit will be land applied, inclu on area.	ng and completion process application (unless engineered plans include dimensions (L x W x D) of the pit, and	
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involve Plan Approved by: Comments: Pre-seed/	and proposed area for land bit will be land applied, incluon area.  ved 7.5' topographic sheet.  A Dubus/If  mulch as soon as	application (unless engineered plans included dimensions (L x W x D) of the pit, and	d dimensions (L x W), and
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involve Plan Approved by:	and proposed area for land bit will be land applied, incluon area.  ved 7.5' topographic sheet.  A Dubus/If  mulch as soon as	application (unless engineered plans included dimensions (L x W x D) of the pit, and	d dimensions (L x W), and
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involve Plan Approved by: Comments: Pre-seed/	and proposed area for land bit will be land applied, incluon area.  ved 7.5' topographic sheet.  A Dubus/If  mulch as soon as	application (unless engineered plans included dimensions (L x W x D) of the pit, and	d dimensions (L x W), an
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involve Plan Approved by: Comments: Pre-seed/	and proposed area for land bit will be land applied, incluon area.  ved 7.5' topographic sheet.  A Dubus/If  mulch as soon as	application (unless engineered plans included dimensions (L x W x D) of the pit, and	regulation.
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involve Plan Approved by: Comments: Pre-seed/	and proposed area for land bit will be land applied, incluon area.  ved 7.5' topographic sheet.  A Dubus/If  mulch as soon as	application (unless engineered plans included dimensions (L x W x D) of the pit, and a reasonably possible per EP E&S manual.	regulation.

### Cuttings Disposal/Site Water

cuttings -Haul off Company:

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

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

Environmental Coordination Services & Recycling (ECS&R) 8287 US Highway 19 Cochranton, PA 16814 814-425-7778

Disposal Locations:

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

Westmoreland Waste, LLC Permit # 1.00277 1.1.1 Conner Lane Belle Vernon, PA 15012 724-929-7694

Sycamore Landfill Inc. Fermit #R80-079001 05-2010 4301 Sycamore Ridge Road Hurricane, WV 25526 304-562-2611

Max Environnemental Technologies, Inc. Facility Permit # PAD004895146 / 901071, 255 Max Lane
Yukon, PA 25968
724-722-3500

Max Environnemental Technologies, Inc. Facility Permit # PADOS087072 / 801859 200 Max Drive Bulger, PA 15019 724-796-1571

Waste Management Kelly Run Permit # 100663 1901 Park Side Drive Elizabeth, PA 16087 412-884-7669

Waste Management South Hills (Arnoni) Permit # 100582 8100 Hill Road Library, PA 15129 724-348-7018 412-384-7569

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

Waste Management Meadowfill Permit # 1032 1.488 Dawson Drive Bridgeport, WV 26330

Brooks County Landfill Permit # SWF-108-97 / WV 0109029 Rd 2 Box 410 Colliers, WV 26025 304-748-0014 RECEIVED

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Wv.Erepertment of Environmental Protection

Wetzel County Landfill Permit # SWF-1021-97 / WV 0109186 Rt 1 Box 156A New Martinaville, WV 26035 804-455-8800

Energy Solutions, LLC Permit # UT 2800249 428 West 200 South Suite 200 Salt Lake City, UT 84101

Energy Solutions Services, Inc. Permit # R-79006-L24 1,560 Bear Creek Road Oak Ridge, TN 97830

Northern A-1 Environnemental Services Permit ID MID020906814 8947 US 131 North, PO Box 1030 Kalkaska, MI 49646 231-258-9961

#### Water Haul off Companies:

Dynamic Structures, Clear Creek DOT # 720485 3790 State Route 7 New Waterford, OH 44445 830-892-0164

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

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

Nuverra Environmental Solutions 1.1942 Veterans Memorial Highway Masontown, WV 26542

Mustang Olifield Services LLC PO Box 799 St. Cigirsville, OH 43950

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

#### Disposal Locations:

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

Solidification/Incineration

Soil Remediation, Inc. Permit # 02-20758

6065 Arrel-Smith Road

Lowelville, OH 44486

280-586-6825

Adams #1 (Buckeye Brine, LLC) Permit # 84-031-2-7177 28986 Airport Road Coshocton, OH 48812 740-575-4484 512-478-6545 CMS of Dalaware Inc. DBA CMS Olifield Serv 301 Commerce Drive Macrestown, NJ 08057

Force, Inc. 1880 Rts. 286 Hwy. E, Suite 808 Indians, PA 18701

Sala Construction P.C. Box 544 St. Mary's, WV 26170

Equipment Transport 1 Tyler Court Carlisle, PA 17018

Mysrs Well Sarvice, \_\_\_ 2001 Ballpark Court Export, PA 15682

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

Nichias 1-A (SWIW #18)
Permit # 8862
800 Cherrington Pkwy, Suite 200
Coraopolls, PA 15108
412-829-7275

Grosella (SWIW #34) Permit # 4096 Rt. 88 Garretisville, OH 719-276-4816

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 48767 514-648-8898 740-786-6495



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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 #84-081-2-7241-00-00 2680 Exposition, Suite 117 Austin, TX 78708 612-478-6545

Mozena #1 Well (SWIW # 18) Permit # 84-157-2-6511-00-00 6867 E. State Street Newcomerstown, OH 48882 740-768-3966

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

SOS D#1 (SWIW #12)
Permit # 84-059-2-4202-00-00
Silcor Olifield Services, Inc.
2989 Hubbard Road
Youngstown, PH 44505

Dudley #1 UIC (SWIW #1) Permit # 34-121-2-2459-00-00 Select Energy Services, LLC 7694 S. Pleasants Hwy St. Marys, WV 26170 804-669-2652 OH UIC #1 Bu keye UIC Barnesville 1 & 2 CNX Gas Com. #any, LLC 1000 Consol Energy Drive Permit # 84-018-2-0608-00-00 Permit # 34-018-2-0614-00-00 804-828-6668

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

Chapin #7 UIC (SWIW #7)
Fermit # 84-088-2-4187-00-00
Elkhead Gas& Oil Company
12168 Marne Rd. NE
Newark, OH 48055
740-768-8966

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## 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

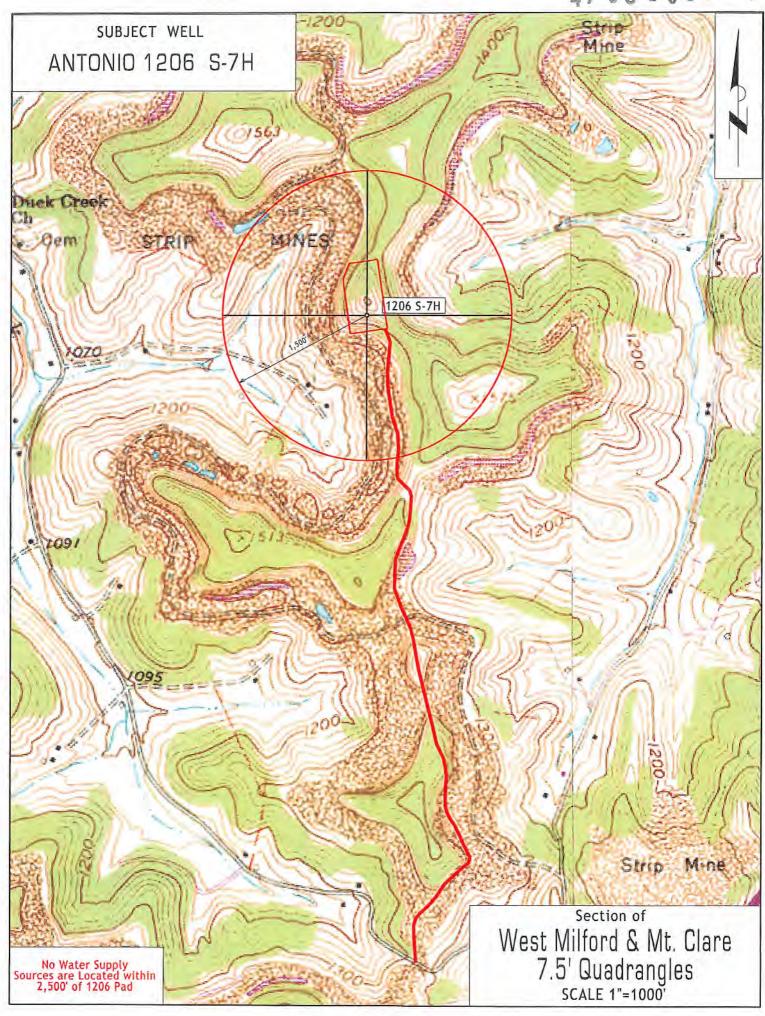
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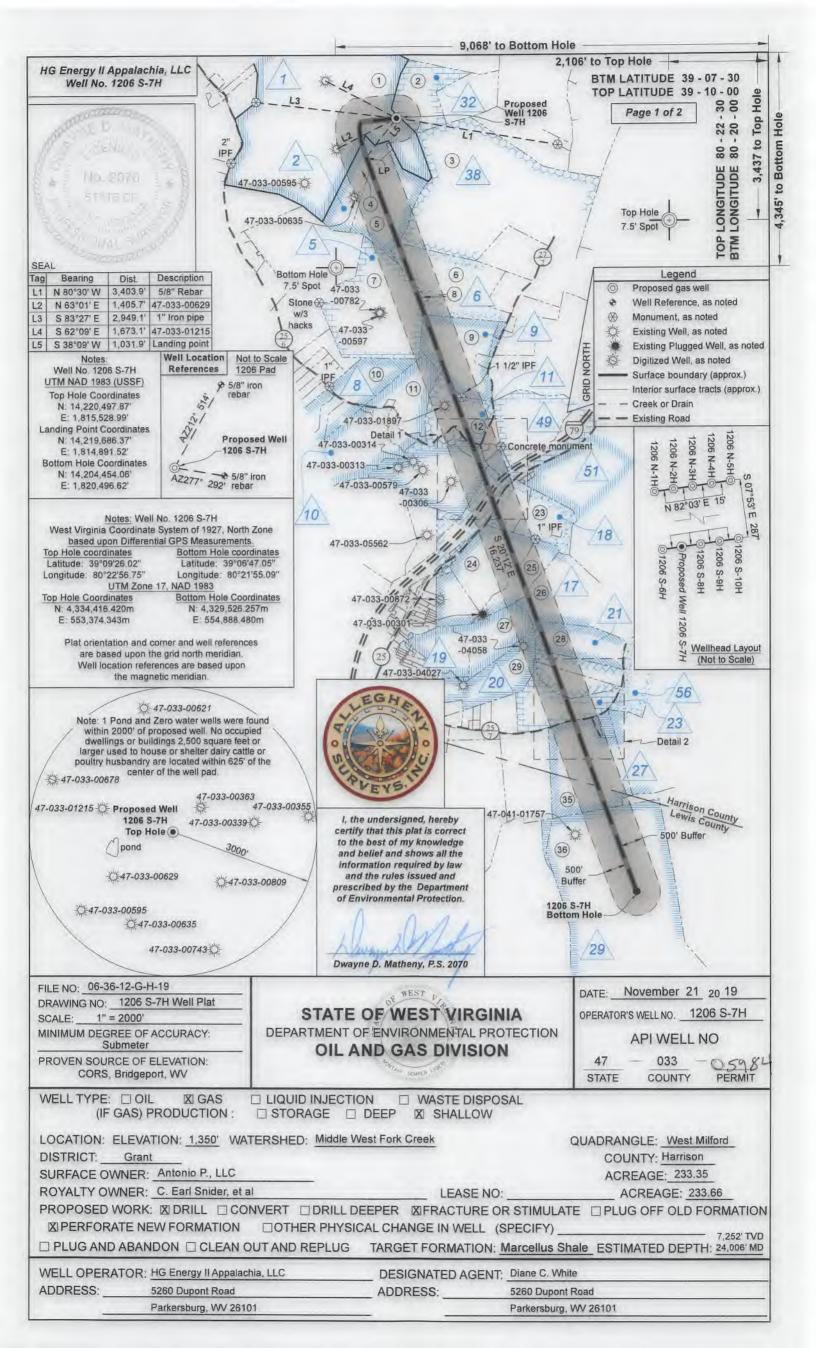
50W 12/4/2019

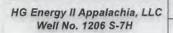
Parkersburg, WV 26101

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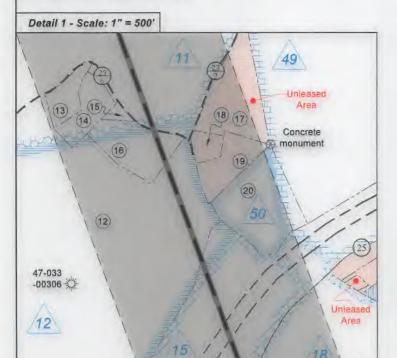






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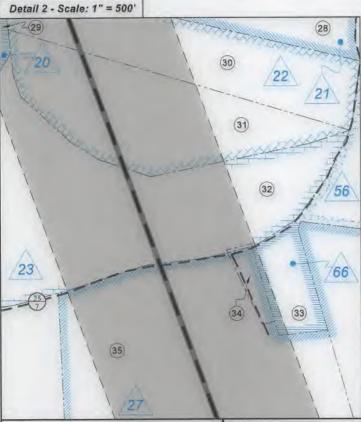




23

(22)

ID	Lease
1	C. Earl Snider, et al
2	Creed W. Snider, et al
5	Hazel Kieffer, et al
6	Nora A. Davisson, et al
8	Robert F. Martin, et al
9	Nora A. Davisson, et al
10	Ethel J. Ward, et al
11	W.M. West
12	Ode Bright, et al
15	iden McWhorter, et ux
17	Iden McWhorter, et al
18	Mabel Ann West
19	Howard J. Reed, et al
20	J.A. Shock, et ux
21	Cora B Reed, et al
22	Emma Waggoner, et al
23	Stanley Yochym, et al
27	H.A. Boylen, et al
29	Fleming Howell, et al
32	Alton Bell, et al
38	Lloyd Stout, et al
49	J.C. McWhorter, et al
50	B.P. Schrader, et ux
56	Sopha McWhorter, et al
66	Jewell C. Holden, et al



Parkersburg, WV 26101

		Harrison County - Grant Outside District	Maria San	
No.	TM / Par	Owner	Bk / Pg	Ac.
1	426 / 71	Antonio P., LLC	1503 / 291	233.35
2	426 / 72	Charles R. & Franklin L. Sutton	1301 / 98	30.00
3	446/3	Antonio P., LLC	1503 / 291	200.00
4	446 / 1	Antonio P., LLC	1503 / 291	24.10
5	446/2	Antonio P., LLC	1503 / 291	43.89
6	446 / 19	Mary Richards	W118 / 904	52.72
7	446 / 18	William L. Jenkins	1155 / 581	84.41
8	446 / 18.1	Mary Richards	W118 / 904	0.09
9	446 / 33	Mary Richards	W118 / 904	46.23
10	446 / 31.1	Jeri Booher	1421 / 1073	22.61
11	446 / 39	Charles Nay	W184 / 59	30.11
12	446 / 40	W. Joe & Hannah M. Sutton	1192 / 181	82.69
13	446 / 40.3	John Henry McWhorter	1422 / 1120	0.89
14	446 / 40.2	John Henry McWhorter	1422 / 1120	1.20
15	446 / 40.4	John Henry McWhorter	1422 / 1120	0.20
16	446 / 40.5	Leroy J. Newman	1422 / 137	2.10
17	446 / 49	Slate Property LLC	1596 / 1122	2.97
18	446 / 49.1	Bernard D. Bennett II	1242 / 420	0.64
19	446 / 49.2	Premier Construction Group LLC	1556 / 303	1.39
20	446 / 42	Charles & Veronica Corssan	1381 / 333	3.53
21	466 / 13.1	Robert & Ruth Highland	1160 / 641	2,55
22	466 / 15	Charles R. Sutton	/	9.20
23	466 / 16	Charles R. Sutton	/	22.77
24	466 / 14.2	Charles & Franklin Sutton	905 / 259	37.33
25	466 / 14	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	21.16
26	466 / 35	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	60.00
27	466 / 32	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	29.57
28	466 / 34	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	27.46
29	466 / 52	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	46.40
30	466 / 33	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	13.75
31	466 / 54	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	11.04
32	466 / 53	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	55.00
33	466 / 69	Edward Clark	1519 / 282	3.00
34	466 / 68.1	Angelica A. Dix	1285 / 386	1.00
35	466 / 68	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	59,25

| Lewis County - Hackers Creek District | No. | TM / Par | Owner | Bk / Pg | Ac. | 36 | 9C / 35 | S. Thomas Bond, et ux | 577 / 328 | 282.17

Parkersburg, WV 26101

FILE NO: 06-36-12-G-H-19

DRAWING NO: 1206 S-7H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION:

CORS, Bridgeport, WV

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

DATE: November 21 20 19
OPERATOR'S WELL NO. 1206 S-7H

API WELL NO

STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☐ GAS ☐ LIQUID INJECT		
LOCATION: ELEVATION: 1,350' WATERSHED: Middle DISTRICT: Grant SURFACE OWNER: Antonio P., LLC	West Fork Creek	QUADRANGLE: West Milford COUNTY: Harrison ACREAGE: 233.35
ROYALTY OWNER: C. Earl Snider, et al	LEASE NO:	ACREAGE: 233.66
PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL ☑ PERFORATE NEW FORMATION ☐ OTHER PHYS☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG	SICAL CHANGE IN WELL (SPECIFY)	7,252' TVD
WELL OPERATOR: HG Energy II Appalachia, LLC	DESIGNATED AGENT: Diane C.	
ADDRESS: 5260 Dupont Road	ADDRESS: 5260 Dup	ont Road

			ANTONIO 1.	ANTONIO 1206 SOUTH UNIT AND PROPOSED WELLS S-6H, S-7H, S-8H, S-9H and S-10H.	EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR. UNIT AND PROPOSED WELLS S-6H, S-7H,	S-7H, S-8H, S-	9H and S-	10H.		
Ե	APi	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELLTYPE	DVT	STATUS	LATITUDE	LONGITUDE
1	4703300038	HARRISON	B Swisher 2 CW417	Dominion Energy Transmission, Inc.	Gordon Stray	Storage	2350	ACTIVE	39,126611	-80.354494
2	4703300297	HARRISON	West	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1868	ACTIVE	39.135172	-80.374098
3	4703300301	HARRISON	John M McWhorter	Trio Petroleum Corporation	Hampshire Grp	Gas	2375	PLUGGED	39.129015	-80,376251
4	4703300306	HARRISON	A L West	Dominion Energy Transmission Inc.	Hampshire Grp	Gas	2340	ACTIVE	39.136607	-80.378501
2	4703300311	HARRISON	G Manley Curry	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	2020	ACTIVE	39.139325	-80.362560
9	4703300313	HARRISON	A L West	Dominion Energy Transmission Inc.	Gantz	Storage	1956	ACTIVE	39,137413	-80.382384
7	4703300314	HARRISON	J M McWhorter	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2185	PLUGGED	39.139183	-80.370227
80	4703300325	HARRISON	Curry	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	1729	ACTIVE	39.143102	-80.362213
6	4703300330	HARRISON	P A Davisson	Dominion Energy Transmission, Inc.	Gantz	Storage	1983	ACTIVE	39,136911	-80.367064
10	4703300339	HARRISON	Alton Bell CW-333	Dominion Energy Transmission, Inc.	Gantz	Storage	1959	ACTIVE	39.158620	-80.376275
11	4703300347	HARRISON	Herman Nixon	Dominion Energy Transmission, Inc.	not available	not available		ABANDONED	39.122387	-80.361419
12	4703300355	HARRISON	Fred H Smith CW-334	Dominion Energy Transmission, Inc.	Gantz	Storage	2012	ACTIVE	39.158950	-80.372286
13	4703300363	HARRISON	A Bell	Dominion Energy Transmission Inc.	Thirty-foot	Storage	2150	PLUGGED	39.158029	-80.381243
14	4703300399	HARRISON	L Davisson	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2042	PLUGGED	39.144408	-80.364636
15	4703300547	HARRISON	Maude Davisson	Dominion Energy Transmission, Inc.	Benson	Gas	4530	ACTIVE	39.144146	-80.372692
16	4703300579	HARRISON	Ode Bright	Dominion Energy Transmission Inc.	Benson	Gas	4595	ACTIVE	39.137253	-80.380576
17	4703300595	HARRISON	C E Snider	Dominion Energy Transmission Inc.	Benson	Gas	4620	ACTIVE	39.153667	-80.389060
18	4703300610	HARRISON	David H Nutter	Dominion Energy Transmission, Inc.	Benson	Gas	4412	ACTIVE	39.136470	-80.369890
19	4703300629	HARRISON	C Earl Snider	Dominion Energy Transmission Inc.	Thirty-foot	Storage	1949	ACTIVE	39,155591	-80.386677
20	4703300631	HARRISON	C E Hickman	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2094	ACTIVE	39.150163	-80.390145
21	4703300633	HARRISON	Flossie Davisson	Dominion Energy Transmission, Inc.	Gordon	Storage	1814	ACTIVE	39.147967	-80.376397
22	4703300634	HARRISON	Nora Davisson	Dominion Energy Transmission, Inc.	Fifty-foot	Gas	2072	ABANDONED	39.142236	-80.376677
23	4703300635	HARRISON	C W Snider CW231	Dominion Energy Transmission, Inc.	Gordon	Storage	1946	ACTIVE	39.152100	-80.386365
24	4703300639	HARRISON	Sophia McWhorter	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2121	ACTIVE	39.132963	-80.356778
25	4703300644	HARRISON	P M White	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1825	ACTIVE	39.129169	-80.380402
26	4703300645	HARRISON	N A McWhorter	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2050	ACTIVE	39,131083	-80.362021
27	4703300650	HARRISON	S McWhorter CW312	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1892	ACTIVE	39.128533	-80.363342
28	4703300651	HARRISON	Allen M Dyer CW320	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	2050	ACTIVE	39.139952	-80.364713
29	4703300725	HARRISON	W E Ware CW325	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1985	ACTIVE	39.142666	-80.360350
30	4703300743	HARRISON	Petitto Brothers Inc	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1988	ACTIVE	39.151385	-80.379306
31	4703300765	HARRISON	L Gifford CW331	Dominion Energy Transmission, Inc.	Fifth	Storage	2495	PLUGGED	39.154858	-80.368549
32	4703300782	HARRISON	H Kieffer CW229	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	2089	ACTIVE	39.146248	-80.383657

SURVEYED WELL	GREEN DENOTES SURVEYED WELLS							
-80.357902	39.116102	ACTIVE	4450	Gas	Greenland Gap Fm	Dominion Energy Transmission, Inc.	Rose Ann & John Hunter Kolb	Rose Ar
-80.352876	39.115377	ACTIVE	4287	Gas	Misc Sands-BNSN/BRLR	Dominion Energy Transmission, Inc.	Franklin Hicks	Frank
-80.376628	39.119406	ACTIVE	2067	Observation	Thirty-foot	Dominion Energy Transmission, Inc.	M Edmonds cw-212	Z
-80,369601	39.116432	ACTIVE	4585	Gas	Benson	Dominion Energy Transmission, Inc.	Fleming Howell	F
-80,383580	39,146203	ACTIVE	4530	Gas		Dominion Energy Transmission, Inc.	Hazel Kieffer	Ha
-80,354236	39.132479	ACTIVE	2190	Storage	Fifty-foot	Dominion Energy Transmission, Inc.	B Swisher CW420	B S
-80,365053	39.154343	PLUGGED	2330	not available	Thirty-foot	Dominion Energy Transmission, Inc.	SJ Davisson	S
-80.365129	39.147409	PLUGGED	4390	not available	not available	Dominion Energy Transmission, Inc.	JN Rector	-
-80.378922	39.140902	UNKNOWN	2492	not available	Gordon	Dominion Energy Transmission, Inc.	W M West CW275	
-80.352489	39.12103	UNKNOWN	4200	Gas	Greenland Gap Fm	Dominion Energy Transmission, Inc.	E F Randolph	
-80.370130	39.141141	ACTIVE	4700	Gas	Benson	Dominion Energy Transmission, Inc.	Rudy L McWhorter	-
-80.380312	39.133568	ACTIVE	4600	Gas	Benson	Dominion Energy Transmission, Inc.	William F & Mary A Reel	
-80,360416	39.128841	ACTIVE	4440	Gas	Greenland Gap Fm	Dominion Energy Transmission, Inc.	Charles R & Franklin L Sutton	
-80.352193	39.122550	ACTIVE	4426	Gas	Greenland Gap Fm	Dominion Energy Transmission, Inc.	Chas R/F L Sutton	
-80,356801	39.120647	ACTIVE	4641	Gas	Greenland Gap Fm	Dominion Energy Transmission, Inc.	Vernon D Cochran Jr	
-80.368972	39.148072	PLUGGED	3183	not available	Hampshire Grp	Dominion Energy Transmission, Inc.	Robert Nelson Rector	- 1
-80.374607	39.140605	ACTIVE	4551	Gas	Benson	Dominion Energy Transmission, Inc.	Rudy L McWhorter	
-80.373262	39.127194	ACTIVE	5102	Gas	Greenland Gap Fm	Ross & Wharton Gas Company, Inc.	Jack Shock etux 3	-
-80.377732	39.125018	ACTIVE	4400	Gas	Benson	Ross & Wharton Gas Company, Inc.	Jack Shock etux 2	1
-80,364331	39.132628	ACTIVE	4440	Gas	Benson	Dominion Energy Transmission, Inc.	N A McWhorter	1 94
-80.360453	39.134829	ACTIVE	1	Storage	not available	Dominion Energy Transmission, Inc.	N McWhorten	
-80.378194	39,148180	ACTIVE	4989	Gas	Brallier	Dominion Energy Transmission, Inc.	N E Davisson	
-80.378911	39.131201	ACTIVE	1974	Storage	Thirty-foot	Dominion Energy Transmission, Inc.	L Prince CW213	
-80.365169	39,130759	ACTIVE	4400	Storage	Benson	Dominion Energy Transmission, Inc.	N A McWhorter	
-80.378746	39,155225	PLUGGED	4793	not available	Mid Devonian	Dominion Energy Transmission, Inc.	Lloyd Stout CW234	
-80.372851	39.152853	ACTIVE	2160	Storage	Greenland Gap Fm	Dominion Energy Transmission, Inc.	Lloyd Stout CW330	1
-80.362910	39,141189	ACTIVE	4579	Gas	Greenland Gap Fm	Dominion Energy Transmission, Inc.	Charles R Sutton	
-00.302.204	39.124641	ACTIVE	4421	Gas	Benson	Dominion Energy Transmission, Inc.	Maxon Boylen	

SOURCE: WVGES DATASET (2017) and WVDEP WEBSITE



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.

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

Sincerely,

Diane Whote

Diane White

Enclosure

RÉCEIVED Office of Oil and Gas

- AJAN 07 2020

WVDepartment of Laurantment & Fratection



October 9, 2019

Antero Resources 535 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:

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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

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WVDsymmenioi Environmenia Protection



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.

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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.

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

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

Should you have any questions or desire further information, please contact me at 304-420-1119 or <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

Office of Orland Gas

----JAN 0.7 2020

Wy Popartmonijo) Istvirosmani Protection



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

Sincerely,

Diane White

Diane White

Enclosure

Office of Oil and Gas

JAN 0 7 2020

Viv Dipartment of Environmental Protection



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

RECEIVED
Office of Orland Gas

- JAN 0 7 2020



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:

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Sincerely,

Diane White

Diane White

Enclosure





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

Dear Sir:

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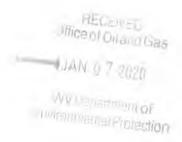
Should you have any questions or desire further information, please contact me at 304-420-1119 or dwhite@hgenergyllc.com. You may also contact the WV Office of Oil and Gas at 304-926-0444.

Sincerely,

Diane White

Diane White

Enclosure



WW-6A1 (5/13)

Operator's	Well No.	Antonio 1206 S-7H

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

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

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

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

\*\*See Attached Sheets\*\*

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

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

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

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

	Well Operator:	HG Energy II Appalachia, LLC
RECEIVEL.	By:	Diane White Diane White
Office of Oil and Gas	Its:	Accountant

JAN 07 2020

Page 1 of \_\_\_\_

# HG Energy II Appalachia, LLC Antonio 1206 S-7H Lease Chains

305				HG Energy II Appalachia, LLC Antonio 1206 S-7H Lease Chains		Wy response	Wy has acment of Environmental Protection	
7 1206 Tract	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
L.				ALTON BELL, SINGLE; MARCELLA R. BOND AND KARLEY D. BOND, HER HUSBAND; MARY E. KENNEDY, WIDOW; DORSEY C. KENNEDY AND VELMA ICE KENNEDY, HIS WIFE; LELA K. RUMBLE, WIDOW; MARTHA F. WILSON, WIDOW; HARRY W. KENNEDY AND LILLIAN KENNEDY, HIS WIFE; JOHN L. KENNEDY AND REVA B. KENNEDY, HIS WIFE; SUE K. SWISHER, WIDOW; KATHRYN BUTLER AND THURMAN BUTLER, HER HUSBAND; S. G. KENNEDY AND LESSIE I. KENNEDY AND LESSIE II. KENNEDY AND LESSIE I. KENNEDY	HODE NATI IBAI GAS COMDANY	NOT LESS THAN 1/8	701	7
				KENNEUT AND JESSIE L. RENNEUT, HIS WIFE	CONSOLIDATED GAS SLIBBLY CORPORATION	CONFIBMATORY DEED	18/	591
•				CONSOLIDATED GAS SLIPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT ASSIGNMENT	1136	179
3	10066838	12-0426-0072-0000	0100892000	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
32	100000		1	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	1295
				EARL SNIDER AND RELLA SNIDER, HIS WIFE; MARGARET RICE AND W. A. RICE, HER HUSBAND; K. M. SNIDER AND HANNAH M. SNIDER, HIS WIFE; CREED SNIDER AND MAE SNIDER, HIS WIFE; THE UNION NATIONAL BANK OF CLARKSBURG TRUSTEE U/W OF GERTRUDE E.				
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	519 179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
-	LC068498	12-0426-0071-0000	Q100540000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	SOSAM	
						SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY I RANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF	1601	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	1295

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HAZEL KIEFFER AND STEVE KIEFFER, HER HUSBAND; JUNIUS B. QUEEN AND EDNA M. QUEEN, HIS WIFE; ROSA L. WILSON, WIDOW; GEO. R. SINCLAIR, WIDOWER; LAURA M. REYNOLDS, WIDOW; ALICE B. YOUNG AND J. B. YOUNG, HER HUSBAND; CLARA B. HAWKINS AND C. W. HAWKINS, STARRETT, HER HUSBAND; CLARA B. HAWKINS AND C. W. HAWKINS, HER HUSBAND; COMM. FOR IVA SINCLAIR; EARL W. QUEEN AND PATRICIA A. QUEEN, HIS WIFE; THOS. R. HORNOR AND ELANOR K. HORNOR, HIS WIFE; FRANK B. QUEEN AND PEARL QUEEN, HIS WIFE HOPE NATURAL GAS COMPANY  CONSOLIDATED GAS SUPPLY CORPORATION  CONSOLIDATED GAS SUPPLY CORPORATION  CONSOLIDATED GAS SUPPLY CORPORATION	NOBLE ENERGY, INC.  DOMINION ENERGY TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	DOMINION ENERGY TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATI RAI GAS COMPANY	LI OVD STOLIT AND MAY STOLIT HIS WIFE	DOMINION ENERGY TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	DOMINION I RANSWISSION, INC.	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATURAL GAS COMPANY	WOOFTER AND ANDREW C. WOOFTER, JR.	JANE WOLVERTON AND J. MASON WOLVERTON, HER HUSBAND, AND THE PARKERSBURG NATIONAL BANK, GUARDIAN FOR JOSEPH	MILDRED G. TALLMAN AND KIRK C. TALLMAN, HER HUSBAND, FLORA	HUSBAND, FORD GASTON AND MILDRED E, GASTON, HIS WIFE,	DORA E. MCWHORTER, HIS WIFE, MARY MCWHORTER WEST AND	STOUT AND JESSE C. STOUT, HER HUSBAND, N. G. MCWHORTER AND	CREED W. SNIDER AND MAE SNIDER, HIS WIFE, BERTHA STALNAKER, WIDOW, C. H. GASTON AND NORA M. GASTON, HIS WIFE, LILLIAN	
HOPE NATURAL GAS COMPANY  CONSOLIDATED GAS SUPPLY CORPORATION  CONSOLIDATED GAS TRANSMISSION CORPORATION  CONSOLIDATED GAS TRANSMISSION CORPORATION  CONG TRANSMISSION CORPORATION	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATURAL GAS COMPANY	HG ENERGY II APPALACHIA. LLC	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	DOMINION TRANSMISSION INC	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATURAL GAS COMPANY							
NOT LESS THAN 1/8 CONFIRMATORY DEED ASSIGNMENT MINERAL DEED MERGER/NAME CHANGE	ASSIGNMENT SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	MERGER/NAME CHANGE	PARTIAL ASSIGNMENT (32%)	LIMITED PARTIAL ASSIGNMENT (50%)	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	MEMORANDUM FARMOUT AGREEMENT	MERGER/NAME CHANGE	MERGER/NAME CHANGE	ASSIGNMENT	CONFIRMATORY DEED	NOT JESS THAN 1/8	FARMOUT AGREEMENT	FARMOUT AGREEMENT	SECOND AMENDMENT TO MEMORANDUM OF	ASSIGNMENT	ASSIGNMENT	PARTIAL ASSIGNMENT (32%)	LIMITED PARTIAL ASSIGNMENT (50%)	MEMORANDUM FARMOUT AGREEMENT	MERGER/NAME CHANGE	MERGER/NAME CHANGE	AGENCED (NAME CHANCE	NOT LESS THAN 1/8							_
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410 179 250 509	692 581	942	125	1235	491	33	362	795	250	179	221	1295	581		692	942	125	1235	33	367	205	179	90		El Protoction	Ĉ		6363	3000	Sir

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ROBERT F. MARTIN AND THERESA D. MARTIN, HIS WIFE, ESTELLE SPRINGER AND A. M. SPRINGER, HER HUSBAND; AND A. EARLE NEALE AND ADELAIDE B. NEALE, HIS WIFE HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC.	NORA E. DAVISSON, SINGLE; FLOSSIE DAVISSON, WIFE OF RAIPH G. DAVISSON; AND FLOSSIE DAVISSON, COMMITTEE OF RAIPH G. DAVISSON HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	NORA E. DAVISSON, SINGLE; FLOSSIE DAVISSON, WIFE OF RALPH G. DAVISSON; FLOSSIE DAVISSON, COMMITTEE OF RALPH G. DAVISSON HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION  DOMINION TRANSMISSION, INC.  CNX GAS COMPANY LLC  DOMINION TRANSMISSION, INC.  CNX GAS COMPANY LLC  DOMINION TRANSMISSION, INC.  CNX GAS COMPANY LLC  DOMINION TRANSMISSION, INC.  NOBLE ENERGY, INC.
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NOT LESS THAN 1/8  CONFIRMATORY DEED  ASSIGNMENT  MERGER/NAME CHANGE  MERGER/NAME CHANGE  MEMORANDUM FARMOUT AGREEMENT  FIRST AMENDMENT TO MEMORANDUM OF  FARMOUT AGREEMENT	NOT LESS THAN 1/8  CONFIRMATORY DEED  ASSIGNMENT  MERGER/NAME CHANGE  MERGER/NAME CHANGE  MEMORANDUM FARMOUT AGREEMENT  LIMITED PARTIAL ASSIGNMENT (50%)  PARTIAL ASSIGNMENT (32%)  ASSIGNMENT  ASSIGNMENT  MERGER/NAME CHANGE  SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT  THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT  THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	NOT LESS THAN 1/8  CONFIRMATORY DEED  ASSIGNMENT  MERGER/NAME CHANGE  MERGER/NAME CHANGE  MEMORANDUM FARMOUT AGREEMENT  LIMITED PARTIAL ASSIGNMENT (50%)  PARTIAL ASSIGNMENT (32%)  ASSIGNMENT  MERGER/NAME CHANGE  ASSIGNMENT  SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	MERGER/NAME CHANGE  MEMORANDUM FARMOUT AGREEMENT  FIRST AMENDMENT TO MEMORANDUM OF  FARMOUT AGREEMENT  LIMITED PARTIAL ASSIGNMENT (50%)  PARTIAL ASSIGNMENT (32%)  ASSIGNMENT  MERGER/NAME CHANGE  ASSIGNMENT  SECOND AMENDMENT TO MEMORANDUM OF  FARMOUT AGREEMENT
781 903 1136 51 51 58 1522 1522	779 903 1136 51 51 1522 1543 1576 1584 1600 WV50S 1601 1601	779 903 1136 51 51 58 1522 1543 1576 1584 WVSOS 1600 1601	58 1522 1524 1524 1543 1576 1576 1584 WVSOS 1600
39 179 250 795 362 33 491	40 179 250 795 362 33 1235 125 942 692 581	37 179 250 795 362 33 1235 125 942 692 581	362 33 491 1235 125 942 692 581

692	1600	ASSIGNMENT	HG ENERGY II APPALACHIA, LLC	NOBLE ENERGY, INC.				
	WVSOS	MERGER/NAME CHANGE	DOMINION ENERGY TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.				
94	1584	ASSIGNMENT	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	-	12-0446-0049-0001		_
12.	1576	PARTIAL ASSIGNMENT (32%)	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	DOMINION TRANSMISSION, INC.		12-0446-0040-0005		
1235	1543	LIMITED PARTIAL ASSIGNMENT (50%)	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	CT00572000	12-0446-0040-0004	LC005006	11
491	1524	FARMOUT AGREEMENT	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.		12-0446-0040-0003		-
2	7767	FIRST AMENDMENT TO MEMORANDUM OF	City City Comments	Contracts the admission of the contracts		12-0446-0040-0002		
22	1522	MEMORANDIIM OF FARMOUT AGREEMENT	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	3	n/o 12-0446-0040-0000		
362	58	MERGER/NAME CHANGE	DOMINION TRANSMISSION, INC.					
795	51	MERGER/NAME CHANGE	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION				
250	1136	ASSIGNMENT	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION				
179	903	CONFIRMATORY DEED	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATURAL GAS COMPANY				
340	152	ASSIGNMENT	HOPE NATURAL GAS COMPANY	SOUTH PENN OIL COMPANY				
219	121	NOT LESS THAN 1/8	SOUTH PENN OIL COMPANY	W. M. WEST				
1295	1621	FARMOUT AGREEMENT	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.				
		THIRD AMENDMENT TO MEMORANDUM OF						
581	1601	FARMOUT AGREEMENT	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.				
		SECOND AMENDMENT TO MEMORANDUM OF						-
	WVSOS	MERGER/NAME CHANGE	DOMINION ENERGY TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.				
692	1600	ASSIGNMENT	HG ENERGY II APPALACHIA, LLC	NOBLE ENERGY, INC.				
942	1584	ASSIGNMENT	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC				
125	1576	PARTIAL ASSIGNMENT (32%)	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	DOMINION TRANSMISSION, INC.				
1235	1543	LIMITED PARTIAL ASSIGNMENT (50%)	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC				
491	1524	FARMOUT AGREEMENT	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.				
		FIRST AMENDMENT TO MEMORANDUM OF						
33	1522	MEMORANDUM FARMOUT AGREEMENT	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.				
362	58	MERGER/NAME CHANGE	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION		12-0446-0039-0004		
795	51	MERGER/NAME CHANGE	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION		12-0446-0039-0003		
250	1136	ASSIGNMENT	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	CIOUSISOU	12-0446-0039-0002	LC073301	10
179	903	CONFIRMATORY DEED	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATURAL GAS COMPANY		12-0446-0039-0001		
124	890	NOT LESS THAN 1/8	HOPE NATURAL GAS COMPANY	AND EMMA C. MCINTYRE, HIS WIFE		12-0446-0039-0000		
				ALTON N. BUSH, HER HUSBAND; C. A. MILLER; CLOVIS S. MCINTYRE		12-0446-0032-0000		
				SCOTT AND J. EVERETT SCOTT, HER HUSBAND; NAOMI E. BUSH AND				
				BUREN HINKLE AND EDITH MYRTLE HINKLE, HIS WIFE; BEATRICE				
			Taking Higher Froiection	THURMAN G. SCOTT; YOCHYM BROTHERS COAL COMPANY; ROY				
	-		C State Control of the Control of th	WIFE; GERALDINE SHAVER AND HAROLD F. SHAVER, HER HUSBAND;				
				HER HUSBAND; JAMES W. MCINTYRE AND HELEN V. MCINTYRE, HIS				
				HUSBAND; JESSIE MCINTYRE; IRENE V. FURMER AND JOHN FURMER,				
			- AND 7 2020	HIS WIFE; MAXINE J. MEREDITH AND JOHN L. MEREDITH, HER				
				HIS WIFE; FLORA GULLEY; COY D. MCINTYRE AND AGNES MCINTYRE,				
			Onice of Off and Caas	PAULINE LOVE; ETHEL HINKLE; SAMUEL B. FLOYD AND RUBY FLOYD,				
			RECEIVED	ETHEL J. WARD AND HOY C. WARD, HER HUSBAND; ELLA GAY				
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100	1601	EABMOLIT AGREEMENT	ENERGY II ARRAI ACHIA II C	DOMINION ENERGY TRANSMISSION INC				<b>A</b>
581	1601	FARMOUT AGREEMENT	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.				7 (
		SECOND AMENDMENT TO MEMORANDUM OF						0
	WVSOS	MERGER/NAME CHANGE	DOMINION ENERGY TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.				3
692	1600	ASSIGNMENT	HG ENERGY II APPALACHIA, LLC	NOBLE ENERGY, INC.				,
942	1584	ASSIGNMENT	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC				**************************************
125	1576	PARTIAL ASSIGNMENT (32%)	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	DOMINION TRANSMISSION, INC.		12-0446-0031-0003		0
1235	1543	LIMITED PARTIAL ASSIGNMENT (50%)	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	<del>-</del>	7000_TEOO_0440_7T		5
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MABEL ANN WEST HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC.	B. P. SCHRADER AND NANCY K. SCHRADER, HIS WIFE CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION  CNG TRANSMISSION, INC.  DOMINION TRANSMISSION, INC.  CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC.  DOMINION TRANSMISSION, INC.  DOMINION ENERGY TRANSMISSION, INC.  DOMINION ENERGY TRANSMISSION, INC.		DOMINION ENERGY TRANSMISSION, INC.  DOMINION ENERGY TRANSMISSION, INC.
CONSOLIDATED GAS COMPANY CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC CNX GAS COMPANY LLC NOBLE ENERGY, INC. NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC DOMINION ENERGY II APPALACHIA, LLC	CONSOLIDATED GAS SUPPLY CORPORATION  CONSOLIDATED GAS TRANSMISSION CORPORATION  CONSOLIDATED GAS TRANSMISSION CORPORATION  CONG TRANSMISSION CORPORATION  DOMINION TRANSMISSION, INC.  CNX GAS COMPANY LLC  CNX GAS COMPANY LLC  NOBLE ENERGY, INC.  CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.  NOBLE ENERGY, INC.  HG ENERGY II APPALACHIA, LLC  DOMINION ENERGY TRANSMISSION, INC.  HG ENERGY II APPALACHIA, LLC  HG ENERGY II APPALACHIA, LLC  HG ENERGY II APPALACHIA, LLC	HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION  DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC CNX GAS COMPANY LLC NOBLE ENERGY, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. NOBLE ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC
CONFIRMATORY DEED CONFIRMATORY DEED CONFIRMATORY DEED MERGER/NAME CHANGE MERGER/NAME CHANGE MERGER/NAME CHANGE MEMORANDUM FARMOUT AGREEMENT FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT LIMITED PARTIAL ASSIGNMENT (50%) PARTIAL ASSIGNMENT (32%) ASSIGNMENT ASSIGNMENT ASSIGNMENT ASSIGNMENT SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	ASSIGNMENT MERGER/NAME CHANGE  MERGER/NAME CHANGE  MERGER/NAME CHANGE  MERGER/NAME CHANGE  MERGER/NAME CHANGE  MEMORANDUM FARMOUT AGREEMENT FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT  LIMITED PARTIAL ASSIGNMENT (32%)  PARTIAL ASSIGNMENT (32%)  ASSIGNMENT ASSIGNMENT ASSIGNMENT  MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT  THRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT  FARMOUT AGREEMENT	CONFIRMATORY DEED  ASSIGNMENT  MERGER/NAME CHANGE  MERGER/NAME CHANGE  MEMOGRANDUM FARMOUT AGREEMENT FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT  LIMITED PARTIAL ASSIGNMENT (32%)  PARTIAL ASSIGNMENT (32%)  ASSIGNMENT  ASSIGNMENT  ASSIGNMENT  MERGER/NAME CHANGE  SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT  THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT  THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT TO MEMORANDUM OF FARMOUT AGREEMENT TO MEMORANDUM OF FARMOUT AGREEMENT
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179 509 795 362 33 33 491 1235 125 942 692 581	1176 250 795 362 33 491 11235 1225 942 692 581	179 250 795 362 362 33 491 1235 125 942 692 581	581

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STANLEY YOCHYM AND ROSE ALICE YOCHYM, HIS WIFE; TONY YOCHYM; TONY YOCHYM AND STANLEY YOCHYM, TRADING AND DOING BUSINESS AS THE YOCHYM BROTHERS COAL COMPANY HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION COMINION TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC.	EMMA A. WAGGONER, WIDOW; AND OLIVE N. MCWHORTER, SINGLE HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CIX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CIX GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	CORA B. REED, WIDOW; AND OLIVE N. MCWHORTER HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.  JACK ALLEN SHOCK ET UX  MIKE ROSS INC
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NOT LESS THAN 1/8  CONFIRMATORY DEED  ASSIGNMENT  MERGER/NAME CHANGE  MIERGER/NAME CHANGE  MIEMORANDUM OF FARMOUT AGREEMENT  LIMITED PARTIAL ASSIGNMENT (50%)  PARTIAL ASSIGNMENT (32%)  ASSIGNMENT  ASSIGNMENT  MERGER/NAME CHANGE  SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	NOT LESS THAN 1/8 CONFIRMATORY DEED ASSIGNMENT MERGER/NAME CHANGE MENORANDUM OF FARMOUT AGREEMENT LIMITED PARTIAL ASSIGNMENT (50%) PARTIAL ASSIGNMENT (32%) ASSIGNMENT ASSIGNMENT ASSIGNMENT TO MEMORANDUM OF FARMOUT AGREEMENT THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT ASSIGNMENT	NOT LESS THAN 1/8  CONFIRMATORY DEED  ASSIGNMENT  MERGER/NAME CHANGE  MENORANDUM OF FARMOUT AGREEMENT  LIMITED PARTIAL ASSIGNMENT (32%)  PARTIAL ASSIGNMENT (32%)  ASSIGNMENT  ASSIGNMENT  ASSIGNMENT  ASSIGNMENT TO MEMORANDUM OF FARMOUT AGREEMENT  THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT  ASSIGNMENT  THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT  ASSIGNMENT	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT  NOT LESS THAN 1/8  ASSIGNMENT
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CONSOLIDATED GAS SUPPLY CORPORATION, FORMERLY HOPE NATURAL GAS COMPANY	J .W. C. KOLB AND MARION L. KOLB	DOMINION ENERGY TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC			RATION	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATURAL GAS COMPANY		ALLMAN AND ARZIE C. ALLMAN, HER HUSBAND, H. C. BOYLEN, M. D.	VAN HORNE, HER HUSBAND, ANNETTE BOYLEN, WIDOW, H. E. BOYLEN	CHARLES W. STRALEY, HER HUSBAND, ETTA VAN HORN AND CLAUDE	, CLARA STRALEY AND		DOMINION ENERGY TRANSMISSION, INC	DOMINION ENERGY TRANSMISSION, INC.		ISSION, INC.	NOBLE ENERGY, INC.	CNX GAS CUMPANY LLC	ONE CONTRACTO	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC		DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSCIENT LE COMPANY CONTRACTOR	CONSOLIDATED GAS SLIPPLY CORPORATION	HOPE NATURAL GAS COMPANY	J. L. JENKINS AND MALLIE E. JENKINS, HIS WIFE		DOMINION ENERGY TRANSMISSION, INC.	
CONSOLIDATED GAS TRANSMISSION CORPORATION	HOPE NATURAL GAS COMPANY	HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATURAL GAS COMPANY					HG ENERGY II APPALACHIA. LLC	HG ENERGY II APPALACHIA. LLC	HG ENERGY II APPALACHIA, LLC		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	NOBLE ENERGY, INC.	NOBLE ENERGY INC	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	ON ADDRING BIRCH	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION		CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATURAL GAS COMPANY		HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC
ASSIGNMENT	NOT LESS THAN 1/8	ASSIGNMENT	FARMOUT AGREEMENT	FARMOUT AGREEMENT  THIRD AMENDMENT TO MEMORANDLINA OF	MERGER/NAME CHANGE	ASSIGNMENT	ASSIGNMENT	PARTIAL ASSIGNMENT (32%)	LIMITED PARTIAL ASSIGNMENT (50%)	MEMORANDUM OF FARMOUT AGREEMENT	MERGER/NAME CHANGE	MERGER/NAME CHANGE	ASSIGNMENT	CONFIRMATORY DEED	NOT LESS THAN 1/8					ASSIGNMENT (68%)	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	L	) MEMORANDUM OF	1E CHANGE	ASSIGNMENT	ASSIGNIVENT		PARTIAL ASSIGNMENT (32%)	CIVILLED FACTIAL ASSIGNMENT (30%)		MEMORANDUM FARMOUT AGREEMENT	MERGER/NAME CHANGE	MERGER/NAME CHANGE		ASSIGNMENT	CONFIRMATORY DEED	NOT LESS THAN 1/8		ASSIGNMENT	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT
425	303	LEWIS 736	1621	1601	WVSOS	1600	1584	1576	1543	1522	58	51	1136	903	783					LEWIS 736	HARRISON 1621	LEWIS 723	HARRISON 1601	WVSOS	HARRISON 1600 LEWIS 722	LEVOIS / L/	HARRISON 1584	LEWIS 712	HARRISON 1576	HARRISON 1543	HARRISON 1522 LEWIS 672	HARRISON 58 WVSOS	WVSOS	HARRISON 51	HARRISON 1136 LEWIS 425	HARRISON 903 LEWIS 294	LEWIS 781	HARRISON 244	LEWIS 736	1621
127	272	220	1295	581		692	942	125	1235	33	362	795	250	179	387					220	1295 558	499	581		692 170	G -	942	848	125	1235	33 154	362		795	250 127	179 89	16	88	220	1295

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S8   LC076665   04-009C-0040-0000   Q100240000   Q10024	28 LC076655 04-095C-0040-0000 Q100240000 Q10024000	REEMENT	FARMOUT AGREEMENT		HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.				
58   LC076665   Q4-009C-0040-0000   Q100240000   Q1002400000   Q100240000   Q100240000   Q100240000   Q100240000   Q100240000   Q100240000   Q100240000   Q100240000   Q10240000   Q100240000   Q100240000   Q100240000   Q100240000   Q100240000   Q10024	CONSCIDATED GAS TRANSMISSION CORPORATION  CONTROLLATED GAS TRANSMISSION CORPORATION  CONTROLLATED GAS TRANSMISSION, INC.  CIXI GAS COMPANY LLC  CIXI GAS COMPANY LLC  CONGINION TRANSMISSION, INC.  CONGINION TRANSMISSION, INC.  COMMINION TRANSMISSION, INC.  COMMINION ENERGY TRANSMISSION, INC.  COMMINION ENERGY TRANSMISSION, INC.  COMMINION ENERGY TRANSMISSION, INC.  CONSCILIDATED GAS SUPPLY CORPORATION  CONSCILIDATED GAS TRANSMISSION, INC.  CONSCIL	THIRD AMENDMENT TO MEMORANDUM OF	THIRD AMENDMENT TO MEMORANDUM OF							
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CONSOLIDATED GAS TRANSMISSION CORPORATION  CING TRANSMISSION CORPORATION  CING TRANSMISSION CORPORATION  CING TRANSMISSION, INC.  CINX GAS COMPANY LLC  DOMINION TRANSMISSION, INC.  CINX GAS COMPANY LLC  DOMINION TRANSMISSION, INC.  DOMINION ENERGY TRANSMISSION, INC.  CONSOLIDATED GAS SUPPLY CORPORATION  CONSOLIDATED GAS TRANSMISSION CORPORATION  CONSOLIDATED GAS TRANSMISSION, INC.  CONSOLIDATED GAS COMPANY  CONSOLIDATED GAS TRANSMISSION, INC.  CONSOLIDATED GAS COMPANY  CONSO	29 LC033155  O4-009C-0040-0000  O100240000  ONS CAS COMPANY LLC  DOMINION TRANSMISSION, INC.  OOMINION ENERGY TRANSMISSION, INC.  DOMINION TRANSMISSION CORPORATION  CONSOLIDATED CAS SUPPLY CORPORA	MERGER/NAME CHANGE		;,	DOMINION ENERGY TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.		04-009C-0037-0000		
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CONSQUIDATED GAS TRANSMISSION CORPORATION  CING TRANSMISSION CORPORATION  CINX GAS COMPANY LLC  CONINION TRANSMISSION, INC.  CONSOLIDATED GAS TRANSMISSION, INC.  CIXX GAS COMPANY LLC  CONMINION TRANSMISSION, INC.  CONSOLIDATED GAS TRANSMISSION, INC.  CONSOLIDATED GAS TRANSMISSION, INC.  CONSOLIDATED GAS TRANSMISSION, INC.  DOMINION ENERGY TRANSMISSION, INC.  DOMINION ENERGY TRANSMISSION, INC.  DOMINION ENERGY TRANSMISSION, INC.  DOMINION ENERGY TRANSMISSION, INC.  CONSOLIDATED GAS SUPPLY CORPORATION  CONSOLIDATED GAS TRANSMISSION CORPORATION  CONSOLIDATED GAS TRANSMISSION CORPORATION  CONSOLIDATED GAS TRANSMISSION CORPORATION  CONTRANSMISSION CORPORATION  CONTRANSMISSION CORPORATION  CONSOLIDATED GAS TRANSMISSION CORPORATION  CONSOLIDATED GAS COMPANY LLC  CONTRANSMISSION CORPORATION  CONSOLIDATED GAS COMPANY LLC  CONSOLIDATED GAS TRANSMISSION CORPORATION  CONSOLIDATED GAS COMPANY LLC  CONSOLIDATED GAS TRANSMISSION CORPORATION  CONSOLIDATED GAS COMPANY LLC  CONSOLIDATED GAS TRANSMISSION CORPORATION  CONSOLIDATED GAS COMPANY LLC  CONSOLIDATED GAS COM	CONSOLIDATED GAS TRANSMISSION CORPORATION  CING TRANSMISSION CORPORATION  CING TRANSMISSION CORPORATION  CONSOLIDATED GAS TRANSMISSION, INC.  CONSOLIDATED GAS TRANSMISSION, INC.  CONSOLIDATED GAS COMPANY LLC  DOMINION TRANSMISSION, INC.  DOMINION ENERGY TRANSMISSION, INC.  DOMINION TRANSMISSION CORPORATION  CONSOLIDATED GAS SUPPLY CORPORATION  CONSOLIDATED GAS SUPPLY CORPORATION  CONSOLIDATED GAS SUPPLY CORPORATION  DOMINION TRANSMISSION CORPORATION  CONSOLIDATED GAS SUPPLY CORPORATION  CORPORATION  CORPORATION  CORPORATION  CONSOLIDATED GAS SUPPLY CORPORATION  CORP	PARTIAL ASSIGNMENT (32%)		ERGY, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	DOMINION TRANSMISSION, INC.	010000000	04-009C-0035-0001		3
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RECEIVED Office of Oil and Gas

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October 23, 2019

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

RE:

Drilling Under Roads - Antonio 1206 S-7H

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

Office of Oil and Gas

WV Department of Environmental Protection

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

Date of Notic	ce Certification: 12/05/2019		l No. 47	
				No. Antonio 1206 S-7H
		Wel	ll Pad Name: _	Antonio 1206 Well Pad
Notice has l	oeen given:			
	e provisions in West Virginia Code §	22-6A, the Operator has provided	l the required p	parties with the Notice Forms listed
	tract of land as follows:	_		
State:	West Virginia		ting: <u>553369</u>	
County:	Harrison	Nor	thing: <u>433441</u>	
District:	Grant	Public Road Access:		/ Hackers Creek Road
Quadrangle:	West Milford	Generally used farm n	name: Antonio	0
Watershed:	Middle West Fork Creek	<u></u>		
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and sized the owners of the surface describequired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen on e § 22-6A-11(b), the applicant shall thave been completed by the applicant	hall contain the following informations of in subdivisions (1), (2) and (4) ction sixteen of this article; (ii) that rvey pursuant to subsection (a), so if this article were waived in writh ender proof of and certify to the se	tion: (14) A ce 4), subsection at the requirement section ten of the ing by the sur	ertification from the operator that (i) (b), section ten of this article, the tent was deemed satisfied as a resulthis article six-a; or (iii) the notice face owner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the require ECK ALL THAT APPLY		lotice Certifica	OOG OFFICE USE ONLY
☐ 1. NO	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED SEISMIC ACTIVITY WAS CO		O RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or 🔳 NO PLAT SURVEY W	WAS CONDU	CTED RECEIVED
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		☐ WRITTEN WAIVER BY S (PLEASE ATTACH)	SURFACE OW	VNER
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■ 6. NO	TICE OF APPLICATION	WV),eccus		RECEIVED
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### Required Attachments:

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

WW-6AC (1/12)

### Certification of Notice is hereby given:

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

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

 By:
 Diane White
 Diane White
 Parkersburg, WV 26101

 Its:
 Agent
 Facsimile:
 304-863-3172

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



Subscribed and sworn before me this 5th	day of December, 2019
Chille	Notary Public
My Commission Expires 11/2/205	

### 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>.

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Office of Oil and Gas

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WV Department of Environmental Protection WW-6A (9-13)

API NO. 47-	-	
OPERATOR WELI	NO.	1206 S-7H
Well Pad Name: An	tonio 12	06

# 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: 12/17/19 Date Permit Application Filed: 12/20/19 Notice of: ☐ CERTIFICATE OF APPROVAL FOR THE ✓ PERMIT FOR ANY CONSTRUCTION OF AN IMPOUNDMENT OR PIT WELL WORK Delivery method pursuant to West Virginia Code § 22-6A-10(b) REGISTERED ✓ METHOD OF DELIVERY THAT REQUIRES A ☐ PERSONAL 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) Antonio PLLC, c/o Mike Ross Antonio PLLC, c/o Mike Ross Name: Name: Address: P. O. Box 219 Address: P. O. Box 219 Coalton, WV 26257 Coalton, WV 26257 Charles R. Sutton Name: ☐ COAL OPERATOR Address: 593 Long Run Road Name: Lost Creek, WV 26385 Address: ☑ SURFACE OWNER(s) (Road and/or Other Disturbance) ☐ SURFACE OWNER OF WATER WELL Name: AND/OR WATER PURVEYOR(s) Address: Name: Address: Name: Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Dominion Energy Transmission, Inc. Attn: Ron Walden Address: 925 White Oaks Blvd See Above Name: Bridgeport, WV 26330 Address: \*Please attach additional forms if necessary

API NO. 47-

4703 3059

OPERATOR WELL NO. 1206 S-7H

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

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WW-6A (8-13)

API NO. 47-

OPERATOR WELL NO. 1206 S-7H

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: RECEIVED

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

Office of Oil and Gas

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WV Denartment 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.

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

OPERATOR WELL NO. 1206 S-7H

Well Pad Name: Antonio 1206

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.

ARECONFO Author of Olland Gas

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WW-6A (8-13)

4/03 3 0 5 9 8 NO. 47-

API NO. 47-OPERATOR WELL NO. 1206 S-7H 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 Qiane 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="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.



Subscribed and sworn before me this 17th day of December, 2019

Notary Public

My Commission Expires 11/2/2021

REGEIVED Office of Oil and Gas

7 2020

WV Department of Environmental Protection



December 3, 2019

Charles Sutton 593 Long Run Road Lost Creek, WV 26385

RE:

Antonio 1206 S-7H Well Work Permit Application - Notification

Grant District, Harrison County

West Virginia

Dear Mr. Ross:

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

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

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

Very truly yours,

Diane White

Diane C. White

RECEIVED

Office of Oil and Gas

- AN 0 7 2020

WV Densitment of Environmental Protection

Enclosures



December 3, 2019

Antonio PLLC, c/o Mike Ross P. O. Box 219 Coalton, WV 26257

RE:

Antonio 1206 S-7H Well Work Permit Application - Notification

Grant District, Harrison County

West Virginia

Dear Mr. Ross:

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Very truly yours,

Diane White

Diane C. White

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Office of Oil and Gas

- AN 0 7 2020

WV Department of Environmental Protection

Enclosures



December 3, 2019

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

RE:

Antonio 1206 S-7H Well Work Permit Application - Notification

Grant District, Harrison County

West Virginia

Dear Mr. Ross:

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

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

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Very truly yours,

Diane White

Diane C. White

RECEIVED
Office of Oil and Gas

- AN U 7 2020

WV Denartment of Environmental Protection

Enclosures

### 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.

rate of Notic	ce: 12/03/2019	Date Permit		TELEGIEGIG	
Delivery met	thod pursuant t	o West Virginia Code § 22-6	A-16(b)		
☐ HAND		CERTIFIED MAIL			
DELIVE	ERY	RETURN RECEIPT REQUE	STED		
eceipt request lrilling a hore of this subsect ubsection mand if availab	sted or hand deli- izontal well: Pre- ction as of the da- ay be waived in ble, facsimile nur	very, give the surface owner is vovided. That notice given pur te the notice was provided to writing by the surface owner.	notice of its intent to suant to subsection the surface owner: In The notice, if requi- less of the operator ar	enter upon t (a), section to Provided, how red, shall inc	i, an operator shall, by certified mail return the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this dude the name, address, telephone number or's authorized representative.
	tonio PLLC, c/0 Mike R		Name:	Charles R. Sutto	on
Address: P. C	O. Box 219		Address:	593 Long Run R	load
	alton, WV 26257		- Y	Lost Creek, WV	26385
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov. Office of Chiland Las



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

Date of Notic	Date Fermit	Application Filed: 12/20	0/2019
Delivery met	hod pursuant to West Virginia Code	§ 22-6A-16(c)	
■ CERTI	FIED MAIL	HAND	
	RN RECEIPT REQUESTED	DELIVERY	
eturn receipt he planned of equired to be lrilling of a lamages to the d) The notice	requested or hand delivery, give the surperation. The notice required by this provided by subsection (b), section tenhorizontal well; and (3) A proposed sure surface affected by oil and gas operat	rface owner whose land subsection shall includ of this article to a surfa rface use and compensa- ions to the extent the dar n to the surface owner at	ne permit application, an operator shall, by certified mai will be used for the drilling of a horizontal well notice of le: (1) A copy of this code section; (2) The information acc owner whose land will be used in conjunction with the action agreement containing an offer of compensation for mages are compensable under article six-b of this chapter to the address listed in the records of the sheriff at the time
	s listed in the records of the sheriff at th		
at the address	s libra in the records of the sheriff at the		ACCES TO THE CONTRACTOR OF THE
Name: Antor	io PLLC, c/o Mike Ross	Name: _	Charles R. Sutton
	io PLLC, c/o Mike Ross		THE STATE OF THE S
Name: Antor Address: P. O. Coall Notice is her Pursuant to W	io PLLC, c/o Mike Ross  Box 219 on, WV 26257  eby given: /est Virginia Code § 22-6A-16(c), notic	Name:Address:	: 593 Long Run Road  Lost Creek, WV 26385  e undersigned well operator has developed a planned
Name: Antor Address: P. O. Coall  Notice is her Pursuant to Woperation on State: County: District:	eby given:  /est Virginia Code § 22-6A-16(c), notic the surface owner's land for the purpose West Virginia  Harrison  Grant	Name:Address:  e is hereby given that the of drilling a horizontal  UTM NAD 83	tost Creek, WV 26385  e undersigned well operator has developed a planned well on the tract of land as follows:  Easting: 553369.8 Northing: 4334415.8  SR19/Hackers Creek Road
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Name: Antor Address: P. O. Coall Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice Source affect of the provide for izontal we surface affect information readquarters, tas/pages/def	eby given:  //est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia  Harrison  Grant  West Milford  Middle West Fork Creek  Shall Include:  Vest Virginia Code § 22-6A-16(c), this read by W. Va. Code § 22-6A-10(b) to a code by oil and gas operations to the extension of th	Name:Address:  e is hereby given that the of drilling a horizontal UTM NAD 83  Public Road A Generally used to a surface owner whose compensation agreement the damages are contained from the Secreta arleston, WV 25304 (25304)	e undersigned well operator has developed a planned well on the tract of land as follows:  Seasting: 553369.8  Northing: 4334415.8  Access: SR19/Hackers Creek Road  d farm name: Antonio  A copy of this code section; (2) The information required and will be used in conjunction with the drilling of an accontaining an offer of compensation for damages to the interest of the work

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# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

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-7H 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.

Very Truly Yours, Bary K. Clayton

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

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

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

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

WV Department of Environmental Protection

Office of Oil and Gas

# CONSTRUCTION IMPROVEMENT PLANS WITH FROSION AND SEDIMENT CONTROLS

# **HG 1206 WELL PAD & IMPOUNDMENTS**

GRANT DISTRICT HARRISON COUNTY WEST VIRGINIA

**APPROVED** WVDEP OOG 7 20 11/12/2019



### PREPARED FOR HG ENERGY II APPALACHIA, LLC

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

### PREPARED BY PENN ENVIRONMENTAL & REMEDIATION, INC.

(412) 722-1222

of Smell Lorder 4147 Est. Tuperof Stockyrie W. Minimum Total Stockpdo Deposity Required (CV) | Total | Tota undment South 17 1 Bar Sock Length J.J. and Well Fad 12 I that Such Length (L.) nated GGC Prescription (Section - Hold Christman) Autopopularity ent Staff Peth Per-Conduction Division F

Facel Dwarfoperant - Gravel Conton

WELL #	LAT.	LONG,
N-1H	N 39.158096	₩ 80.382426
N-2H	N 39.158101	₩ E0.382374
N-3H	N 39.158107	₩ 80.382321
N-4H	N 39.158112	W 80,382268
N-5H	N 39,158118	W 80.382216
S-6H	N 39.157314	W 80.382294
5-7H	N 39.157319	W 80.382243
S-BH	N 39.157325	W 80.382189
S-BH	N 39.157330	W 60.382137
S-10H	N 39,157336	W 80.382084

	LATITUDE	LONGITUDE
DUCK CREEK ROAD CROSSING	N 39.138843	W 80.380611
1207 WELL PAD ACCESS ROAD ENTRANCE	N 39.152061	W 80.420447
1208 WELL PAD ACCESS ROAD ENTRANCE	N 39,149029	W 80.429878

RECORD DANER	RECORD LOT ₩	REDDRO TOL TO ARRA	AREA WITHIN LDD
HUBERT E & SANDRA K NEEL	17-12-0445-0003-0000	89.07	0.099
MICKEY PERITO	17-12-0445-0013-0000	132 852	5.952
CELAND J FREEWAY	17-12-0445-0025-0000	15.5506	2.235
C-WALES R SUTTON	17-12-0445-0043-0000	4.655	1.134
FRANCIN L SUTTON	17-12-0445-0047-0000	72.2783	4.670
RICHARD L HAWKINS, JR	17-12-0446-0331-0003	53,1225	3.425
FRANCIN L SUTTON	17-12-044E-0039-0001	48.3295	2.713
W JOE & HANNAH W 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	5.427
WILLIAM LENGY & VINGINA R. JEWONS	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 ARTONIO, LLC	17-12-0446-0003-0000	180.7720	1.856
P ANTONIO, LLC	17-12-0445-0002-0000	41.0699	0.868
P ANTONIO, LLC	17-12-0428-0071-0000	230.6748	21.146
CHARLES R SUTTON	17-12-0426-0372-0303	31,1173	4.504
JUDITH H RUSSELL	17-12-0425-0021-0000	15,1580	0.701
TOTAL LIMIT	DI DISTURBANCE		58.187 AD



TITLE SHEET HG 1206 WELL PAD & IMPOUNDMENTS GRANT DISTRICT HARRISON COUNTY, WEST VIRGINIA

HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA



YOU DIG!

800.245,4848 PA007871-001

1	TITLE SHEET	_
2A-2Z	SITE DEVELOPMENT PLANS	
3A=3B	IMPOUNDMENT SECTIONS	
44-411	ACCESS ROAD SECTIONS	_
5A-5G	CONSTRUCTION NOTES & DETAILS	
64-6K	RESTORATION PLAN	
7A-7C	PROPERTY MAP	
	-	
	3A-3B 4A-4H 5A-5G 6A-6K	2A-2Z SITE DEVELOPMENT PLANS 3A-3B MPOUNDMENT SECTIONS 4A-4H ACCESS ROAD SECTIONS 5A-5G CONSTRUCTION NOTES & DETAILS 6A-6K RESTORATION PLAN

CONSTRUCTION SEQUENCE

1. Prior to commencement of any earth disturbance activity including cleaning 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 cleaning, 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. 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.

 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.

111 RYAN COURT PITTSBURGH, PA 15205

WEST VIRGINIA

SERVICE UTILITY LINES ARE NOT DEDWIN ON THE PLANS. THE CONTRACTOR SHALL BE REPRODUBLE FOR JOCATING, WANTARING, AND REPLACEND AS NECESSARY TO MISSION CONTRIBUTE SERVICE.

