

west virginia department of environmental protection

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

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

Thursday, January 7, 2021 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

# HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

#### PARKERSBURG, WV 26101

Re: Permit Modification Approval for ANTONIO 1206 S-9H 47-033-05986-00-00

Lengthen Surface casing 75'

### HG ENERGY II APPALACHIA, LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before 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-9H Farm Name: ANTONIO P., LLC U.S. WELL NUMBER: 47-033-05986-00-00 Horizontal 6A New Drill Date Modification Issued: 1/7/2021

Promoting a healthy environment.

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

1) Well Operator: HG Energy II Appalachia	494519932	Harrison	Grant	West Milford 7.5'
	Operator ID	County	District	Quadrangle
2) Operator's Well Number: Antonio 1206 S-		Pad Name: Anto		
3) Farm Name/Surface Owner: HG Energy II Appal	achia, LLC Public R	oad Access: Ha	ackers Cre	ek Rd @ SR 19
4) Elevation, current ground: 1364'	Elevation, propose	ed post-construct	tion: <u>1350</u>	
5) Well Type (a) Gas <u>x</u> Oil	Uı	nderground Stora	ige	
Other				
(b)If Gas Shallow <u>X</u>	Deep			_
Horizontal X				
6) Existing Pad: Yes or No No				
7) Proposed Target Formation(s), Depth(s), An Marcellus at 7081'/7260' and 179' in thickness			Pressure(s):	
8) Proposed Total Vertical Depth: 7252'				
9) Formation at Total Vertical Depth: Marcel	lus			
10) Proposed Total Measured Depth: 26,516	1			
11) Proposed Horizontal Leg Length: 18,307	1			
12) Approximate Fresh Water Strata Depths:	135', 480', 63	7', 731'		
13) Method to Determine Fresh Water Depths:	Nearest offset	well data		
		for the offset wells, s	alt water expe	ected to be below elevation
15) Approximate Coal Seam Depths: 623', 10	10' to 1015' (Sur	face casing is be	eing extend	ded to cover the coal)
16) Approximate Depth to Possible Void (coal	mine, karst, other	): None		
17) Does Proposed well location contain coal s directly overlying or adjacent to an active mine		N	o X	
•				RECEIVED Office of Oil and Gas
(a) If Yes, provide Mine Info: Name: Depth:				NOV 16 2020
Seam:				WV Department of Environmental Protection
Owner:				Environmental Protection

API NO. 47- 033 \_ 05986

OPERATOR WELL NO. Antonio 1206 S-9H Well Pad Name: Antonio 1206

18)

WW-6B

(04/15)

# CASING AND TUBING PROGRAM

TYPE	<u>Size</u> (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	<u>Weight per ft.</u> <u>(lb/ft)</u>	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	125'	125'	Drilled In
Fresh Water/Coal	20"	NEW	J-55	94	1175'	1175'	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	26516'	26516'	20% excess tail, CTS
Tubing				1			· · · · · · · · · · · · · · · · · · ·
Liners							

# 50W 11/13/2020

TYPE	<u>Size (in)</u>	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> <u>(psi)</u>	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	24"	.438	2110	1200	Type 1, Class A	40 % axcess yield = 1.20, CTS
Intermediatel	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Lood 40% excess, Tol 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Lead 40% excess, Tab 0% Excels 40%
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% excess yield = 1,10, to2 yield 1,94 f
Tubing							
Liners							1

PACKERS

Kind:	RECEIVED Office of Oil and Gas
Sizes:	NOV 1 6 2020
Depths Set:	WV Department of Environmental Protection

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 18,307' lateral length, 26,516' TMD. Hydraulically fracture stimulate and be capable of producing from the Marcellus Formation. Should we encounter an unanticipated void in the coal, we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface. We plan to run an ACP above the Gantz/Dominion Storage interval to aid in sealing off and isolating the storage interval.

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

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

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

22) Area to be disturbed for well pad only, less access road (acres): 11.000 ac	vell pad only, less access road (acres): 11.058 acre	Area to be disturbed for well	22)
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23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing. Frontingence were plants will be used to be naming ACP for isolating storage zone Intermediate - Bow Spring on areary joint, will also be naming ACP for isolating storage zone Intermediate - Bow Spring on areary joints areary with joint to 100 from surface. Production - Run 1 spiral centralizer every 5 joints from the top of the curve to surface. Run 1 spiral centralizer every 3 joints from the 1st 5.5° long joint to the top of the curve.

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

Conductor -WAC Casing to be drilled in without Rotary Rig. Fresh Water - 15 Spg PNE-1 + 2.5% breac Saccass, Units = 120, CTS Intermediate 1 - 12.exd: 15.4 pp PNE-1 + 2.5% breac SacCass I Table - 1.5% breac CasCl zero% Excess. CTS* Intermediate - 1.2.exd: 15.4 pp PNE-1 + 2.5% breac SacCass PNE-1 + 2.5% breac CasCl zero% Excess. CTS* Intermediate - 1.2.exd: 15.4 pp PNE-1 + 2.5% breac SacCass PNE-1 + 2.5% breac CasCl zero% Excess. CTS* Intermediate - 1.2.exd: 15.4 pp PNE-1 + 0.3% breac SACCASS PNE-1 + 2.5% breac CasCl zero% Excess. CTS* Productor - 1.exd: 14.5 ppg POZ:PNE-1 + 0.3% breac R3 + 1% breac EC1 + 0.75 gal/ak FP13L + 0.3% breac R3 + 0.75 gal/ak FP13L + 50% breac ASCA1 + 0.5% breac MPA17020% ExcessLead Yield=1.19Tail Yield=1.94CTS* Productor - 1.exd: 14.5 ppg POZ:PNE-1 + 0.3% breac R3 + 1% breac MPA170Teil: 14.8 ppg PNE-1 + 0.35% breac R3 + 0.75 gal/ak FP13L + 50% breac ASCA1 + 0.5% breac MPA17020% ExcessLead Yield=1.19Tail Yield=1.94CTS*	
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25) Proposed horehole conditioning procedures: Office of Oil and Gas	

25) Proposed borenole conditioning procedures:

num ( at TE

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mud at TD. Circulate a

nductor - Ensure the hole is clean at TD. ng is at sel

ng is at s

# NOV 1 6 2020

WV Department of Environmental Protection

\*Note: Attach additional sheets as needed.

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		Ę	NERGY						1206 S Marcellus Shal Harrison Co	e Horizontal ounty, WV																					
						1206 S	-9H SH	L	14	220502.02N 18155	58.7E																				
round E	levation		1350	1		1206	S-9H LF	2	14	220578.84N 18177	59.78E																				
1974 A 1974 A	Nama 2010		159.79		-	1000 001	-9H BH		14	203404.67N 18240	79 43F																				
Az		-			700			CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS																				
VELLBORE	DIAGRAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	GEIMENT	GENTRALIZERG	CONDITIONING																					
	IIII		00145754		-			N/A, Casing to be drilled		Ensure the hole is clean at	Conductor casing = 0.5" wa																				
		30"	30" 157.5# LS	Conductor	0	125	AIR	in w/ Dual Rotary Rig	N/A	TD.	thickness																				
	X			Fresh Water	Q	135, 480, 637, 731		15.6 ppg PNE-1 + 3%	S. Carl	Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" wa																				
	X	24"	20" 94# J-55	Coal	1010	1015	AIR	bwoc CaCl 40% Excess	Centralized every 3 joints to surface	of one hole volume with Fresh Water prior to pumping cement. Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.	thickness Burst=2110 psi																				
		1.000	546.0-00	Surface / FW	0	1175		Yield=1.20 / CTS																							
								Lead: 15.4 ppg PNE-1 +	Reu Daving on suppl																						
				Little/Big Lime	1555 / 1596	1575 / 1658	AIR / KCL	CL - 2.5% bwoc CaCl 40% Excess / Tail: 15.9 t ppg PNE-1 + 2.5% bwoc			Intermediate casing = 0.480"																				
	x	17.5"	13-3/8" 68# J-55 BTC	Injun / Gantz (Storage)	1658 / 1985	1770 / 2050	Salt				wall thickness Burst=3450 psi																				
^				Intermediate 1	0	2200	Polymer				and see the																				
×	X	-		Fifty / Thirty Foot	2095 / 2182	2157 / 2200		Lead: 15.4 ppg PNE-1 +	Bow Spring on first 2	Once casing is at setting depth, Circulate and	Intermediate casing = 0,395"																				
			9-5/8" 40# J-55 BTC	Gordon Stray / Gordon	2232/2272	2272 / 2385	AIR / KCL																								
		12.25"							************************************			17 75"												5th Sand	2515	2527	Salt	40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc	joints then every third joint to 100' form	condition mud at TD. Circulate a minimum of one	wall thickness
x	×	veley.																						J-55 BTC	J-55 BTC	Bayard / Warren 2591 / 2891 2601 / 2931 Polymer CaCl sur	surface	hole volume prior to	Burst=3950 pi		
				Intermediate 2	0	3000		zero% Excess. CTS		pumping cement.	Environ																				
×	X	-		Speechley	3204	3224			B		deb deb																				
	1	Same to the			an and a strategy of		6.600.000	www.composition.com	and and a second	Balltown	3438	3448	9.0ppg	the second second	Run 1 spiral centralizer every 5 joints from the	n the	oil a														
85		8,5" Vertical		Benson	4505	4525	SOBM	Lead: 14.5 ppg POZ:PNE-1 + 0.3%	top of the curve to surface.		Burst=3950 Burst=3950 Burst=NOV 1 6 2020 Burytronmental Protection																				
10				1		1 1 1 1		bwoc R3 + 1% bwoc		the second second	Gas 20 tec																				
		1		Rhinestreet	6395	6651		EC1 + 0.75 gal/sk FP13L + 0.3% bwoc				Once on bottom/TD with casing, circulate at max	fion																		
			line i	Cashaqua	6651	6751	1	MPA170		allowable pump rate for at	Production casing = 0.415" wall thickness Burst=16240 psi Note:Actual centralizer																				
×	X		5-1/2" 23#	Middlesex	6751	6783	11.5ppg-	Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75		least 2x bottoms up, or unti returns and pump																					
		8.5" Curve	P-110 HP	West River	6783	6854	12.5ppg	gai/sk FP13L + 50%	ANT & CALIFORNIA COMPANY	pressures indicate the hole																					
			CDC HTQ	Burkett	6854	6864	SOBM	bwoc ASCA1 + 0.5% bwoc MPA170	Run 1 spiral centralizer every 3 joints from the	is clean. Circulate a minimum of one hole	schedules may be change due to hole conditions																				
				Tully Limestone	6864	6972		20% Excess	1st 5.5" long joint to the	<ul> <li>Constraint destance of the optimization of the state of t</li></ul>	1 Constant																				
				Hamilton	6972	7081		Lead Yield=1.19 Tail Yield=1.94	top of the curve.																						
			1	Marcellus	7081	7260	11.5ppg-	CTS																							
		8.5" Lateral		TMD / TVD (Production)	26516	7252	12.5ppg																								
×	x			Onondaga	7260		SOBM																								
		X	X	X	X		X	X	X	X	X																				
	LP @ 72	252' TVD / 8209 MD			8.5" Hole - Cement 5-1/2" 23# P-110		3		+/-183	07' ft Lateral	TD @ +/-7252' TVD +/-26516' MD																				
-	x	X	X	X	x		X	Х	X	X	X=centralizers																				



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

December 5, 2020

Charles R. Sutton 593 Long Run Road Lost Creek, WV 26385

RE: Antonio 1206 N-1H thru S-10H Well Work Permit Applications - Notifications Modification Request to Extend Surface Casing 75' to 1175' to Cover an Additional Seam of Coal Grant District, Harrison County, West Virginia

Dear Mr. Sutton:

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 modification is being requested for the above-referenced well to extend the FW casing 75 feet to 1175' to cover an additional seam of coal.

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 notification, you may call this office at (304) 420-1119 or <u>mailto:dwhite@hgenergyllc.com</u> dwhite@hgenergyllc.com.

Very truly yours, Diane white

Diane C. White

RECEIVED Office of Oil and Gas

DEC 1 0 2020

WV Department of Environmental Protection

Enclosures



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

December 5, 2020

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

RE: Antonio 1206 N-1H thru S-10H Well Work Permit Applications - Notifications Modification Request to Extend Surface Casing 75' to 1175' to Cover an Additional Seam of Coal 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 modification is being requested for the above-referenced well to extend the FW casing 75 feet to 1175' to cover an additional seam of coal.

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Very truly yours,

Diane White

Diane C. White

RECEIVED Office of Oil and Gas

DEC 1 0 2020

WV Department of Environmental Protection

Enclosures

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

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

Date	e of Notice: <u>12/07/20</u>	_ Date Permit Applica	tion Filed: <u>11/30/20</u>	
Noti	ice of: PERMIT FOR AN WELL WORK		CATE OF APPROVAL FOR THE RUCTION OF AN IMPOUNDMENT OR PIT	RECEIVED Office of Oil and Gas
Deli	very method pursu	ant to West Virginia C	ode § 22-6A-10(b)	WV Department of Environmental Protection
	PERSONAL SERVICE	REGISTERED MAIL	METHOD OF DELIVERY THAT REQUIR RECEIPT OR SIGNATURE CONFIRMAT	ES A
Purs certi	uant to W. Va. Code ficate of approval for	the construction of an im	an the filing date of the application, the applicant for a p poundment or pit as required by this article shall deliver	r, 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:

U SURFA	CE OWNER(s)	
Name:	Antonio PLLC, c/o Mike Ross	
Address:	P. O. Box 219	
	Coalton, WV 26257	
Name:	Charles R. Sutton	
Address:	593 Long Run Road	
	Lost Creek, WV 26385	
USURFA	CE OWNER(s) (Road and/or Other Dist	urbance)
Name:	See Above	
Address:		
Name:		
Address:		
	ACE OWNER(s) (Impoundments or Pits)	
Name:	See Above	
Address:		

□ COAL OWNER OR LESSEE	
Name:	
Address:	
COAL OPERATOR	
Name:	
Address:	
□ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)	
Name:	
Address:	
OPERATOR OF ANY NATURAL GAS STOR	AGE FIELD
Name:	
Address:	

\*Please attach additional forms if necessary

API NO. 47-OPERATOR WELL NO. 1206 N-1H to S-10H 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 RECEIVED well work or for a certificate of approval for the construction of an impoundment or pit. Office of Oil and Gas

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control 0 2020 plan required by section seven of this article; and (3) the well plat. WV Department of Environmental Protection

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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oiland-gas/pages/default.aspx.

#### 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

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

#### Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

#### Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

# Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

#### Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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

DEC 102020

WV Department of Environmental Protection

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

API NO. 47-\_\_\_\_ OPERATOR WELL NO. 1206 N-1H to S-10H 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 http://www.dep.wv.gov/oil-and-gas/Horizontal-

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

#### Permit Denial or Condition

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

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

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

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

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DEC 1 0 2020

API NO. 47-\_\_\_\_ OPERATOR WELL NO. 1206 N-1H to S-10H 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	Diane 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 <u>depprivacyofficer@wv.gov</u>.

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Kit a	STATE OF WEST VIRGINIA
自动程度	NOTARY PUBLIC
1000	CASSIDY A. BOARDMAN
COLUMN .	5301 13th Ave Vienna, WV 26105
	My Commission Expires July 31. 2022

Subscribed and sworn before n	ne this 5th	day of December	2020 .
Cassidy A.B			Notary Public
My Commission Expires 7	31 2022		

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DEC 1 0 2020

WW6A 1206 NIH-SIDH MOD Certified Notice Receipts

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

November 13, 2020

Mr. Wade Stansberry WVDEP Division of Oil & Gas 601 57<sup>th</sup> Street Charleston, West Virginia 25304

RE: Antonio 1206 N-1H thru S-10H (47-033-05978,79,80,81,82,83,84,85,86,87)) Modification Request to Extend Surface Casing 75' to Cover an Additional Seam of Coal Grant District, Harrison County, West Virginia

Dear Mr. Stansberry:

Per discussions with Sam Ward and Taylor Brewer, enclosed are revised WW-6B's and casing schematics for the ten permitted laterals on the Antonio 1206 well pad. We request the drill permits be modified to extend the surface casing from 1100' to 1175' to cover an additional seam of coal which was encountered during the drilling process.

Please let me know if you have any questions or require additional information. I can be reached at (304) 420-1119 or <u>dwhite@hgenergyllc.com</u>.

Very truly yours,

Diane White

Diane C. White

Enclosures

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NOV 1 6 2020

## **Diane White**

From: Sent: To: Cc: Subject: Josh Hinton Friday, November 13, 2020 8:07 AM Diane White Dale Fidurko; Lori Barr RE: Permit modification

We will need to make this change to the other (9) wells on this pad. This is Surface Casing/Fresh Water Protection string.

So make TD/Hole Depth 1175' and Casing Shoe Set depth 1145'

From: hgtopholerig1@gmail.com <hgtopholerig1@gmail.com> Sent: Friday, November 13, 2020 8:04 AM To: Dale Fidurko <dfidurko@hgenergyllc.com>; Chip Queen <queenserviceswv@gmail.com>; Josh Hinton <jhinton@hgenergyllc.com>; Lori Barr <lbarr@hgenergyllc.com>; Diane White <dwhite@hgenergyllc.com> Subject: Permit modification

Antonio 1206 N1 H and pad modification TD hole depth 1174', New casing shoe depth 1144', Last coal seam encounter 1126' to 1130' Reason for modification was the coal seam depth Chip has talk to Sam Ward about this modification Thanks Mike

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