

### 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

Thursday, January 30, 2020 WELL WORK PLUGGING PERMIT Horizontal 6A Plugging

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re:

Permit approval for 1209 S-11H

47-033-05947-00-00

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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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: 1209 S-11H

Farm Name: HG ENERGY APPALACHIA

U.S. WELL NUMBER: 47-033-05947-00-00

Horizontal 6A Plugging Date Issued: 1/30/2020

Promoting a healthy environment.

### **PERMIT CONDITIONS**

West Virginia Code § 22-6-11 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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

1) Date January 6 , 20 20
2) Operator's
Well No. Nays 1209 S-11H
3) API Well No. 47-033 - 05947 P

DEPARTMENT OF ENVI	EST VIRGINIA RONMENTAL PROTECTION OIL AND GAS
	MIT TO PLUG AND ABANDON
4) Well Type: Oil/ Gas _X _/ Liquid	
5) Location: Elevation 1149' District Union	Watershed Middle West Fork Creek County Harrison Quadrangle West Milford 7.5'
6) Well Operator HG Energy II Appalachia, LLC  Address 5260 Dupont Road  Parkersburg, WV 26187	7) Designated Agent Diane White Address 5260 Dupont Road Parkersburg, WV 26101
8) Oil and Gas Inspector to be notified  Name Sam Ward  Address P.O. Box 2327  Buckhannon, WV 26201	9) Plugging Contractor  Name*To Be Determined Upon Approval of Permit*  Address
	OURE
** See attached sheet for the Sec => Fresh water w	Or plugging manners **  OF GO BENTON ITE  N BY WELLET!
Office of Oil and Gas  JAN 2 2 2020	
WV Department of Environmental Protection	
Notification must be given to the district oil work can commence.	and gas inspector 24 hours before permitted
Work order approved by inspector	Whend P. Date 1/10/2920

API No

47-033-05947

Farm

Nays

Well#

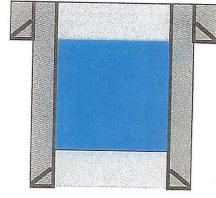
1209 S 11H

County

Harrison, WV

Cement Plug 2 0-100'

Class A



30" Conductor @ 100', Sanded In

Cement Plug | 651-751'

Class A

20" Surface @ 751', TOC @ Surface

#### **PROCEDURE**

- 1 Run Tubing to TD
- 2 Establish Circulation w/ Fresh Water, Load Hole w/ Fresh Water

3 Set Cement Plug #1 (Balanced Plug), TOOH

- 100 610 ' TOOH 4 Tag TOC, Spot Gel from 100-651', TOOH
- 5 TIH, Set Cement Plug #2 (Balanced Plug), TOOH
- 6 Install Monument

IF PLUG WAS NOT DRILLED OUT FROM 20" SURFACE CASING CEMENT JOB, THEN

SET CEMENT PLUG I FROM THE TOP OF FLORT VALUE IN 20" CASING (≈ 710') TO 610'.

50w 1/10/2020

JAN 9 2 2020

05947

WW-4A Revised 6-07

1) Date:	January 6, 2020	
2) Operator	's Well Number	
Nays 1209 S-11H		
9		

033

STATE OF WEST VIRGINIA

3) API Well No.: 47 -

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

	Surface Own		<b>5</b> ) (	(a) Coal Operato	$^{ m cr}$	
	(a) Name	HG Energy II Appalachia	, LLC	Name	NA	
	Address	5260 Dupont Road		Address		
		Parkersburg, WV 26101		_		
	(b) Name			(b) Coal O	wner(s) with Declarat	tion
	Address			Name	NA	
				Address		
	/ \ <b>&gt;</b> T			N	-	
	(c) Name			Name	-	
	Address			Address		
3) I	nspector	Sam Ward		— (c) Coal Le	ssee with Declaration	1
	Address	P. O. Box 2327		Name	NA	-
•	radioss	Buckhannon, WV 26201		Address		
1	Telephone	304-389-7583				
	relephone					
	However, yo	an are not required to take a	ny action at all.			
	accompanyi Protection, the Applica	that under Chapter 22-6 of ng documents for a permit with respect to the well at t	The West Virginia Cod to plug and abandon a v he location described or mailed by registered	well with the Chief of to the attached Applicatory or certified mail or do	he Office of Oil and Gas, Westion and depicted on the attach	nas filed this Notice and Application and to Virginia Department of Environmenta ned Form WW-6. Copies of this Notice
	accompanyi Protection, the Applica	that under Chapter 22-6 of ng documents for a permit with respect to the well at t tion, and the plat have bee	The West Virginia Cod to plug and abandon a v he location described or mailed by registered	well with the Chief of to the attached Application certified mail or dery to the Chief.  HG Energy, LLC	he Office of Oil and Gas, Wes ion and depicted on the attacl elivered by hand to the perso	in the instructions on the reverses side has filed this Notice and Application and the Virginia Department of Environmenta hed Form WW-6. Copies of this Notice hn(s) named above (or by publication in
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Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a 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 of your personal information, please contact DEP's Chief Privacy Officer at <a href="mailto:depprivacyoffier@wv.gov">depprivacyoffier@wv.gov</a>.

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## State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API <u>47</u> <u>033</u> <u>05947</u>	County Harri	son	District Union	
Quad West Milford 7.5'	Pad Name Na	ys 1209		
Farm name Nays			_ Well Number Nay	
Operator (as registered with the OO	G) HG Energy II A	opalachia, LLC		
Address 5260 Dupont Road	City_F	arkersburg	State WV	Zip 26101
As Drilled location NAD 83/UTN Top hole Landing Point of Curve Bottom Hole	A Attach an as-dr Northing 4333360.9 Northing Northing	East	tingting	
Elevation (ft) 1007' GL				□Interim ≣Final
		ontal 6A   Vertical		
			Depth Type	□ Deep ■ Shallow
Type of Operation □ Convert □			lling   Rework	□ Stimulate
Well Type □ Brine Disposal □ CB	M ■ Gas □ Oil □ S	econdary Recovery   So	olution Mining   Sto	rage   Other
Type of Completion $\square$ Single $\square$ M Drilled with $\square$ Cable $\square$ Rotary	fultiple Fluids Pro	duced □ Brine □Gas	□ NGL □ Oil	□ Other
Drilling Media Surface hole A Production hole Air Mud Mud Type(s) and Additive(s) Synthetic Oil Base Mud, Additive	□ Fresh Water □ Bri	ine		■ Fresh Water □ Brine ulsifier, Base Oil
0/00/40				
Date permit issued 3/28/19		nmenced4/26/19	Date drilling co	eased8/03/19
Date completion activities began	Not completed	Date completion activ	vities ceased	NA
Verbal plugging (Y/N)	Date permission grant	ed	_ Granted by	
Please note: Operator is required to s	submit a plugging appli	cation within 5 days of ve	erbal permission to plu	ag
Freshwater depth(s) ft	NA	Open mine(s) (Y/N) de	enths	N
Salt water depth(s) ft	NA	Void(s) encountered ()		N
Coal depth(s) ft	VA	Cavern(s) encountered		N
Is coal being mined in area (Y/N)	N			
		RECEIVED		Reviewed by:
		Office of Oil and Ga	s	SDW 1/10/2020

JAN 2 2 2020

Page 2 of 4 WR-35 Rev. 8/23/13 \_Well number\_Nays 1209 S-11H API 47-033 -05947 Nays Farm name Basket Did cement circulate (Y/N) **CASING** New or Grade Hole Casing Used wt/ft Depth(s) \* Provide details below\* **STRINGS** Depth Size Size Conductor N - Drilled in 30" 30" 100' Ν 157.5# Surface 94# 20" 751' Coal Intermediate 1 Intermediate 2 Intermediate 3 Production Tubing Packer type and depth set Comment Details WOC CEMENT Class/Type Number Slurry Yield Volume Cement Top (MD) of Cement of Sacks wt (ppg)  $(ft^3/sks)$ (ft 3) (hrs) DATA Conductor Drilled In Surface 1.2 8 Class A 1398 15.6 Coal Intermediate 1 Intermediate 2 Intermediate 3 Production Tubing Drillers TD (ft) 780' Loggers TD (ft) NA Deepest formation penetrated Plug back to (ft) Plug back procedure Kick off depth (ft)\_ Check all wireline logs run □ deviated/directional □ caliper □ density □ induction □ resistivity □ neutron □ gamma ray □ temperature □sonic Well cored □ Yes ■ No Conventional Were cuttings collected □ Yes ■ No Sidewall DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING

WAS WELL COMPLETED AS SHOT HOLE □ Yes ■ No

□ Yes 📱 No

**DETAILS** 

TYPE OF TRACER(S) USED \_\_

WAS WELL COMPLETED OPEN HOLE?

WERE TRACERS USED □ Yes ■ No

DETAILS Well wasn't completed, drilled through fresh water to 983'

Page <u>3</u> o

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API 47- 033 <sub>-</sub> 05947	Farm name Nays	Well number_Nays 1209 S-11H

### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					** N/A - well wasn't completed **
	41				

Please insert additional pages as applicable.

### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
110.	Butt	rtate (B1111)	11000010 (101)	11000010 (101)	1011 (101)	Troppant (188)	(0010)	
						-		
			*N/A - well not					
						- F	ECEIVED of Oil and Ga	

Please insert additional pages as applicable.

JAN 2 2 2020

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Rev. 8/23/13	05047		N.I					Nava	1000 0	4411
API 47- 033	_ 05947	Farm r	<sub>name</sub> Nays			Well 1	number <u></u>	ivays	1209 S	-11П
PRODUCING	FORMATION(		<u>DEPTHS</u>	_ TVD _ 		MD				
Please insert ad	ditional pages a	s applicable.								
GAS TEST	□ Build up □	Drawdown	□ Open Flow	(	DIL TEST □ I	Flow [	Dump			
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole	psi	DURAT	ΓΙΟΝ C	F TES	Т	hrs
OPEN FLOW	Gas mcf	Oil pd b	NGL opd	bpd	Water bpd	GAS M	//EASU nated	RED E	BY fice □	Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD 0	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD 0	BOTTOM DEPTH IN F MD	T DESCRIBE I	UID (FRE		ER, BRI	NE, OIL, C	ITYAND GAS, H₂S, ETC)
								Offi	RECEIN	/ED and Gas
								J	AN 2 2	2020
Please insert ad	l ditional pages a	s applicable.		6				V	N Depar	ment of
Drilling Contra		Prilling								Protection
Address 2198 U	niversity Drive		City	Lemont Furr	nace	State	PA	Zip	15456	
Logging Compa Address 100 Gil	any <u>Schlumberg</u> ingham Lane		City	Sugar Land		State	ТХ	Zip	77478	
Cementing Con Address 3990 R		ergy Services	City	Houston		State	TX	Zip	77042	
Stimulating Con Address Please insert ad	mpany									
Completed by					Telephone	304-420	-1119			
Signature			Title				Date 0	1/06/202	20	_

WW-9 (5/16)

API Number	47 -	033	_	05947	
Operator's W	ell N	0			

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

OFFICE OF OIL AND GAS FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN	
Operator Name HG Energy II Appalachia, LLC OP Code 494519932	
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	No 🗸
Will a pit be used? Yes No V ANY WELL EFFLUENT CONTINUED IN TANK	T MUST BE
If so, please describe anticipated pit waste: None anticipated	BEFORE OFF-SITE DISPOSE.
Will a synthetic liner be used in the pit? Yes No If so, what ml.?	2 Not
Proposed Disposal Method For Treated Pit Wastes:	50w
Land Application (if selected provide a completed form WW-9-GPP)  Underground Injection (UIC Permit Number  Reuse (at API Number  Off Site Disposal (Supply form WW-9 for disposal location)  Other (Explain	)
Will closed loop system be used? If so, describe: NA	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. NA	
-If oil based, what type? Synthetic, petroleum, etc. NA	
Additives to be used in drilling medium? NA	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. NA	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA	
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permitted where it was properly disposed.	d waste rejected at any
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLICON April 1, 2016, by the Office of Oil and Cas of the West Virginia Department of Environmental Protection provisions of the permit are enforceable by law. Violations of any term or condition of the general permit are or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information form and all attachments thereto and that, based on my inquiry of those individuals immediately the information, I believe that the information is true, accurate, and complete. I am aware that there are submitting false information, including the possibility of fine or imprisonment.  Company Official Signature	ion. I understand that the nd/or other applicable law mation submitted on this
Company Official (Typed Name) Diane White  Company Official Title Agent	o plan about an apparent and a second
Company Official Title	
Subscribed and sworn before me this 6rd day of January , 20 20  Notary Public	RECEIVED Office of Oil and Gas
My commission expires 11/2/2021	JAN 2 2 2020
	MA/D.

Proposed Revegetation Tree	atment: Acres Disturbed C	).10 acre	
Lime			рН
Fertilizer type 10/		ecto pii	
		500 lbs/acre	
Mulch_Straw		_Tons/acre	
		_	
		Seed Mixtures	
	emporary	Perm	anent
Seed Type Tall Fescue	lbs/acre	Seed Type	lbs/acre
	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Ocamioni Control	Will Be Maintained	At All Times**	
attach: Maps(s) of road, location, pit	t and proposed area for land pit will be land applied, prothe land application area.  ved 7.5' topographic sheet.	application (unless engineered plans incluvide water volume, include dimensions (L,	W, D) of the pit, and dim
Attach: Maps(s) of road, location, pit rovided). If water from the p L, W), and area in acres, of the hotocopied section of involved lan Approved by:	t and proposed area for land pit will be land applied, prothe land application area.  ved 7.5' topographic sheet.	application (unless engineered plans incluvide water volume, include dimensions (L,	W, D) of the pit, and dim

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JAN 2 2 2020

N/A

WW-9- GPP Rev. 5/16

Pa	ge L	of Z
API Number 47 - 03	33 -	05947
Operator's Well No.		

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

Operator Name: HG Energy II Appalachia, LLC Watershed (HUC 10): Middle West Fork Creek	Quad: West Milford, 7.5'
Farm Name:	
<ol> <li>List the procedures used for the treatment and discharge of flugroundwater.</li> </ol>	uids. Include a list of all operations that could contaminate the
NA	
2. Describe procedures and equipment used to protect groundwar	terquality from the list of potential contaminant sources above.
NA	
<ol> <li>List the closest water body, distance to closest water body, discharge area.</li> </ol>	and distance from closest Well Head Protection Area to the
NA	
4. Summarize all activities at your facility that are already regula	ated for groundwater protection.
NA	
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JAN 2 2 2020

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

N/A

WW	-9-	GPF
Rev	5/1	6

NA	
. Provide a statement that no waste material will be used	for deicing or fill material on the property.
NA	
. Describe the groundwater protection instruction and traprovide direction on how to prevent groundwater contains	aining to be provided to the employees. Job procedures shall mination.
NA	
	· ·
Provide provisions and frequency for inspections of all	GPP elements and equipment.
NA	
Signature: Diane White	
1 / 2 2 2	RECEIVED Office of Oil and Gas
Date:	JAN <b>2 2</b> 202 <b>0</b>

