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west virginia department of environmental protection

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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](http://www.dep.wv.gov)

Friday, June 28, 2019  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

HG ENERGY, LLC  
5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for 26  
47-039-02395-00-00

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: 26  
Farm Name: BLACK BAND FUEL CO.  
U.S. WELL NUMBER: 47-039-02395-00-00  
Vertical Plugging  
Date Issued: 6/28/2019

## 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.

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### CONDITIONS

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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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

47-039-02395P

WW-4B  
Rev. 2/01

- 1) Date March 8, 2019
- 2) Operator's  
Well No. Black Band Fuel No. 26
- 3) API Well No. 47-039 - 02395 P

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

CHK# 4070  
\$600<sup>00</sup>

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil x / Gas      / Liquid injection      / Waste disposal      /  
(If "Gas, Production      or Underground storage     ) Deep      / Shallow x

5) Location: Elevation 1009' Watershed Brushy Branch  
District Washington County Kanawha Quadrangle Racine 7.5'

6) Well Operator HG Energy, LLC 7) Designated Agent Diane White  
Address 5260 Dupont Road Address 5260 Dupont Road  
Parkersburg, WV 26101 Parkersburg, WV 26101

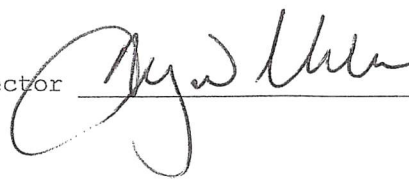
8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Terry Urban Name To Be Determined Upon Approval of the Permit  
Address P. O. Box 1207 Address       
Clendenin, WV 25045

10) Work Order: The work order for the manner of plugging this well is as follows:

- See Attached Sheet for the Plugging Manners -

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Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector  Date 4-4-19

1) Date: March 8, 2019  
2) Operator's Well Number  
Black Band Fuel No. 26  
3) API Well No: 47 - 039 - 2395  
State County Permit

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) WELL TYPE: Oil \_\_\_\_\_ Gas x Liquid Injection \_\_\_\_\_ Waste Disposal \_\_\_\_\_ Observation \_\_\_\_\_  
(If "Gas", Production x Underground Storage \_\_\_\_\_ ) Deep \_\_\_\_\_ Shallow x  
5) LOCATION: Elevation: 1009' Watershed: Brushy Branch  
District: Washington County: Kanawha Quadrangle Racine 7.5'  
6) WELL OPERATOR: HG Energy II Appalachia, LLC 494519932 7) DESIGNATED AGENT Diane White  
Address 5260 Dupont Road Address 5260 Dupont Road  
Parkersburg, WV 26101 Parkersburg, WV 26101  
8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) PLUGGING CONTRACTOR  
Name Terry Urban Name To Be Determined Upon Approval of Permit  
Address P. O. Box 1207 Address \_\_\_\_\_  
Clendenin, WV 25045 Address \_\_\_\_\_

10) WORK ORDER: The work order for the manner of plugging this well is as follows:

TD- 1,797'

Manners of plugging:

8 5/8" - 474' CTS  
4 1/2" - 1735' (FPS) 50 sks est TOC @ 1450'  
Big Injun perfs - 1751'-1773'

Plug No 1 1750' to 1650', cement plug # 1, Free point, cut & pull 4 1/2" - est 1250'  
Plug No 2 1300' to 1200', cement plug 2 - adjusted to cover casing cut  
Plug No 3 1070 - 870', cement plug 3  
Plug No 4 525' - 425', cement plug 4  
Plug No 5 100' - Surface, cement plug 5

Monument -  
6" minimum diameter metal pipe  
30" above surface  
10' in well below surface  
Sealed with cement  
API identification (1/2") height numbering

6% Gel between all plugs

*Will cover all pay zones casing cuts Elevation H<sub>2</sub>O*  
*[Signature]*  
*4-16-19*

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NEW WELL REPORT - CONTINUED

INITIAL TORPEDO RECORD	CASING AND TUBING RECORD						
Date of Shot	SIZE	PUT IN WELL			PULLED OUT		
		TRANSFER NO.	FEET	INCH	TRANSFER NO.	FEET	INCH
Name of Torpedo Co.	8-5/8" OD		471.87				
No. of Quarts	4-1/2" OD		1732.22				
Length of Shell	2-3/8" Tubing	10-R	1740.20				
Diameter of Shell							
Length of Anchor							
Top of Shot							
Bottom of Shot							
Feet of Fluid in Hole When Shot							
Results:							

INITIAL PRODUCTION FIRST 24 HOURS		KIND	SIZE	DEPTH SET	DATE SET
Open Flow /10ths Water in _____ Inch		Guide Shoe	8-5/8" OD	473.71	8-12-69
Volume _____ Cu. Ft.		Formation Packer	4-1/2"	1735.00	8-16-69
Rock Pressure _____ lbs. _____ hrs.					
Oil _____ bbls., First 24 hrs.					

**ACIDIZATION OR FRACTURING RECORD**

DATE WELL ACIDIZED \_\_\_\_\_

DATE WELL FRACTURED 9-5-69

NAME OF COMPANY Halliburton

(List below materials used in Acidizing or Fracturing, i.e., Sand, Crude Oil, Gasoline, Water, Kerosene, Mothballs, Acid, etc., giving gallons, barrels and pounds.)

\_\_\_\_\_

\_\_\_\_\_

1075 Bbl. Water

60,000 Lbs. 20/40 Sand

500 Gal. MCA Acid

\_\_\_\_\_

\_\_\_\_\_

BREAKDOWN PRESSURE 2500#

PUMPING PRESSURE Max. 2500#, Min. 1500#, Ave. 1936#

AVERAGE PUMPING RATE/MINUTE 22.4 Bbl. Min.

PUMPING TIME 98 Minutes

RESULT AFTER TREATMENT } GAS \_\_\_\_\_ CU. FT.

                                      } OIL 420 MCFPD BBL.

ROCK PRESSURE AFTER TREATMENT \_\_\_\_\_ LBS.

**CASING CEMENTED**

8-5/8" SIZE 473.71 FT. 8-12-69 DATE

BAGS USED 200 Com. 2% salt 1/8# Flo-sel

4-1/2" SIZE 1735.00 FT. 8-16-69 DATE

BAGS USED 50 50/50 Pozmix 10% salt

1/8# Flo-cel

\_\_\_\_\_ SIZE \_\_\_\_\_ FT. \_\_\_\_\_ DATE

BAGS USED \_\_\_\_\_

\_\_\_\_\_ SIZE \_\_\_\_\_ FT. \_\_\_\_\_ DATE

BAGS USED \_\_\_\_\_

\_\_\_\_\_ SIZE \_\_\_\_\_ FT. \_\_\_\_\_ DATE

BAGS USED \_\_\_\_\_

\_\_\_\_\_ SIZE \_\_\_\_\_ FT. \_\_\_\_\_ DATE

\_\_\_\_\_

TOP DEPTH OF CEMENT SHOWN BY TEMPERATURE LOG

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

REMARKS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

APPROVED

B. J. Valentine

SUPERINTENDENT

WW-4A  
Revised 6-07

1) Date: March 8, 2019  
2) Operator's Well Number Black Band Fuel No. 26

3) API Well No.: 47 - 039 - 02395

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

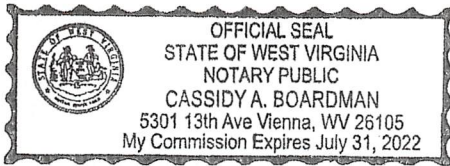
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Dickinson Fuel Company</u>	Name <u>NA</u>
Address <u>P.O. Box 311</u>	Address _____
<u>Charleston, WV 25321</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>NA</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Terry Urban</u>	(c) Coal Lessee with Declaration
Address <u>P. O. Box 1207</u>	Name <u>NA</u>
<u>Clendenin, WV 25045</u>	Address _____
Telephone <u>304-549-5915</u>	_____

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator HG Energy, LLC  
 By: Diane White *Diane White*  
 Its: Agent  
 Address 5260 Dupont Road  
Parkersburg, WV 26101  
 Telephone 304-420-1119

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Subscribed and sworn before me this 8th day of MARCH 2019

My Commission Expires 7/31/2022 *Cassidy Boardman* Notary Public

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WV Department of Environmental Protection

**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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

47-039-02395 P

WW-9  
(5/16)

API Number 47 - 039 - 02395  
Operator's Well No. \_\_\_\_\_

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy, LLC OP Code 494497948

Watershed (HUC 10) Brushy Branch Quadrangle Racine 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: Fluids encountered while plugging the well

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? 20 mil

Proposed Disposal Method For Treated Pit Wastes:

- 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 Any well effluent will be contained in tanks until disposed of off site at an approved disposal site.)

Will closed loop system be used? If so, describe: No

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? To be determined upon approval of the plugging permit

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 or imprisonment.

Company Official Signature Diane White

Company Official (Typed Name) Diane White

Company Official Title Agent

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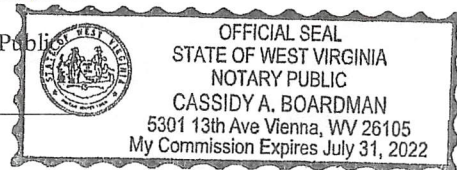
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Environmental Protection

Subscribed and sworn before me this 8th day of MARCH, 2019

Cassidy Boardman Notary Public

My commission expires 2/31/2022





Proposed Revegetation Treatment: Acres Disturbed 2.0 Acres Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10/20/20

Fertilizer amount 500 lbs/acre

Mulch Straw 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5

- Sediment Control Will Be In Place At All Times -

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]  
Comments: \_\_\_\_\_

Title: Inspector Oil & Gas

Date: 4/4/19

Field Reviewed?  Yes  No

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# Reclamation Plan For:

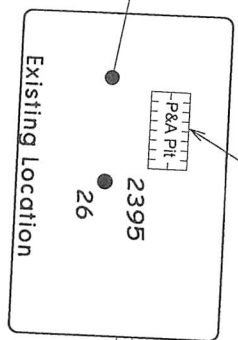
## Black Band Fuel No. 26

47-039-2395

WASHINGTON DISTRICT  
LOUDEN DISTRICT

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NOTE:  
Location is existing. Only minimal earthwork will be required to P&A existing well. Any disturbed areas will be revegetated as per the attached WW-9.

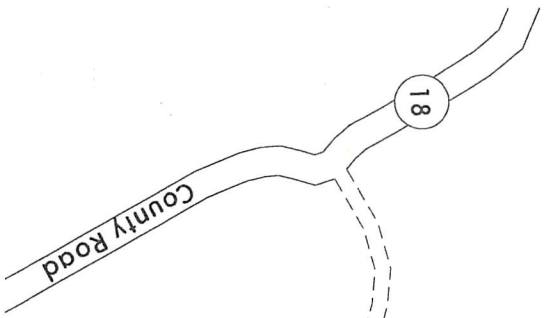


### Black Band Fuel Lease

Dickinson Fuel Co.  
- Surface

Kanawha State  
Forest

Approximately 2.6 mi. of  
Existing Access Road



**NOTE**  
REFER TO THE WVDEP  
EROSION AND SEDIMENT CONTROL  
FIELD MANUAL VER. MAY 2012 FOR  
BMPs CONTROLLING EROSION AND  
SEDIMENT FROM SOIL-DISTURBING  
OPERATIONS.

#### Notes:

- REQUESTED PERMIT IS FOR PLUGGING AN EXISTING WELL
- ALL ACCESS ROADS ARE EXISTING AND WILL BE UPGRADED IN ORDER TO ACCOMMODATE WELL WORK EQUIPMENT AND THEN WILL BE RECLAIMED TO WVDEP STANDARDS.
- ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- LOCATION OF DRILL PIT MAY BE CHANGED BASED ON AS-BUILT CONSIDERATIONS.
- DRAWING NOT TO SCALE.

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

Operator Name: HG Energy, LLC  
Watershed (HUC 10): Brushy Branch Quad: Racine 7.5'  
Farm Name: \_\_\_\_\_

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

NA

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

NA

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

NA

4. Summarize all activities at your facility that are already regulated for groundwater protection.

NA

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

NA

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

NA

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

NA

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

NA

Signature: Aiane White

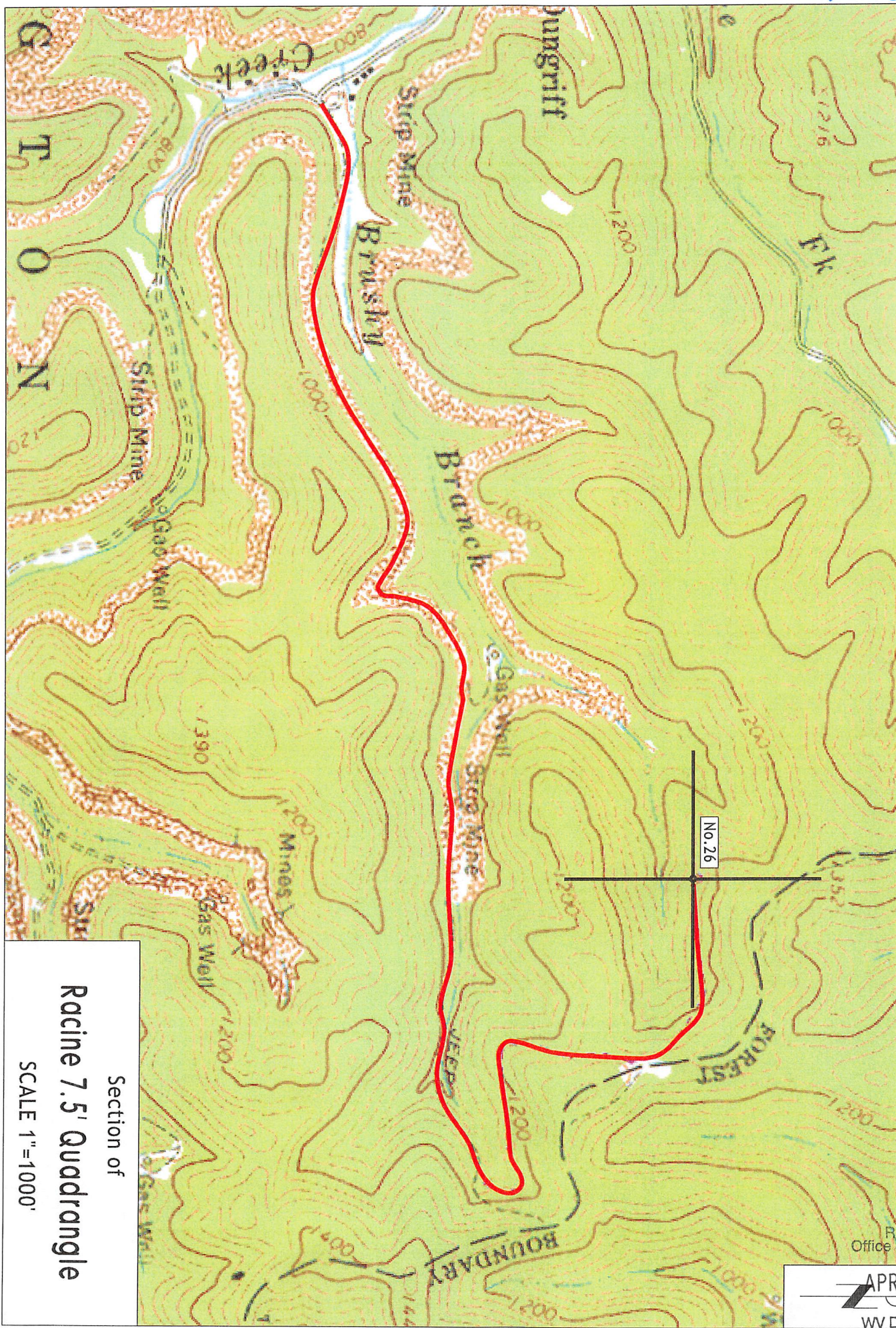
Date: 3/8/19

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SUBJECT WELL  
Black Band Fuel No.26  
47-039-2395



Section of

Racine 7.5' Quadrangle

SCALE 1"=1000'

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Environmental Protection

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil & Gas  
**WELL LOCATION FORM: GPS**

API: 47- 039 - 2395 WELL NO: 26

FARM NAME: Black Band Fuel No.26

RESPONSIBLE PARTY NAME: H.G. Energy, LLC

COUNTY: Kanawha DISTRICT: Washington

QUADRANGLE: Racine 7.5'

SURFACE OWNER: Dickinson Fuel Co.

ROYALTY OWNER: HG Energy, LLC

UTM GPS NORTHING: 4,233,190 (NAD 83)

UTM GPS EASTING: 439,890 (NAD 83) GPS ELEVATION: 308 m. (1009')

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil & Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone:17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) - meters.
2. Accuracy to Datum - 3.05 meters
3. Data Collection Method:

Survey Grade GPS  Post Processed Differential   
 Real-Time Differential

Mapping Grade GPS  Post Processed Differential   
 Real-Time Differential

- 4 **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Diane White  
Diane C. White

Designated Agent  
Title

11/20/2018

Date RECEIVED  
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