

05/24/2019



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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)

Monday, May 20, 2019

WELL WORK PLUGGING PERMIT  
Vertical Plugging

HG ENERGY, LLC  
5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for 11  
47-043-01603-00-00

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

A blue ink signature of James A. Martin, Chief, is written over the printed name and title.

Operator's Well Number: 11  
Farm Name: JANET INGRAM  
U.S. WELL NUMBER: 47-043-01603-00-00  
Vertical Plugging  
Date Issued: 5/20/2019

Promoting a healthy environment.

I

47-043-01603P

05/24/2019

## 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.

47-043-01603P

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WW-4B  
Rev. 2/01

1) Date March 5, 2019  
2) Operator's  
Well No. Sweetland L&M, Co 11  
3) API Well No. 47-043-01603 P

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 X / Gas \_\_\_ / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production \_\_\_ or Underground storage \_\_\_) Deep \_\_\_ / Shallow X

5) Location: Elevation 1119' Watershed Joe's Creek  
District Duval County Lincoln Quadrangle Garrett's Bend 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 Jeffery L. Smith Name To Be Determined Upon Approval of the Permit  
Address 5369 Big Tyler Road Address \_\_\_\_\_  
Cross Lanes, WV 25313

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 Jeffrey Smith Date 3-18-19

47-043-01603P

05/24/2019

WW-4B - Conti  
Rev. 2/01

- 1) Date: March 5, 2019
- 2) Operator's Well Number Sweetland L&M, Co. 11
- 3) API Well No: 47 - 043 - 1603  
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: 1119' Watershed: Joe's Creek  
District: Duval County: Lincoln Quadrangle Garrett's Bend 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 Jeffery L Smith Name To Be Determined Upon Approval of Permit  
Address 5369 Big Tyler Road Address \_\_\_\_\_  
Cross Lanes, WV 25313 \_\_\_\_\_

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

TD- 2,673'

Manners of plugging:

8 5/8" - 514' CTS  
4 1/2" - 2671' cemented w/50 sks est TOC @ 2170'

- Berea 2599'-2620'
- Big Injun - 2122' - 2168'
- SPT GEL TO ABOVE 2600'
- Plug No 1 2590' to 2490', cement plug # 1
- Plug No 2 1900' to 1800', cement plug 2, free point, cut & pull 4 1/2" - est 1100'
- Plug No 3 1150' to 1050' - cement plug # 3, adjusted to cover casing cut
- Plug No 4 565' - 465', cement plug #4
- Plug No 5 100' - surface - cement plug # 5

\*\* If 4 1/2" casing is not free below 1800' - perforate prior to plug placement

- 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

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FEB 19 1975

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OFFICE COPY  
ENGINEERING DEPT.

Oil and Gas Division

05/24/2019

WELL RECORD

Quadrangle St. Albans

Permit No. Lin-1603

Rotary X Oil X  
Cable \_\_\_\_\_ Gas X  
Recycling \_\_\_\_\_ Comb. XX  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Company Pennzoil Company  
Address P.O. Box 1588, Parkersburg, W. Va. 26101  
Farm Sweetland Land & Mineral Acres 337  
Location (waters) Williams Fork  
Well No. 11 Elev. 1119.40'  
District Duval County Lincoln  
The surface of tract is owned in fee by \_\_\_\_\_  
Mr. Tom Ingram  
Address P. O. Box 8156, Nitro, W. Va. 25143  
Mineral rights are owned by Sweetland Land & Min. Co.  
Address 1012 First Huntington Nat'l Bldg., Huntington, W. Va.  
Drilling Commenced 11-24-74  
Drilling Completed 11-29-74  
Initial open flow 15,000 cu. ft. 15 bbls.  
Final production 12,000 cu. ft. per day 12 bbls.  
Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	514	514	
7			
5 1/2			
4 1/2	2671	2671	
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Fractured: 12-27-74 w/500 gals. 15% HCL, 544 Bbls. lease crude, 19,000# 20/40 sd.

Perf: 2608-2613-20 holes

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Berea \_\_\_\_\_ Depth \_\_\_\_\_

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Substructure			0	8		
Sur. R. & Red Rock			8	255		
Shale			255	1587		
Salt Sand			1587	1800		
Shale			1800	1826		
Sand			1826	1882		
Little Lime			1882	1908		
Pencil Cave			1908	1911		
Big Lime			1911	2084		
McCrary Shale			2084	2122		
Pocono Injun			2122	2168		
Shale			2168	2252		
Weir Sand			2252	2317		
Shale			2317	2578		
Coffee Shale			2578	2599		
Berea			2599	2620		
Shale			2620	2673		
Total Depth				2673		

(over)

\* Indicates Electric Log tops in the remarks section.

WW-4A  
Revised 6-07

1) Date: March 5, 2019  
2) Operator's Well Number Sweetland Land & Mineral Co. 11

3) API Well No.: 47 - 043 - 01603

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

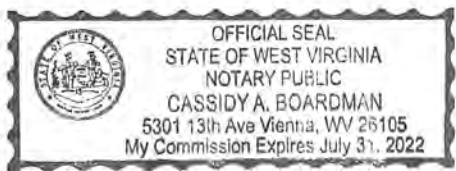
<b>4) Surface Owner(s) to be served:</b>	<b>5) (a) Coal Operator</b>
(a) Name <u>Janet Ingram</u>	Name <u>NA</u>
Address <u>8 Wildcat Road</u>	Address _____
<u>Sod, WV 25564</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>NA</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
<b>6) Inspector</b> <u>Jeffery L. Smith</u>	(c) Coal Lessee with Declaration
Address <u>5369 Big Tyler Road</u>	Name <u>NA</u>
<u>Cross Lanes, WV 25313</u>	Address _____
Telephone <u>681-313-6743</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	<u>HG Energy, LLC</u>	
By:	<u>Diane White</u> <i>Diane White</i>	RECEIVED Office of Oil and Gas
Its:	<u>Agent</u>	
Address	<u>5260 Dupont Road</u>	<u>MAR 22 2019</u>
	<u>Parkersburg, WV 26101</u>	
Telephone	<u>304-420-1119</u>	WV Department of Environmental Protection

Subscribed and sworn before me this 5th day of MARCH 2019  
Cassidy Boardman Notary Public  
My Commission Expires 7/31/2022

**Oil and Gas Privacy Notice**

The Office of Oil and Gas processes your personal information, such as name, address and 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).

**SURFACE OWNER WAIVER**

Operator's Well  
Number

Sweetland L&M, Co 11

**INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A**

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.  
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

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

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) 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.

**Comments must be in writing.** Your comments must 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.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

**If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.**

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON  
ETC.

FOR EXECUTION BY A CORPORATION,

	Date		Name	
Signature		By		
		Its		
				Date
			Signature	Date

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47-043-01603 A

05/24/2019

WW-9  
(5/16)

API Number 47 - 043 - 01603  
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) Joe's Creek Quadrangle Garrett's Bend 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.

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Office of Oil and Gas

MAR 22 2019

Company Official Signature Diane White

Company Official (Typed Name) Diane White

Company Official Title Agent

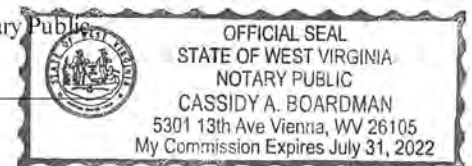
WV Department of  
Environmental Protection

Subscribed and sworn before me this 5th day of MARCH, 2019

Cassidy Boardman

Notary Public

My commission expires 7/31/2022





Proposed Revegetation Treatment: Acres Disturbed 1.7 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
Tall Fescue	40
Ladino Clover	5

Seed Type	lbs/acre
Tall Fescue	40
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: Jeffrey Smith

Comments: All sediment control to be removed prior to release

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Office of Oil and Gas

MAR 22 2019

WV Department of  
Environmental Protection

Title: Oil & Gas Inspector Date: 3-18-19

Field Reviewed?  Yes  No

N/A

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

Operator Name: HG Energy, LLC

Watershed (HUC 10): Joe's Creek Quad: Garrett's Bend 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

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MAR 22 2019

WV Department of  
Environmental Protection

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

NA

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

N/A

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

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MAR 22 2019  
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Signature: Diane White

Date: 3-5-19

47-043-01603P

# Reclamation Plan For:

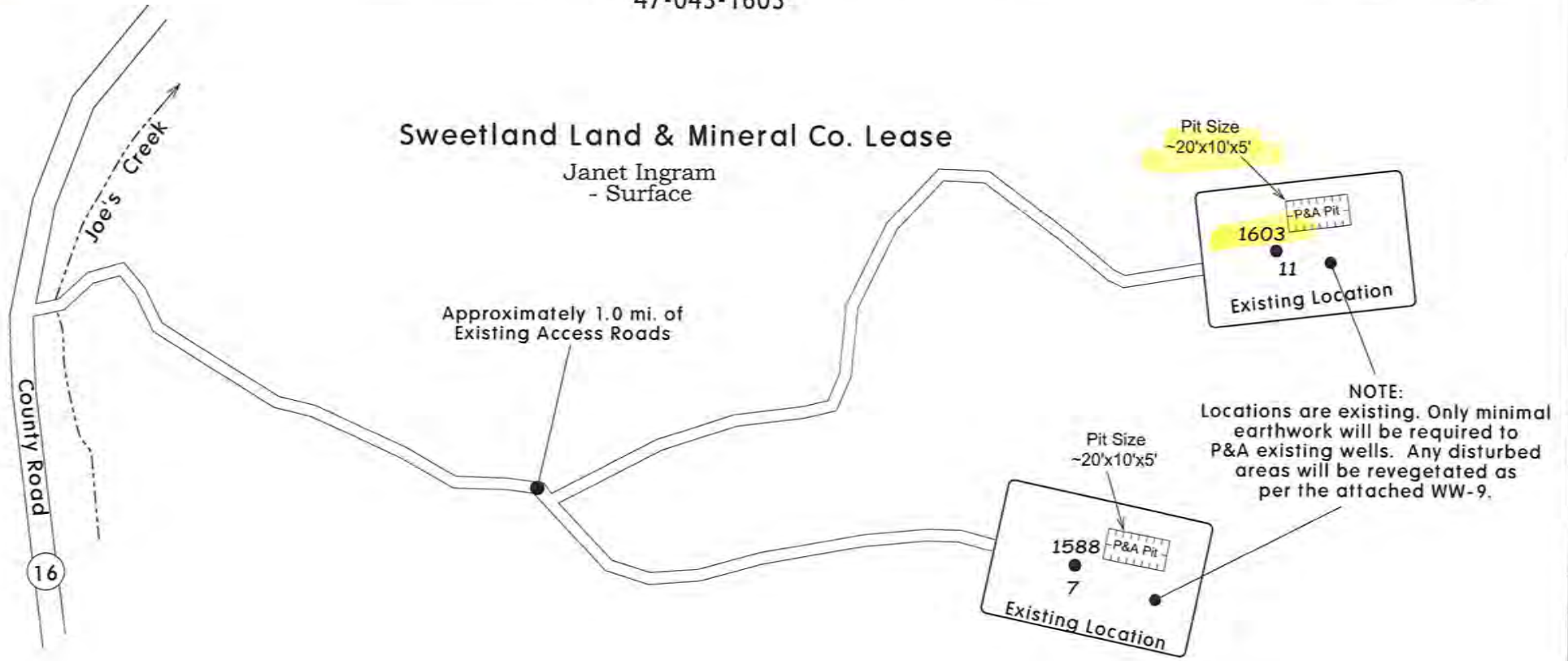
## Sweetland Land & Mineral Co. No. 5

47-043-1591

## Sweetland Land & Mineral Co. No. 11

47-043-1603

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MAR 22 2019  
WV Department of  
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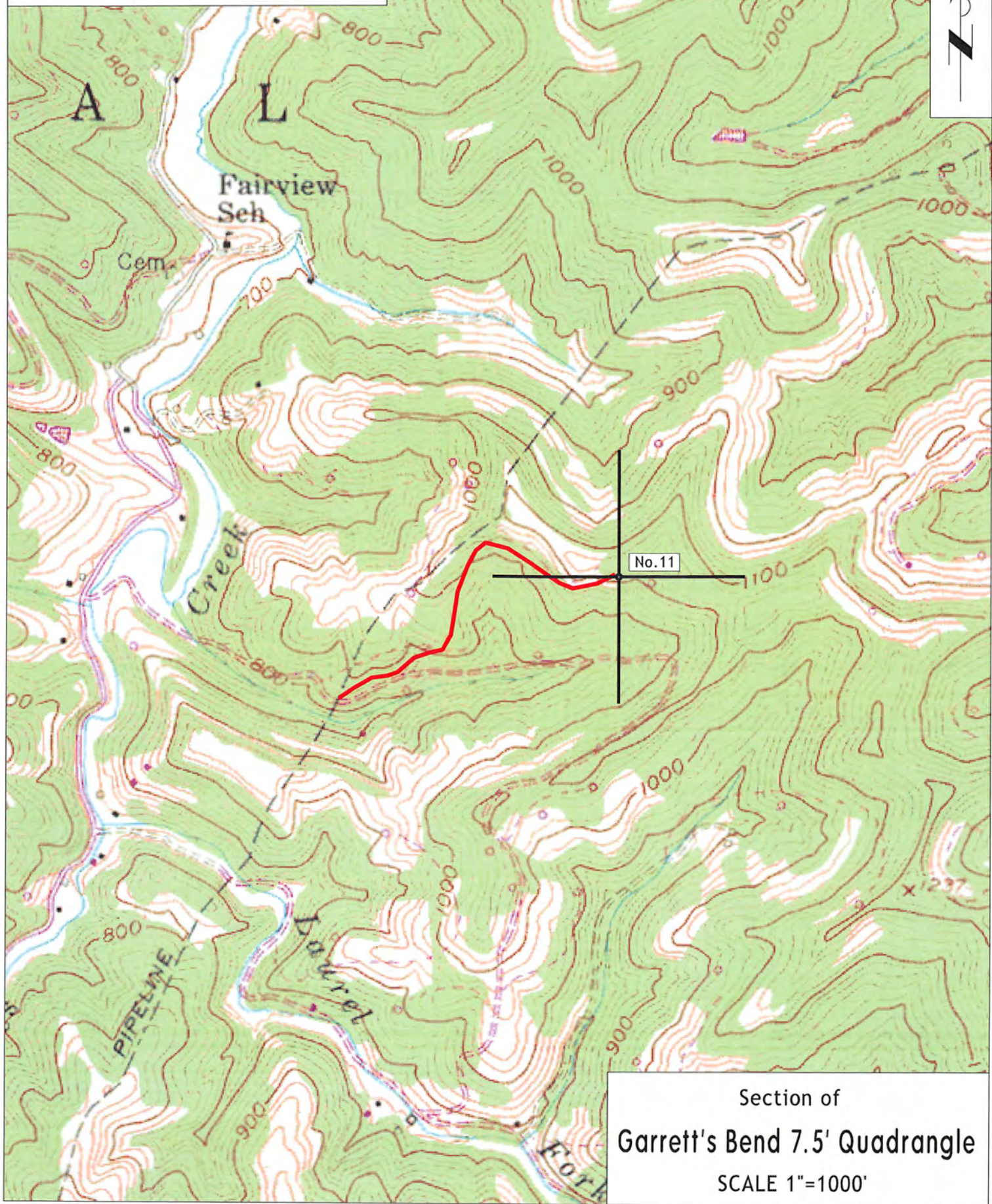
### Notes:

- REQUESTED PERMIT IS FOR PLUGGING AN EXISTING WELL
- ALL ACCESS ROADS ARE EXISTING AND WILL BE UPGRADED IN ORDER TO ACCOMODATE 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.

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

05/24/2019

SUBJECT WELL  
Sweetland L&M Co. No. 11  
47-043-01603



Section of  
Garrett's Bend 7.5' Quadrangle  
SCALE 1"=1000'

47-043-01603 P  
05/24/2019

WW-7  
8-30-06



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

API: 47- 043 - 01603 WELL NO: 11

FARM NAME: Sweetland L&M, Co. No.11

RESPONSIBLE PARTY NAME: H.G. Energy, LLC

COUNTY: Lincoln DISTRICT: Duval

QUADRANGLE: Garrett's Bend 7.5'

SURFACE OWNER: Janet Ingram

ROYALTY OWNER: HG Energy, LLC

UTM GPS NORTHING: 4,235,864 (NAD 83)

UTM GPS EASTING: 420,960 (NAD 83) GPS ELEVATION: 341 m. (1119')

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

2/8/2019  
Date

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Office of Oil and Gas  
MAR 22 2019  
WV Department of  
Environmental Protection