



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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Wednesday, April 5, 2023
WELL WORK PLUGGING PERMIT
Vertical Plugging

REFLECTANCE ENERGY, LP
200 GEORGE STREET, SUITE 4

BECKLEY, WV 25801

Re: Permit approval for 11-111
47-059-00700-00-00

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: 11-111
Farm Name: SKILLET FORK LANDS
U.S. WELL NUMBER: 47-059-00700-00-00
Vertical Plugging
Date Issued: 4/5/2023

Promoting a healthy environment.

04/07/2023

PERMIT CONDITIONS

4705900700

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.

04/07/2023

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 ____ /
(If "Gas, Production x or Underground storage ____) Deep ____ / Shallow x

5) Location: Elevation 1615 ft Watershed Skillet Creek
District Stafford County Mingo Quadrangle Wharnccliffe

6) Well Operator Reflectance Energy, LP 7) Designated Agent Jim Higgins
Address 200 George Street, Suite 4 Address 200 George Street, Suite 4
Beckley, WV 25801 Beckley, WV 25801

8) Oil and Gas Inspector to be notified Name Brian Warden - WVDEP Office of Oil & Gas
Address 601 57th Street, SE
Charleston, WV 25304
9) Plugging Contractor Name R & J Well Service, Inc
Address P.O. Box 40
Hueysville, KY 41640

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

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WV Department of
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 3/8/23

04/07/2023

Well # WIH-700
47-059-00700

TD 3973'
Elevation 1620'

Casing Schedule

10" @ 31'
8 ¼" @ 1071'
6 5/8" 2970' (pulled)
4 ½" @ 3957' (cemented w/ 70 sks)

Coal: 20', 65', 295', 453', 563', 774', and 1007'

Water: not mentioned

Gas: 3311'-3118' and 3906'-3915'

- 1) Notify State Inspector 48 hours prior to MIRU.
- 2) MIRU, check TD.
- 3) TIH w/ tubing to 3915'. Pump 20 bbls of 6% gel water. Set 120' Class A/Class L Cement plug from 3915' to 3795' (Berea Perfs). TOOH w/ 30 jnts of tubing. Let set, tag TOC. Top off as needed.
- 4) TIH w/ tubing to 3318'. Set 110' Class A/Class L Cement plug from 3318' to 3211' (Big Lime). TOOH w/ 30 jnts of tubing. Wait on cement. Tag TOC, top off as needed.
- 5) Pump 15 bbls of 6% gel water. TOOH w/ tubing.
- 6) Free-point and shoot off 4 ½" casing. TOOH w/ casing.
- 7) TIH w/ tubing to 4 ½" casing cut. Set 100' Class A/Class L Cement Plug, 50' in and 50' out of casing cut.
- 8) TOOH w/ tubing to 1620'. Pump 20 bbls of 6% gel water. Set 100' Class A/Class L Cement Plug covering elevation. *Elevation Plug 1565 to 1615 BGR*
- 9) TOOH w/ tubing to 1121'. Set 100' Class A/Class L Cement Plug (8" casing seat). TOOH w/ tubing.
- 10) Free-point 8 ¼" casing. Attempt to shoot off and pull. If unable to pull, perforate casing @ 1057', 1007', 958', 824', 774', 724', 613', 563', 500', 453', 400', 345', 295', 250', 200', 150', 100', and 150'.
- 11) TIH w/ tubing to 1057'. Pump 20 bbls of 6% gel water. Set 100' Class A/Class L Expanding Cement plug from 1057' to 957' (Coal 1007-1005').
- 12) TOOH w/ tubing to 824'. Set 100' Class A/Class L Expanding Cement Plug from 824' to 724' (Coal 874' to 871').
- 13) TOOH w/ tubing to 613'. Set 213' Class A/Class L Expanding Cement Plug from 613' to 400' (Coal 563' to 561', 463' to 461').
- 14) TOOH w/ tubing to 345'. Circulate Class A/Class L Expanding Cement Plug from 345' to surface.
- 15) TOOH w/ tubing. Install monument to WV DEP Specs.

Bruce [Signature]

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*Well is located at an active mine. Reclamation will take place after mining operations are complete.
** 6% gel water must be placed between all cement plugs. Expanding Cement must be used to cover all coal seams.

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4705900700

WW-4A
Revised 6-07

1) Date: November 10, 2022
2) Operator's Well Number
11-111
3) API Well No.: 47 - 059 - 00700

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>WPP, LP</u>	Name <u>Reflectance Energy, LLC</u>
Address <u>5260 Irwin Road</u>	Address <u>200 George Street, Suite 4</u>
<u>Huntington, WV 25705</u>	<u>Beckley, WV 25801</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>WPP, LLC</u>
(c) Name _____	Address <u>5260 Irwin Road</u>
Address _____	<u>Huntington, WV 25705</u>
6) Inspector <u>Brian Warden - WVDEP Office of Oil & Gas</u>	(c) Coal Lessee with Declaration
Address <u>601 57th Street, SE</u>	Name <u>Reflectance Energy, LLC</u>
<u>Charleston, WV 25304</u>	Address <u>200 George Street, Suite 4</u>
Telephone <u>304-205-3229</u>	<u>Beckley, WV 25801</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.

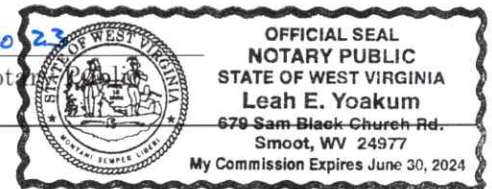
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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.

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Well Operator Reflectance Energy, LP
 By: Jim Higgins
 Its: Designated Agent
 Address 200 George Street, Suite 4
Beckley, WV 25801
 Telephone 681-207-7393 ext 4

Subscribed and sworn before me this 2nd day of March 2023
Leah E. Yoakum Notary
My Commission Expires June 30, 2024



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 depprivacyoffier@wv.gov.

04/07/2023



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
Phone (304) 926-0450

Harold D. Ward, Cabinet Secretary
dep.wv.gov

**BEFORE THE OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA**

IN THE MATTER OF A VARIANCE FROM LEGISLATIVE RULE 35CSR4 SECTION 14.1. AND LEGISLATIVE RULE 35CSR8 SECTION 20.1, RELATING TO THE CEMENTING OF OIL AND GAS WELLS)))))))	ORDER NO. 2022-13
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REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well plugging.

FINDINGS OF FACT

1. On July 28, 2022, Diversified Gas & Oil Co. (DGO) submitted a variance request from Legislative Rule 35CSR4 for the use of API Class L cement in place of API Class A cement, relating to the plugging of conventional wells.
2. Laboratory analysis submitted by DGO on July 28, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR8 Section 20.1., for the use of API Class L cement in place of API Class A cement, relating to the plugging of horizontal wells.

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4. On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.


ORDER

It is ordered that the Class L cement product approved and monogrammed by API is approved for use in place of API Class A cement for well plugging subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



James Martin, Chief
Office of Oil and Gas

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SURFACE OWNER WAIVER

4705900700

Operator's Well
Number

11-111

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 57th 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.

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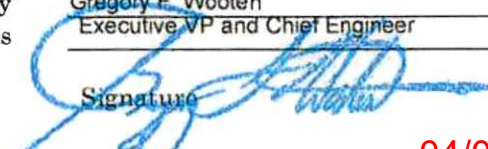
VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice of Intent 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 WPPLP	
Signature		By <u>Gregory E. Wooten</u>	3/2/2022
		Its <u>Executive VP and Chief Engineer</u>	Date 3/2/2023
			Date 3/2/2023

04/07/2023

4705900700

WW-4B

API No. 47-059-00700

Farm Name Skillet Fork Lands

Well No. 11-111

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator ____ / owner X / lessee ____ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 3/2/2023

WPP LLC
By: [Signature]
Its Senior VP and Chief Engineer

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Environmental Protection

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4705900700
 API No. 47-059-00700
 Farm Name Skillet Fork Lands
 Well No. 11-111

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WAIVER

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Date: 2/27/23

Reflectance Energy, LLC
 By: Jim Higgins
 Its Chief Engineer

Jim Higgins

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

Operator Name Reflectance Energy, LLC OP Code _____

Watershed (HUC 10) Buffalo Creek-Guyandotte River Quadrangle Wharnccliffe

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: fresh water

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

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 fluid recovered will be hauled to a core tank battery and disposed of properly)

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

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. fresh water

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? n/a

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. n/a

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-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 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.

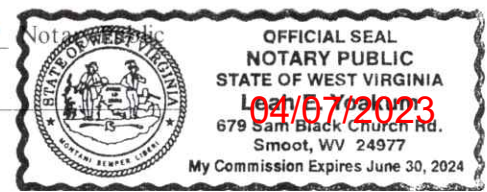
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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 James C. Higgins, II
Company Official (Typed Name) James C Higgins, II
Company Official Title Designated Agent

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WV Department of
Environmental Protection

Subscribed and sworn before me this 2nd day of March, 2023

My commission expires June 30, 2024
Leah C Yoakum



Proposed Revegetation Treatment: Acres Disturbed 1 +/- Prevegetation pH

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 650 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike	5	Alsike	5
Annual Rye	15		

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:

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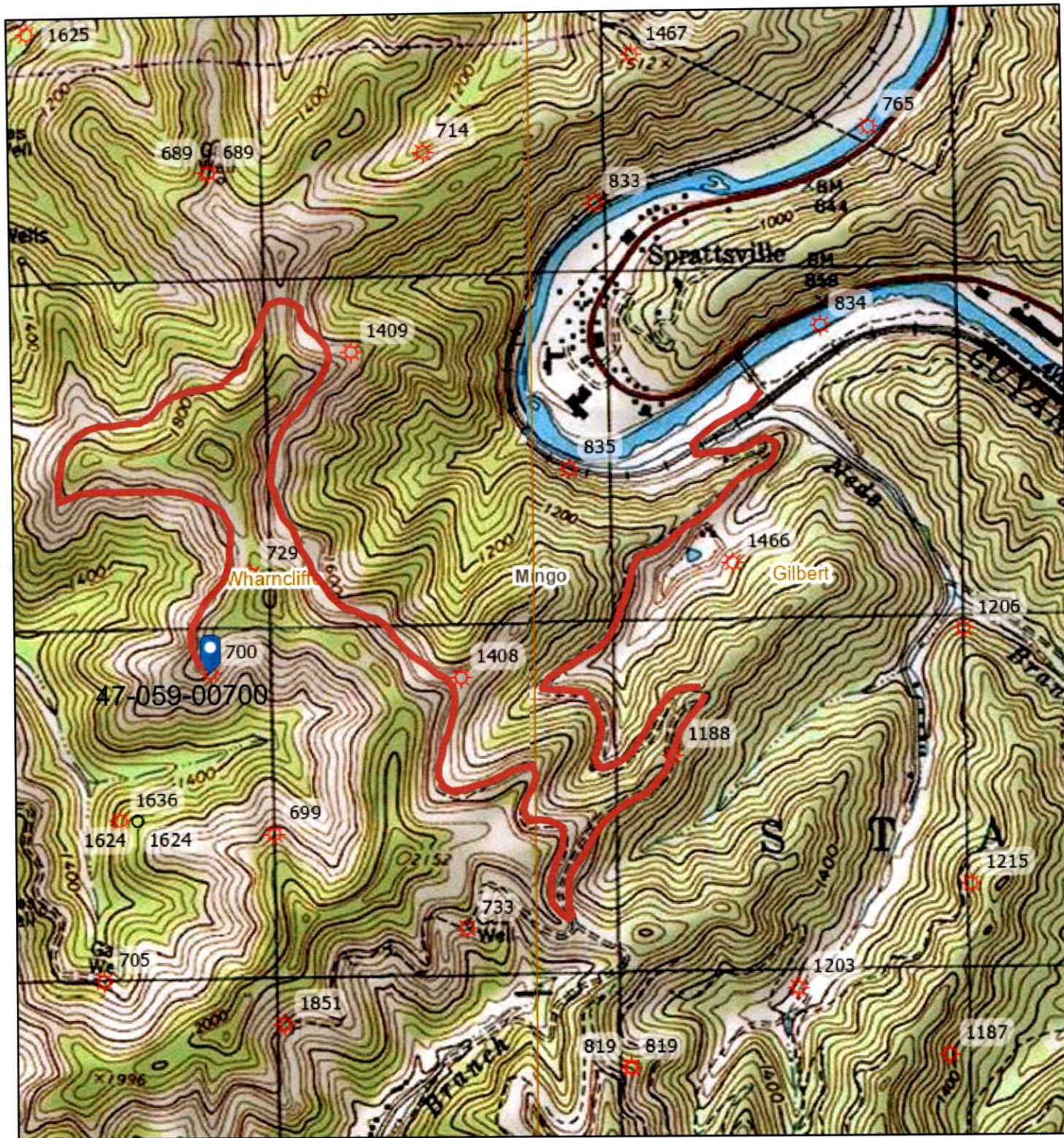
MAR 6 2023

WV Department of Environmental Protection

Title: [Signature] Date: 3/8/23

Field Reviewed? () Yes (/) No

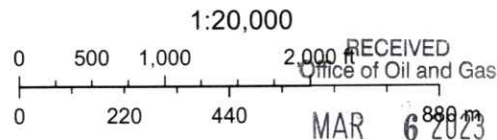
WV Oil & Gas Wells (WVOG) 47 0 5 9 0 0 7 0 0



2/27/2023, 6:33:26 PM

- Labels (7.5' Quadrangles)
- 7.5' Quadrangles
- State Boundary
- Counties

- County Labels
- WV Oil and Gas All Individual Wells
 - Gas
 - Other (including permits)



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04/07/2023
West Virginia Geological and Economic Survey



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-059-00700 WELL NO.: 11-111

FARM NAME: Skillet Fork Lands

RESPONSIBLE PARTY NAME: Reflectance Energy, LP

COUNTY: Mingo DISTRICT: Stafford

QUADRANGLE: Wharncliffe

SURFACE OWNER: Western Pocahontas Properties, LP

ROYALTY OWNER: Western Pocahontas Properties, LLC

UTM GPS NORTHING: 4,161,059.54

UTM GPS EASTING: 421,719.44 GPS ELEVATION: 492.5

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 and 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.

Jim Higgins
Signature

Designated Agent
Title

2/27/2023
Date

Date

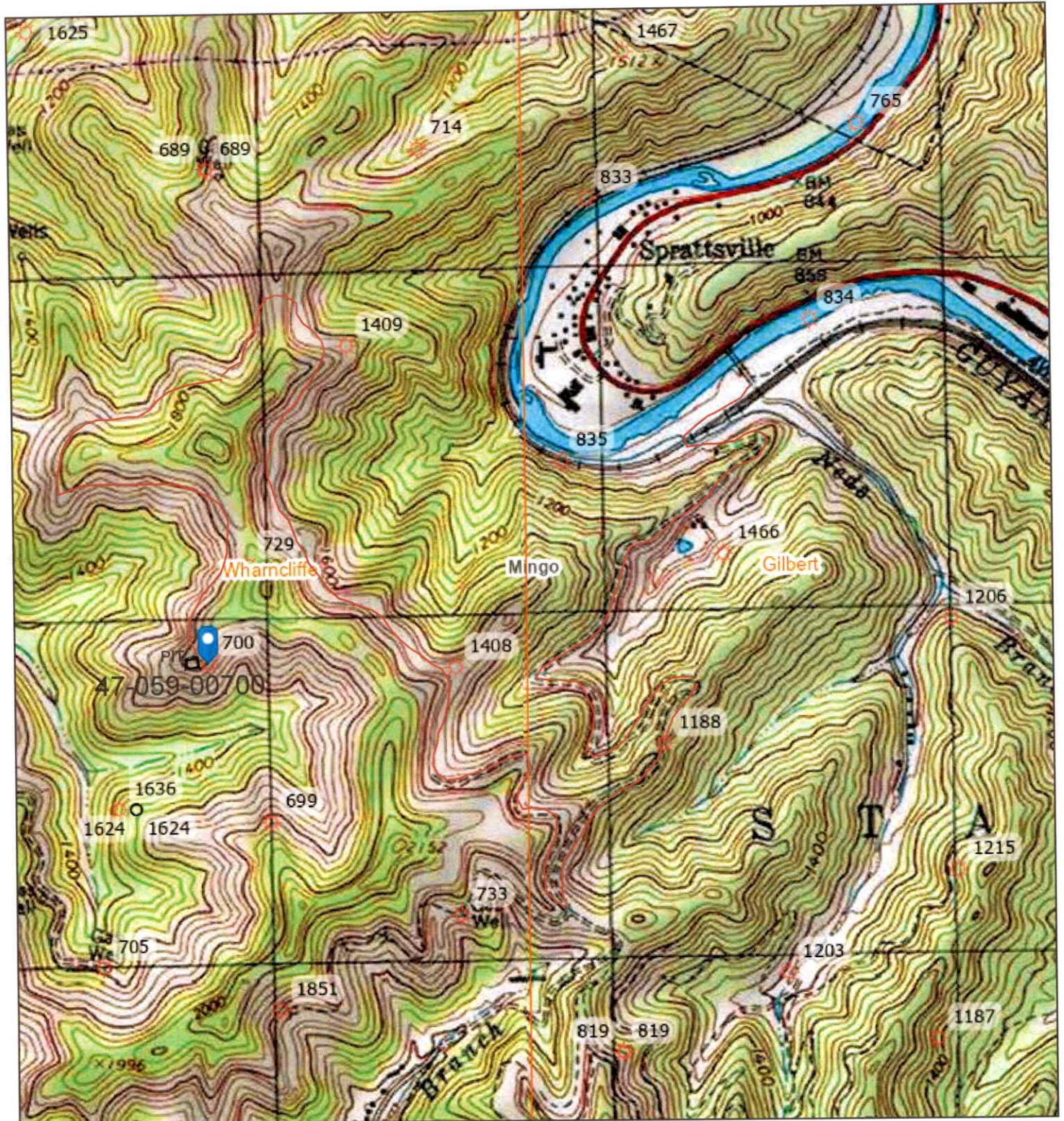
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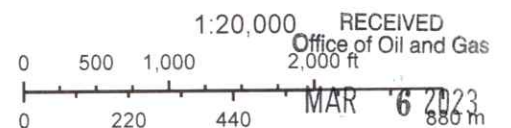
WV Oil & Gas Wells (WVOG) 4705900700



2/27/2023, 6:33:26 PM

- Labels (7.5' Quadrangles)
- 7.5' Quadrangles
- State Boundary
- Counties

- County Labels
- WV Oil and Gas All Individual Wells
- ★ Gas
- Other (including permits)



WV Department of Environmental Protection

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04/07/2023

West Virginia Geological and Economic Survey



Kennedy, James P <james.p.kennedy@wv.gov>

plugging permit issued 4705900700

2 messages

Kennedy, James P <james.p.kennedy@wv.gov>

Wed, Apr 5, 2023 at 8:36 AM


To: Brian Warden <brian.warden@wv.gov>, rmahon@assessor.state.wv.us


To whom it may concern a plugging permit has been issued for 4705900700.

James Kennedy

WVDEP OOG

2 attachments

 **ir-8 4705900700.pdf**
120K

 **4705900700.pdf**
2696K

Warden, Brian <brian.warden@wv.gov>

Wed, Apr 5, 2023 at 8:36 AM

To: "Kennedy, James P" <james.p.kennedy@wv.gov>

Cc: rmahon@assessor.state.wv.us

Received, thank you.

[Quoted text hidden]

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