



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

Monday, July 6, 2026
WELL WORK PLUGGING PERMIT
Vertical Plugging

US FISH AND WILDLIFE SERVICE
3982 WAVERLY RD.

WILLIAMSTOWN, WV 26187

Re: Permit approval for 4710780561
47-107-01812-00-00

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.

H. Jason Harmon
Chief

Operator's Well Number: 4710780561
Farm Name: BLM/US FISH AND WILDLIFE SERVICES
U.S. WELL NUMBER: 47-107-01812-00-00
Vertical Plugging
Date Issued: 7/6/2026

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.
4. 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.

4710701812
1) Date June 16, 2026
2) Operator's
Well No. Unknown
3) API Well No. 47-107 - 80651

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 ____

5) Location: Elevation 607' Watershed Ohio River Watershed
District Williams County Wood Quadrangle Valley Mills

6) Well Operator US Fish and Wildlife Service 7) Designated Agent Victor Elam
Address 3982 Waverly Road Address 3982 Waverly Road
Williamstown, WV 26187 Williamstown, WV 26187

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Sherman King Name Hydrocarbon Well Services
Address Sherman.b.king@wv.gov Address PO box 995
681 344-2411 Buckhannon WV 26201

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

See Attached

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

Work order approved by inspector Sherman King Date 6/23/2026

07/10/2026

PLUGGING PROGNOSIS

Well Name – Unknown (no records)
 API# 47-107-80651
 District, Williams
 Wood County, WV

Using off set plugging records for 47-107-01523

BY: Hydrocarbon Well Service
 DATE: 12/16/24

OFF SET WELL STATUS 47-107-01523:

TD @ Est. 950'

Elevation @ 607'

7" casing @ 345'
 5 1/2" casing @ 800'
 2" tubing @ 950'

Fresh Water @ unknown'
Saltwater @ unknown
Oil Show @ unknown
Gas shows @ unknown'
Coal @ None reported

1. Notify inspector Sherman King @ 681-344-2411, 24 hrs. prior to commencing operations.
2. ***Note, if any casings without cement in the annulus cannot be retrieved, make sure to consult with Inspector, and to perforate all saltwater, freshwater, coal, oil & gas shows, and elevation in the well.**
3. Rig up pull rods and tubing, check TD @ or below 950'
4. TIH, pump gel and then spot 100' cement plug from 950 – 850', displace and TOO H.
5. Check cement top, add cement if needed.
6. Pull 5.5" casing.
7. If unable to pull, Free point 5.5" casing, cut @ free point and TOO H with 5.5". TIH and set 100' cement plug across casing seat and 50' in/out of casing cut and displace plug. Perforate all saltwater, freshwater, coal, oil and gas shows below cut. Do not omit any plugs.
8. TIH to elevation 657', set 100' cement plug from 657' to 557', displace and TOO H.

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Sherman King
 07/10/2026

9. Pull 7" casing. If unable to pull, free point 7" casing, cut casing @ free point, TOO H with 7" casing.
10. TIH and set 100' cement plug across casing seat and 50' in/out of casing cut. Perforate all saltwater, freshwater, coal, oil and gas shows below cut. Do not omit any plugs.
11. TOO H hole to 100', set 100' cement plug 100' to surface'.
12. 6 % Gel spacer between all cement plugs.
13. RDMO
14. Reclaim to WV-DEP specifications.
15. Erect monument with API#, and date plugged.

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4710701812

107-1523-P

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07/10/2026

4710701812 29-Apr-94

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
SECTION OF OIL AND GAS
NITRO 25143
FINAL INSPECTION REPORT

Dear MARK A. SCOTT:

The FINAL INSPECTION REPORT for the permit listed below has been received in this office. Your Affidavit of Plugging was received and reclamation requirements approved. The well designated by the permit number below has been released under your bond.

Company: NATURE CONSERVANCY OF WVA.
Permit No. 47-107-01523 P
Farm: NATURE CONSERVANCY
County: WOOD

Issued On: 09/09/93
Well: MUSKINGUM IS. 2
District: WILLIAMS



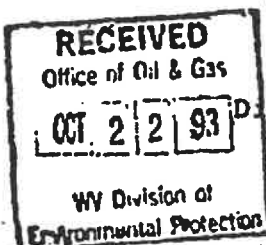
Theodore M. Streit
Chief
OFFICE OF OIL AND GAS

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IR-36-P
09-SEP-93

API # 47-107-01523-P



State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

INSPECTOR'S PERMIT SUMMARY FORM

Farm name: NATURE CONSERVANCY

Operator Well No.: MUSKINGUM IS.#2

LOCATION: Elevation: 604.00 Quadrangle: PARKERSBURG
District: WILLIAMS County: WOOD
Latitude: 2000 Feet South of 39 Deg. 22 Min. 30 Sec.
Longitude 850 Feet West of 81 Deg. 30 Min. Sec.

EXISTING WELL INFORMATION:

Company: NATURE CONSERVANCY OF WVA.
723 KANAWHA BLVD, SUITE 500
CHARLESTON, WV

Agent: WILLIAM A. SHREVE

Inspector: GLEN ROBINSON
Permit Issued: 09/09/93
Plugging Commenced: 7/21/93
Plugging Completed: 7/27/93
Verbal Plugging
Permission granted on:
Rotary Cable Spin Rig
Total Depth (feet) 1000'
Fresh water depths (ft) _____

Salt water depths (ft) _____

Is coal being mined in area (Y/N) Y
Coal Depths (ft): 4/11

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.

PLUGGING WORK

TYPE	FROM	TO	PIPE REMOVED
Cement	997'	882'	997' of 2 1/2" Bxells
Cement	365'	265'	365' of 6 3/8" Bxells
Cement	150'	Surface	
Essential material	4/11/93	Attached	

AFFIDAVIT RECEIVED

DATE RELEASED

RECLAMATION SCORE

9/27/93

INSPECTOR'S SIGNATURE

-----RECORD ALL VISITS TO THIS WELL ON BACK-----

07/10/2026

7/21/93 moved on hole; dug pit

7/22/93 - pulled 1000' of pipe

- Shot tubing @ 992' w/o shot; Cement Plug

9/23/93 → pulled 992' of tubing after 992' - 892'

7/26/93 Free pointed 6 5/8" csg @ 375; Shot @ 365' w/10 shot

Ran 100' Cement Plug from 365' - 265'

pulled 365' of 6 5/8" csg

- Drive shaft broke on Cement. Repair Drive shaft

Ran Cement Plug from 150' to Surface.

Attempted to pull 10" csg; pulled 120,000#
but would not bme!

7/27/93 Ejected moorman w/ API # 100-100

Rigged down; moving to 47-102-1522

9/27/93 Released

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STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
SECTION OF OIL AND GAS

WELL WORK PERMIT

This permit, issued to NATURE CONSERVANCY OF WVA, is evidence of permission granted to perform the specified well work at the location described on the attached plat, subject to the provisions of Chapters 22 and 22B of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached here to. Notification shall be given to the Oil and Gas Inspector GLEN ROBINSON at 304-863-8766 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 setting plugs or pulling casing. Spills or emergency discharges must be reported to 1-800-654-3312.

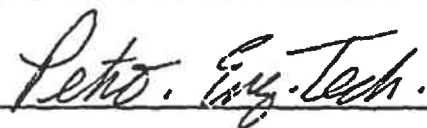
Upon completion of the plugging well work the above named operator will reclaim the site according to the provisions of WV Code 22B-1-30. The above named operator will also file as required in WV Code 22B-1-23 an affidavit on form WR-38 by two experienced persons and the Oil and Gas inspector.

Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspension or revocation of this permit and in addition may result in civil and/or criminal penalties.

Well work to be conducted under this permit shall be commenced within two (2) years from date of issue.

Theodore M. Streit
Chief

By: 

Title: 

Operator's Well No: MUSKINGUM IS.#2

Farm Name: NATURE CONSERVANCY

API Well Number : 47-107-01523 P

Date Issued : 09/09/93

Expires two (2) years from issue date.

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JUL 13 1993

Permitting
Office of Oil & Gas



STATE OF WEST VIRGINIA

DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS

APPLICATION FOR A PERMIT TO PLUG & ABANDON

1) Date: July 4, 1993
2) Operator's Well No. Muskingum Island #2
3) API Well No. 47 State 107 County 1523-P Permit

4) WELL TYPE: A Oil X / Gas _____ / Liquid injection _____ / Waste disposal _____
B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow _____)
5) LOCATION: Elevation: 604 Watershed: Chickadee District: William County: Wood Quadrangle: 10
6) WELL OPERATOR The Nature Conservancy of WVa 7) DESIGNATED AGENT SALE
Address: 723 Kanawha Blvd. Suite 500 Address: MARK SCOTT
Charleston, WV 25537
8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name: Glen Robinson
Address: P.O. Box 1
Belleville, WV 26133
9) PLUGGING CONTRACTOR
Name: Shreve's Well Service, Inc.
Address: Route 3 Box 164
Spencer, WV 25276

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

1. 4% Gel from TD to surface
2. Cement from 600' to 500'
3. Cement from 400' to 300'
(across 6 5/8" pipe cut)
4. Cement from 150' to surface
5. Set Monument with API#

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OFFICE USE ONLY

PLUGGING PERMIT

mit number 47-107-1523-P

August 2nd. 19 93
Date

This permit covering the well operator and well location shown below is evidence of permission granted to plug in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, subject to any modifications and conditions on the reverse hereof.

Permit expires 8-2-95 unless plugging is commenced prior to that date and prosecuted with due diligence.

Bond: <u>[Signature]</u>	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	WPCP: <u>[Signature]</u>	OTHER: <u>[Signature]</u>
--------------------------	---------------------------	--------------------------	----------------------------	--------------------------	---------------------------

7/4/93 Janice Stevens

NOTE: Keep one copy of this permit posted at the plugging location.

Chief, Office of Oil & Gas

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

07/10/2026

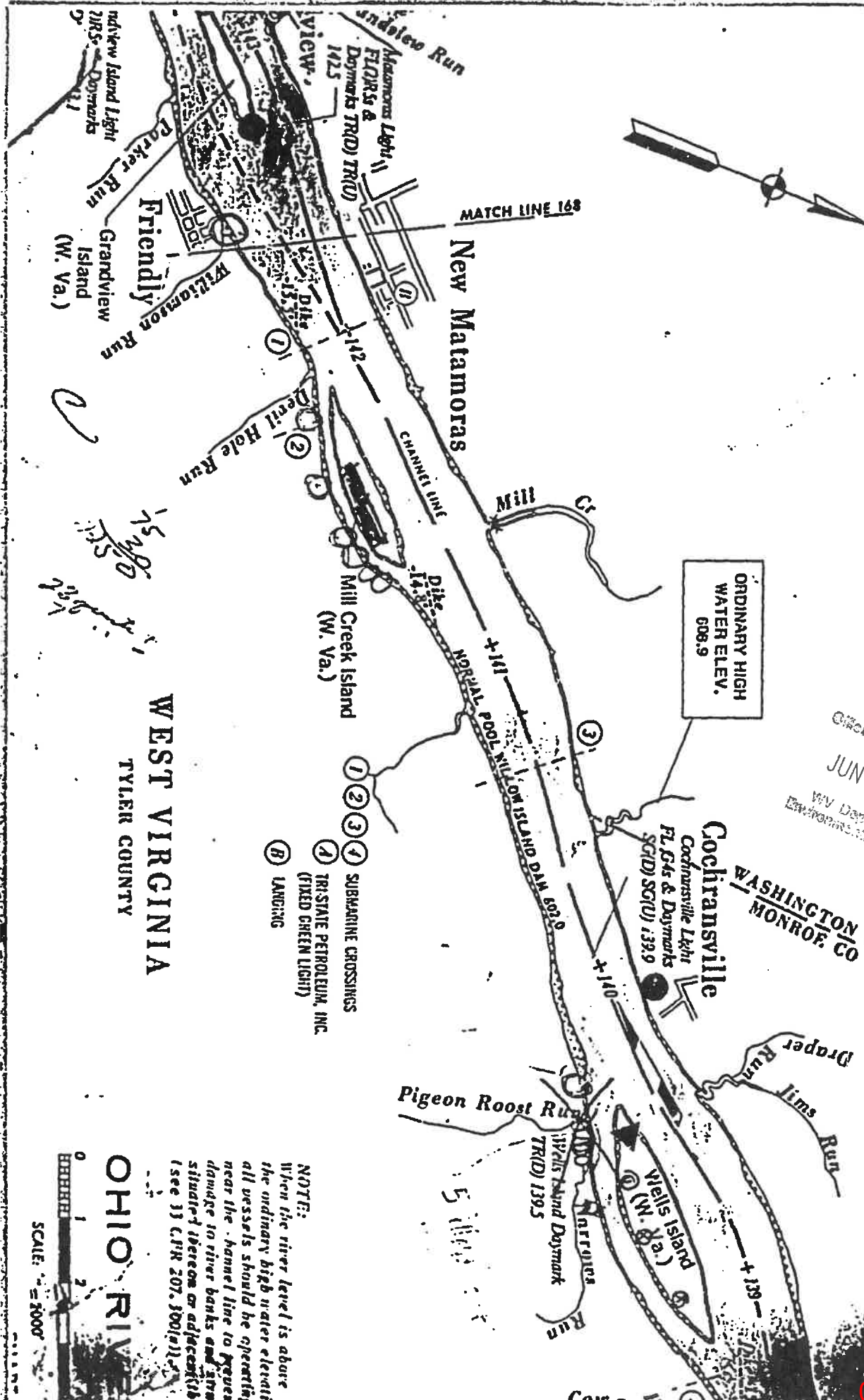
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OHIO

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WASHINGTON CO
MONROE CO

ORDINARY HIGH
WATER ELEV.
608.9



WEST VIRGINIA

TYLER COUNTY

NOTE:
When the river level is above
the ordinary high water elevation
all vessels should be operating
near the channel line to prevent
damage to river banks and structures
situated thereon or adjacent thereto.
(see 33 CFR 207.300(a))

OHIO RIVER

SCALE: 1" = 1000'

07/10/2026

LONGITUDE 81° 30' 00"

7/29/93

Latitude 39° 22' 30" N
Longitude 81° 30' 00" W

7.5' TOPO

Point At Head Of Island

Muskingum Island Light (M.P. 175.5)

Power House

Well No. 1

Well No. 2

Ohio River

Muskingum Island

Washington County

Wood County

Boaz

W. Va.

Ohio

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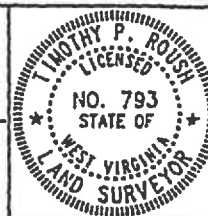
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FILE NO. 103-50
MAP NO. N30 N S 5 E W 47
SCALE 1"=1000'
MINIMUM DEGREE OF
ACCURACY 1 in 200
PROVEN SOURCE OF
ELEVATION Spot Elevation
on Island = 607'

(SIGNED) Timothy P. Roush
TIMOTHY P. ROUSH PS 793



DATE July 22, 1993
FARM Nature Conservancy NO. 2
API WELL NO.
47-107-1523-P



SURFACE OWNER The Nature Conservancy ACREAGE 27.85 Ac.
OIL & GAS ROYALTY OWNER The Nature Conservancy LEASE ACREAGE 27.85 Ac.
LEASE NO. _____

PLUG AND ABANDON X CLEAN OUT AND REPLUG _____

TARGET FORMATION Cow Run ESTIMATED DEPTH 600' +/-
WELL OPERATOR The Nature Conservancy DESIGNATED AGENT Mark Scott
ADDRESS P.O. Box 3754 ADDRESS P.O. Box 3754
Charleston, W.Va. 25337 Charleston, W.Va. 25337

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TIMOTHY P. ROUSH

P.O. Box 144
Belpre, Ohio 45714
(614) 678-8078

4730701812

August 11, 1993

WV D.O.E.P.
Division of Oil & Gas
10 McJunkin Road
Nitro, WV 25143-2506

Attn: Mr. Jamie Stevens

RE: Nature Conservancy Wells For P&A on Muskingum Island
Williams District, Wood County

Dear Jamie;

Enclosed is a Plat of Survey for Muskingum Island Well No.3, the third well plugged on Muskingum Island by Shreve Well Service last week.

Also enclosed is a corrected Plat for Muskingum Island Well No.1. The original Plat dated 7/22/93 incorrectly showed Muskingum Island No.4 to be Muskingum Island No.1. Well No.1 was P&A'd the week of 8/1/93 and this Plat shows its correct location as well as that of Well No.4 .

I apologize for any confusion this may have caused. If you have any further questions concerning this matter, please call me at 420-1220.

Sincerely,



Timothy P. Roush

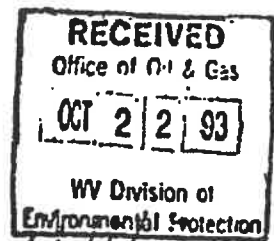
TPR/ttt
Enclosures

xc: Glen Robinson
Ray Bailey

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State of West Virginia
Division of Environmental Protection
Office of Oil and Gas



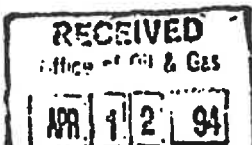
Well Plugging Inspection Report Form

API NUMBER 42-107-1523 WELL OPERATOR TNC
FARM NAME TNC WELL NUMBER #2
QUAD Lockwood DISTRICT William COUNTY Wood
22B-1-7, 22B-1-23, 22B-1-24, 22B-1-28, 22B-1-31, 38CSR-8-13, 38CSR18-14

1. Was the cement and gel mixed and used in accordance with accepted industry standards? Yes No ☒ ()
 2. Did the operator make changes in the permit after it was issued and were the changes approved by the inspector? ☒ () NA
 3. Was a proper bottom cement hole plug set which completely seals the hole and set twenty feet above the producing zone? ☒ ()
 4. Were 100 ft. cement plugs set everywhere except across the coal seams? 38CSR18-13.2.4 ☒ ()
 5. Was the pipe cut at or close to the cement top, or the annular fill up and pipe pulled? 38CSR18-13.2.4. ☒ ()
 6. Was the equipment used for pulling the pipe properly sized and rigged to pull 150% of the heaviest string of pipe expected to be pulled? ☒ ()
 7. Was the pipe cut at or close to the packer, shoe, or fill up above the packer and pulled? ☒ ()
 8. Did the operator call the inspector 24 hrs before the plugging rig moved on the location and again before plugging operations began? ☒ ()
 9. Was latex cement used for H2S gas plugs? ☒ () N/A
 10. Were the proper cement plugs set through minable coal seams? ☒ () N/A
 11. Were the cement plugs set to separate saltwater, gas or oil, and saltwater, gas or oil from migrating to the fresh water bearing strata? ☒ ()
 12. If the fresh water casing is not cemented to surface and the casing could not be pulled, was an attempt made to squeeze cement in the vicinity of the fresh water zone? 22B-1-35 ☒ () NA
 13. Was the proper amount of gel (according to calculations) used to gel well and displace plugs? ☒ ()
 14. Were accurate records of plugging and pipe recovery kept by operator and was an affidavit filed? ☒ ()
 15. Was a monument erected over the well with an API No. attached? The monument shall consist of 6 inch pipe minimum pipe extending on less than thirty inches above the surface and not less than 10 feet into the well 38CSR-18-5.5.2 ☒ ()
 16. Was the road and location reclaimed, seeded and mulched? ☒ ()
 17. Was proper drainage placed in the road? ☒ ()
 18. Were all fences replaced, and all gates repaired? 22B-1-30, 38CSR-18-16 ☒ () NA
 19. Was all of the equipment removed from location? 22B-1-31, 38CSR-18-17 ☒ ()
 20. If the pipeline was buried and contained produce fluids, was the line flushed to prevent future leaks and spills? ☒ () NA
 21. Was well free from leaks after plugging? ☒ ()
- Date 9/27/93 Inspector Robert R. Rouse

Office of Oil & Gas
JUN 25 2026
WV Department of
Environmental Protection

07/10/2026



STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
SECTION OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: NATURE CONSERVANCY

Operator Well No.: MUSKINGUM IS.#2

LOCATION: Elevation: 604.00 Quadrangle: PARKERSBURG
District: WILLIAMS County: WOOD
Latitude: 2000 Feet South of 39 Deg. 22 Min. 30 Sec.
Longitude 850 Feet West of 81 Deg. 30 Min. Sec.

Well Type: OIL X GAS

Company: The Nature Conservancy of WV
723 Kanawha Blvd Suite 502
Charleston, WV 25537

Coal Operator NO Coal
or Owner

Agent: Mark Scott

Coal Operator NO Coal
or Owner

Permit Issued: 09/09/93

STATE OF WEST VIRGINIA,
County of

AFFIDAVIT

ss:

JUN 25 2026

WV Department of
Environmental Protection

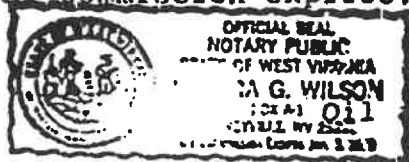
Bill Shreve and Kevin Shreve being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Glen Robinson Oil and Gas Inspector representing the Director, say that said work was commenced on the 21 day of July, 1993, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	992'	892'	992' 3" Tubing	
"	365'	265'	365' 6 5/8" Casing	
"	150'	Surface		
Gel Plugs (6%) between all cement plugs				

Description of monument: 6 5/8" Casing 10' in well + 3' above ground
and that the work of plugging and filling said well was completed on the 27 day of July, 1993.

And further deponents saith not.

Sworn and subscribe before me this 27th day of January, 1994
My commission expires: January 3, 2000



Oil and Gas Inspector: Glen Robinson

Kevin Shreve
Glen Robinson
Notary Public

07/10/2026

WOOD 1523-P

**BLANKET CONSENT TO EASEMENT
FOR USE WITH REGULATORY PERMITS**

Consent is hereby granted to the permittee to construct, use, maintain, control, operate and repair the said structure(s) across, over and under lands for which the United States government may own. The location for the purpose of this consent is specifically shown in the plans and drawings attached hereto. It is understood that this consent is effective insofar as the easement rights of the United States in the land to be occupied are concerned and that it does not relieve the permittee from the necessity of obtaining grants from the owner(s) of the other interests therein; nor from obtaining any other permission required by Federal, State, or local laws, regulations or ordinances, including but not limited to any Federal permits that may be required by Section 10 of the River and Harbors Act of 1899 or Section 404 of the Clean Water Act.

1-2-26

Date


STEPHANIE A. SELGRATH
Acting Chief, Real Estate Huntington District
Real Estate Contracting Officer

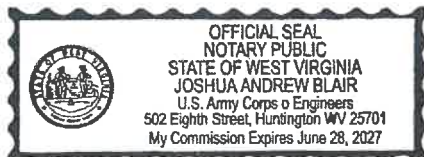
ACKNOWLEDGMENT

STATE OF WEST VIRGINIA)

: ss

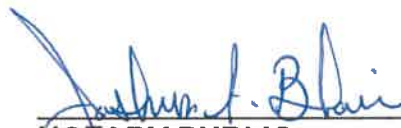
COUNTY OF CABELL)

On this 2nd day of January, 2026, before me the undersigned officer, personally appeared **STEPHANIE A. SELGRATH**, Real Estate Contracting Officer, Acting Chief, Real Estate Division, U. S. Army Engineer District, Huntington, West Virginia, known to be the person described in the foregoing instrument, and acknowledged that he executed the same in the capacity therein stated and for the purpose therein contained.



My Commission Expires

June 28th 2027


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Office of Oil and Gas
JUN 25 2026
WV Department of
Environmental Protection

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DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
502 8TH STREET
HUNTINGTON, WV 25701-2018

4730701812

March 27, 2026

Regulatory Division
Energy Resource Branch
LRH-2024-00191-OHR-Ohio River Mile Point 175

NATIONWIDE PERMIT NO. 3 VERIFICATION

Mr. Victor Elam
Ohio River Islands National Wildlife Refuge
United States Fish and Wildlife Service (USFWS)
3982 Waverly Road
Williamstown, West Virginia 26187

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Office of Oil and Gas
JUN 25 2026
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Dear Mr. Elam:

I refer to the pre-construction notification (PCN) requesting a Department of the Army (DA) authorization for the discharge of dredged and/or fill material into waters of the United States (U.S.) in association with the construction of the Muskingum Island Well Plugging Project. The project is located off the shore of Muskingum Island, in Wood County, West Virginia. The proposed activity is located at approximately 39.3647991° N, 81.5124644° W. Your PCN has been assigned the following file number: LRH-2024-00191-OHR-Ohio River Mile Point 175. Please reference this number on all future correspondence related to this project.

The U.S. Army Corps of Engineers' (Corps) authority to regulate waters of the U.S. is based on the definitions and limits of jurisdiction contained in 33 CFR Part 328 and 33 CFR Part 329. Section 404 of the Clean Water Act (Section 404) requires a DA permit be obtained prior to discharging dredged and/or fill material into waters of the U.S., including wetlands. Section 10 of the Rivers and Harbors Act of 1899 (Section 10) requires a DA permit be obtained for any work in, on, over, or under a navigable water. The Ohio River is a traditional navigable waterway subject to regulation under both Section 404 and Section 10.

The proposed project, as described in the submitted information, has been reviewed in accordance with Section 404 and Section 10. Based on your description of the proposed work, and other information available to us, it has been determined that this project will involve activities subject to the requirements of Section 10 and Section 404.

In the submitted PCN materials, you have requested a DA authorization for the permanent and temporary discharges of dredged and/or fill material in association with construction of the Muskingum Island Well Plugging Project. The proposed project would include permanently sealing five (5) orphaned wells adjacent to Muskingum Island in the Ohio River. The proposed action comprises of four (4) primary components: mussel salvage and relocation; gaining access

to wells by dredging space for a work barge; well plugging/sealing; and monitoring mussel status in the proposed relocation area.

Based on the information provided, well access is a requisite in advance of initiating plugging efforts; therefore, the riverbed would be dredged to remove sediment near each well location to afford work barge access. Prior to dredging and regardless of method, sediment curtains would be installed around the overall dredge site to reduce the amount of sediment entering the river. During dredging activities, materials would be removed to the extent required for barge access to the site. Dredged material would be removed and loaded into a hopper barge for lime treatment, temporary storage, and transport to an approved, existing upland landfill. The hopper barge would be anchored to the work barge or moored with spuds adjacent to each well. Based on the information provided, dredging and well site set-up is anticipated to take up to three (3) days per well and up to 15 days in total. The well casings would be cleaned using pressurized water to blow material out of the well and to accommodate insertion of the hose for the installation of liquid concrete, poured in the dry, into each well. Any recovered water and debris would be held in tanks and disposed of as produced water. A minimum of four (4) plugs would be installed at each of the five (5) wells. Following well sealing, the cellar and oil boom would be removed, a monument would be placed to mark the site, and all equipment is removed. Based on the information provided, the well plugging activities would require up to 12 days per well, 60 days in total. As indicated, the purpose of the proposed project is maintenance on existing structures, specifically, sealing five (5) orphaned wells at the subject location.

Based on the provided information, it has been determined the proposed work along the Ohio River, as described above, associated with the Muskingum Island Well Plugging Project meets the criteria for Nationwide Permit (NWP) No. 3 under the January 8, 2026, Federal Register (FR), Reissuance and Modification of NWPs (91 FR 768), provided you comply with all terms and conditions of the enclosed material, the enclosed special conditions, and the general Section 401 Water Quality Certification (401 WQC) issued by the West Virginia Department of Environmental Protection. A copy of this NWP can be found on our website at the following link: [https://publibrary.sec.usace.army.mil/api/download?id=dc7fab19-9d83-485b-c222-6844eac25f96&filename=FINAL%20WV%20District PN RCWQC 2026%20NWPs MAR%202026%20with%20attachments.pdf&token=&preview=true](https://publibrary.sec.usace.army.mil/api/download?id=dc7fab19-9d83-485b-c222-6844eac25f96&filename=FINAL%20WV%20District%20PN%20RCWQC%202026%20NWPs%20MAR%202026%20with%20attachments.pdf&token=&preview=true).

Please be aware this NWP No. 3 verification does not obviate the requirement to obtain other local, state, and/or federal authorizations required by law for these activities. This verification is valid until the expiration date of the NWPs, unless the NWP authorization is modified, suspended, or revoked. The verification will remain valid if the NWP authorization is reissued without modification or the activity complies with any subsequent modification of the NWP authorization. All of the existing NWPs are scheduled to be modified, reissued, or revoked on March 15, 2031. Prior to this date, it is not necessary to contact this office for re-verification of your project unless the plans for the proposed activity are modified. Furthermore, if you commence or under contract to commence this activity before March 15, 2031, you will have 12 months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this NWP.

Authorization of work or structures by this permit does not convey a property right, nor authorize any injury or invasion of other rights [33 CFR 320.4(g)]. Within the Huntington District's regulatory boundaries in the State of West Virginia we understand this project may

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include work on a property on which the government may own or retain an easement. The attached Blanket Consent to Easement, dated January 2, 2026, has been granted by the Corps' Real Estate Division to perform work upon properties which are owned or where the Government retains an easement. If you have any questions regarding this Blanket Consent to Easement, you should contact Ms. Katie Conn with the Corps' Real Estate Division by telephone at (304)-207-3359, or by email at Katie.D.Conn@usace.army.mil.

For activities requiring the use of marine-based equipment, after the date for the commencement of work is determined; you must notify the USACE Huntington District Waterways Section using the attached Notice to Navigation Interests Information Form. This information must be provided at least 14 days, but no more than 20 days, prior to the start of work. You may contact the Huntington District Waterways Section at 304-399-5694.

Please be aware this NWP authorization does not obviate the requirement to obtain other federal, state or local authorizations required by law. Enclosed is a copy of this NWP and the Section 401 WQC to be kept at the project site during construction. You shall supply a copy of these documents to your project engineer responsible for construction activities.

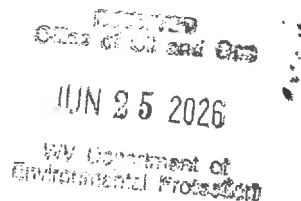
Upon completion of the work, the enclosed certification must be signed and returned to this office. If you have any questions concerning the above, please contact Rachel McCarty of the Energy Resource Branch at 304-807-0826, by mail at the above address, or by email at: rachel.a.mccarty@usace.army.mil.

Sincerely,



Lauren Pritt
Regulatory Project Manager
South Transportation Branch

Enclosures



07/10/2026

**Nationwide Permit No. 3 Verification Special Conditions for the
Ohio River Islands National Wildlife Refuge – Muskingum Island Well Plugging Project
LRH-2024-00191-OHR-Ohio River Mile Point 175**

1 of 3

1. All work will be conducted in accordance with the submitted pre-construction notification for the Muskingum Island Well Plugging Project received in this office on August 7, 2025.
2. Enclosed is a copy of Nationwide Permit 3, which will be kept at the site during construction. A copy of the Nationwide Permit 3 verification, special conditions, and the attached construction plans must be kept at the site during construction. The permittee will supply a copy of these documents to their project engineer responsible for construction activities.
3. Upon completion of the activity authorized by these Nationwide Permit 3 verification, the enclosed certification must be signed and returned to this office along with as-built drawings showing the location and configuration, as well as all pertinent dimensions and elevations of the activity, including the photographs of the restored temporarily affected aquatic resources, authorized under this Nationwide Permit 3 verification.
4. The permittee must notify the United States Army Corps of Engineers (Corps)-Huntington District Waterways Section prior to construction of the Muskingum Island Well Plugging Project. A copy of a Notice to Navigation Information Form for providing the information with contact information is included in the permit package. This form must be completed and returned to the Corps-Huntington District Waterways Section at least 14 days, but no more than 20 days, prior to the start of work. The Corps-Huntington District Waterways Section may be contacted at (304) 399-5694.
5. Prior to the initiation of any work authorized by the Nationwide Permit 3 verification, appropriate site-specific best management practices (BMPs) for sediment and erosion control will be fully implemented during construction activities at the site. Appropriate bank protection measures will be installed in channel or on barren areas requiring erosion control including, but are not limited to, native grasses and forbs, vegetation, and other acceptable clean non-contaminated material. Immediately after completion of the final grading of the land surface, all slopes, land surfaces, and filled areas shall be appropriately stabilized to prevent erosion. The erosion control measures shall remain in place and be maintained until all authorized work is completed and the work areas are stabilized. Construction activities will be performed during low flow conditions to the greatest extent practicable.
6. No area for which grading has been completed will be unseeded or unmulched for longer than fourteen (14) days. All disturbed areas will be seeded and/or revegetated with native species and approved seed mixes (where practicable) after completion of construction activities for stabilization and to help preclude the establishment of non-native invasive species.

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**Nationwide Permit No. 3 Verification Special Conditions for the
Ohio River Islands National Wildlife Refuge – Muskingum Island Well Plugging Project
LRH-2024-00191-OHR-Ohio River Mile Point 175
2 of 3**

7. All water resources and their buffers, which are to be avoided on-site, must be clearly indicated on the site plans and drawings, demarcated in the field, and protected with suitable material prior to site disturbance. These materials must remain in place and be maintained throughout the construction process.
8. In the event any previously unknown historic or archaeological sites or human remains are uncovered while accomplishing the activity authorized by this nationwide permit authorization, the permittee must cease all work in waters of the U.S. immediately and contact local, state and county law enforcement offices (only contact law enforcement on findings of human remains), the Corps at 304-399-5610 and West Virginia State Historic Preservation Office at 304-558-0220. The Corps will initiate the Federal, state and tribal coordination required to comply with the National Historic Preservation Act and applicable state and local laws and regulations. Federally recognized tribes are afforded a government-to-government status as sovereign nations and consultation is required under Executive Order 13175 and 36 CFR Part 800.
9. This Department of the Army Permit authorization does not authorize the “take” of a threatened or endangered species as defined under the Endangered Species Act (ESA). In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion (BO) with “incidental take” provisions, etc.) from the United States Fish and Wildlife Service (USFWS), both lethal and non-lethal “take” of protected species are in violation of the ESA. The enclosed Biological Opinion, titled *Ohio River Islands Well Plugging, Wood County, West Virginia* (Service File Number 2025-0018623), dated June 20, 2025, contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with the “incidental take” that is also specified in the BO. Your authorization under this permit is conditional upon your compliance with all of the mandatory terms and conditions associated with incidental take of the attached BO, which terms and conditions are incorporated by reference in this permit. Failure to comply with the terms and conditions associated with incidental take of the BO, where a take of the listed species occurs, would constitute an unauthorized take, and it would also constitute noncompliance with your Corps’ permit. The USFWS is the appropriate authority to determine compliance with the terms and conditions of its Biological Opinion, and with the ESA.
10. Reinitiation of formal consultation is required where discretionary Federal agency involvement or control over the action has been retained (or is authorized by law) and if (1) the amount or extent of incidental take is exceeded; (2) new information reveals effects of the agency action that may affect listed species or critical habitat in a manner or to an extent not considered in this opinion; (3) the action is subsequently modified in a manner that causes an effect to the listed species or critical habitat not considered in the attached Biological Opinion or, (4) a new species is listed or critical habitat is designated that may be affected by the action. In instances where the amount or extent of incidental take is exceeded, any operations causing such a take must cease pending reinitiation.

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**Nationwide Permit No. 3 Verification Special Conditions for the
Ohio River Islands National Wildlife Refuge – Muskingum Island Well Plugging
Project
LRH-2024-00191-OHR-Ohio River Mile Point 175
3 of 3**

11. Section 7 obligations under the ESA must be reconsidered if new information reveals impacts of the project that may affect Federally-listed species or critical habitat in a manner not previously considered, the proposed project is subsequently modified to include activities which were not considered during Section 7 consultation with the USFWS, or new species are listed or critical habitat designated that might be affected by the subject project.
12. Should new information regarding the scope and/or impacts of the project become available that was not submitted to this office during our review of the proposal, the permittee will submit written information concerning proposed modification(s) to this office for review and evaluation, as soon as practicable.

Office of Oil and Gas
JUN 25 2026
WV Department of
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07/10/2026

4710701812

From: Elam, Victor victor_elam@fws.gov
Subject: Well plugging at Muskingum Island
Date: March 23, 2026 at 8:59 AM
To: Brian Jarvis brian.jarvis@hydrocarbonwell.com

VE

Brian,

I have been informed of a clause in the USACE Nationwide permit process whereas if the USACE does not reply within 45 days (with certain parameters met) we can proceed with the project.

Based on that, you can plan on beginning work on the riverine well sites at your earliest convenience - I'm sure the weather and corresponding river levels will have something to say about that this time of year.

Regards,

Victor Elam
Refuge Manager
Ohio River Islands National Wildlife Refuge
3982 Waverly Road
Williamstown, WV 26187
victor_elam@fws.gov
304-375-2923 X125
Cell: (620) 203-8514

I work and live in the traditional homelands of the Shawnee, Potawatomi, Delaware, Peoria, Seneca, Wyandotte, Ojibwe, Cherokee, and Miami peoples.

"When the Earth, its products, its creatures become his concern, man is caught up in a cause greater than his own life and more meaningful. Only when man loses himself in an endeavor of that magnitude does he walk and live with humility and reverence." -William O. Douglas-

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WW-4A
Revised 6-07

1) Date: 6/16/2026
2) Operator's Well Number
Unknown

3) API Well No.: 47 - 107 - 80651

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>BLM/US Fish and Wildlife Service</u>	Name <u>NONE</u>
Address <u>3982 Waverly Road</u>	Address _____
<u>Williamstown, WV 26187</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Sherman King</u>	(c) Coal Lessee with Declaration
Address <u>Sherman.b.king@wv.gov</u>	Name _____
_____	Address _____
Telephone <u>(681) 344-2411</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 BLM/US Fish and Wildlife Service

By: Victor Elam

Its: Manager

Address 3789 Waverly Rd.
Williamstown, WV 26187

Telephone 304-375-2923

Subscribed and sworn before me this June 2026 day of June 2026
Christina L. Hyde Notary Public

My Commission Expires _____ Notary Public, State of Ohio

Oil and Gas Privacy Notice

My Commission Expires
May 19, 2030

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.

07/10/2026

SURFACE OWNER WAIVEROperator's Well
Number

4710780651

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.

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,

Signature
 Office of Oil and Gas

Date

Name
 By
 Its

U.S. Fish and Wildlife Service
 Victor Elam
 Refuge Manager

Date 6/18/26

Signature Victor A. Elam Date 6/18/26

07/10/2026

JUN 25 2026
 WV Department of
 Environmental Protection

API Number 47 107 80651
Operator's Well No. Unknown

07/10/2026

4710701812

Form WW-9

Operator's Well No. 47-107-80651

Proposed Revegetation Treatment: Acres Disturbed Less than 1 Prevegetation pH unknown

Lime N/A Tons/acre or to correct to pH _____

Fertilizer type N/A

Fertilizer amount N/A lbs/acre

Mulch N/A Tons/acre

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Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

Ernest Seeds

Ernest Seeds

Mesic to Dry Native Pollinator Mix

Mesic to Dry Native Pollinator Mix

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: _____

Comments: The Fish and Wildlife Services will complete the reclamation according to their standards.

Lime and Fertilizer is not necessary and FSW will use mulch already there from clearing trails.

Native trees will planted at 12' intervals with various maple, oak and river birch species

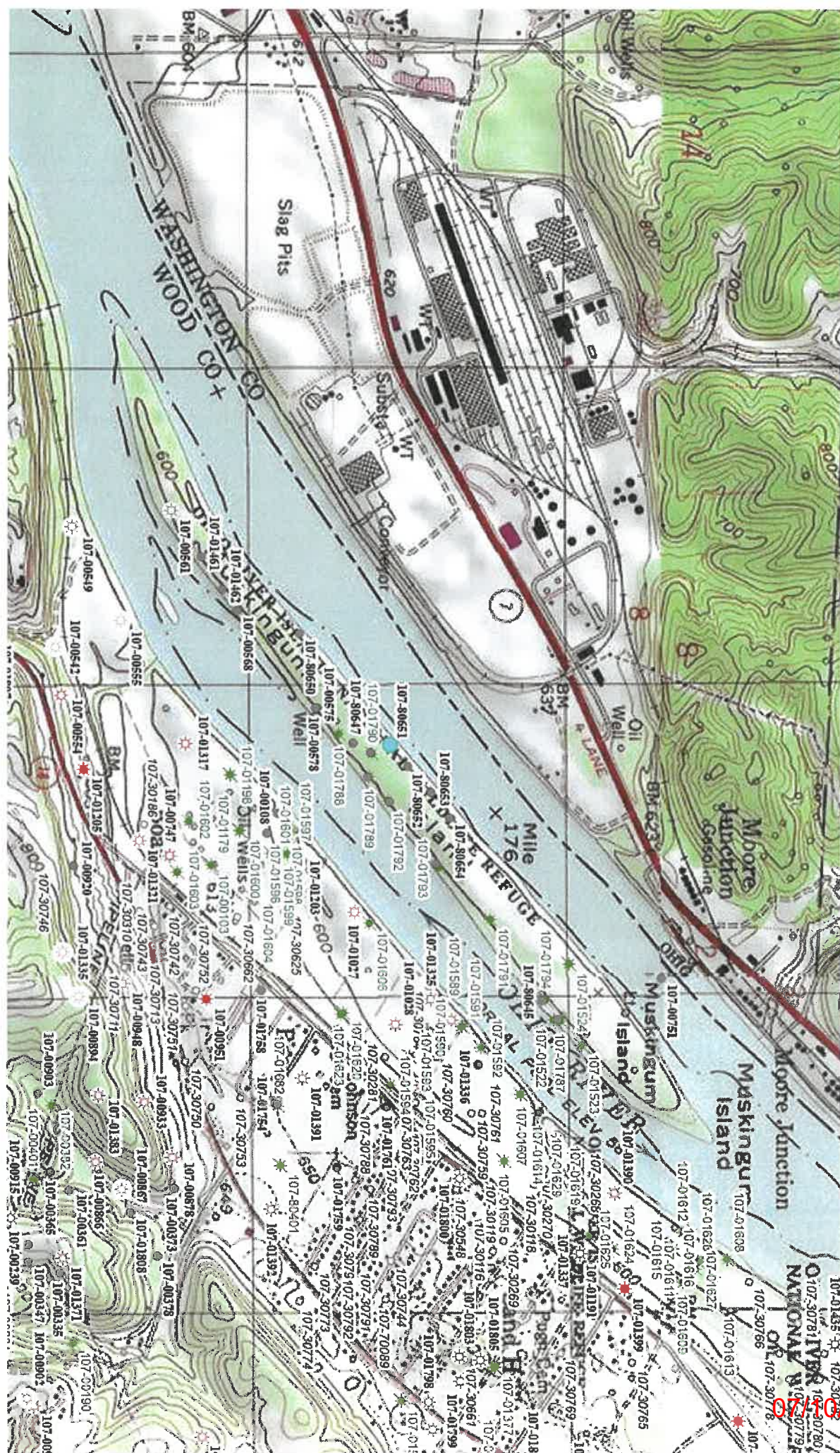
Title: Sherman King Date: 6/23/2026

Field Reviewed? () Yes () No

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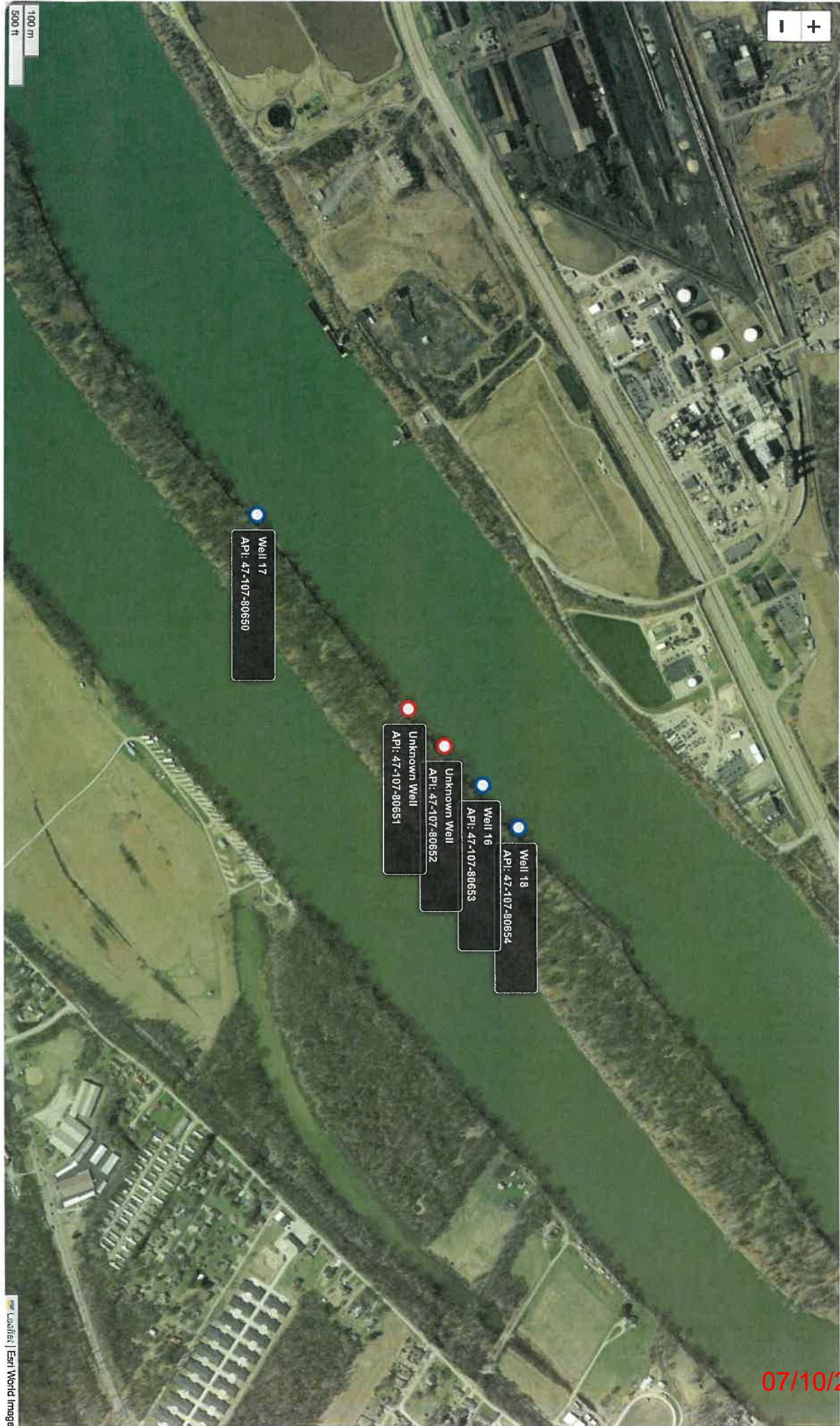


06/25/2026

4710701812

REC'D
Office of Oil and Gas
JUN 25 2026
WV Department of
Environmental Protection

07/10/2026



WW-7
8-30-06



4710701812
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JUN 25 2026
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West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-107-80651 WELL NO.: Unknown
FARM NAME: BLM/US Fish and Wildlife Service
RESPONSIBLE PARTY NAME: Hydrocarbon Well Services, Inc.
COUNTY: Wood DISTRICT: Williams
QUADRANGLE: Valley Mills
SURFACE OWNER: BLM/US Fish and Wildlife Service
ROYALTY OWNER: BLM/US Fish and Wildlife Service
UTM GPS NORTHING: 4357659.09
UTM GPS EASTING: 456211.43 GPS ELEVATION: 607'

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.


Signature

President

Title

6/16/2025

Date

07/10/2026



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

plugging permits issued 4710701810, 4710701811, 4710701812, and 4710701813.

1 message

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

Mon, Jul 6, 2026 at 10:56 AM

To: Sherman B King <sherman.b.king@wv.gov>, Brian Jarvis <brian.jarvis@hydrocarbonwell.com>, jkelly@woodcountywv.com

To whom it may concern plugging permits have been issued for 4710701810, 4710701811, 4710701812, and 4710701813.

--

James Kennedy

Environmental Resource Specialist III / Permitting

WVDEP Office of Oil and Gas

601 57th Street, SE

Charleston, WV 25304

304-926-0499 ext. 45025

james.p.kennedy@wv.gov

4 attachments **4710701810.pdf**
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