



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, September 19, 2022
WELL WORK PLUGGING PERMIT
Vertical Plugging

UNKNOWN - DEP PAID PLUGGING CONTRACT
601 57TH STREET

CHARLESTON, WV 25304

Re: Permit approval for HARPER # 1
47-107-01760-00-00

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: HARPER # 1
Farm Name: CRAIG HARPER
U.S. WELL NUMBER: 47-107-01760-00-00
Vertical Plugging
Date Issued:

Promoting a healthy environment.

09/23/2022

PERMIT CONDITIONS 47 1 0 7 0 1 7 6 0

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.

4710701760 p

1) Date 7/30, 20 22
2) Operator's Well No. HARPER # 1
3) API Well No. 47-107-01760

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 804' Watershed STILL WATER CREEK, LITTLE KANAWHA RIVER
District WALKER County WOOD - 107 Quadrangle KANAWHA

6) Well Operator UNKNOWN - WV DEP PAID PLUGGING CONTRACT 7) Designated Agent JASON HARMON
Address 601 57TH STREET S.E. Address 601 57TH STREET S.E.
CHARLESTON, WV 25304 CHARLESTON, WV 25304

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name ALLEN D FLOWERS Name UNKNOWN AT THIS TIME
Address 165 GRASSY LICK ROAD Address _____
LIBERTY, WV 25124

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

See plugging work order on next page.

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

Work order approved by inspector ALLEN D FLOWERS Date 7/30/2022

09/23/2022

HARPER # 1 PLUGGING PROJECT
API# 47 - 107 - 01760

V. REMEDIATION AND/OR PLUGGING WORK PLAN

Notify Inspector Specialist, Allen Flowers @ (304)552-8308. Email address is allen.d.flowers@wv.gov. Notification is required 24 hrs prior to commencing plugging operations

1. Stabilize sink hole around well, move in equipment and rig up to the well head. Attempt to pull casing string back to surface.
2. Back fill sink hole with stone/cement to stabilize well.
3. TIH check TD @ or below 2200 Ft, pull all 2 inch tubing and packer from the well. If estimated depth cannot be reached begin cleaning out hole to approved depth/TD by Inspector Specialist.
4. Once TD has been reached and approved by Inspector Specialist a bond log will be ran inside the 5-3/16 inch casing to determine casing depth and cement bonding location.
5. TIH to estimated TD @ 2200 Ft or inspector approved depth with tubing, spot 6% gel and pump bottom hole cement plug from 2200' to 2000' TOH. WOC, tag top of cement plug. Add cement if needed.
6. TIH with tubing and spot gel from 2000' to 1900'. Pump 100' cement plug from 1900' to 1800' to cover 5-3/16" casing shoe. WOC, tag top of plug and add cement if needed.
7. TIH free point 5-3/16" casing and attempt to pull. All casing that can not be retrieved and is not cemented/boned must be cut or perforated at all gas,oil,fresh water,salt water,coal and elevation.
8. TIH with tubing and spot gel from 1800' to 1400'. Pump 100' cement plug from 1400' to 1300'. WOC, tag top of plug and add cement if needed.
9. TIH with tubing and spot gel from 1300' to 1100'. Pump 100' cement plug from 1100' to 1000' to cover 6-1/2" casing shoe. WOC, tag top of plug and add cement if needed.

10. TIH free point the 6-1/2" casing and attempt to pull.
11. TIH with tubing spot gel from 1000' to 850'. Pump 100' cement plug from 850' to 750' to cover elevation. WOC, tag plug and add cement if needed.
12. TIH with tubing spot gel from 750' to 550'. Pump 100' cement plug from 550' to 450'. WOC, tag plug and add cement if needed.
13. TIH with tubing spot gel from 450' to 200'. Pump cement from 200' to surface.
14. Rig down and set monument. Reclaim site.
15. NOTE.. Any casing found in the well with out cement in the annulus that cannot be retrieved must be perforated and cement at all saltwater, freshwater, coal, oil, gas, casing shoe and elevation points.

Allen D Flowers 7/30/2022

47 1 0 7 0 1 7 6 0 P

WELL PLUGGING PROJECT

HARPER #1

API #47 - 107 - 01760

Well detail:

The well is undocumented, the Office of Oil and Gas has no records for this well API# 47-107-01760. The reference well used for down hole conditions is API# 47-107-00111. The well record shows 219' of 8-1/4 casing, 1067' of 6-5/8 casing, 1863' of 5-3/16 casing and 2213' of 2" tubing and packer. Cemented locations are unknown. Well TD is 2215'. There is a salt water show at 1660' and fresh water show at 120', no coal reported. Well site elevation is 804'. There is no production line connected to the well and no storage tank located at the site.

Site-based considerations:

The well is located in a hay field. A road will need to be constructed from the landowners driveway to the well site. The estimated length of the road is 0.4 tenths of a mile. The road shall be stoned and have proper drainage according to the DEP E&S manual. A sink hole has formed around the well head, Diameter of the sink hole is 12' and depth is 20'. The well head has sunk to the bottom of the sink hole. The well is leaking gas from the well head, no fluids. The production line has been removed from the well. There are no tanks located at the well site. A temporary fence will be installed around work site to isolate live stock. OOG will contact locate 811 to have all sub surface utilities marked.

09/23/2022

47107017609



47107017609

Jun 30, 2022, 9:20 AM

09/23/2022

4710701760P

WW-4A
Revised 6-07

1) Date: 7/30/2022

2) Operator's Well Number
HARPER # 1

3) API Well No.: 47 - 107 - 01760

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>CRAIG HARPER</u>	Name <u>N/A</u>
Address <u>356 PEA COCK LANE</u>	Address _____
<u>DAVISVILLE, WV 26142</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>ALLEN D FLOWERS</u>	(c) Coal Lessee with Declaration
Address <u>165 GRASSY LICK RD</u>	Name <u>N/A</u>
<u>LIBERTY, WV 25124</u>	Address _____
Telephone <u>(304) 552-8308</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 UNKNOWN - WV DEP PAID PLUGGING CONTRACT

By: Jason Harmon

Its: ARWP Manager

Address 601 57TH STREET S.E.

CHARLESTON, WV 25304

Telephone (304) 926-0499 EX 41102



Subscribed and sworn before me this 10th day of August, 2022

Susan W. Rose Notary Public

My Commission Expires 12-16-24

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.

09/23/2022

SURFACE OWNER WAIVER

47 1 0 7 0 1 7 6 0 P

Operator's Well
Number

4700701760

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,

Trig H. Harper
Signature

Date 8-11-2022

Name
By
Its

Unknown DEP Paid Plugging

Date

Bryan Akeri
Signature

8-11-22
09/23/2022

47 10701760P

WW-4B

API No.	<u>47 - 107 - 01760</u>
Farm Name	<u>CRAIG HARPER</u>
Well No.	<u>HARPER # 1</u>

**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 N/A/ owner N/A/ lessee N/A/ 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: 7/30/2022

No coal lease, operator

By: _____

Its _____

09/23/2022

WW-9
(5/16)

4710701760P

API Number 47 - 107 - 01760
Operator's Well No. HARPER # 1

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

Operator Name UNKNOWN - WV DEP PAID PLUGGING CONTRACT OP Code _____

Watershed (HUC 10) STILL WATER CREEK, LITTLE KANAWHA RIVER Quadrangle KANAWHA

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: _____

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number UNKNOWN AT THIS TIME)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: N/A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A

-If oil based, what type? Synthetic, petroleum, etc. N/A

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) N/A

-Landfill or offsite name/permit number? N/A

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 Jason Harmon
Company Official (Typed Name) JASON HARMON
Company Official Title DEPUTY CHIEF

Subscribed and sworn before me this 10th day of August, 2022

Susan W. Rose

Notary Public

My commission expires 12-16-24



Proposed Revegetation Treatment: Acres Disturbed 0.5 Prevegetation pH N/A

Lime 2-3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-10-20

Fertilizer amount 400 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
N/A	N/A	FESCUE	40
		LANDINO CLOVER	10
		CONTRACTOR MIX	10

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.

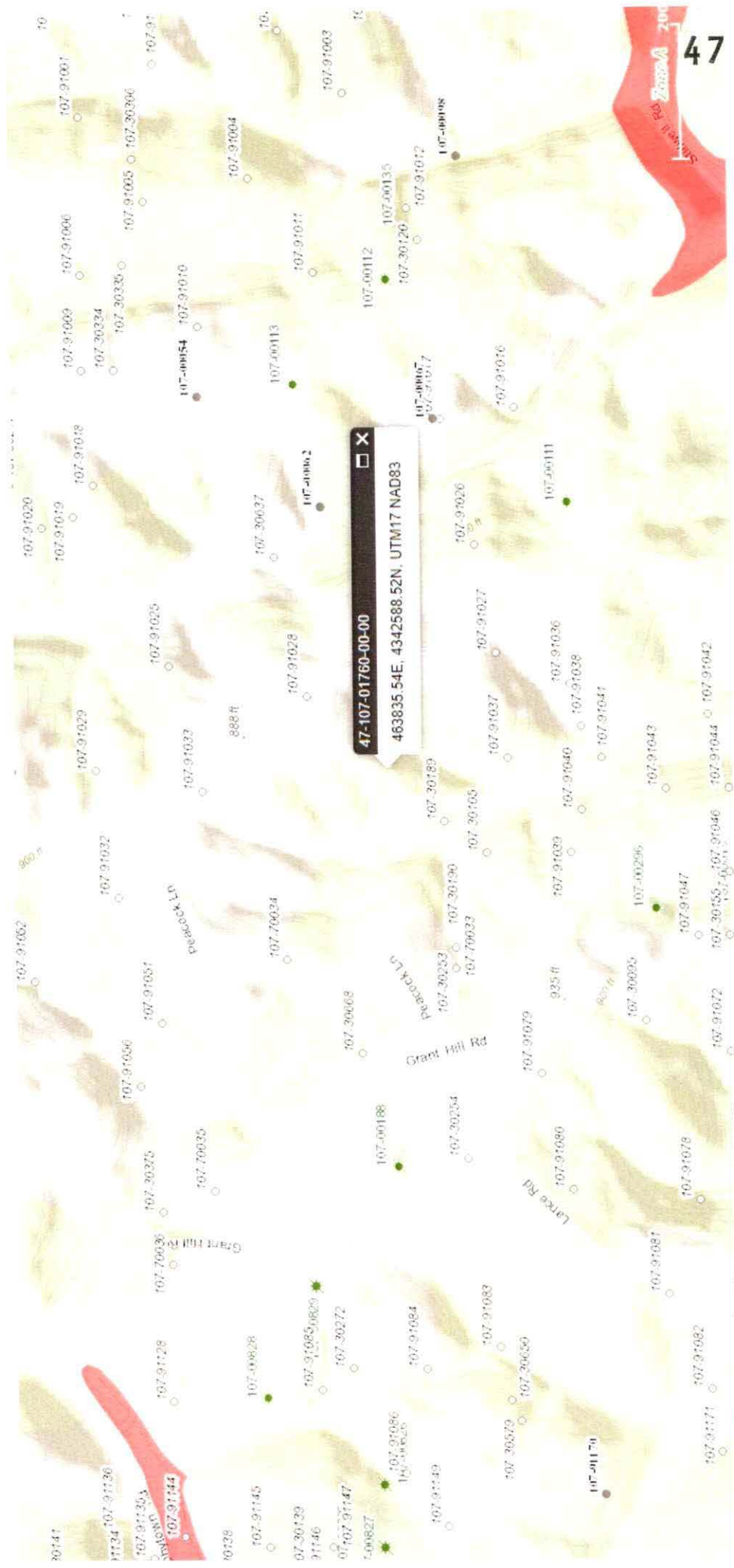
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: ALLEN D FLOWERS

Comments: N/A

Title: INSPECTOR Date: 7/30/2022

Field Reviewed? () Yes () No



Well # Harper 1
PLUGGING PROJECT
API #47-107-01760

I. SPECIAL PROVISIONS

1.0 Location/Site Description

Located at 356 Peacock Lane Davisville, WV 26142

The GPS location is as follows:

Coordinates, Decimal Degrees 39.231850 E; -81.419017 W

Directions to site:

From the Charleston Area:

Take I-77 N to exit 176 Rte. 50 turn right on Rte. 50 E and continue 5.1 miles. Turn right on Murphy town Rd. Continue 0.5 mile and turn right on Grant Hill Rd. Continue 0.6 mile and turn left on Peacock Lane. Continue 0.6 mile to well site on the right in hayfield.

Approaching from the Parkersburg Area:

Take I-77 S to exit 176 Rte. 50 turn left on Rte. 50 E and continue 5.1 miles. Turn right on Murphy town Rd. Continue 0.5 mile and turn right on Grant Hill Rd. Continue 0.6 mile and turn left on Peacock Lane. Continue 0.6 mile to well site on the right in hayfield.



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

API: 47 - 107 - 01760 WELL NO.: HARPER #1
FARM NAME: CRAIG HARPER
RESPONSIBLE PARTY NAME: UNKNOWN - WV DEP PAID PLUGGING CONTRACT
COUNTY: WOOD - 107 DISTRICT: WALKER
QUADRANGLE: KANAWHA
SURFACE OWNER: CRAIG HARPER
ROYALTY OWNER: GEORGE GRANT
UTM GPS NORTHING: 4342588.52
UTM GPS EASTING: 463835.54 GPS ELEVATION: 804'

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 X : Post Processed Differential ____
Real-Time Differential X

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 ALLEN D FLOWERS Inspector 7/30/2022
Title Date

11/10/2016

PLUGGING PERMIT CHECKLIST

Plugging Permit

- WW-4B
- WW-4B signed by inspector
- WW-4A

- SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL

- COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- WW-9 PAGE 1 (NOTARIZED)
- WW-9 PAGE 2 with attached drawing of road, location, pit and proposed area for land application
- WW-9 GPP PAGE 1 and 2 if well effluent will be land applied
- RECENT MYLAR PLAT OR WW-7
- WELL RECORDS/COMPLETION REPORT
- TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED
- MUST HAVE VALID BOND IN OPERATOR'S NAME
- CHECK FOR \$100 IF PIT IS USED

09/23/2022