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**west virginia** department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

September 10, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-5902245, issued to TUG FORK DEVELOPMENT, 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 all 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. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin  
Chief

Operator's Well No: HRC 3  
Farm Name: HUNTINGTON REALTY CORPOR  
**API Well Number: 47-5902245**  
**Permit Type: Plugging**  
Date Issued: 09/10/2015

**Promoting a healthy environment.**

**09/11/2015**

## PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

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### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

1) Date \_\_\_\_\_, 20\_\_\_\_  
2) Operator's Well No. HRC 3  
3) API Well No. 47-59-02245

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 \_\_\_\_ or Underground storage \_\_\_\_ ) Deep \_\_\_\_ / Shallow X

5) Location: Elevation 1153 Watershed OPEN MOUTH  
District HARVEY County MINGO Quadrangle WILSONDALE

6) Well Operator TUG FORK DEVELOPMENT 7) Designated Agent J.D. BARTRAM  
Address 3930 BRANDYWINE Address PO BOX 1014  
CATLETTSBURG, KY 41129 LANALETTE, WV 25335

8) Oil and Gas Inspector to be notified Name JEREMY JAMES  
Address PO BOX 147  
ONA, WV 25345  
9) Plugging Contractor Name RJD WELL SERVICE  
Address 1087 RACCOON RD  
HUEYSVILLE, KY 41640

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

2000' to 1000' GEL  
OPEN HOLE WIRELINE BRIDGE PLUG 1775  
CEMENT 1775' to 1000'  
GEL 1000' to 400'  
CEMENT 400' to SURFACE

Received  
Office of Oil & Gas  
MAY 15 2015

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

Work order approved by inspector [Signature] Date 5-12-15

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, 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: HUNTINGTON REALTY CORP Operator Well No.: HRC 3

LOCATION: Elevation: 1153 Quadrangle: WILSONDALE

District: HARVEY County: MINGO

Latitude: 7370 Feet South of 37 Deg. 55 Min. 00 Sec.

Longitude: 2919 Feet West of 82 Deg. 15 Min. 00 Sec.

Well Type: OIL  GAS

Company TUG FURK DEVELOPMENT Coal Operator HUNTINGTON REALTY CORP  
or Owner

Agent E.D. BARTRAM Coal Operator  
or Owner

Permit Issued Date \_\_\_\_\_

Received  
Office of Oil & Gas

AFFIDAVIT

MAY 15 2015

STATE OF WEST VIRGINIA,  
County of \_\_\_\_\_ ss:

WD Abbeys and \_\_\_\_\_ 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 say that said work was commenced on the 5<sup>th</sup> day of MAY, 2015 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
GEL	2901	1975		
CEMENT	1975	1060		1634' 9" CEMENT TO SURFACE
GEL	1060	500		
CEMENT	500	SURFACE		320' 9 3/8" CEMENT TO SURFACE

Description of monument: 1" RISER 36" HIGH and that the work of plugging and filling said well was completed on the 8<sup>th</sup> day of MAY, 2015.

And further deponents saith not. WD Abbeys

Sworn and subscribe before me this 13 day of May, 2015

My commission expires: 10/13/2018

[Signature]  
Notary Public



Affidavit reviewed by the Office of Oil and Gas: [Signature]

Title: inspector O&G 09/11/2015

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, 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: HUNTINGTON REALTY CORP. Operator Well No.: HRC 3

LOCATION: Elevation: 1153 Quadrangle: WILSONDALE  
District: HARVEY County: MINGO  
Latitude: 7370 Feet South of 37 Deg. 55 Min. 00 Sec.  
Longitude: 2719 Feet West of 82 Deg. 15 Min. 00 Sec.

Well Type: OIL \_\_\_\_\_ GAS X

Company TUG FORK DEVELOPMENT Coal Operator N/A  
or Owner HUNTINGTON REALTY CORP

Agent I.D. BARTRAM Coal Operator \_\_\_\_\_ RECEIVED  
or Owner \_\_\_\_\_ Office of Oil and Gas  
Permit Issued Date \_\_\_\_\_

AFFIDAVIT

AUG 28 2015

STATE OF ~~WEST VIRGINIA~~ KENTUCKY  
County of JOHNSON ss:

WV Department of  
Environmental Protection

FRED RICE and \_\_\_\_\_ 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 say that said work was commenced on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
<u>CEL</u>	<u>2801</u>	<u>1775</u>		
<u>CEMENT</u>	<u>1775</u>	<u>1060</u>	<u>MECHANICAL BRIDGE</u>	<u>1639' 7" CEMENT TO SURFACE</u>
			<u>BUILD @ 1775</u>	
<u>CEL</u>	<u>1060</u>	<u>580</u>		
<u>CEMENT</u>	<u>580</u>	<u>SURFACE</u>		<u>320' 9 3/4" CEMENT TO SURFACE</u>

Description of monument: 7" RISER 36" HIGH and that the work of plugging and filling said well was completed on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

And further deponents saith not X Fred Rice

Sworn and subscribe before me this 25 day of May, 2015

My commission expires: 01/17/2016 Leslie Rice  
Notary Public



WW-4A  
Revised 6-07

1) Date: \_\_\_\_\_  
2) Operator's Well Number  
HRC 3  
3) API Well No.: 47 - 59 - 02245

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>HUNTINGTON REALTY CORP</u>	Name <u>NOT OPERATED</u>
Address <u>PO BOX 522</u>	Address _____
<u>HUNTINGTON, WV 25711-0522</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>JEREMY JAMES</u>	(c) Coal Lessee with Declaration
Address <u>PO BOX 147</u>	Name <u>CONSOL</u>
<u>OWA, WV 25545</u>	Address <u>PO BOX 76</u>
Telephone <u>304 951 2596</u>	<u>NAUGATUCK, WV 25685</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 well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

Received  
Office of Oil & Gas

MAY 15 2015

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverse 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 TUG FORK DEVELOPMENT  
 By: [Signature]  
 Title: OWNER  
 Address 3930 BRANDYVINE  
CATLETTSBURG, KY 41129  
 Telephone 606 922 5887

Subscribed and sworn before me this 12 day of May 2015  
[Signature] Notary Public  
 My Commission Expires July 2, 2016

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name TUG FORK DEVELOPMENT OP Code \_\_\_\_\_

Watershed (HUC 10) OPEN MOUTH OF W FK OF TWELVEPOLE CK Quadrangle WILSONDALE

Elevation 1153 County MINGO District HARVEY

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

Will a pit be used for drill cuttings? Yes X No \_\_\_\_\_

If so, please describe anticipated pit waste: DRILL CUTTINGS, PRODUCED AND INDUCED WATER

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- \_\_\_\_\_ Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- \_\_\_\_\_ Reuse (at API Number \_\_\_\_\_ )
- \_\_\_\_\_ Off Site Disposal (Supply form WW-9 for disposal location)
- \_\_\_\_\_ Other (Explain \_\_\_\_\_)

Will closed loop system be used? NO

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. AIR

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

Additives to be used in drilling medium? SOAP

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. LEAVE IN PIT

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

-Landfill or offsite name/permit number? \_\_\_\_\_

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, 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 [Signature]

Company Official (Typed Name) W. D. CUBBEDGE

Company Official Title OWNER

RECEIVED  
Office of Oil and Gas

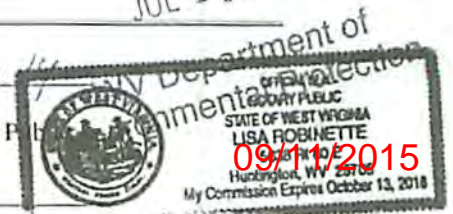
JUL 10 2014

Subscribed and sworn before me this 3 day of July, 2014

[Signature]

Notary Public

My commission expires 10/31/18



Form WW-9

Operator's Well No. ARC-3

Proposed Revegetation Treatment: Acres Disturbed .5 Prevegetation pH 7

Lime 2 Tons/acre or to correct to pH 7

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch PAPER(HYDRO SEED) Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre	Seed Type	Area II lbs/acre
FAWN FESCUE	25	SAME AS AREA 1	
ORCHARD GRASS	10		
PERRENIAL AND ANNUAL RYE	10		
MEDIUM RED CLOVER	3		

Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: inspector 006

Date: 7-7-14

Field Reviewed?  Yes  No

RECEIVED  
Office of Oil and Gas  
JUL 10 2014  
WV Department of  
Environmental Protection



5902245P



WW-7  
8-30-06



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

API: 59-02245 WELL NO.: HRC 3

FARM NAME: Huntington Realty Corp.

RESPONSIBLE PARTY NAME: Tug Fork Development

COUNTY: Mingo DISTRICT: Harvey

QUADRANGLE: Wilsondale

SURFACE OWNER: Huntington Realty Corp.

ROYALTY OWNER: Huntington Realty Corp.

UTM GPS NORTHING: 4195082.25

UTM GPS EASTING: 389280.612 GPS ELEVATION: 1153

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.

WD Caldwell  
Signature

OWNER  
Title

5/20/15  
Date