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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Earl Ray Tomblin , Governor  
Randy C. Huffman , Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Friday, December 16, 2016  
WELL WORK PERMIT  
Vertical / Plugging

ROSS AND WHARTON GAS COMPANY, INC.  
RT. 5, BOX 29

BUCKHANNON, WV 262010000

Re: Permit approval for  
47-021-02787-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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:  
Farm Name: MASSEY, M. L.  
U.S. WELL NUMBER: 47-021-02787-00-00  
Vertical / Plugging  
Date Issued: 12/16/2016

Promoting a healthy environment.

12/16/2016

## 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 8/23, 2016  
2) Operator's  
Well No. M. L. Massey #1  
API Well No. 47-021 02787

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 1168 Watershed Little Kanawha  
District Glenville County Gilmer Quadrangle Gilmer

6) Well Operator Ross and Wharton Gas 7) Designated Agent Mike Ross Po Box 219  
Company, INC. Address Coalton WV 26257  
Address Rt. 5, Box 29,  
Buckhannon WV 26201

Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Danny Mullins Name R & R WELL SERVICE  
Address 124 Bid Trace Fork Rd. 220 Jack Acres Rd. Address 42 LYNCH RIDGE  
Harts WV 25524 Buckhannon, WV WALTON, WV 25286  
PHONE 304 932 6844 26201

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

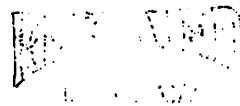
- Remove all equipment used to produce well
- Gel hole TD 2535
- Cement 2535 to 2400
- Freepoint, cut ,pull 4 1/2 csg @ +/-1500'
- Cement 1550 to 1450 over cut
- Gel 1450 to 1250
- Cement 1220 to 1120 over elevation
- Gel 1120 to 660
- Cement 660 to ~~560~~ <sup>520</sup> <sup>0m</sup> <sup>(covers cone)</sup>
- Gel ~~560~~ <sup>520</sup> to 100'
- Cement 100' to surface

Set monument with proper API  
Gel between all plugs

Signature Mike Ross Date 10/14/16

notification must be given to the district oil and gas inspector 24 hours before permitted work is to begin.

Work order app: 12/16/2016  
inspector Danny Mullins 10-14-16



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Glenville 7½  
Gil- 2787  
Permit No. \_\_\_\_\_

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

Company Ro-Jo Industries Inc  
Address P.O. Box 86, Sand Fork, W. Va.  
Farm Mapolen Marsh Acres 129.75  
Location (waters) Little Kanawha R' ver  
Well No. T-A Elev. 1168  
District Glenville County Gilmer  
The surface of tract is owned in fee by Mrs. Mary Lee Massey  
Address Stouts Mills, W. Va.  
Mineral rights are owned by Marsh Heirs ½, Mack  
Wor Address Sand Fork, W. Va.  
Drilling Commenced February 21, 1977  
Drilling Completed April 15, 1977  
Initial open flow show cu. ft. none bbls.  
Final production 1,400mcft cu. ft. per day 700 bbls.  
Well open \_\_\_\_\_ hrs. before test 700 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			To Surface          120 sks Pozz
Cond. 13-10"	610 ft	610 ft	
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2		2535	
3			
2			
Liners Used			

Well treatment details:

Fracked 5-13-77  
Perf- 2453 to 67, 14 holes  
47,500 lb of 20/40 sand  
Avg. rates 37 BPM at 1450 lb  
1357HHP  
650 Bls of water

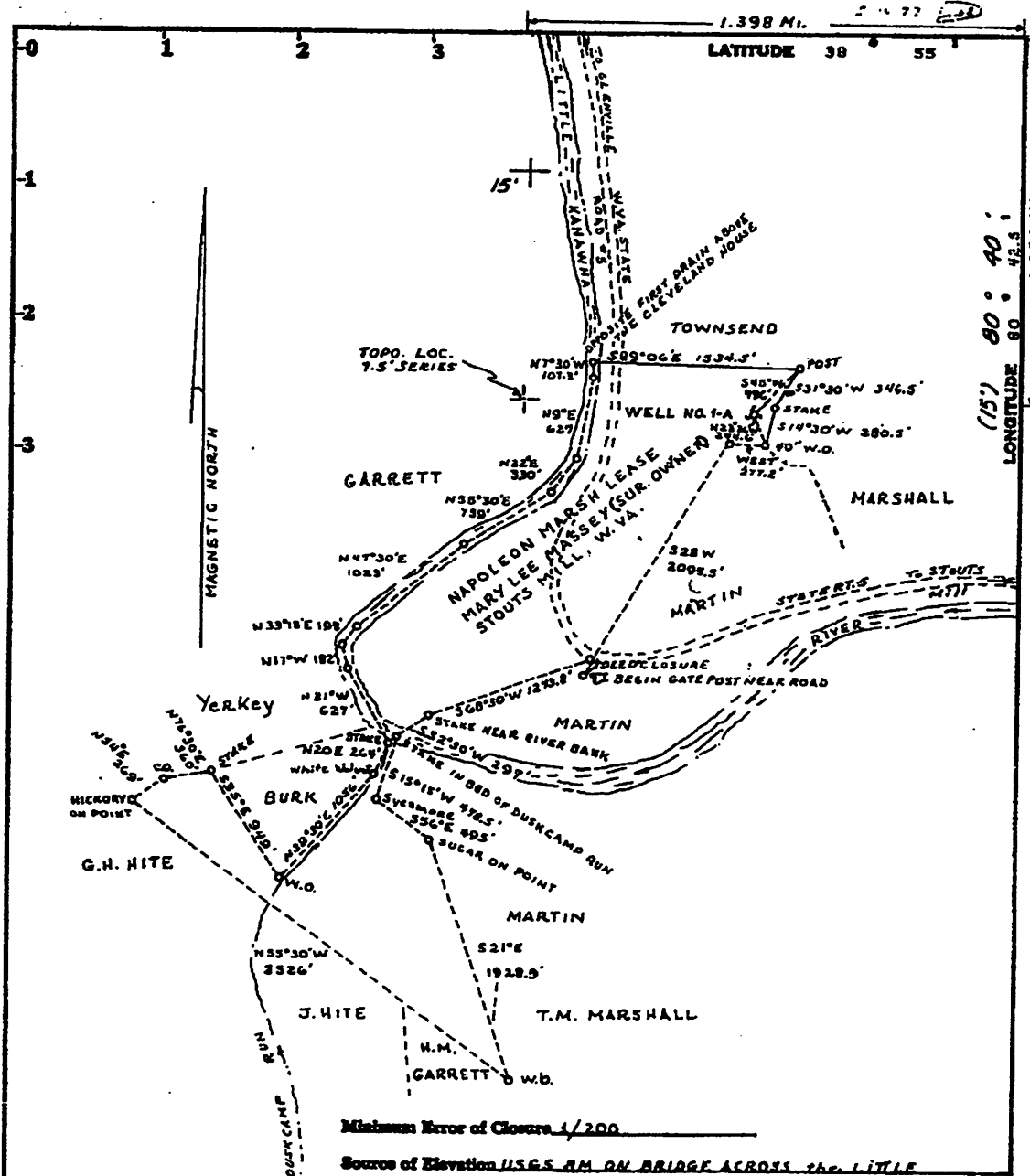
Attach copy of cementing record.

Coal was encountered at 570 to 578 Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Big Injun Depth \_\_\_\_\_

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface			0	200		
Shale			200	570		
Coal			570	578		
Shale, Slate. Red Rock			578	2218		
Little Line			2218	2238		
Slate			2238	2280		
Big Line			2280	2320		
Big Injun			2320	2475		
Slate, Shale			2475	2517		
Total Depth			2517			

(over)

\* Indicates Electric Log tops in the remarks section.



Minimum Error of Closure 1/200

Source of Elevation USGS AM ON BRIDGE ACROSS THE LITTLE

KANAWHA RIVER AT STOUTS MILL = 750'

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Fracture   
 New Location   
 Drill Deeper   
 Abandonment

Signed: Mark C. Richard  
 Squares: N S E W

Company RO-TO INDUSTRIES, INC.  
 Address PO BOX 86 SAND FORK, WVA 26430  
 Farm MARY LEE MASSEY  
 Tract \_\_\_\_\_ Acres 129.75 Lease No. \_\_\_\_\_  
 Well (Farm) No. 1-A Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1168'  
 Quadrangle GILMER T.S. Burnsville 15'  
 County GILMER District GLENVILLE  
 Surveyor MARK C. ECHARD  
 Surveyor's Registration No. 490  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date 2/14/77 Scale 1 INCH = 1000 FEET

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

**WELL LOCATION MAP**  
 FILE NO. GIL-2787

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

**47-027**

*2102787 Bld I 100*

WW-4A  
Revised 6-07

1) Date: 8/23/16  
2) Operator's Well Number  
M. L. Massey #1  
3) API Well No.: 47 - 021-02787 -

**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: (a) Name Paul & Jeanne Conrad, 11177 <sup>Stanton</sup> Tpk Address Walton, WV 26180-5698  
5) (a) Coal Operator Name None Address \_\_\_\_\_  
(b) Name J. J. Massey Heirs ETAL %James Massey Coal Owner(s) with Declaration Address 39234 Greenbrier Rd, New Matamoras OH 45767  
(c) Name \_\_\_\_\_ Address \_\_\_\_\_  
6) Inspector Danny Mullins (c) Coal Lessee with Declaration Address 124 Bid Trace Fork Rd. 220 Jack Acres Rd. Harts WV 25524 Buckhannon, WV 26201  
Telephone 304 932 6844

**THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:**

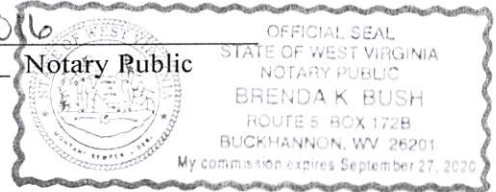
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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 Ross and Wharton Gas Company, INC.  
By: Mike Ross  
Its: Owner  
Address RT 5, Box 29, Buckhannon, WV 26201  
Telephone 304 472 4289

Subscribed and sworn before me this 14 day of October 2016  
Sept 27, 2020 Brenda K Bush  
My Commission Expires \_\_\_\_\_



**Oil and Gas Privacy Notice**

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

**SURFACE OWNER WAIVER**

Operator's well  
M. L. Massey  
#1

API 47-021-02787

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

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

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

**WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

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

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

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

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

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

**VOLUNTARY STATEMENT OF NO OBJECTION**

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

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

FOR EXECUTION BY A NATURAL PERSON  
ETC.

FOR EXECUTION BY A CORPORATION,

	Date _____	Name _____
Signature		By _____
		Its _____ Date _____

Signature

12/16/2016  
Date

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Ross and Wharton Gas Company, Inc. OP Code 305680

Watershed (HUC 10) Little Kanawha Quadrangle Glenville

Elevation 1168 County Gilmer District Glenville

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 \_\_\_\_\_ No x

If so, please describe anticipated pit waste: \_\_\_\_\_ x

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

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)

X Other (Explain no fluids are expected in return no pit any water will be collected and properly disposed)

Will closed loop system be used? \_\_\_\_\_

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

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

Additives to be used in drilling medium? \_\_\_\_\_

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. \_\_\_\_\_

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

-Landfill or offsite name/permit number? No pit

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 Mike Ross

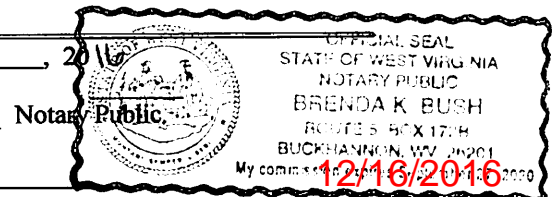
Company Official (Typed Name) Mike Ross

Company Official Title C.O.B.

Subscribed and sworn before me this 14 day of October, 2016

Brenda K Bush

My commission expires September 27, 2020





Proposed Revegetation Treatment: Acres Disturbed 0.5 Prevegetation Ph 6.0

Lime \_\_\_\_\_ 2Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer type 10-20-20

DM

Fertilizer amount \_\_\_\_\_ 500 lbs/acre

Mulch \_\_\_\_\_ 2 Tons/acre

**Seed Mixtures**

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
KENTUCKY FESCUE	40	SAME	
ALSIKE CLOVER	5		
ANNUAL RYE	16		

**Attach:**

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

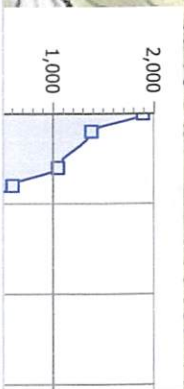
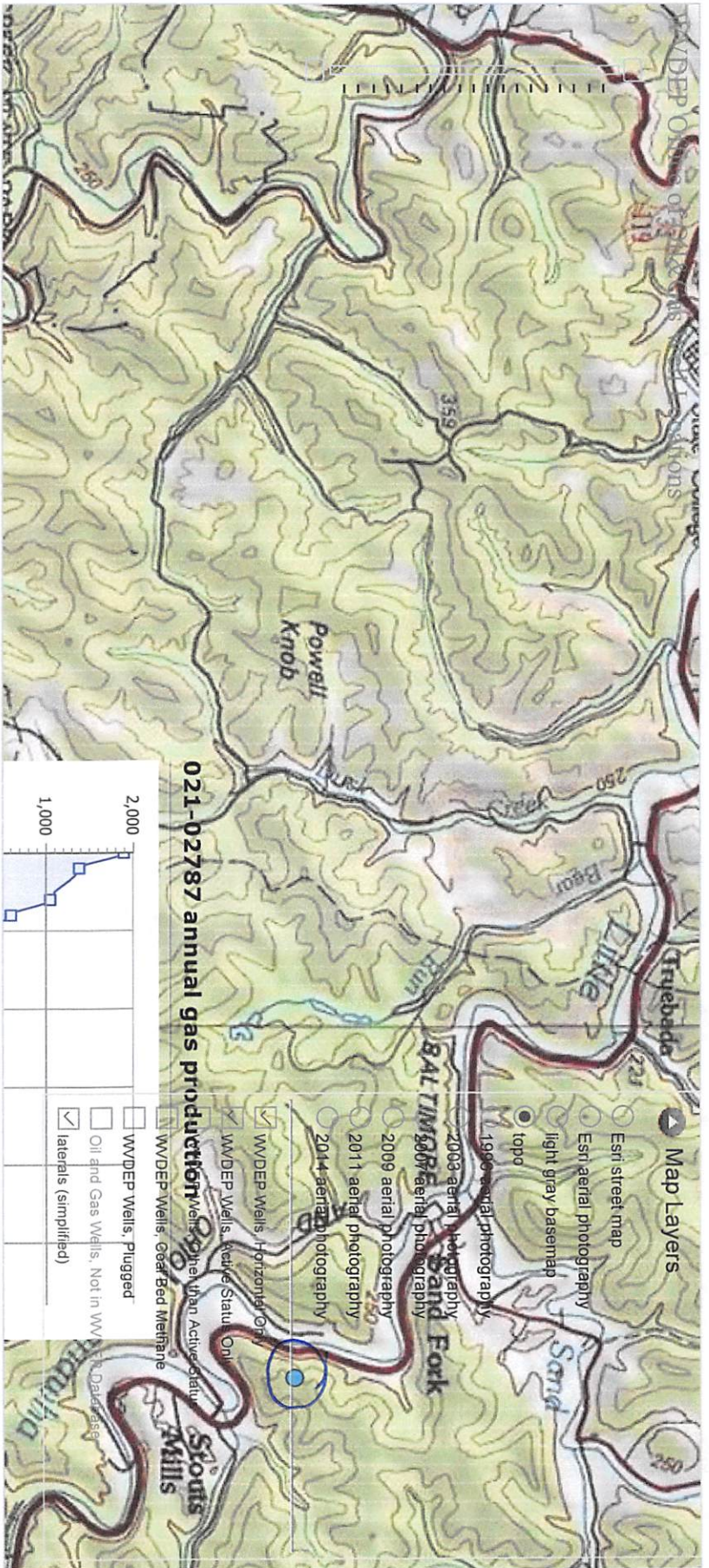
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: \_\_\_\_\_

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

Title: \_\_\_\_\_ Date: \_\_\_\_\_

Field Reviewed? ( ) Yes ( / ) No



- Map Layers**
- Esri street map
  - Esri aerial photography
  - light gray basemap
  - topo
  - 1990 aerial photography
  - 2003 aerial photography
  - 2007 aerial photography
  - 2009 aerial photography
  - 2011 aerial photography
  - 2014 aerial photography
  - WW/DEP Wells, Active Status
  - WW/DEP Wells, Geol Bed Metifane
  - WW/DEP Wells, Plugged
  - Oil and Gas Wells, Not in WW/DEP Database
  - laterals (simplified)

#	API	Permit Type	Issued	Operator	Well Status	Well Type	Well Use	Well Num
1	021-02787	Other Well	1977-4-14	ROSS AND WHARTON GAS COMPANY, INC.	Abandoned Well	Vertical	Gas Production	1-A

WW-7  
8-30-06



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

API: 47 021 02787 WELL NO.: M. L. Massey #1  
 FARM NAME: Mary Lee Massey  
 RESPONSIBLE PARTY NAME: Ross and Wharton Gas Company, INC.  
 COUNTY: Gilmer DISTRICT: Glenville  
 QUADRANGLE: Gilmer  
 SURFACE OWNER: Paul & Jeanne Conrad (etal)  
 ROYALTY OWNER: J.J. Massey Heirs  
 UTM GPS NORTHING: 4305896  
 UTM GPS EASTING: 523065 GPS ELEVATION: 1168

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.

Trick Ross C.O.B. 10/14/16  
 Signature Title Date

12/16/2016

2102787P

7015 1520 0000 0958 9213

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<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage  
 \$ \_\_\_\_\_

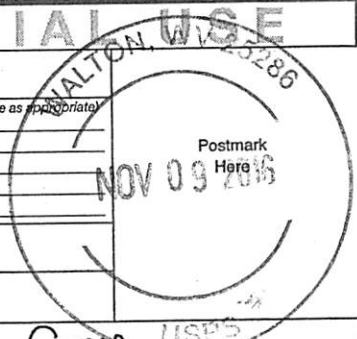
Total Postage and Fees  
 \$ \_\_\_\_\_

Sent To **PAUL & JEANNE CONRAD** USPS

Street and Apt. No., or PO Box No.  
**1177 Stanton Lake**

City, State, ZIP+4®  
**Walker, WY 26180**

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



12/16/2016

21027879

RECEIVED  
Office of Oil and Gas

DEC 15 2016

WV Department of  
Environmental Protection

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- Adult Signature Restricted Delivery \$

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Total Postage and Fees

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PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

USPS

WALTON, WSE

DEC 08 2016  
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2102786

Masssey Hires  
39234 Greenbrier Rd  
New Matamoras, OH 45767

12/16/2016