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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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, March 29, 2021  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

ROSS AND WHARTON GAS COMPANY, INC.  
RT. 5, BOX 29  
BUCKHANNON, WV 262010000

Re: Permit approval for 2  
47-021-01351-00-00

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: 2  
Farm Name: RALSTON, V. & L. E.  
U.S. WELL NUMBER: 47-021-01351-00-00  
Vertical Plugging  
Date Issued: 3/29/2021

Promoting a healthy environment.

04/02/2021

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4702101351P

## 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

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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.
4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

04/02/2021

1) Date February 25, 2021  
2) Operator's  
Well No. V. & L. Ralston #2  
3) APT Well No. 47-021 - 01351

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 817' Watershed Fink Creek  
District Troy County Gilmer Quadrangle Vadis

6) Well Operator Ross & Wharton Gas Co. Inc. 7) Designated Agent Mike Ross  
Address 354 Morton Ave. Address P.O. Box 219  
Buckhannon, WV 26201 Coalton, WV 26257

8) Oil and Gas Inspector to be notified Name Danny Mullins Derek Haight  
Address 220 Jack Acres Rd. PO Box 85  
Buckhannon, WV 26201 Smithville, WV 26178  
9) Plugging Contractor Name N/A  
Address \_\_\_\_\_

10) Work Order: The work order for the manner of plugging this well is as follows:  
Free point and recover casing's & tubular's, 6% Gel between plug's  
Set cement plug 1550' to TD (1698') 100' above top perf  
Set 100' cement plug across casing cut  
Set 100' cement plug <sup>500' to 600'</sup> ~~700' to 800'~~ 6 5/8" casing ( salt bearing strata) (elevation plug) <sup>SALT WATER @ 575-580</sup>  
Set cement plug 200' to 300' (8" casing plug, freshwater protection plug)  
Set surface plug 100' to 0', Tag plug's as necessary, Set monument with API numbe

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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 [Signature] Date 3-11-21





4702101351P

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 13

Quadrangle Vadis, S. W.

Permit No. GIL-1351

WELL RECORD

Oil or Gas Well O & G  
(KIND)

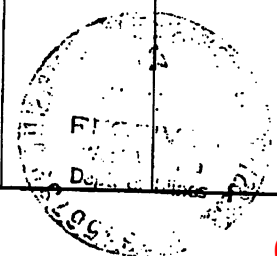
Company William C. Hurtt  
Address 1801 Grant Bldg., Pgh. 19, Pa.  
Farm Ralston Acrea. 22  
Location (waters) Fink Creek  
Well No. #2 Elev. 800'  
District Troy County Gilmer  
The surface of tract is owned in fee by V. & L. Ralston  
Address \_\_\_\_\_  
Mineral rights are owned by \_\_\_\_\_  
Address \_\_\_\_\_  
Drilling commenced Nov. 22, 1961  
Drilling completed Dec. 21, 1961  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
Volume 100 M (Before Frac) Cu. Ft.  
Rock Pressure Not taken lbs. \_\_\_\_\_ hrs.  
Oil Show estimate 2 bbl. bbls., 1st 24 hrs.  
WELL ACIDIZED Mud Acid 250 gal.  
15% HCl 3% HF

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
18			
10			Size of
8 1/4	243	243	
6 3/4	737		Depth set
5 3/16			
4 1/2	1741	1741	Perf. top <u>1664</u>
2			Perf. bottom <u>1688</u>
Liners Used			Perf. top <u>24 shots</u>
			Perf. bottom

WELL FRACTURED Western Co., Water Frac 32,000# 20-40 sand, 3,500# 10-20 sand, 1200# walnut hulls, 21,500 gal. water, overall injection 33.5 BPM, Breakdown 2000#  
RESULT AFTER TREATMENT 800MCF 250 bbl. (24 Hrs.)  
ROCK PRESSURE AFTER TREATMENT 690# 24 hrs.  
Fresh Water 25'-35' Feet Salt Water 575'-580 Feet 890'-900

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top			0	5			
Sand Rock			5	15			
Red Rock			15	20			
Blue Slate			20	25			
Sand			25	35	Water		
Blue Slate			35	110			
Red Rock			110	125			
Gray Slate			125	143			
Red Rock			143	170			
Blue Slate			170	190			
Broken Lime			190	195			
Red Rock			195	260			
Gray Lime			260	270			
White Slate			270	285			
Red Rock			285	310			
Slate Shells			310	315			
Broken Sand			315	355			
Slate			355	369			
Red Rock			369	445			
Slate			445	540			
Black Lime			540	555			
Slate Shells			555	575	Water		
Lime			575	585			
Slate Shells			585	643			
Sand			643	718			

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(over)

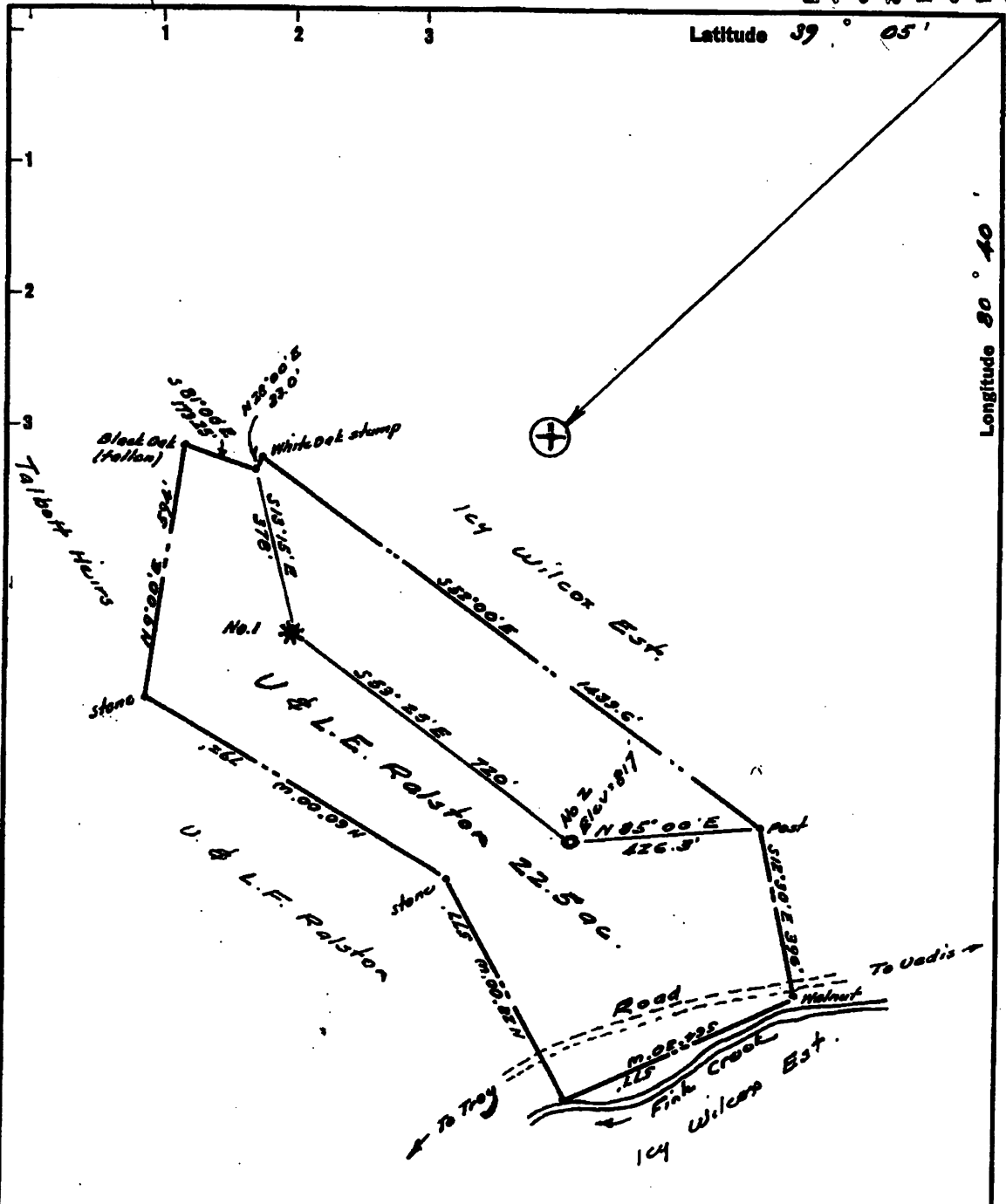
04/02/2021

Formation	Color	Hard or Soft	Top 13	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate			718	744			
Pink Rock			744	747			
Slate Shells			747	795			
Sand			795	852			
Black Slate			852	855			
Gray Lime			855	875			
Slate Shells			875	880			
Gritty Lime			880	890			
Salt Sand			890	935			
Slate			935	940			
Blue Lime			940	950			
Slate Shells			950	985			
Sand			985	1028			
Slate Shells			1028	1030			
Lime			1030	1080			
Slate			1080	1190			
Sand			1190	1235			
Slate			1235	1240			
Sand			1240	1317			
Broken Sand			1317	1350			
Slate			1350	1375			
Sand			1375	1395			
Broken Lime			1395	1403			
Red Rock			1403	1412			
Slate Shells			1412	1426			
Lime			1426	1460			
Maxon			1460	1468			
Red Rock			1468	1480			
Slate Shells			1480	1492			
Big Lime			1492	1620			
Kenner Sand			1620	1625			
White Lime			1625	1631			
Injun Sand			1631	1681			
Blue Slate			1681				
Maxon			1460	1468			
Blue Monday			1515	1521			
Big Lime			1548	1635			
Big Injun			1635	1698			
Total Depth				1746			
Oil Pay			1653	1698			

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Date Jan 17, 1962

APPROVED  
By William C. Hunt Owner  
(Title)



New Location   
 Drill Deeper   
 Abandonment

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Company **WILLIAM C. HURT**  
 Address **1801 Grant Building, Pittsburgh, Penna**  
 Farm **V. & L. E. Ralston**  
 Tract \_\_\_\_\_ Acres **22.5** Lease No. \_\_\_\_\_  
 Well (Farm) No. **2** Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) **817'**  
 Quadrangle **Vadis**  
 County **Gilmer** District **Troy**  
 Engineer **W. H. Hest**  
 Engineer's Registration No. **1227**  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date **November 1961** Scale **1" = 300'**

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
 MAR 15 2021  
 Department of Environmental Protection

**WELL LOCATION MAP**  
 FILE NO. **Gil-1351**

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.  
 - Denotes one inch spaces on border line of original tracing.

WW-4A  
Revised 6-07

4702101851 P

1) Date: February 25, 2021  
2) Operator's Well Number  
V. & L. Ralston #2  
3) API Well No.: 47 - 021 - 01351

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>Mike Ross Inc. &amp; I.L. Morris</u>	Name <u>N/A</u>
Address <u>c/o Mike Ross Inc. &amp; WACO Oil</u>	Address _____
<u>P.O. Box 219, Coalton, Wv 26257</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Danny Mullins</u>	(c) Coal Lessee with Declaration
Address <u>220 Jack Acres Rd.</u>	Name <u>N/A</u>
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>1-304-932-8644</u>	_____
<u>Derek Hought</u>	<u>PO Box 85</u>
<u>Smithville, WV</u>	<u>26178</u>
<u>204-206-7613</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 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 Ross & Wharton Gas Co. Inc.  
 By: Duke Ross  
 Its: President  
 Address 354 Morton Ave.  
Buckhannon, WV 26201  
 Telephone 1-304-472-4289

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WV Department of Environmental Protection

Subscribed and sworn before me this 5th day of March, 2021  
Brenda K Bush Notary Public  
My Commission Expires Sept. 27, 2025

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).

04/02/2021



**SURFACE OWNER WAIVER**

4702101351P

Operator's Well  
Number

47-021-01351 V. L. Ralston #2

**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.**

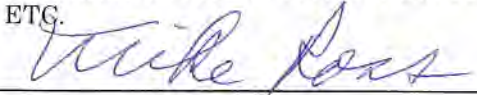
**VOLUNTARY STATEMENT OF NO OBJECTION**

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 03/08/21 Name \_\_\_\_\_  
By \_\_\_\_\_  
Its \_\_\_\_\_

Signature

Date

04/02/2021

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WW-9  
(5/16)

4702101351P

API Number 47 - 021 - 01351  
Operator's Well No. V+L Ralston #2

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

Operator Name Ross & Wharton Gas Co. Inc. OP Code 306580

Watershed (HUC 10) Fink Creek Quadrangle Vadis

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  ANY WELL EFFLUENT WILL BE CONTAINED IN TANKS BEFORE DISPOSING OFF SITE. JRM/ML

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 \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_ )

Dmit  
3-11-21

Will closed loop system be used? If so, describe: \_\_\_\_\_

Drilling medium anticipated for this well (vertical and horizontal)? 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? \_\_\_\_\_

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 *Mike Ross*  
Company Official (Typed Name) Mike Ross  
Company Official Title President

Office of  
**MAR 15 2021**  
WV Department of  
Environmental Protection

Subscribed and sworn before me this 8<sup>th</sup> day of March, 2021

*Brenda K Bush*

Notary Public

My commission expires Sept. 27, 2025



04/02/2021

Operator's Well No. Vol L Redston #2

47-021-01351

Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay Tons/acre

Seed Mixtures

**Temporary**

**Permanent**

Seed Type lbs/acre

Seed Type lbs/acre

Fescue 30

Fescue 30

Contractor's Mix

Contractor's 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: [Signature]

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

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Title: Oil + Gas Inspector Date: 3-11-21

Field Reviewed?  Yes  No

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

Operator Name: Ross & Wharton Gas Co. Inc.

Watershed (IIUC 10): Fink Creek Quad: Vadis

Farm Name: \_\_\_\_\_

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

N/A

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

N/A

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Fink Creek

4. Summarize all activities at your facility that are already regulated for groundwater protection.

N/A

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5. Discuss any existing groundwater quality data for your facility or an adjacent property.



N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No material will be used

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

N/A

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

N/A

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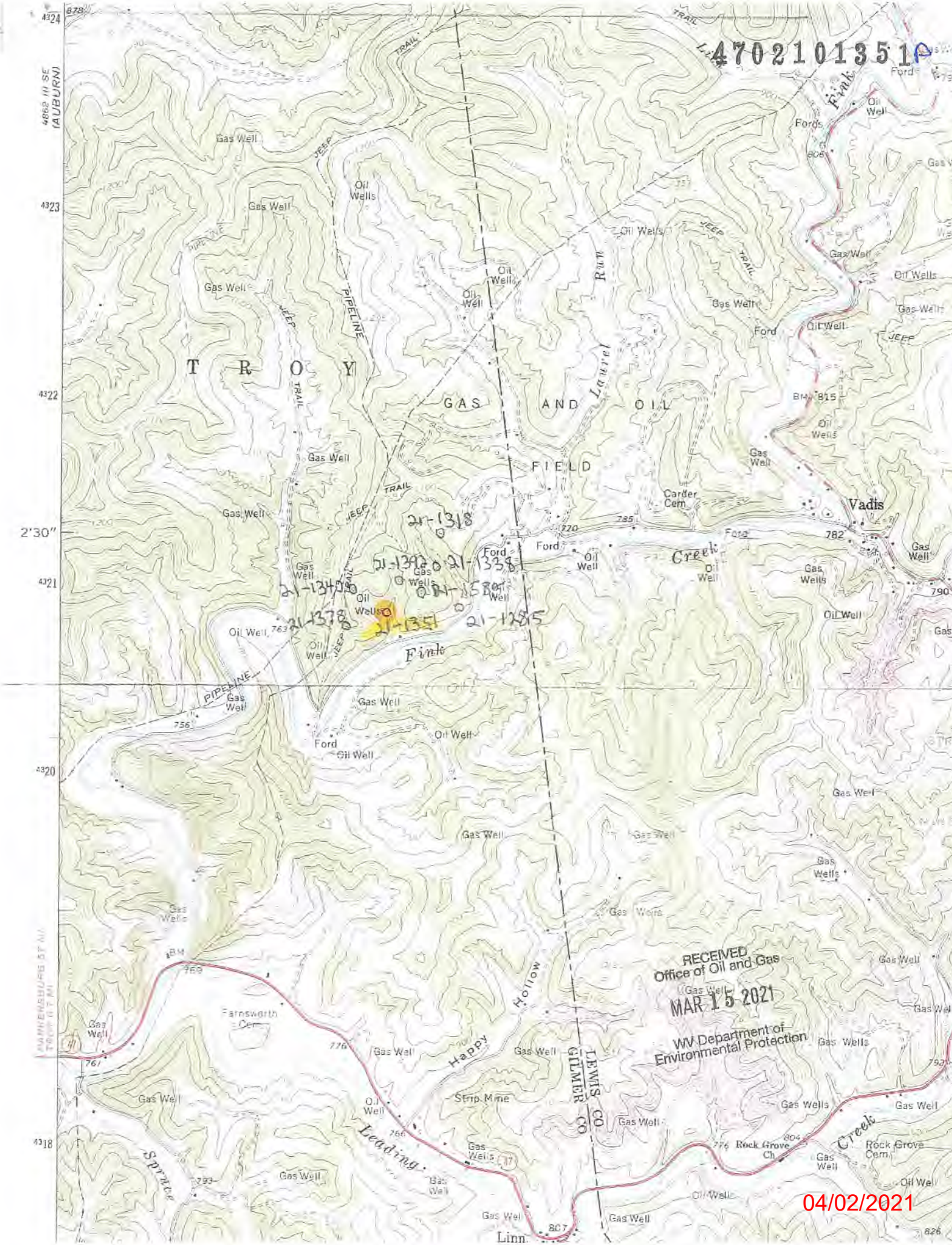
Signature: Mike Ross

Date: March 8, 2021



47021013510

4324  
4323  
4322  
2'30"  
4321  
4320  
4318  
AUBURN ST  
TOP OF M



04/02/2021



4702101351P

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-021-01351 WELL NO.: 2

FARM NAME: V. & L. Ralston

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Gilmer DISTRICT: Troy

QUADRANGLE: Vadis

SURFACE OWNER: Mike Ross Inc. & I.L. Morris

ROYALTY OWNER: \_\_\_\_\_

UTM GPS NORTHING: 4320981.0

UTM GPS EASTING: 523342.7 GPS ELEVATION: 817'

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.

Mike Ross  
Signature

President  
Title

March 8, 2021  
Date

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