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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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Tuesday, April 21, 2020  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

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

BUCKHANNON, WV 262010000

Re: Permit approval for CHARLES LLOYD 4  
47-007-00838-00-00

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: CHARLES LLOYD 4  
Farm Name: LLOYD, CHARLES  
U.S. WELL NUMBER: 47-007-00838-00-00  
Vertical Plugging  
Date Issued: 4/21/2020

Promoting a healthy environment.

## 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.

1) Date February 18, 2020  
2) Operator's  
Well No. Charles Lloyd #4  
3) API Well No. 47-007 - 00838 P

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 998' Watershed Cedar Creek  
District Otter County Braxton Quadrangle Burnsville

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  
Address 220 Jack Acres Rd.  
Buckhannon, WV 26201

9) Plugging Contractor  
Name N/A  
Address \_\_\_\_\_

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

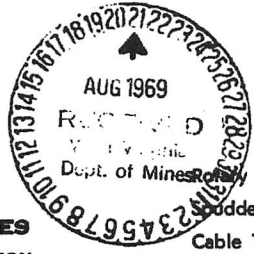
- Free point and recover casing's & tubular's
- 6% Gel between plug's
- Set cement plug 1950' to TD (2226') Plug 100' above top perf
- Set 100' cement plug across casing cut
- Set 100' cement plug 950' to 1050' (salt bearing strata), elevation plug
- Set cement plug 300' to surface, (8" casing plug, freshwater protection plug and surface plug) Tag plug's as necessary, Set Monument with API number

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

Work order approved by inspector  Date 3-12-2020

47-007-00838P

Form OG-10



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

- Rodder
- Cable Tools
- Storage

Quadrangle Burnsville  
Permit No. Brax-838

**WELL RECORD**

Oil or Gas Well Gas  
(KIND)

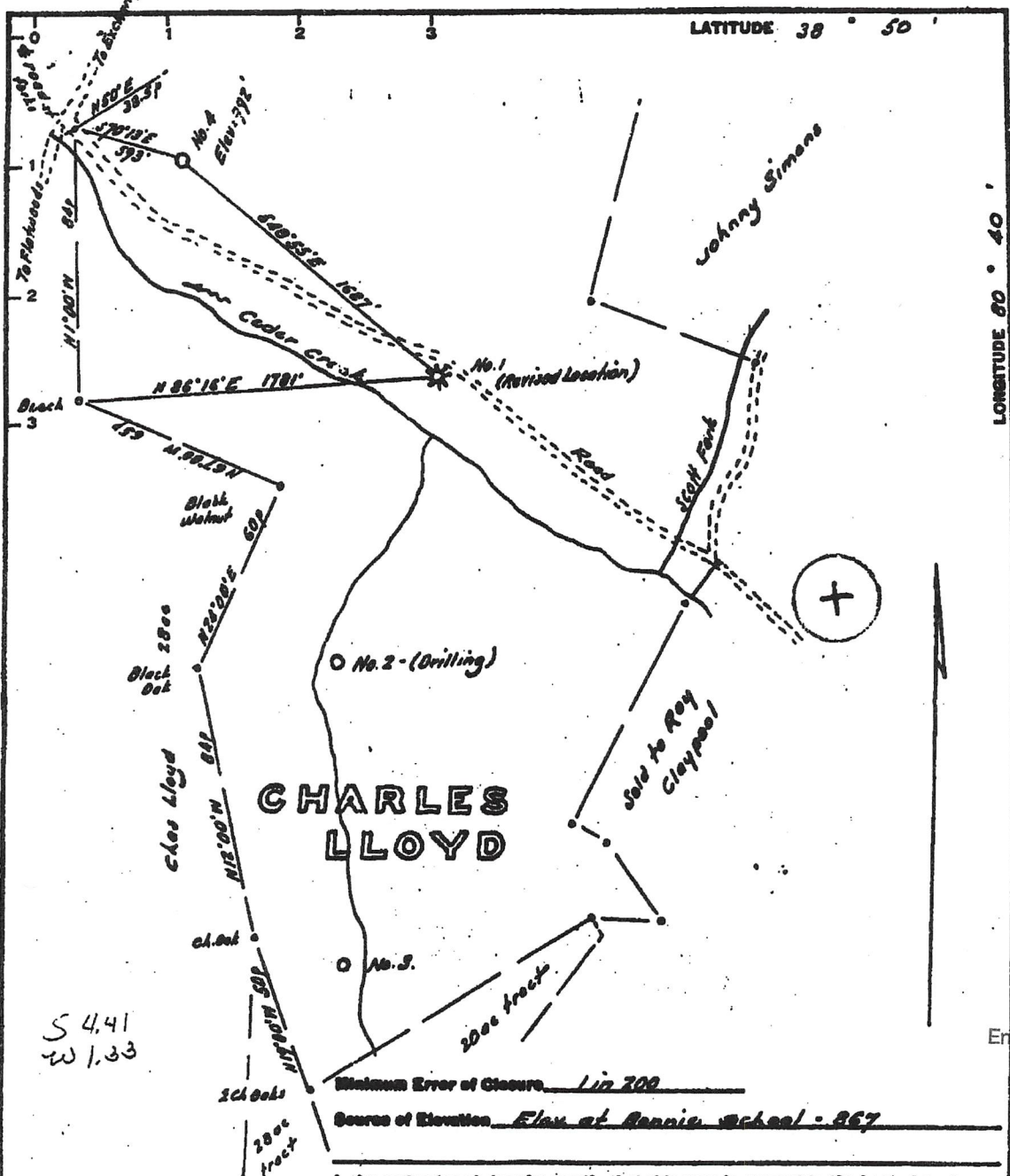
Company White Shield Oil & Gas Corp.  
Address P. O. Box 2139, Tulsa, Okla. 74101  
Farm Lloyd Acres 385  
Location (waters) W/2 of 385 Ac. lse.  
Well No. #4 Elev. 998 D.F.  
District Otter County Braxton  
The surface of tract is owned in fee by Charles R. Lloyd & Kathleen Lloyd Address \_\_\_\_\_  
Mineral rights are owned by Same Address \_\_\_\_\_  
Drilling commenced 6-4-69  
Drilling completed 6-11-69  
Date Shot 6-20-69 From 2071 To 2117'  
With 12 Shots  
Open Flow /10ths Water in \_\_\_\_\_ Inch  
/10ths Merc. in \_\_\_\_\_ Inch  
Volume \_\_\_\_\_ Cu. Ft.  
Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED (DETAILS) \_\_\_\_\_  
WELL FRACTURED (DETAILS) Frac. W/1800 BW, 25 gals. Mor-flow, 250# FR-16, 6000 # 20/40 sd. 30,000# 10/20 sd.; BDP 1500#, A.P.P. 1650#, M.T.P. 2050#, AIR 42.5 BPM, I.S.D.P. 800#, 15 min 600#  
RESULT AFTER TREATMENT (Initial open Flow or bbls.) 750 MCFPD 750,000  
ROCK PRESSURE AFTER TREATMENT 630# HOURS 8  
Fresh Water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet  
Producing Sand Injun & Squaw Depth 2071-2117

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10			Size of
8 5/8	255		Depth set
6 3/4			
5 3/16			
4 1/2	2194		
3			Perf. top <u>2071'</u>
2			Perf. bottom <u>2117'</u>
Liners Used			Perf. top _____
			Perf. bottom _____

Attach copy of cementing record.  
CASING CEMENTED 4 1/2 SIZE 2194 No. Ft. 6-14-69 Date  
Amount of cement used (bags) 200  
Name of Service Co. Dowell  
COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Shale			0	240			
Shale			240	435			
Shale & Sand			435	698			
Shale & Sand			698	1,215			
Shale & Sand			1,215	1,341			
Sand & Shale			1,341	1,704			
Sand & Shale			1,704	1,889			
Sand & Shale			1,889	1,990			
Sand & Shale			1,990	2,226			
T. D.				2,226			

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S 4.41  
W 1.33

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Minimum Error of Closure 1 in 700  
Source of Elevation Elev at Rennie School - 867

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: Walter J. [Signature]  
Surveyor N E W

Company White Shield Oil & Gas Corp.  
 Address PO Box 2199, Tulsa, Oklahoma  
 Farm Charles Lloyd  
 Tract Acres 385 Lease No. \_\_\_\_\_  
 Well (Farm) No. Four Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 992  
 Quadrangle Burnsville SW  
 County Bozeman District Other  
 Engineer Walter J. [Signature]  
 Engineer's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date May 24, 1969 Scale 1" = 400' = 660'

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

**WELL LOCATION MAP**  
FILE NO. BRAX-838

+ 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.

47-007-00838P

WW-4A  
Revised 6-07

1) Date: February 18, 2020  
2) Operator's Well Number  
Charles Lloyd #4  
3) API Well No.: 47 - 007 - 00838

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

<b>4) Surface Owner(s) to be served:</b>	<b>5) (a) Coal Operator</b>
(a) Name <u>Charles Delp</u>	Name <u>N/A</u>
Address <u>63 Dyer Road</u>	Address _____
<u>Sutton, WV 26601</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
<b>6) Inspector</b> <u>Danny Mullins</u>	(c) Coal Lessee with Declaration
Address <u>220 Jack Acres</u>	Name <u>N/A</u>
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>1-304-932-6844</u>	

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WV Department of  
Environmental Protection

**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 Ross & Wharton Gas Co. Inc.  
 By: [Signature]  
 Its: President  
 Address 354 Morton Ave.  
Buckhannon, WV 26201  
 Telephone 1-304-472-4289

Subscribed and sworn before me this 10<sup>th</sup> day of March, 2020  
[Signature] Notary Public  
 My Commission Expires September 27, 2020

**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).

WW-9  
(5/16)

API Number 47 - 007 - 00838  
Operator's Well No. Charles Lloyd #4

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) Cedar Creek Quadrangle Burnsville

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 of properly offsite. JMM*

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 \_\_\_\_\_)

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.

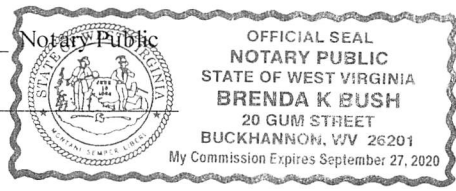
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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

Subscribed and sworn before me this 10<sup>th</sup> day of March, 2020

Brenda K Bush

My commission expires September 27, 2020



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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 \_\_\_\_\_ lbs/acre

Mulch Hay Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
<u>Fescue</u>	<u>30</u>	<u>Fescue</u>	<u>30</u>
<u>Contractor's Mix</u>		<u>Contractor's Mix</u>	
_____		_____	

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: Doug Malin

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

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Title: OG Inspector Date: 3-12-2020

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 (HUC 10): Cedar Creek Quad: Burnsville  
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.

Cedar Creek

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

N/A

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

N/A

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

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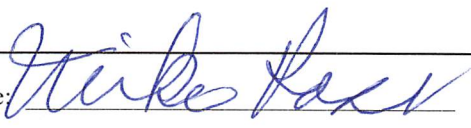
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8. Provide provisions and frequency for inspections of all GPP elements and equipment.

N/A

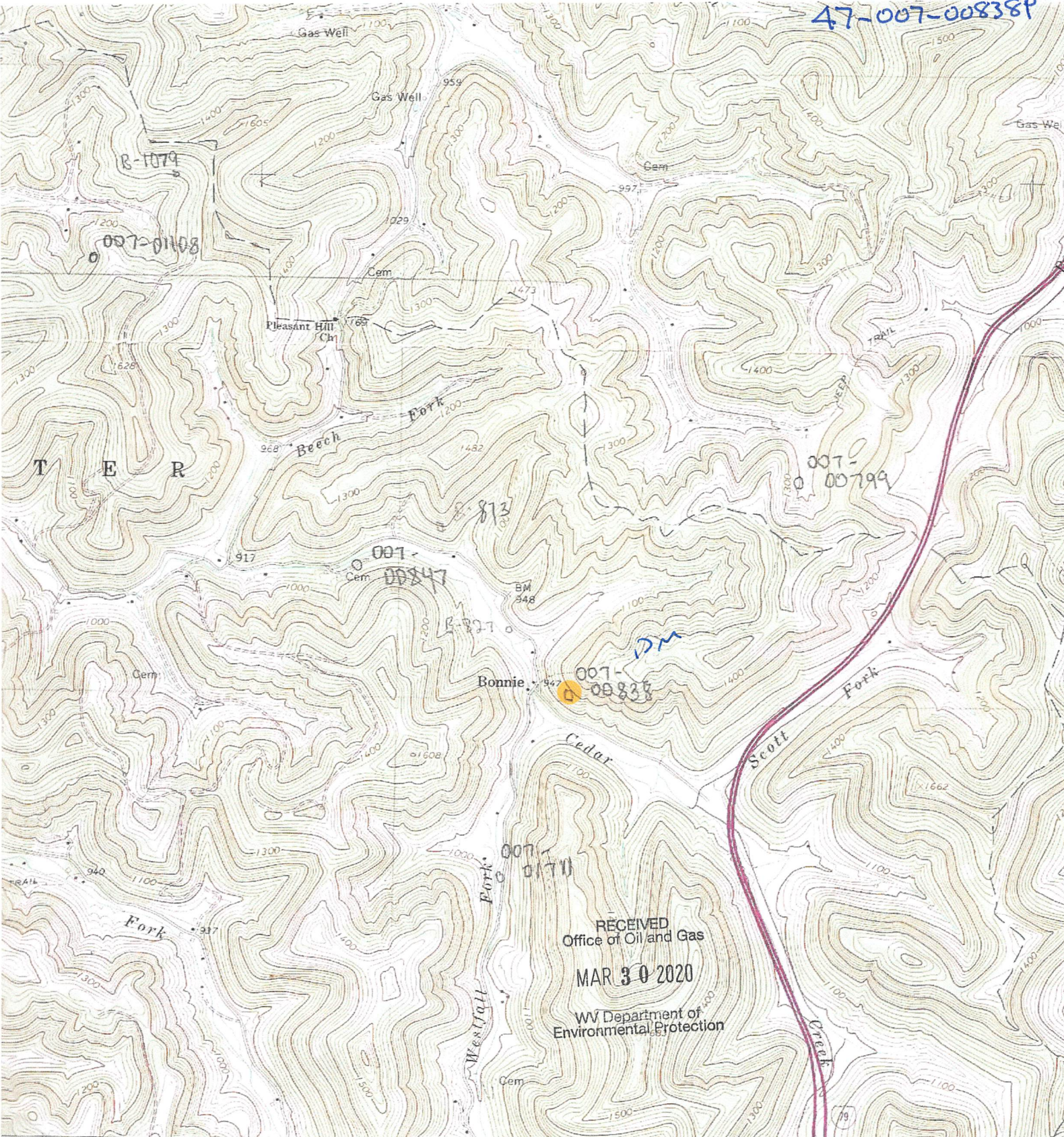
Signature:



Date:

March 10, 2020

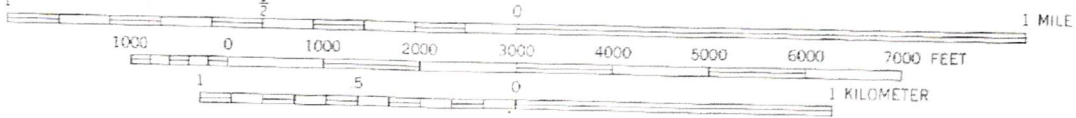
47-007-00838P



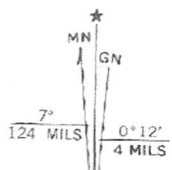
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2 080 000 FEET 525 42'30" 526 527 (SUTTON) 4861 II NW 528 40'

SCALE 1:24000



CONTOUR INTERVAL 20 FEET  
NATIONAL GEODETIC VERTICAL DATUM OF 1929



LTM GRID AND 1989 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-007-00838 WELL NO.: 4

FARM NAME: Charles Lloyd

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Braxton DISTRICT: Otter

QUADRANGLE: Burnsville

SURFACE OWNER: Charles Delp

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

UTM GPS NORTHING: 4291253.6

UTM GPS EASTING: 526812.7 GPS ELEVATION: 998'

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 10, 2020  
Date

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