



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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Tuesday, August 20, 2019
WELL WORK PLUGGING PERMIT
Vertical Plugging

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

BUCKHANNON, WV 262010000

Re: Permit approval for 2
47-021-03408-00-00

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: PETERS, A. F.
U.S. WELL NUMBER: 47-021-03408-00-00
Vertical Plugging
Date Issued: 8/20/2019

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

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.

WW-4B
Rev. 2/01

1) Date February 18, 20 19
2) Operator's
Well No. A.F. Peters #2
3) API Well No. 47-021 - 03408

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 1027' Watershed Little Kanawha River
District Glenville County Gilmer Quadrangle Glenville

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
(429')
Set cement plug 4700' to TD (5129') Set 150' cement plug 4450' to 4600', Plug 100' above top perf
Set 100' cement plug across casing cut
Set 100' cement plug 2500' to 2600', Set 100' cement plug 1600 to 1700'
Set 100' cement plug 1000' to 1100' (salt bearing strata)(elevation plug)
Set cement plug 360' to 460' (8" casing plug, freshwater protection plug)
Set surface plug 100' to 0', 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 Danny Mullins Date 2-22-19

FORM IV-35
(Obverse)
[08-78]

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

Date January 31, 1979, 19

Operator's Well No. A.F. Peters #2

WELL OPERATOR'S REPORT
OF

API Well No. 47-021-3408
State County Permit

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil Gas Liquid Injection Waste Disposal
(If "Gas", Production Underground storage Deep Shallow)

LOCATION: Elevation: 1027 Watershed: Little Kanawha River
District: Glenville County: Gilmer Quadrangle: Glenville

WELL OPERATOR Eastern American Energy Corporation DESIGNATED AGENT James C. Recht
Address P.O. Box N Address P.O. Box N
Glenville, West Virginia 26351 Glenville, West Virginia 26351

PERMITTED WORK: Drill Convert Drill deeper Redrill Fracture or stimulate
Plug off old formation Perforate new formation
Other physical change in well (specify) _____

PERMIT ISSUED ON October 20, 19 78

OIL & GAS INSPECTOR FOR THIS WORK:
Name Paul Goodnight
Address Smithville
West Virginia

(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED _____, 19 _____)

GEOLOGICAL TARGET FORMATION: Devonian Shale Depth 6500 feet
Depth of completed well, 5129 feet Rotary Cable Tools
Water strata depth: Fresh, 40 feet; salt, _____ feet.
Coal seam depths: 16'-19'; 360'-363' Is coal being mined in the area? NO
Work was commenced November 30, 19 78, and completed January 15, 19 79

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor	20"	--	--		X	0-20	-0-		Kinds
Fresh water	8 5/8	H 40	20 lb	X		0-413	413	125 SKS	
Coal									Sizes
Intermediate									
Production	4 1/2					0-5056	5056	175 SKS	Depths set
Tubing	1 1/2	J55	2.75	X		0-4552	4552		
Liners									Perforations:
									Top Bottom
									4754-----4910
									4573-----4575

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 4740--4920 feet
4566--4582 feet
Gas: Initial open flow, N/A Mcf/d Oil: Initial open flow, N/A Bbl/d
Final open flow, 630 Mcf/d Final open flow, -0- Bbl/d
Time of open flow between initial and final tests, 4 hours
Static rock pressure, 1800 psig (surface measurement) after 24 hours shut in
[If applicable due to multiple completion--]
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, _____ Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, _____ hours
Static rock pressure, _____ psig (surface measurement) after _____ hours shut in

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RM IV-35
(reverse)

18-783

TAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

RF: 1st Stage: 8-0.49 Holes @ 4910' (2), 4881' (2), 4859 (2), 4760', 4754.
2nd Stage: 8-0.39 Holes @ 4573-4575'

AC: 1st Stage: 310 BBLs H₂O, 10 Gal W-22, 10 Gal F-78, 10 Gal L-53, 200 lbs. J-266,
15000 lbs. 80/100 Sand, 15000 lbs. 20/40 Sand.
2nd Stage: 470 BBLs H₂O, 20 Gal F-78, 15 Gal W-22, 20 Gal L-53, 500 lbs. J-266,
30000 lbs. 80/100 Sand, 30000 lbs. 20/40 Sand.

WELL LOG

FORMATION	Color	Hard or Soft	1/7 Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Clay			0	5	
Sand & Shale			5	16	
Coal			16	19	
Sand			19	95	
Shale			95	103	
Sand			103	148	
Shale			148	162	
Sand & Shale			162	177	
Sand			177	188	
Red Rock			188	201	
Sand			201	205	
Sand & Shale			205	221	
Sand			221	229	
Red Rock			229	241	
Sand			241	248	
Sand & Shale			248	286	
Sand			286	291	
Sand & Shale			291	360	
Coal			360	363	
Sand & Shale			363	1606	E Log Top @ 1550
Little Lime			1606	1622	
Blue Monday			1622	1646	
Pencil Cave			1646	1657	
Big Lime			1657	1702	
Big Injun			1702	1806	
Sand & Shale			1806	1860	
Weir			1860	2006	
Shale			2006	4566	
Benson			4566	4582	
Shale			4582	4741	
Elk			4741	4916	
Shale			4916	5129	
TD			5129		

(Attach separate sheets to complete as necessary.)

Eastern American Energy Corporation
Well Operator

By John Mork
Its President

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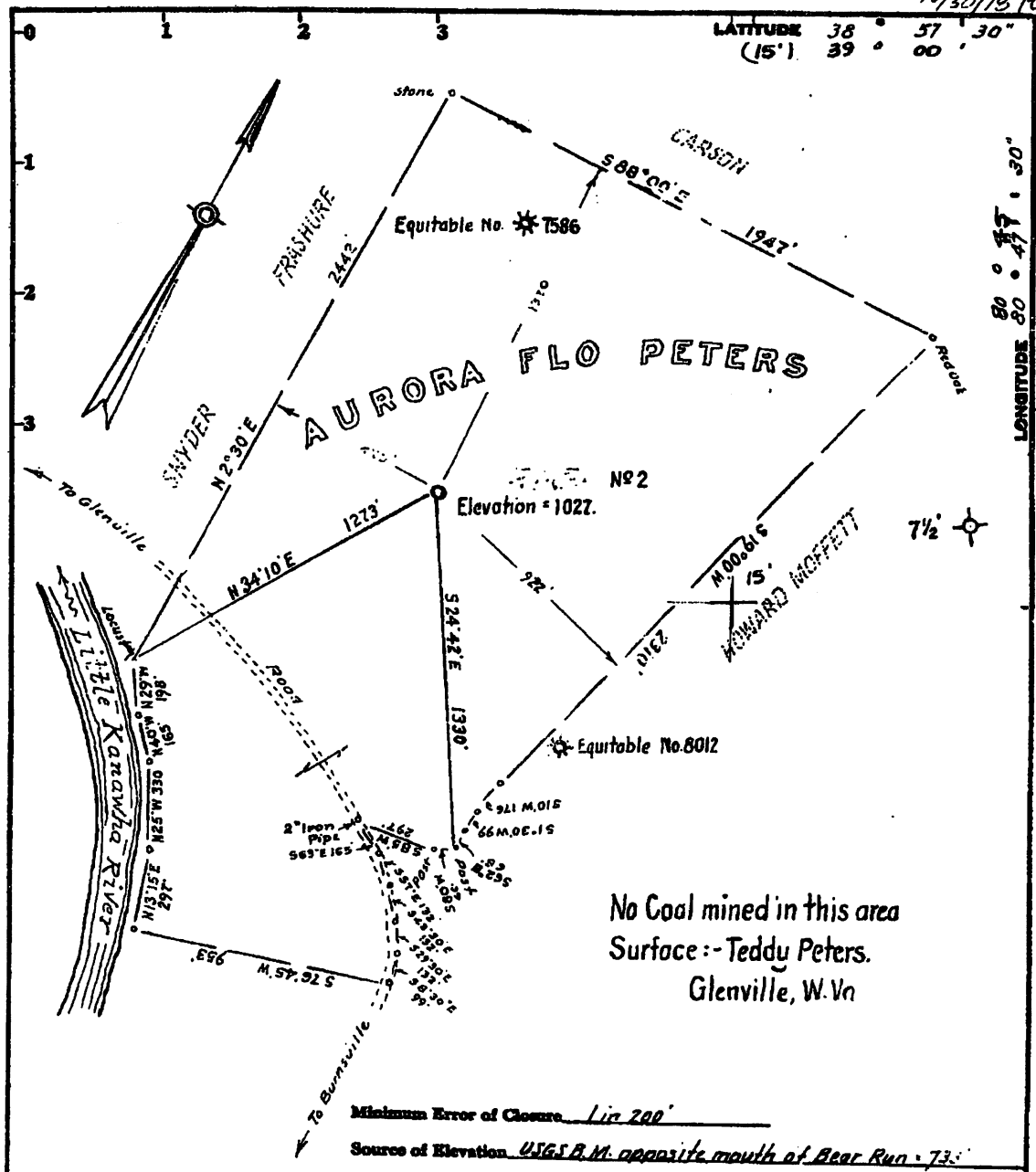
NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

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10/30/78 *RE*



No Coal mined in this area
Surface :- Teddy Peters.
Glenville, W. Va

Minimum Error of Closure 1 in 200'
Source of Elevation USGS B.M. opposite mouth of Bear Run - 73'

- Fracture.....
- New Location...
- Drill Deeper.....
- Abandonment.....

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.

Signed: *W. H. Hart*
Squares: N S E W

Map No. _____

Company EASTERN AMERICAN ENERGY
Pacific States Gas and Oil

Address Postoffice Box 67, Glenville, W. Va

Farm Aurora Flo Peters, Teddy Peters

Tract _____ Acres 103.5 Lease No. _____

Well (Farm) No. P.S. No 2 Serial No. _____

Elevation (Spirit Level) 1027

Quadrangle Glenville 7 1/2 - Glenville 15

County Gilmer District Glenville

Engineer W. H. Hart

Engineer's Registration No. 1227 LLS 200

File No. _____ Drawing No. _____

Date October 12, 1978 Scale 1" = 500'

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

WELL LOCATION MAP
FILE NO. GIL - 3408

+ Denotes location of well on United States Topographic Maps, scale 1 to 25,000, latitude and longitude lines being represented by border lines as shown.

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

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WW-4A
Revised 6-07

1) Date: February 18, 2019
2) Operator's Well Number
A.F. Peters #2
3) API Well No.: 47 - 021 - 03408

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>Lambert Fitzwater</u>	Name <u>N/A</u>
Address <u>1807 WV Hwy 5 E</u>	Address _____
<u>Glenville, WV 26351</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>1-304-932-6844</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.

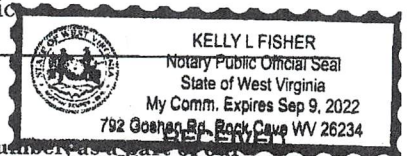
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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	<u>Ross & Wharton Gas Co. Inc.</u>	
By:	<u><i>Tuke Ross</i></u>	
Its:	<u>President</u>	RECEIVED
Address	<u>354 Morton Ave.</u>	Office of Oil and Gas
	<u>Buckhannon, WV 26201</u>	MAR 01 2019
Telephone	<u>1-304-472-4289</u>	

WV Department of Environmental Protection

Subscribed and sworn before me this 18th day of February, 2019
Kelly L. Fisher Notary Public
My Commission Expires September 9, 2022



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.

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41-021-03408P

WW-9
(5/16)

API Number 47 - 021 - 03408
Operator's Well No. _____

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) Little Kanawha River Quadrangle Glenville

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 _____)
- 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

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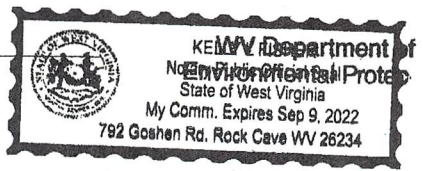
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Subscribed and sworn before me this 18th day of February, 2019

Jelly A. Fisher Notary Public

My commission expires September 9, 2022



Operator's Well No. _____

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: Doug Miller

Comments: _____

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Title: OOG Inspector

Date: 2-22-19

Field Reviewed? () Yes () No

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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): Little Kanawha River Quad: Glenville
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.

Little Kanawha River

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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.

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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

Signature: Mike Ross

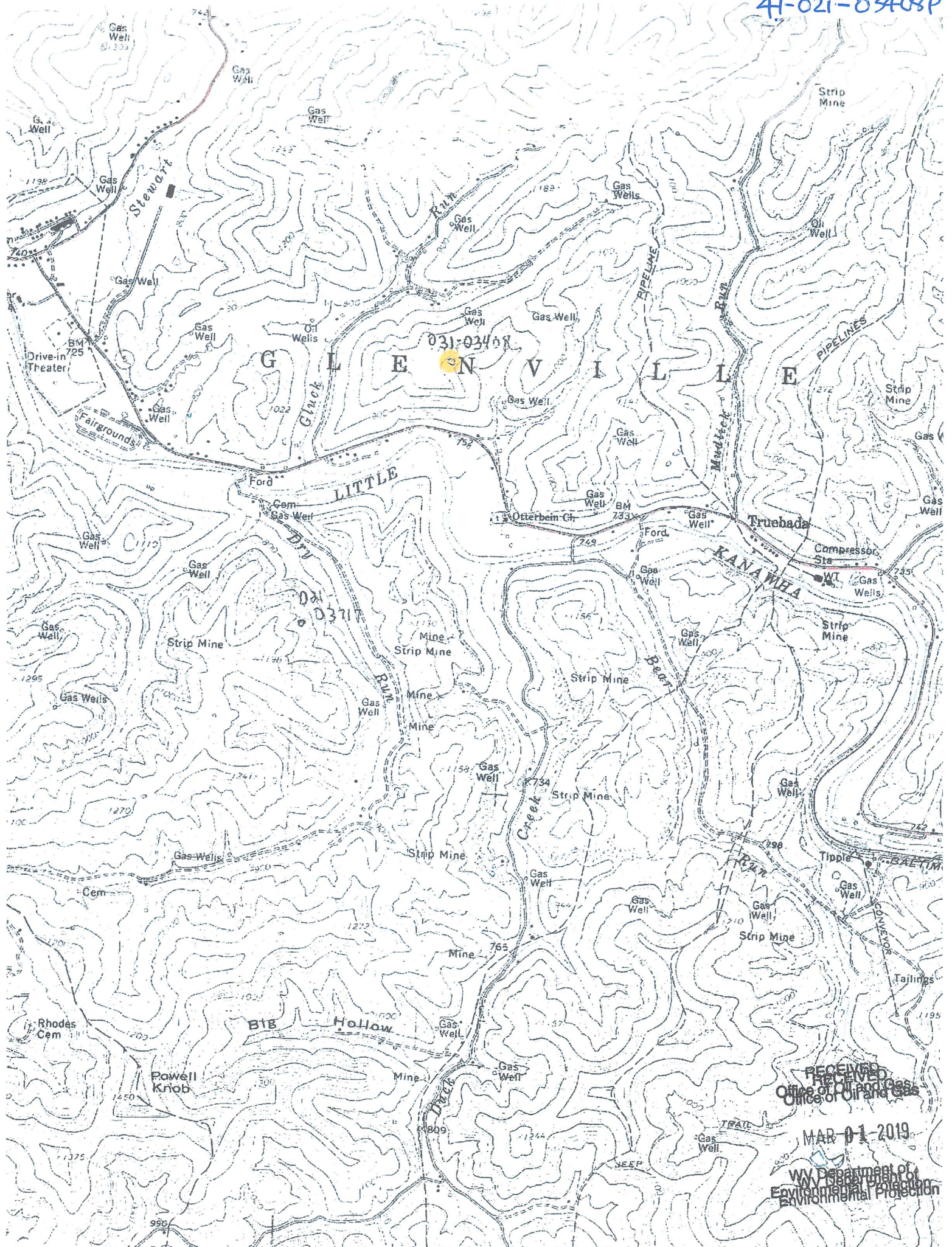
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WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-021-03408 WELL NO.: 2

FARM NAME: A.F. Peters

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Gilmer DISTRICT: Glenville

QUADRANGLE: Glenville

SURFACE OWNER: Lambert Fitzwater

ROYALTY OWNER: Teddy Peters

UTM GPS NORTHING: 4309823.6

UTM GPS EASTING: 517796.9 GPS ELEVATION: 1027'

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

President

Signature

Title

2-18-19

Date

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