



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, March 10, 2020
WELL WORK PLUGGING PERMIT
Vertical Plugging

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

BUCKHANNON, WV 262010000

Re: Permit approval for 2-44 (7)
47-007-00678-00-00

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: 2-44 (7)
Farm Name: BENDER
U.S. WELL NUMBER: 47-007-00678-00-00
Vertical Plugging
Date Issued: 3/10/2020

I

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.

1) Date February 18, 2020
2) Operator's
Well No. Henry F. Bender #7
3) API Well No. 47-007 - 00678

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 1120' Watershed Trace Run
District Otter County Braxton Quadrangle Cedarville

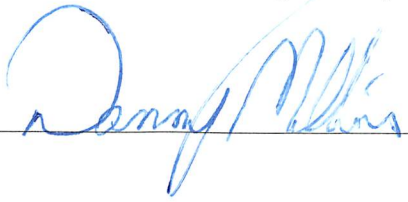
6) Well Operator Ross & Wharton Gas Co. Inc. 7) Designated Agent Mike Ross
Address 354 Morton Ave. Address P.O. Box 219
Buckhannon, WV 26201 Coalton, WV 26257

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 _____

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 1800' to TD (2224') Plug 100' above top perf
Set 100' cement plug across casing cut
Set 100' cement plug 1050' to 1300' (gas show, elevation plug, salt bearing strata)
Set cement plug 300' to surface, (10" casing plug, freshwater protection plug
and surface plug) Tag plug's as necessary, Set Monument with API number

RECEIVED
Office of Oil and Gas
MAR 02 2020
WV Department of
Environmental Protection

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

Work order approved by inspector  Date 2-20-2020

GPO #6066
OSW #34148
Lease #21855



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle Glenville S.E.
Permit No. BRA #678

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company JENNINGS PETROLEUM CORPORATION
Address 111 Kerr Ave., Bldg., Okla. City, Okla
Farm Henry F. Bender Acres 483
Location (waters) Trave Run
Well No. #7 JB-2 Elev. 1120 VA
District Otter County Braxton
The surface of tract is owned in fee by Lloyd Carter et al
Braxton County Address West Virginia
Mineral rights are owned by See Below
Address _____
Drilling commenced December 12, 1966
Drilling completed January 11, 1967
Date Shot _____ From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume N. T. Cu. Ft.
Rock Pressure N. T. lbs. hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) _____
WELL FRACTURED (DETAILS) Frac-d by Halliburton
RESULT AFTER TREATMENT (Initial open Flow or bbls.) 280,000
ROCK PRESSURE AFTER TREATMENT 450 HOURS 18
Fresh Water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Depth _____

| Casing and Tubing Size | Used in Drilling | Left in Well | Packers |
|------------------------|------------------|--------------|---------------------------|
| 16 | 20 | 20 | Kind of Packer _____ |
| 13 | 223 | 223 | Size of _____ |
| 10 3/4 | 878 | pulled | Depth set _____ |
| 8 5/8 | | | |
| 6 5/8 | | | |
| 5 3/16 | | | |
| 4 1/2 | | | |
| 3 | | | Perf. top. <u>2113</u> |
| 2 | | | Perf. bottom. <u>2116</u> |
| | | | Perf. top. <u>2144</u> |
| | | | Perf. bottom. <u>2146</u> |

Attach copy of cementing record.
CASING CEMENTED 2212 SIZE 4 1/2 No. Ft. 1/26/67 Date
Amount of cement used (bags) 61 sacks
Name of Service Co. Lawson Oil & Gas Well Cementing
COAL WAS ENCOUNTERED AT none FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth | Remarks |
|----------------|-------|--------------|------|--------|-------------------|-------|---------|
| Top Soil | | | 0 | 5 | | | |
| Clay | | | 5 | 25 | | | |
| Red. Rock | | | 25 | 30 | | | |
| Slate | | | 30 | 48 | | | |
| Sand | | | 48 | 100 | | | |
| Slate & Shells | | | 100 | 124 | | | |
| Red Rock | | | 124 | 337 | | | |
| Sand | | | 337 | 370 | | | |
| Slate | | | 370 | 409 | | | |
| Red Rock | | | 409 | 426 | | | |
| Slate & Shells | | | 426 | 464 | | | |
| Lime | | | 464 | 476 | | | |
| Slate | | | 476 | 520 | | | |
| Sand | | | 520 | 535 | | | |
| Slate & Shells | | | 535 | 638 | | | |
| Sand | | | 638 | 760 | | | |
| Slate | | | 760 | 775 | | | |
| Sand | | | 775 | 804 | | | |
| Slate | | | 804 | 820 | | | |
| Sand | | | 820 | 851 | | | |
| Red Rock | | | 851 | 854 | | | |
| Slate & Shells | | | 854 | 925 | | | |
| Sand | | | 925 | 1015 | | | |
| Slate & Shells | | | 1015 | 1090 | | | |
| Sand | | | 1090 | 1180 | | | |
| Slate & Shells | | | 1180 | 1215 | | | |
| Sand | | | 1215 | 1235 | | | |



WV Department of Environmental Protection
RECEIVED
Office of Oil and Gas
MAR 02 2020

| Formation | Color | Hard or Soft | Top / | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|--|--|--------------|--------------|--------------|-------------------|-------------|-----------------------|
| Slate & Shells Sand | | | 1235 1270 | 1270 1300 | Gas | 1270-1275 | |
| Slate & Shells Sand | | | 1300 1418 | 1418 1485 | | | |
| Slate & Shells Sand | | | 1485 1515 | 1515 1550 | | | |
| Slate & Shells Sand | | | 1550 1580 | 1580 1611 | | | |
| Slate & Shells Sand | | | 1611 1620 | 1620 1680 | Gas | 1645-1650 | |
| Slate | | | 1680 | 1711 | | | Maxton 1620 to 1655 |
| Red Rock | | | 1711 | 1745 | | | |
| Slate & Shells Sand | | | 1745 | 1845 | | | |
| Red Rock | | | 1845 | 1850 | | | |
| Lime Sand | | | 1850 | 1880 | | | |
| Lime Sand | | | 1880 | 1903 | | | |
| Lime Sand | | | 1903 | 1933 | | | Little Lime 1916-1930 |
| Lime Sand | | | 1933 | 2030 | | | Big Lime 1930-2030 |
| Slate | | | 2030 | 2175 | | | Big Injun 2106 - 2156 |
| Slate | | | 2175 | 2190 | | | Keener 2030-2106 |
| Sand | | | 2190 | 2224 | | | |
| Total Depth | | | | 2224 | | | |
| Logs by Allegheny Nuclear Survey G/N D/C Temp Perf | | | | | | | |
| 1/26/67 | Ran and Cemented 2212 feet of 4 1/2 J 55 Casing 9.5# Weight. | | | | | | |
| | Using 61 sacks Cement (Squeeze job) | | | | | | |
| 1/13/67 | Ran and cemented 2224' of 4 1/2-J55-9.5# weight Casing. | | | | | | |
| | Used Float collar 2 Centralizers | | | | | | |
| | Mixed Circulation Material--Pumped 600 bbls. water. | | | | | | |
| | cemented casing 16' off bottom (Well would not circulate) | | | | | | |
| | Used 75 sacks H. E. Cement 1 4 1/2 x 6 Nipple & Collar | | | | | | |
| | 4 sacks Aquagel 4 more sacks Aquagel | | | | | | |
| | 4 sacks Gez Flake 1 sack Flo Seal | | | | | | |
| 2/3/67 | Frac-d by Halliburton Water Frac 12--250bbl. tanks. | | | | | | |
| | Used 80,000# of 20/40 Sand | | | | | | |
| | 41,000 10/20 Sand | | | | | | |
| | 25 gallons of MorFlo | | | | | | |
| | 550 gallons of 15% Acid | | | | | | |
| | Pressures: PSI | | | | | | |
| | Breakdown: 2000 Maximum 3600 | | | | | | |
| | Minimum 1200 Displ. 1400 | | | | | | |
| | Shut In Instant 200 5 Minutes 100 | | | | | | |
| | Perforations: 2113-2116 6 Jets | | | | | | |
| | 2144 2146 6 Jets | | | | | | |
| Coal and Mineral Owners: | Mrs. Erma Smith, 1405 Seminole Trail, Waycross, Ga. | | | | | | |
| Mineral Owners: | Dana S. Engle Gassaway, W. Va | | | | | | |
| Mineral Owners: | Wm. Carl Engle Gassaway, W. Va | | | | | | |
| Mineral Owners: | Merle Yerkey 115 Fayette St., Buchannon, W. Va | | | | | | |

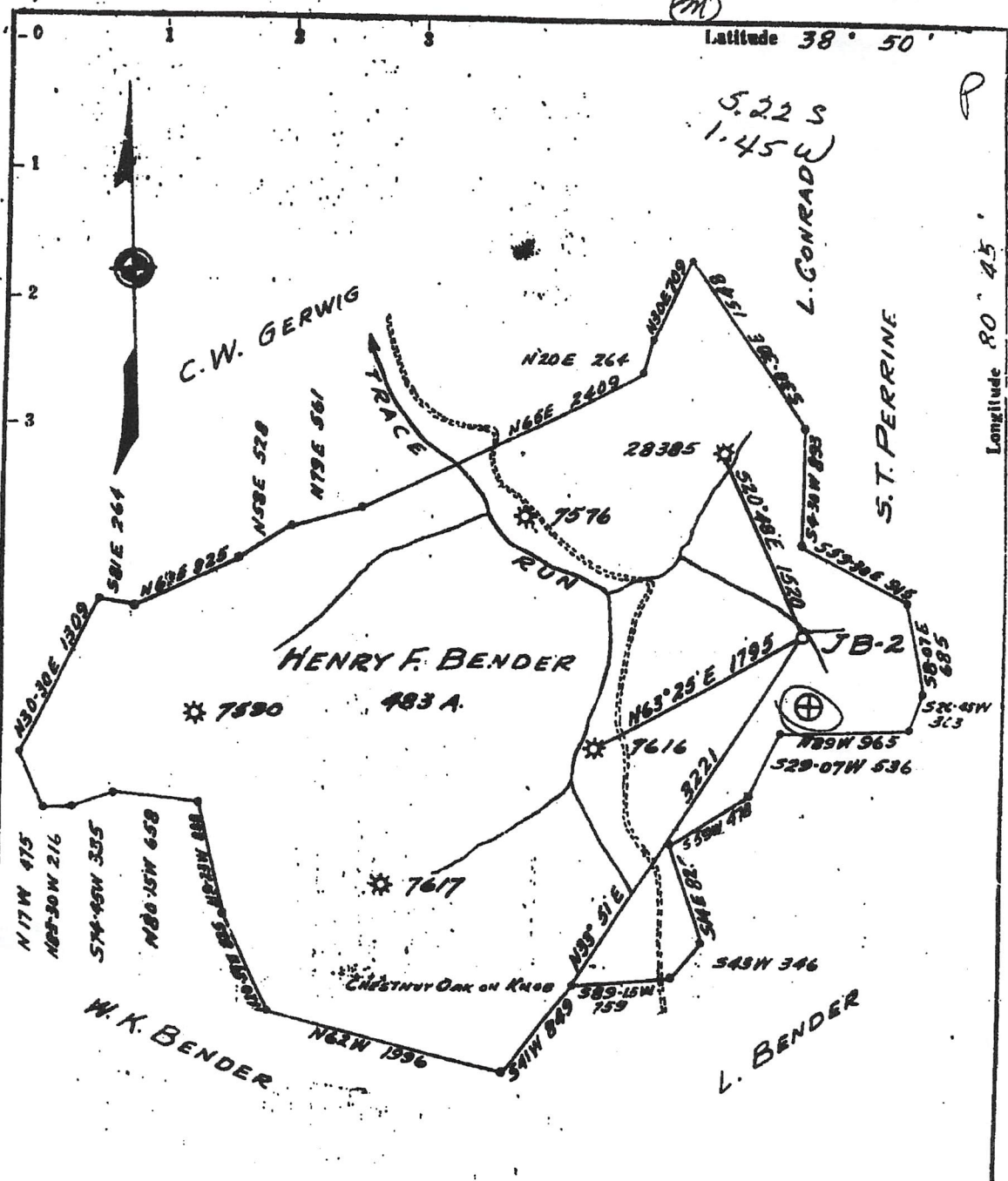
Gas: Ethel M. Carter
 John C. Bender
 Opal V. Noyes
 Ruth Northup
 c/o of Opal V. Noyes
 217 23rd Street, Dunbar, W. Va.

Date February 27, 1967

APPROVED JENNINGS PETROLEUM CORPORATION
A. M. van Flick (Title)
 By A. M. van FLICK, ENGINEER
 (Title)

RECEIVED
 Office of Oil and Gas
 WV Department of
 Environmental Protection
 MAR 02 2020

(M)



Latitude 38° 50'

Longitude 80° 45'

- Fracture...
- Bedrock...
- New Location...
- Deeper...
- Abandonment...

Approx of Elevation EQUIVALENT OF WELL NO. 7616
 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 mines laws of West Virginia.
 Minimum accuracy, one part in 500

Company JENNINGS PETROLEUM CORP
 Address 205 14th Street, Parkersburg, West Virginia
 Farm HENRY F. BENDER
 Tract Acres 482.14
 Well (Farm) No. 1 Serial No. JPB
 Elevation (Spot Level) 1125 M
 Quadrangle GLENNVILLE 9540
 County BRAKTON District OTTER
 Engineer's Registration No. 2222
 File No. AZ 6066 Drilling Well
 Date Nov 25 1926 Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. BRW-678
678-6-6

+ 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.

Environmental Department

MAR 02 2020

RECEIVED
Office of Oil and Gas

WW-4A
Revised 6-07

1) Date: February 18, 2020
2) Operator's Well Number
Henry F. Bender #7

3) API Well No.: 47 - 007 - 00678

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>Wetzel McCoy and/or Linda&Michael</u> | Name <u>N/A</u> |
| Address <u>948 Trace Run</u> | Address _____ |
| <u>Gassaway, WV 26624</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</u> | Name <u>N/A</u> |
| <u>Buckhannon, WV 26201</u> | Address _____ |
| Telephone <u>1-304-932-6844</u> | _____ |

RECEIVED
Office of Oil and Gas
MAR 02 2020
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 20th day of February, 2020
Brenda K Bush 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.

WW-9
(5/16)

API Number 47 - 007 - 00678
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) Trace Run Quadrangle Cedarville

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

WELL EFFLUENT WILL BE CONTAINED IN TANKS BEFORE DISPOSING OF OFF-SITE.

If so, please describe anticipated pit waste: _____

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

JMM

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

RECEIVED
Office of Oil and Gas

MAR 02 2020

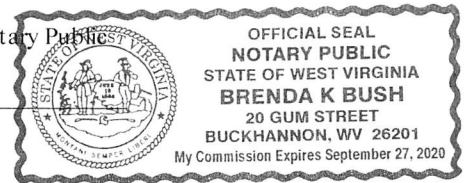
WV Department of
Environmental Protection

Subscribed and sworn before me this 20th day of February, 2020

Brenda K Bush

Notary Public

My commission expires September 27, 2020



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 |
| 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: Danny Miller

Comments: _____

RECEIVED
Office of Oil and Gas
MAR 02 2020
WV Department of
Environmental Protection

Title: ODS Inspector

Date: 2-20-2020

Field Reviewed? () Yes () No

N/A

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): Trave Run Quad: Cedarville
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.

Trave Run

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

N/A

RECEIVED
Office of Oil and Gas
MAR 02 2020
WV Department of
Environmental Protection

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

N/A

WW-9- GPP
Rev. 5/16

Page 2 of 2
API Number 47 - 007 - 00678
Operator's Well No. _____

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

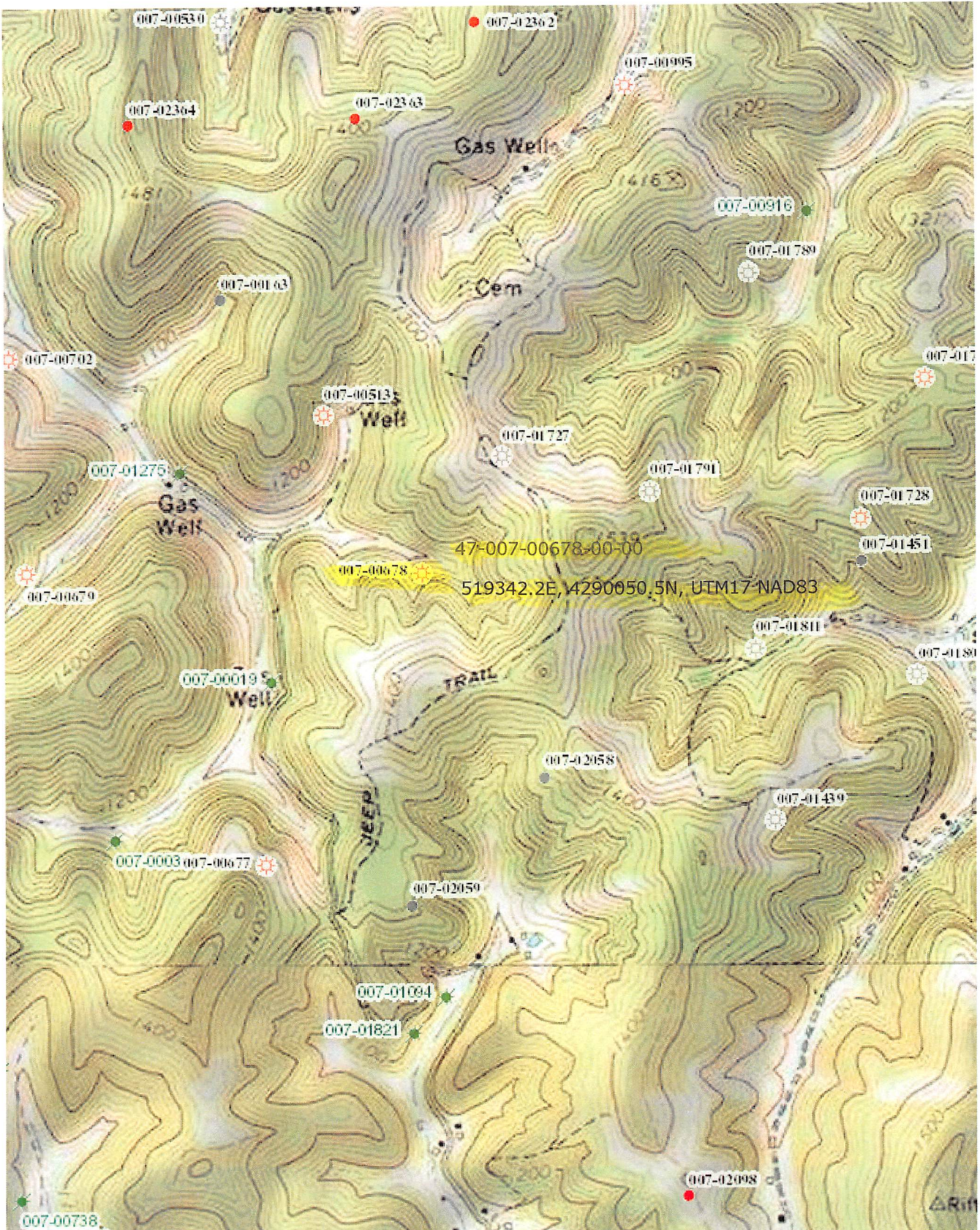
RECEIVED
Office of Oil and Gas

MAR 02 2020

WV Department of
Environmental Protection

Signature: Mike Ross

Date: February 20, 2020



47-007-00678P



WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-007-00678 WELL NO.: 7

FARM NAME: Henry F. Bender

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Braxton DISTRICT: Otter

QUADRANGLE: Cedarville

SURFACE OWNER: Wetzel McCoy and/or Linda&Michael

ROYALTY OWNER: _____

UTM GPS NORTHING: 4290050.5

UTM GPS EASTING: 519342.2 GPS ELEVATION: 1120'

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

Feb. 20, 2020
Date

RECEIVED
Office of Oil and Gas

MAR 02 2020

WV Department of
Environmental Protection