



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

Friday, November 2, 2018
WELL WORK PLUGGING PERMIT
Vertical Plugging

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

BUCKHANNON, WV 262010000

Re: Permit approval for 2-S-85
47-015-01775-00-00

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

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over a faint, larger version of the signature.

Operator's Well Number: 2-S-85
Farm Name: BALL-HARDMAN
U.S. WELL NUMBER: 47-015-01775-00-00
Vertical Plugging
Date Issued: 11/2/2018

Promoting a healthy environment.

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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 August 29, 2018
2) Operator's
Well No. Hardman #2
3) API Well No. 47-015 - 1775

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 1162' Watershed Dawson Fork
District Otter County Clay Quadrangle Chloe

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 Jeremy James
Address P.O. Box 36
Clendenin, WV 25045
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 1850' to TD (2220') Plug 100' above top perf
- Set 100' cement plug across casing cut
- Set cement plug 1100' to 1200' elevation plug
- Set cement plug 800' to 900' (salt bearing strata)
- Set cement plug 270' 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 10-3-18



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Quadrangle Otter
Permit No. 47-015-1775

Rotary X Oil _____
Cable _____ Gas X _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company Stonestreet Lands Company
Address P.O. Box 350, Spencer, WV 25276
Farm Hardman Acres 247
Location (waters) Dawson Fork
Well No. 2-S-85 Elev. 1162'
District Otter County Clay
The surface of tract is owned in fee by V. Boggs
Address _____
Mineral rights are owned by George W. Ball, et al
Address _____
Drilling Commenced 5-12-80
Drilling Completed 5-21-80
Initial open flow Not tested cu. ft. 0 bbls.
Final production 860,000 cu. ft. per day 0 bbls.
Well open 6 hrs. before test 560 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			60 sks.
Cond. 13-10"			
9 5/8			70 sks.
8 5/8	220	220	
7			
5 1/2			
4 1/2		2220	
3			
2			
Liners Used			

Well treatment details:
500 gal. 15% HCL, 30,000 lbs 20/40 sand
15 gal F-52, 15 gal free flo C 300 lbs J-266
Attach copy of cementing record.

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Coal was encountered at None Feet _____ Inches _____
Fresh water 66 Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Blue Monday Depth 1996 to 2172

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Clay			0	9		
Sand			9	264		
Shale			264	511		
Sand			511	616		
Slate & Shale			616	888		
Red Rock			888	935		
Shale			935	1073		
Sand			1073	1300		
Sandy Shale			1300	1474		
Shaley Sand			1474	1487		
Shale			1487	1520		
Shale & Slate			1520	1584		
Salt Sand			1584	1645		
Shale			1645	1670		
Salt Sand			1670	1712		
Shale			1712	1728		
Salt Sand			1728	1762		
Shale			1762	1770		
Sandy Shale			1770	1818		
Salt Sand			1818	1878		
Shale			1878	1938		
Maxton			1938	1959		

* Indicates Electric Log tops in the remarks section.

(over)

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Little Lime			1959	1993		
Blue Monday			1993	2025		
Pencil Cave			2025	2030		
Big Lime			2030	2161		
Big Injun			2161	2208		
Shale			2208	2254	TD	

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Date May 9 1980
 APPROVED [Signature] Owner
 By [Signature] (Title)

47-015-017758

WW-4A
Revised 6-07

1) Date: August 29, 2018
2) Operator's Well Number
Hardman #2
3) API Well No.: 47 - 015 - 1775

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 Vernon G. Boggs or G. V. Boggs, Jr.
Address 146 E. Main Street
Luray, VA 22835
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Jeremy James
Address P.O. Box 36
Clendenin, WV 25045
Telephone 1-304-951-2596

5) (a) Coal Operator
Name N/A
Address _____
(b) Coal Owner(s) with Declaration
Name N/A
Address _____
(c) Coal Lessee with Declaration
Name N/A
Address _____

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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.

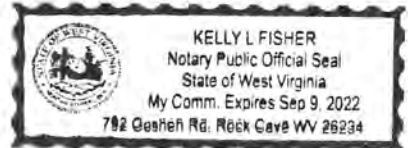
Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental 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: [Signature]
Its: _____
Address 354 Morton Ave.
Buckhannon, WV 26201
Telephone 1-304-472-4289

Subscribed and sworn before me this 20th day of September, 2018
[Signature] 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.



47-015-01775P

WW-9
(5/16)

API Number 47 - 015 - 1775
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) _____ Quadrangle _____

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 _____)

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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*

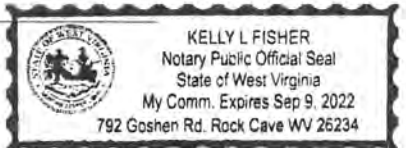
Company Official (Typed Name) Mike Ross

Company Official Title President

Subscribed and sworn before me this 20TH day of September, 20 18

Kelly L. Fisher Notary Public

My commission expires September 9, 2022



47-015-01775P

Form WW-9

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
Contractor's Mix		Contractor's Mix	
Fescue	30	Fescue	30

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: Jeremy James 

Comments: _____

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Title: inspector OOG

Date: 10-3-18

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): Dawson Fork Quad: Chloe
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

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

Dawson Fork

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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

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 provide direction on how to prevent groundwater contamination.

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N/A

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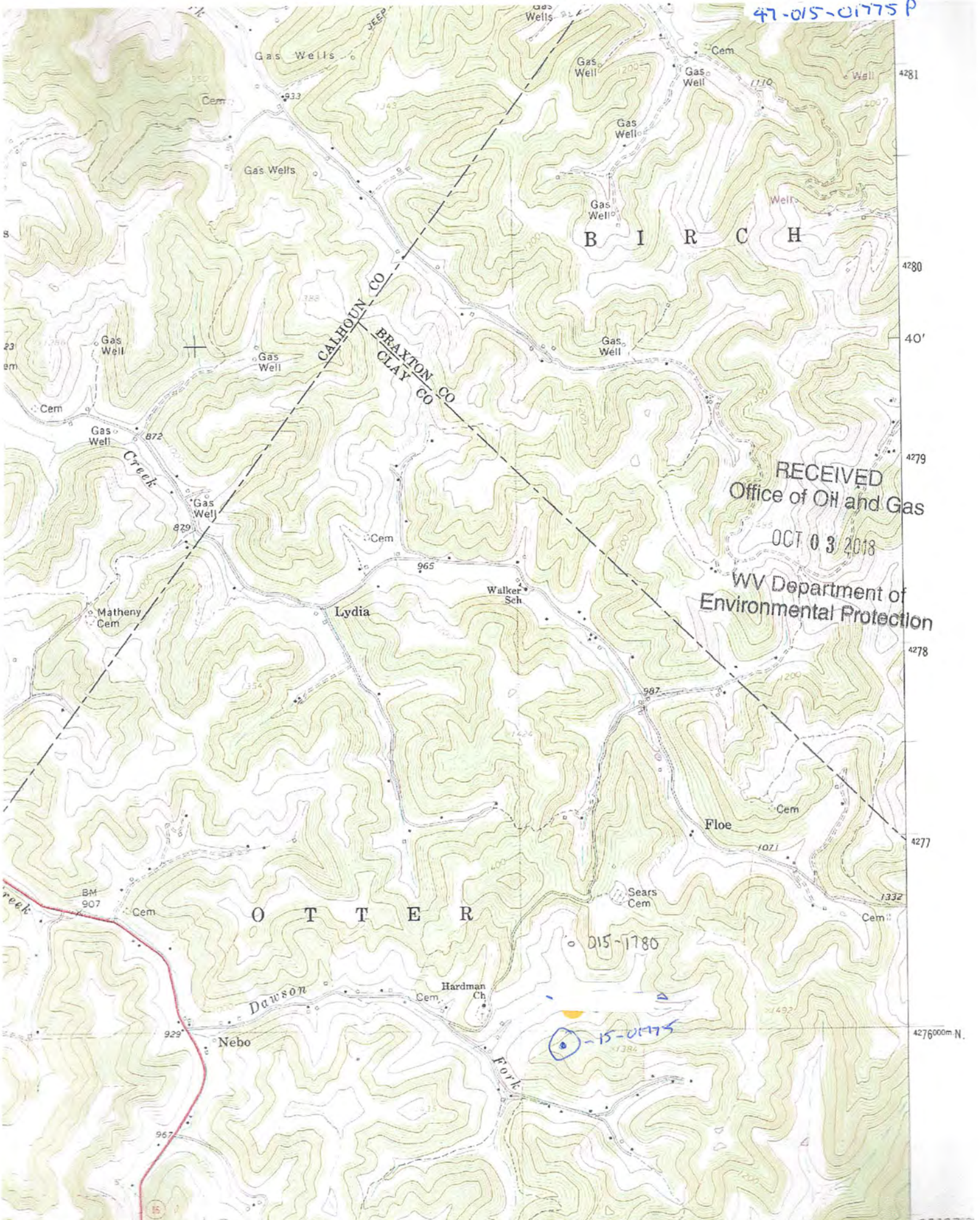
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

N/A

Signature: Mike Ross

Date: 9-20-18

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015-1780
 15-01775

WW-7
8-30-06



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

API: 47-015-01775 WELL NO.: #2

FARM NAME: Hardman

RESPONSIBLE PARTY NAME: Mike Ross *OPERATOR*
ROSS AND WHARTON GAS COMPANY, INC.

COUNTY: Clay DISTRICT: Otter

QUADRANGLE: Chloe

SURFACE OWNER: Vernon G. Boggs & G.V. Boggs, Jr.

ROYALTY OWNER: Mike Ross

UTM GPS NORTHING: 4276121.9

UTM GPS EASTING: 498243.8 GPS ELEVATION: 1162'

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- 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

9-20-18
Date

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