



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

Monday, April 13, 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
47-041-00351-00-00

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: FRANCIS, W. A.
U.S. WELL NUMBER: 47-041-00351-00-00
Vertical Plugging
Date Issued: 4/13/2020

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

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.

P

WW-4B
Rev. 2/01

1) Date February 18, 2020
2) Operator's
Well No. W.A. Francis #2
3) API Well No. 47-041 - 00351 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 1284' Watershed Skin Creek
District Skin Creek County Lewis Quadrangle Roanoke

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 Barry Stollings
Address 28 Conifer Dr.
Bridgeport, WV 26330
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 4300' to TD (4414') plug 100' above top perf WOC, TAG & ADD CEMENT IF NEEDED.

Set 100' cement plug across casing cut

Set cement plug 2300' to 2400' gas show,

Set cement plug 1600' to 1700' 8" casing plug

THIS STRING MAY NOT HAVE BEEN CEMENTED IF NOT MAY CUT & PULL.

Set cement plug 100' to surface (surface plug).

Tag plug's as necessary, Set monument with API number

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

WV Department of
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Work order approved by inspector Barry Stollings Date 2-27-20

41-041-00351P

Form OG-10



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

P. Case

Quadrangle Skin Creek
Permit No. 351 DD

WELL RECORD

Oil or Gas Well Gas

Company Talkington-Brady, Inc.
Address Box 371, Buckhannon, W. Va.
Farm W.A. Francis Acres 196
Location (waters) Skin Creek
Well No. 2 Elev. 1683'
District Skin Creek County Lewis
The surface of tract is owned in fee by W.A. Francis
Address R#2, Roanoke, W. Va.
Mineral rights are owned by W.A. Francis
Address R#2, Roanoke, W. Va.

Casing and Tubing	Used in Drilling	Left in Well	Packer
Size			
16			Kind of Packer
13	21	21	
10			Size of
8 1/4	1680	1680	
6 3/4			Depth set
5 3/16			
4 1/4		4474	
3			Perf. top 4406
2			Perf. bottom 4410
Liners Used			Perf. top
			Perf. bottom

Drilling commenced November 1966
Drilling completed January 18, 1967
Date Shot From To
Wch
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls. 1st 24 hrs.

Attach copy of cementing record.
CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date
Amount of cement used (bags) _____
Name of Service Co. _____
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

WELL ACIDIZED (DETAILS) _____
WELL FRACTURED (DETAILS) 953 Bbbs. water, 184,000 cu. ft. nitrogen, 60,000 lbs. sand
RESULT AFTER TREATMENT (Initial open flow or bbls.) 834,000 cu. ft., 25/10 water thru 4 1/2"
ROCK PRESSURE AFTER TREATMENT 1200-48 HOURS
Fresh Water --- Feet --- Salt Water None Feet
Producing Sand Benson Depth 4400-4414

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Slate			2134	2150			
Red Lime			2150	2162			
Slate			2162	2206			
Lime			2206	2222			
Slate			2222	2325			
Sand			2325	2345	Gas	15/10 water thru 2"	165M
Slate			2345	2420			
Lime			2420	2460			
Sand			2460	2487			
Slate & Shells			2487	4400			
Benson Sand			4400	4414	Gas	4/10 water thru 2"	84 M

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47-041-00351P



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 5

Quadrangle Scranford

Permit No. LEW-351

WELL RECORD

Oil or Gas Well Gas
(NIND)

Company John E Lydle, & Harry Wines
Address 703 Red Oak St., Chas. 2, W. Va.
Farm W. A. Francis Acres 204
Location (waters) Skin Creek
Well No. 2 Elev. 1284
District Skin Creek County Lewis
The surface of tract is owned in fee by Same
Address Roanoke, W. Va.
Mineral rights are owned by Same
Address Same

Drilling commenced September 19, 1958
Drilling completed October 29, 1958
Date Shot 10-27-58 From 2122' To 2130'
With Nitro.
Open Flow /10ths Water in Inch
 /10ths Merc. in Inch
Volume 1,150,000 Cu. Ft.
Rock Pressure 410 lbs. 13 hrs.
Oil None bbls., 1st 24 hrs.
WELL ACIDIZED NO
WELL FRACTURED No

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13	21'6"	21'6"	
10	459'	None	Size of
8 1/2	1680'	1680'	
6 1/2			Depth set
5 3/16			
3			Perf. top
2	2140'	2140'	Perf. bottom
Linera Used			Perf. top
			Perf. bottom

CASING CEMENTED	SIZE	No. Ft.	Date
COAL WAS ENCOUNTERED AT			
	FEET	INCHES	
	FEET	INCHES	FEET INCHES
	FEET	INCHES	FEET INCHES

RESULT AFTER TREATMENT

ROCK PRESSURE AFTER TREATMENT

Fresh Water Feet Salt Water Feet

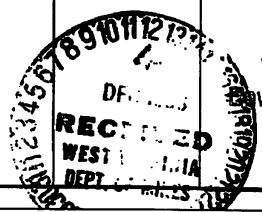
Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	13			
Shale			13	40			
Red Rock			40	80			
Slate			80	110			
Red Rock			110	169			
Shale			169	210			
Slate			210	247			
Shale			247	285			
Slate			285	320			
Sand Rock			320	345			
Slate & Shells			345	435			
Iron			435	469			
Slate			469	485			
Slate			485	542			
Slate			542	548			
Sand			548	569			
Slate			569	572			
Slate			572	740			
Slate			740	745			
Sand			745	760			
Shale			760	775			
Lime			775	800			
Sand			800	844			
Slate			844	868			
Sand			868	980			
Slate			980	1000			

742-748

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1958 OCT 29

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Environmental Protection



(over)

Formation	Color	Hard or Soft	Top 5'	Bottom	Oil, Gas or Water	Depth Found	Remarks
Line			1000	1025			
Slate			1025	1046			
Line			1046	1061			
Sand			1061	1124			
Slate			1124	1136			
Sand			1136	1202			
Slate			1202	1245			
Sand			1245	1382			
Slate			1382	1450			
Red Rock			1450	1527			
Line			1527	1546			
Red Rock			1546	1596			
Maroon Sand			1596	1606			
Red Rock			1606	1623			
Little Line			1623	1635			
Pencil Cave			1635	1663			
Big Line			1663	1877			
Injun Sand			1877	1916			
Slate & Shells			1916	2008			
Line			2008	2050			
Sand			2050	2067			
Slate & Shells			2067	2120			
Sand			2120	2134			
Slate							

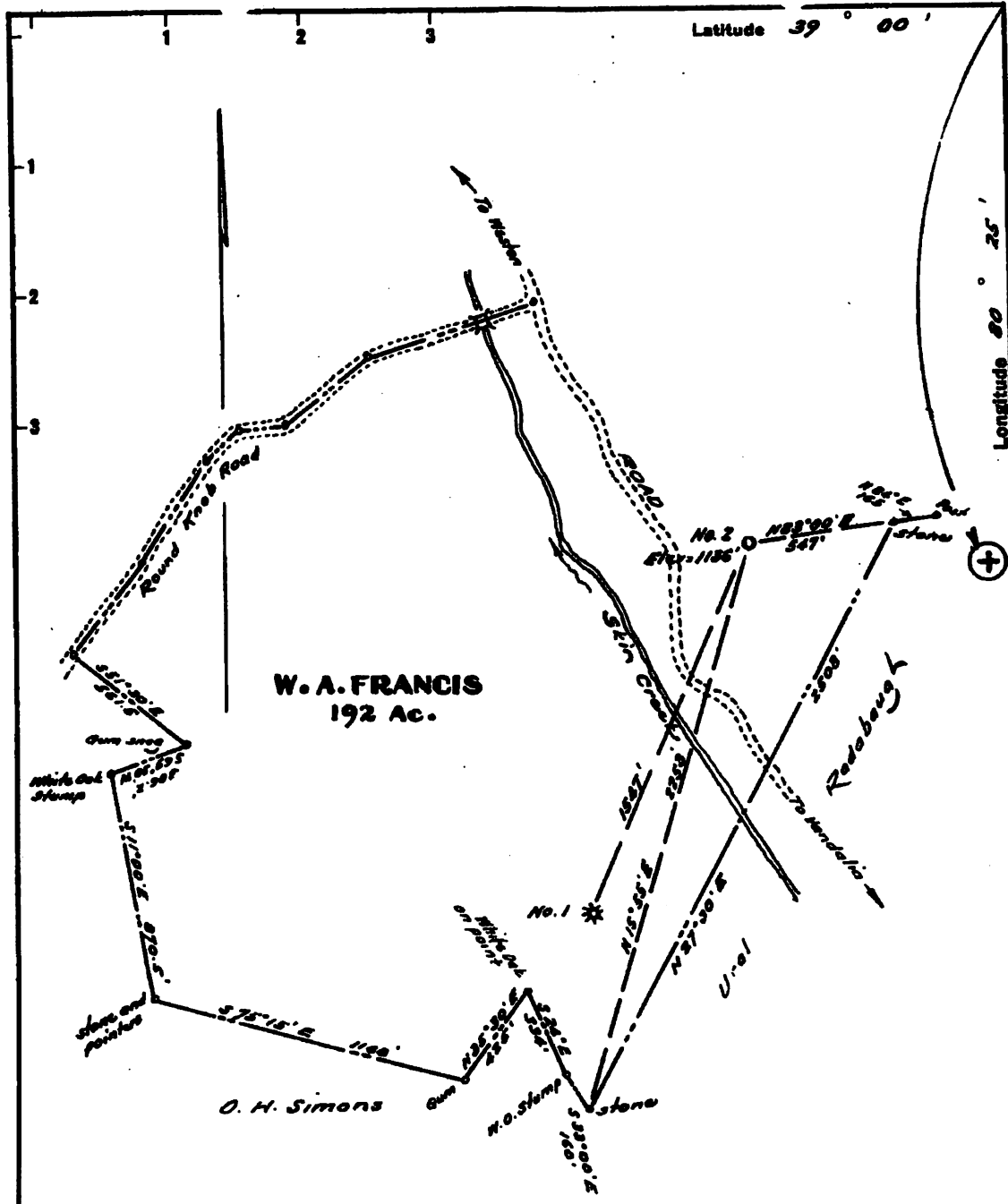
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Date: 12/10

APPROVED

By: Henry C. Curran
(Title)

WV Department of
Environmental Protection
Owner



New Location *15-11-66*
 Brought Deeper
 Abandonment *1-18-66*

Fee ownership is vested in W. A. Francis whose postoffice address is Route 2, Roanoke, W. Va.

Company JOHN E. LYDLE
 Address 702 Red Oak St. Charleston, W. Va.
 Farm W. A. Francis
 Tract _____ Acres 192 Lease No. _____
 Well (Farm) No. Two Serial No. _____
 Elevation (Spirit Level) 1126'
 Quadrangle Crawford
 County Lewis District Skin Creek
 Engineer Willie Hart
 Engineer's Registration No. 1221
 File No. _____ Drawing No. _____
 Date April, 1958 Scale 1" = 500'

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

WELL LOCATION MAP

FILE NO. LEW-351-00

PLUGGING CANCELED

+ 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.

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 WV Department of Environmental Protection

WW-4A
Revised 6-07

1) Date: February 18, 2020
2) Operator's Well Number
W.A. Francis #2
3) API Well No.: 47 - 041 - 00351

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

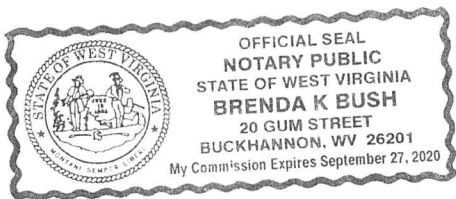
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>US Army Corps of Engineers Stonewall Jackson Lake</u>	Name <u>N/A</u>
Address <u>Attn: Jeff Toler 1012 Skin Creek Road</u>	Address _____
<u>Weston, WV 26452</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Barry Stollings</u>	(c) Coal Lessee with Declaration
Address <u>28 Conifer Dr.</u>	Name <u>N/A</u>
<u>Bridgeport, WV 26330</u>	Address _____
Telephone <u>1-304-552-4194</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 Ross & Wharton Gas Company Inc.
 By: [Signature]
 Its: President
 Address 354 Morton Ave.
Buckhannon, WV 26201
 Telephone 1-304-472-4289

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Office of Oil and Gas

Subscribed and sworn before me this 26th day of February, 2020
[Signature] Notary Public
 My Commission Expires September 27, 2020

MAR 09 2020

Oil and Gas Privacy Notice

WV Department of
Environmental Protection

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 - 041 - 00351
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 Company Inc. OP Code 306580

Watershed (HUC 10) Skin Creek Quadrangle Roanoke

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 OFFSITE.

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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Subscribed and sworn before me this 26th day of February
Brenda K Bush

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 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: Bany Stiller

Comments: _____

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WV Department of
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Title: inspector Date: 2-27-20

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 Company Inc.

Watershed (HUC 10): Skin Creek Quad: Roanoke

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.

Skin Creek

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

N/A

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WV Department of
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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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Environmental Protection

Signature: Mike Ross

Date: February 26, 2020

47-044-00351P



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WV Department of
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(ADRIAN)

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-041-00351 WELL NO.: 2

FARM NAME: W.A. Francis

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Lewis DISTRICT: Skin Creek

QUADRANGLE: Roanoke

SURFACE OWNER: W.A. Francis

ROYALTY OWNER: US Army Corps of Engineers Stonewall Jackson Lake

UTM GPS NORTHING: 4310590.7

UTM GPS EASTING: 550599.4 GPS ELEVATION: 1284'

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

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MAR 09 2020
WV Department of
Environmental Protection
Feb. 26, 2020
Date