



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

Wednesday, May 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 1
47-041-01238-00-00

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: 1
Farm Name: CLARKE, F. A., ETAL
U.S. WELL NUMBER: 47-041-01238-00-00
Vertical Plugging
Date Issued: 5/12/2020

Promoting a healthy environment.

I

47-041-01238P

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.

5/11/2020
FOR JACOB TO
ISSUE
6 APPLICATIONS
JEFF McLAUGHLIN

1) Date April 13, 2020
2) Operator's
Well No. F.A. Clark #1
3) API Well No. 47-041 - 01238 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 1254' Watershed Black Lick Run
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 (4491')
Set 100' cement plug across casing cut
Set cement plug 2450' to 2550' Gas show, Set cement plug 1700' to 1800' Big Lime
Set cement plug 1100' to 1250' elevation plug (salt bearing strata) and 8" casing plug
SET CEMENT PLUG FROM 300' TO 200' ACROSS 10" CASING SEAT. GWA
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.

Work order approved by inspector Barry Stollings Date 4-15-20



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Crawford S.W.

Permit No. LEW-1238

WELL RECORD

Oil or Gas Well Gas

Company <u>Union Drilling, Inc.</u>		Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>Box 281 Washington, Pa.</u>		Size			Kind of Packer
Farm <u>F.A. Clark</u> Acres <u>59</u>		16			
Location (waters)		13			
Well No. <u>76-E</u>	Elev. <u>1254</u>	10	<u>253</u>	<u>253</u>	Size of
District <u>Skin Creek</u>	County <u>Lewis</u>	8 3/4	<u>1150</u>	<u>1150</u>	Depth set
The surface of tract is owned in fee by <u>Audra B. Clark</u>		7 1/2	<u>4529</u>	<u>4529</u>	
Box <u>273 - RD#3</u> Address <u>Weston, W. Va.</u>		5 3/16			Perf. top <u>4442</u>
Mineral rights are owned by <u>Same</u>		3			Perf. bottom <u>4447</u>
Address		2			Perf. top
Drilling commenced <u>11-1-63</u>		Liners Used			Perf. bottom
Drilling completed <u>2-28-64</u>					
Date Shot	From				
With	To				
Open Flow <u>31/10ths Water in 2" Plate</u> Inch					
/10ths Merc. in	Inch				
Volume <u>175,000</u> Cu. Ft.					
Rock Pressure	lbs.				
Oil	bbis., 1st 24 hrs.				
WELL ACIDIZED					
WELL FRACTURED <u>3-5-64</u>	<u>Benson 50,232</u> gals of jelled water <u>96,000#</u>				

CASING CEMENTED 1 1/2" SIZE 857 No. Ft. 2-29-64 Date

175 lbs cement; 14 lbs. of jelled water

COAL WAS ENCOUNTERED AT 100 FEET INCHES

FEET INCHES FEET INCHES

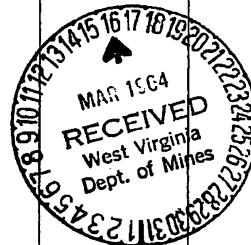
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT 3,000,000

ROCK PRESSURE AFTER TREATMENT 2000 # 12 hrs.

Fresh Water 829 Feet Salt Water 829 Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	3			
Clay			3	45			
Slate			45	55			
Red rock			55	145			
Slate			145	170			
Red rock			170	224			
Slate			224	290			
Lime			290	330			
Slate			330	370			
Red rock			370	385			
Sand			385	399			
Red rock			399	405			
Lime			405	492			
Slate			492	504			
Sand			504	620			
Lime			620	765			
Sand			765	790			
Lime			790	825			
Sand			825	914			
Lime			914	965			
Sand			965	1015			
Lime			1015	1101			
Sand			1101	1130			
Lime			1130	1170			
Sand			1170	1210			
Lime			1210	1300			
Sand			1300	1345			
Lime			1345	1428			
Slate			1428	1435			
Red rock			1435	1560			



Water @ 829 hole full

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Formation	Color	Hard or Soft	Top 6	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime			1560	1590			
Red rock			1590	1646			
Slate			1646	1700			
Big Lime			1700	1795			
Ingun Sand			1795	1894			
Lime			1894	2210			
Red lime			2240	2290			
Sand			2290	2390			
S. & S.			2390	2471	Gas 7515	61,000	
Sand			2471	2538			
S. & S.			2538	4438	Gas 4410	175,000	31/10 thru 2"
Penson Sand			4438	4491			
Lime		T.D.	4491				

POOR COPY

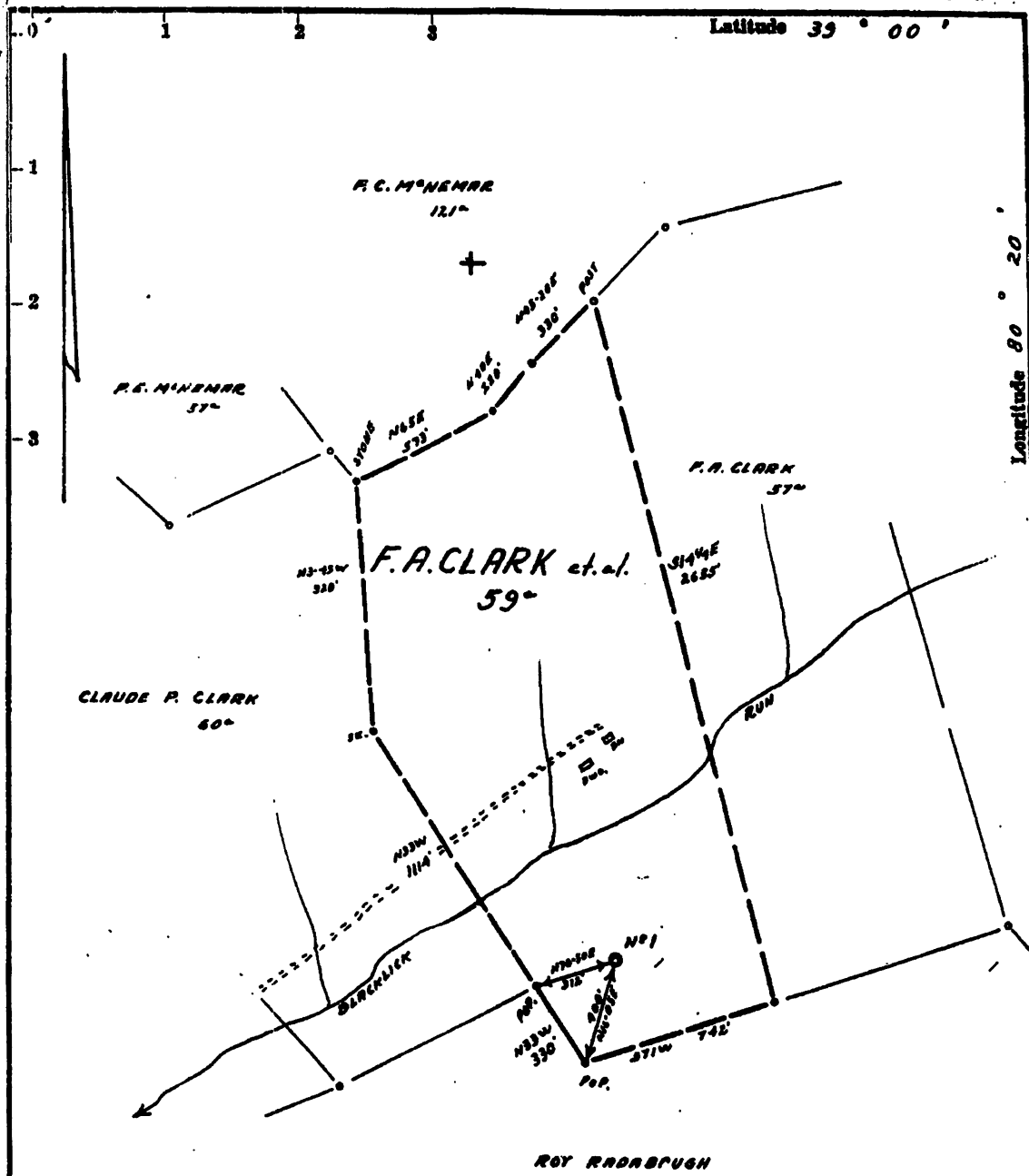
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Date March 11, 1964

APPROVED Union Drilling Inc. Owner



Redrill.....
 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.

Minimum accuracy, one part in 200

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Company UNION DRILLING INC.
 Address WASHINGTON, PA.
 Farm F.A. CLARK et al.
 Tract _____ Acres 59 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1254'
 Quadrangle CRAWFORD NW2-NC
 County LEWIS District SKIN CREEK
 Engineer [Signature]
 Engineer's Registration No. 9084
 File No. 206/198 Drawing No. _____
 Date 10-5-63 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. Law-1238

+ 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.

WW-4A
Revised 6-07

1) Date: April 13, 2020
2) Operator's Well Number
F.A. Clark #1
3) API Well No.: 47 - 041 - 01238

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

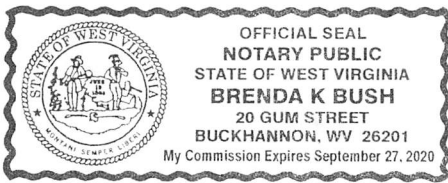
4) Surface Owner(s) to be served: (a) Name Dan Clark, Address 148 Hillcrest Road, Weston, WV 26452. (b) Name, Address. (c) Name, Address. 5) (a) Coal Operator Name N/A, Address. (b) Coal Owner(s) with Declaration Name N/A, Address. (c) Coal Lessee with Declaration Name N/A, Address. 6) Inspector Barry Stollings, Address 28 Conifer Dr., Bridgeport, WV 26330, Telephone 1-304-552-4194.

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] President
Its: [Signature]
Address: 354 Morton Ave., Buckhannon, WV 26201
Telephone: 1-304-472-4289

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Subscribed and sworn before me this 14th day of April, 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.

WW-9
(5/16)

API Number 47 - 041 - 01238 P
Operator's Well No. F. A. Clark #1

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) Black Lick Run 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
If so, please describe anticipated pit waste: ANY WELL EFFLUENT WILL BE CONTAINED IN TANKS BEFORE DISPOSING OFF-SITE.
Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____ *JWA*

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? _____

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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 14th day of April, 2020

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: Benny Illap

Comments: _____

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Title: inspector Date: 4-15-20

Field Reviewed? () Yes () No

N/A

47-041-01238P

WW-9- GPP
Rev. 5/16

Page _____ of _____
API Number 47 - 041 - 01238
Operator's Well No. F. A. Clark #1

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): Black Lick Run 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.

Black Lick Run

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

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Environmental 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

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

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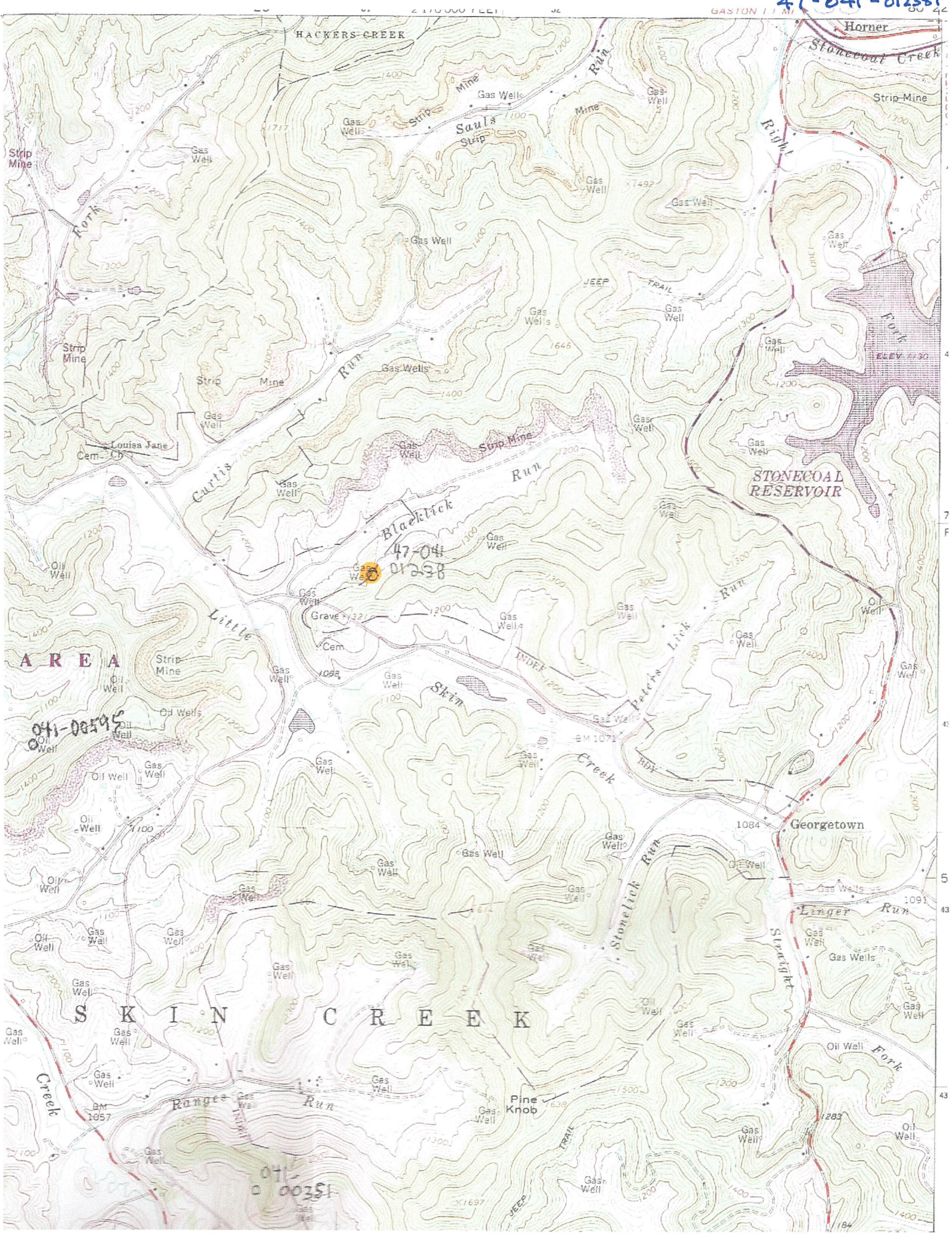
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N/A

Signature: *Justin Rose*

Date: April 14, 2020



HACKERS-CREEK

Horner

Stonecoal Creek

Strip-Mine

Sauls Strip

Right

STONECOAL RESERVOIR

Blacklick

47-041-01238

Curtis Run

Run

Run

Little

Skim

INDEX

Creek

Run

Georgetown

Linger Run

SKIN CREEK

Run

Range Run

Pine Knob

Fork

041-00351

1697

184

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-041-01238 WELL NO.: 1

FARM NAME: F.A. Clark

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Lewis DISTRICT: Skin Creek

QUADRANGLE: Roanoke

SURFACE OWNER: Dan Clark

ROYALTY OWNER: _____

UTM GPS NORTHING: 4313936.3

UTM GPS EASTING: 551155.4 GPS ELEVATION: 1254'

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

April 14, 2020
Date

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