



---

west virginia department of environmental protection

---

Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Wednesday, August 29, 2018  
WELL WORK PLUGGING PERMIT  
Coal Bed Methane Well Plugging

GOFF CONNECTOR LLC  
417 THORN ST., SUITE 300

SEWICKLEY, PA 15143

Re: Permit approval for COALQUEST 19A-R  
47-033-05147-00-00

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: COALQUEST 19A-R  
Farm Name: GRAFTON COAL COMPANY  
U.S. WELL NUMBER: 47-033-05147-00-00  
Coal Bed Methane Well Plugging  
Date Issued: 8/29/2018

## 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.

47-033-05147CP

WW-4B  
Rev. 2/01

1) Date 7-26, 2018  
2) Operator's  
Well No. Coalquest #19A-R  
3) API Well No. 47-033 - 05147

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 X or Underground storage \_\_\_) Deep \_\_\_ / Shallow X
- 5) Location: Elevation 1367.7 Watershed Pigtail Run  
District Simpson County Harrison Quadrangle Brownton  
jbender@fullstreameh.com
- 6) Well Operator Goff Connector LLC 7) Designated Agent Jon Bender  
Address 417 Thorn Street, Suite 300 Address 4598 Compressor Station Rd  
Sewickley, PA 15143 Bruceton Mills, WV 26525
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Sam Ward Name Plants and Goodwin Inc.  
Address P.O. Box 2327 Address 1034 PA-44  
Buckhannon, WV 26201 Shinglehouse, PA 16748

10) Work Order: The work order for the manner of plugging this well is as follows:

See attached PA Procedure - Coalquest #19A-R

RECEIVED  
Office of Oil and Gas

AUG 10 2018

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 SPD Ward Date 8/9/2018

08/31/2018

Proposed Plugging Procedure – CoalQuest #19A-R, (47-033-05147),  
Farm name: Grafton Coal Co., Brownton Quadrangle, Simpson  
District, Harrison Co., West Virginia

1. MI 100 BBL open top tank or 500 BBL frac tank to handle circulations/returns.
2. Lay 2" line from wellhead to tank.
3. RU mud pump and 110 bbl water truck. Pump **6% GEL** in well to stop flow of gas. **DO NOT EXCEED 300 psi on pump**
4. ~~RU wireline with lubricator tube on 7" casing. Run CIBP to +/- 608'~~ **gmm**
5. Blow well down to circulation tank. Monitor around wellhead for H<sub>2</sub>S levels. *If H<sub>2</sub>S level > 10 PPM then halt work & take appropriate OSHA measures to safely & adequately handle this issue.*
6. MIRU service rig.
7. **Note:** OH TD +/- 623'. Also, 13 3/8" csg set @ 81', 9 5/8" csg set @ 335', & 7", 17#/ft csg set @ 613'. (*See pg 8 of WVDEP documents for specific details but all the casings left in the well, except the 13 3/8" should be cemented to surface.*)
8. RIH with 1 1/2" service rig work string to +/- 900'. Load wellbore with **6% GEL**. Make sure that there is good circulation.
9. Pump **CLASS A CEMENT FROM 830' VERTICAL DEPTH TO SURFACE. gmm**  
OR PUMP CLASS A PLUG FROM 830' VERTICAL DEPTH TO 550' VERTICAL DEPTH, WOC 4 HOURS, ADD CLASS A IF NECESSARY. PUMP CLASS A CEMENT PLUG FROM 400' TO SURFACE. **SDW 8/9/2018**
10. POOH with remainder of 1 1/2" work string & top off cement fall back.
11. Cut off casing and set plugging monument.
12. RDMO service rig.

RECEIVED  
Office of Oil and Gas

AUG 10 2018

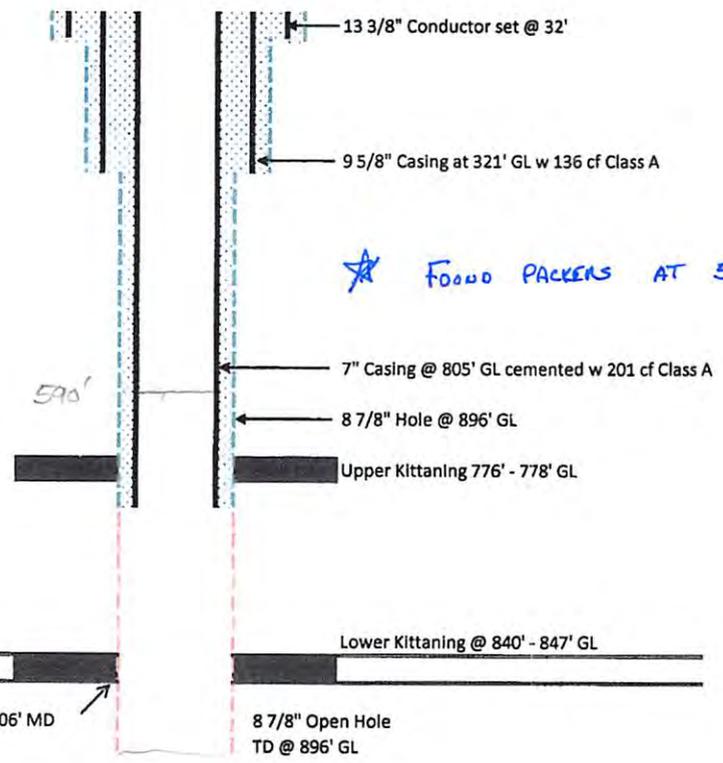
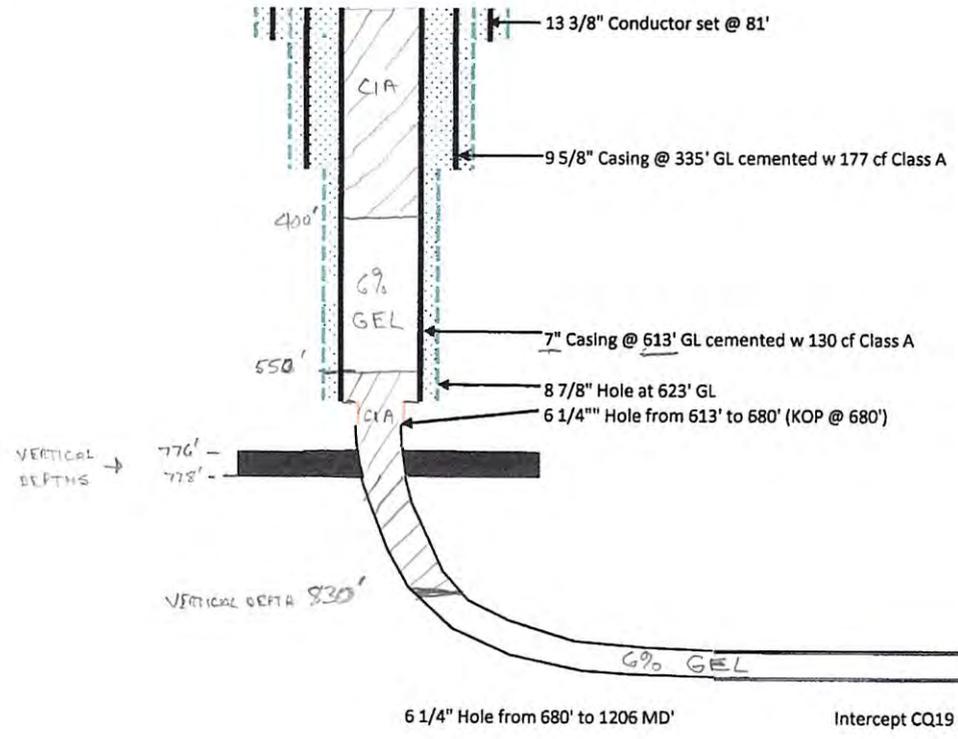
\*\*\*\*\*WV Department of Environmental Protection

47-033-05147CP

# Coal Quest 19 Wellbore Diagrams

Coal Quest 19AR  
47-033-05147

Coal Quest 19  
47-033-05077



★ FOUND PACKERS AT 596' & 855'

- PINNATE PATTERN WITH 4-3/4" OPEN HOLE STARTING AT 1206' MD.
- POTENTIAL VOLUME OF PINNATE HORIZONTAL LEGS IS ≈ 1000 BBLs.
- MAY USE FRESH WATER TO INFUSE PINNATE HORIZONTAL LEGS.

JNM

WR-35  
Rev (8-10)

**CORRECTED**

DATE: 03/29/2011  
API#: 47-033-05147

SEE ATTACHED DIAGRAM  
FOR AS BUILT WELL CONSTRUCTION.

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Grafton Coal Company Operator Well No: CoalQuest 19A-R  
LOCATION: Elevation: 1,366' Quadrangle: Brownston  
District: Simpson County: Harrison  
Latitude: 5600 Feet South of 39 Deg. 15 Min. 00 Sec.  
Longitude: 3170 Feet West of 80 Deg. 10 Min. 00 Sec.

Company: Vitruvian Exploration, LLC

Address: 4 Waterway Square, Ste. 400 The Woodlands, TX. 77380	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
	13-3/8"	81'	81'	N/A
	9-5/8"	335'	335'	177
Agent:	7"	613'	613'	130
Inspector:				
Date Permit Issued: 09/05/2008				
Date Well Work Commenced: 08/04/2008				
Date Well Work Completed: 09/24/2008				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Vertical Depth (ft): 623'				
Total Measured Depth (ft): 623'				
Fresh Water Depth (ft.): 157'				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? Y				
Coal Depths (ft.):				
Void(s) encountered (N/Y) Depth(s) N				

RECEIVED  
Office of Oil & Gas  
APR 18 2011

WV Department of  
Environmental Protection

RECEIVED  
Office of Oil and Gas  
AUG 10 2018  
WV Department of  
Environmental Protection

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation N/A Pay zone depth (ft) N/A  
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow      MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure      psig (surface pressure) after 48 Hours

Second producing formation      Pay zone depth (ft)       
Gas: Initial open flow      MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow      MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests      Hours  
Static rock Pressure      psig (surface pressure) after      Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments 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.

James Blott  
Signature

3/22/11  
Date

08/31/2018



47-033-06147CP

Leg #	Starting Depth	Ending Depth	Total Footage
Vertical of #19	0.00	800.00	800.00
Vertical of #19 A-R	0.00	625.00	625.00
Curve	625.00	1206.00	581.00
Coalquest #19 A-R	1195.00	5980.00	4785.00
1	4956.00	6420.00	1464.00
2	4671.00	6270.00	1599.00
3	4144.00	6498.00	2354.00
4	3859.00	6520.00	2661.00
5	3447.00	4536.00	1089.00
6	2464.00	3090.00	626.00
6A	2178.00	6185.00	4007.00
7	1798.00	5398.00	3600.00
8	2922.00	5706.00	2784.00
9	1039.28	4390.00	3350.72
9A	3634.00	4542.00	908.00
10	2083.00	2448.00	365.00
10A	1449.00	4946.00	3497.00
11	1318.00	4678.00	3360.00
12	1825.00	4586.00	2761.00

**Comments**

#19 Vertical well only end of pipe  
 #19 A-R Vertical portion end of pipe

Leave vertical well bore at 625, intersection of #19 well vertical bore at 1206'  
 This is referred to as the main leg and appears to be the main leg of the 19 A-R, states main leg ties into curve at 1179'



PINNATE SECTION  
 (HORIZONTAL IN LOWER KITTAWING)

Coalquest #19      Total Footage      800.00

Coalquest #19 A-R      Total Footage      35631.72

This does not include the difference of the end of the main bore and last kickoff which is an additional 1,024'. This does include the #A footages



WW-4A  
Revised 6-07

1) Date: 7-26-2018  
2) Operator's Well Number \_\_\_\_\_  
Coalquest #19A-R

3) API Well No.: 47 - 033 - 05147

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

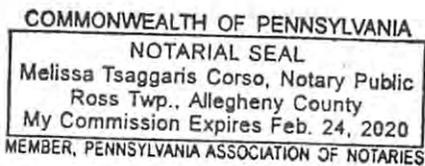
<b>4) Surface Owner(s) to be served:</b>	<b>5) (a) Coal Operator</b>
(a) Name <u>GCStream LLC</u>	Name <u>Brushy Fork Resources, LLC</u>
Address <u>417 Thorn Street, Suite 301</u>	Address <u>4010 MacCorkle Ave. SE</u>
<u>Sewickley, PA 15143</u>	<u>Charleston, WV 25304</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Harbour LLC</u>
	Address <u>300 Capitol Street, Suite 1401</u>
	<u>Charleston, WV 25301</u>
(c) Name _____	Name _____
Address _____	Address _____
<b>6) Inspector</b> <u>Samuel Ward</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 2327</u>	Name <u>Brushy Fork Resources, LLC</u>
<u>Buckhannon, WV 26201</u>	Address <u>4010 MacCorkle Ave. SE</u>
Telephone <u>304-389-7583</u>	<u>Charleston, WV 25304</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 Goff Connector LLC  
 By: Mike Hopkins *[Signature]*  
 Its: Chief Operating Officer  
 Address 417 Thorn Street, Suite 300  
Sewickley, PA 15143  
 Telephone 412-528-0404

RECEIVED  
Office of Oil and Gas

AUG 10 2018

Subscribed and sworn before me this 6th day of August, 2018  
*[Signature]* Notary Public  
 My Commission Expires 02/24/2020 WV Department of Environmental Protection

**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](mailto:depprivacyofficer@wv.gov).

08/31/2018

**SURFACE OWNER WAIVER**

Operator's Well  
Number

Coalquest #19A-R

**INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A**

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.  
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

**If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.**

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of the Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat. RECEIVED  
Office of Oil and Gas

I further state that I have no objection to the planned work described in these materials and I have no objection to a permit being issued on those materials. AUG 10 2018

FOR EXECUTION BY A NATURAL PERSON  
ETC.

FOR EXECUTION BY A CORPORATION,  
WV Department of  
Environmental Protection

MT Syg Date 8/6/18  
Signature

Name GCStream LLC  
By Mike Hopkins  
Its COO Date

Signature [Signature] Date 8-6-18  
**08/31/2018**

**U.S. Postal Service™**  
**CERTIFIED MAIL® RECEIPT**  
 Domestic Mail Only

7018 0360 0000 6115 4138

delivery information, visit our website at [www.usps.com](http://www.usps.com)

**CHARLESTON WV 25304**

**OPTIONAL USE**

Postmark Here **AUG 9 2018**

0401 09

Postage \$1.21

Total Postage and Fees \$7.41

Sent To: *Post Box No. Fall 25304*

Street and Apt. No.: *Fall 25304*

City, State, ZIP+4®: *Charleston, WV 25304*

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

**U.S. Postal Service™**  
**CERTIFIED MAIL® RECEIPT**  
 Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)

**CHARLESTON WV 25304**

**OPTIONAL USE**

Postmark Here **AUG 9 2018**

0401 09

Postage \$1.21

Total Postage and Fees \$7.41

Sent To: *Post Box No. Fork 25304*

Street and Apt. No.: *Fork 25304*

City, State, ZIP+4®: *Charleston, WV 25304*

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

*Coalgust #19*  
 +  
*Coalgust #19A-R*  
 (operator)

**U.S. Postal Service™**  
**CERTIFIED MAIL® RECEIPT**  
 Domestic Mail Only

7018 0360 0000 6115 4121

For delivery information, visit our website at [www.usps.com](http://www.usps.com)

**CHARLESTON WV 25304**

**OPTIONAL USE**

Postmark Here **AUG 9 2018**

0401 09

Postage \$1.21

Total Postage and Fees \$7.41

Sent To: *Post Box No. Fork 25304*

Street and Apt. No.: *Fork 25304*

City, State, ZIP+4®: *Charleston, WV 25304*

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

**U.S. Postal Service™**  
**CERTIFIED MAIL® RECEIPT**  
 Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)

**CHARLESTON WV 25304**

**OPTIONAL USE**

Postmark Here **AUG 9 2018**

0401 09

Postage \$1.21

Total Postage and Fees \$7.41

Sent To: *Post Box No. Fork 25304*

Street and Apt. No.: *Fork 25304*

City, State, ZIP+4®: *Charleston, WV 25304*

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

*Coalgust #19*  
 +  
*Coalgust #19A-R*  
 (Clussee)

**U.S. Postal Service™**  
**CERTIFIED MAIL® RECEIPT**  
 Domestic Mail Only

7018 0360 0000 6115 4114

For delivery information, visit our website at [www.usps.com](http://www.usps.com)

**CHARLESTON WV 25301**

**OPTIONAL USE**

Postmark Here **AUG 9 2018**

0401 09

Postage \$1.21

Total Postage and Fees \$7.41

Sent To: *Post Box No. LLC 25301*

Street and Apt. No.: *LLC 25301*

City, State, ZIP+4®: *Charleston, WV 25301*

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

**U.S. Postal Service™**  
**CERTIFIED MAIL® RECEIPT**  
 Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)

**CHARLESTON WV 25301**

**OPTIONAL USE**

Postmark Here **AUG 9 2018**

0401 09

Postage \$1.21

Total Postage and Fees \$7.41

Sent To: *Post Box No. LLC 25301*

Street and Apt. No.: *LLC 25301*

City, State, ZIP+4®: *Charleston, WV 25301*

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

*Coalgust #19*  
 +  
*Coalgust #19A-R*  
 (owner)

08/31/2018

RECEIVED  
 Office of Oil and Gas  
 AUG 10 2018  
 WV Department of  
 Environmental Protection

WW-9  
(5/16)

API Number 47 - 033 - 05147  
Operator's Well No. COALQUEST #19A-R

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Goff Connector LLC OP Code 494521348

Watershed (HUC 10) Pigtail Run Quadrangle Brownton

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: NA - Frac Tanks will be used

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

- 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 Reserved Environmental Services - WMGR123-SW005 - 1119 US 119, Mt. Pleasant, PA 15666)

SPW  
8/19/2018

Will closed loop system be used? If so, describe: NA

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. NA

-If oil based, what type? Synthetic, petroleum, etc. NA

Additives to be used in drilling medium? NA

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. NA

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA

-Landfill or offsite name/permit number? NA

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 RECEIVED 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 [Signature]

Company Official (Typed Name) Mike Hopkins

Company Official Title Chief Operating Officer

Subscribed and sworn before me this 6th day of August, 20 18

[Signature] Notary Public

My commission expires 02/24/2020

RECEIVED  
Office of Oil and Gas  
AUG 19 2018  
Department of Environmental Protection

MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

COMMONWEALTH OF PENNSYLVANIA  
NOTARIAL SEAL  
Melissa Teaggar's Corso, Notary Public  
Ross Twp., Allegheny County  
My Commission Expires Feb. 24, 2020

08/31/2018

Operator's Well No. Coalquest #19A-R

Proposed Revegetation Treatment: Acres Disturbed .25 Prevegetation pH 7.51

Lime 3 Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer type 10-20-20

Fertilizer amount 246 lbs/acre

Mulch 3 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
<u>Annual Ryegrass</u>	<u>40</u>	<u>Perennial Ryegrass Lading</u>	<u>50</u>
_____	_____	<u>Clover</u>	<u>5</u>
_____	_____	<u>Red Top</u>	<u>5</u>

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: S. Delbush

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: COG Inspector Date: 8/9/2018

Field Reviewed? ( ) Yes ( X ) No

RECEIVED  
Office of Oil and Gas

AUG 10 2018

WV Department of  
Environmental Protection

08/31/2018

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
GROUNDWATER PROTECTION PLAN

Operator Name: Goff Connector LLC  
Watershed (HUC 10): Pigtail Run Quad: Brownton  
Farm Name: Grafton Coal Company

- 1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

NA

- 2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

NA

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

NA

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

NA

RECEIVED  
Office of Oil and Gas

AUG 10 2018

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

WV Department of  
Environmental Protection  
08/31/2018

NA

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

NA

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.

NA

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

NA

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

RECEIVED  
Office of Oil and Gas  
AUG 10 2018  
WV Department of  
Environmental Protection

08/31/2018





47-033-0514 CP

7717

Coalquest #19A-R

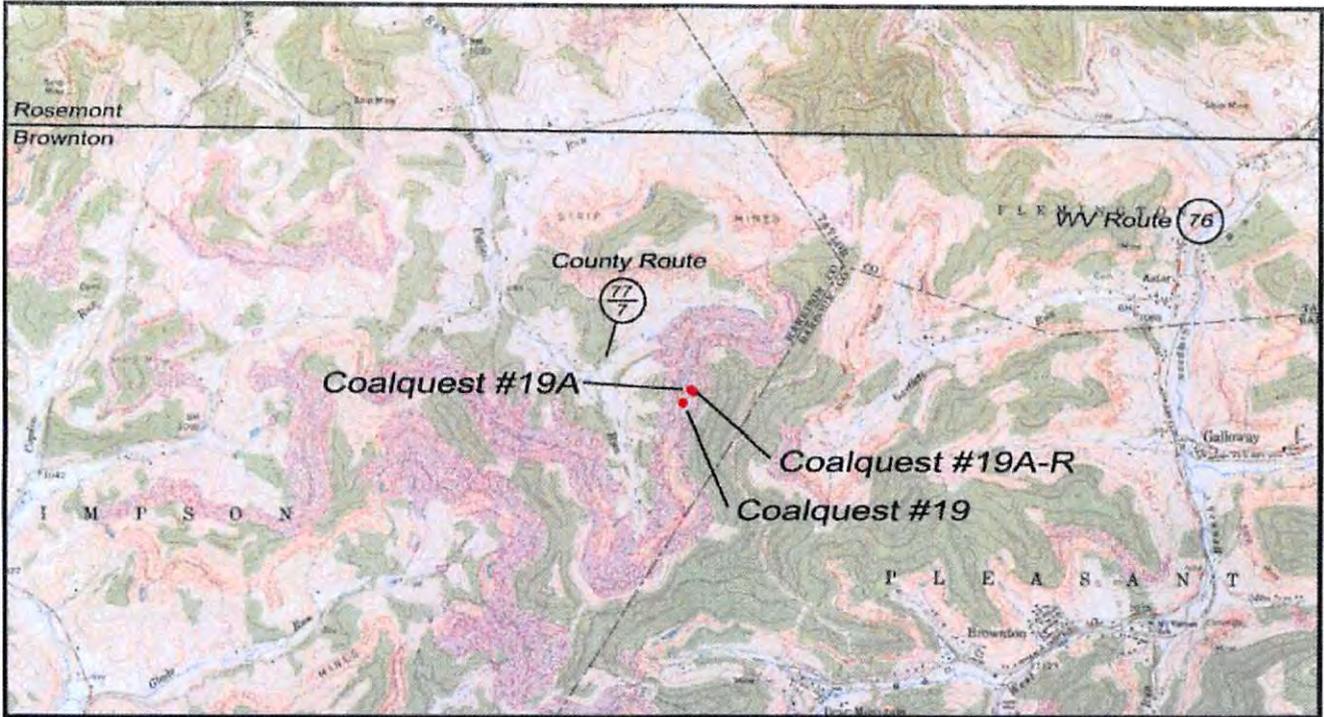


RECEIVED  
Office of Oil and Gas

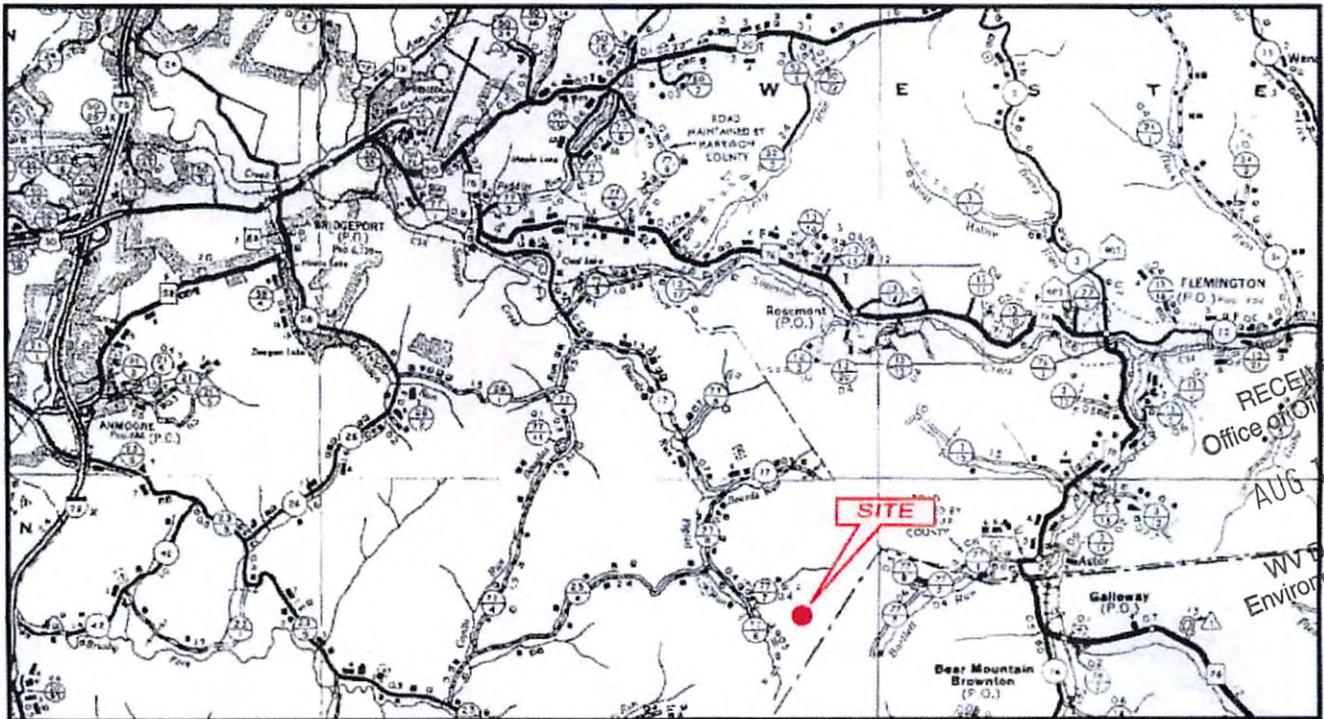
AUG 10 2018

WV Department of  
Environmental Protection

08/31/2018



Brownton Quad 1" = 4000'



County Highway Map 1" = Approx. 1.5 Miles

RECEIVED  
Office of Oil and Gas  
AUG 10 2018

WV Department of  
Environmental Protection



Coalquest 19A-R

110 Wyoming St. Suite 200  
Charleston, WV 25302

WW-7  
8-30-06



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

API: 47-033-05147 WELL NO.: Coalquest 19A-R  
 FARM NAME: Grafton Coal Company  
 RESPONSIBLE PARTY NAME: Goff Connector LLC  
 COUNTY: Harrison DISTRICT: Simpson  
 QUADRANGLE: Brownton  
 SURFACE OWNER: GCStream LLC  
 ROYALTY OWNER: See attached  
 UTM GPS NORTHING: 4343149.694  
 UTM GPS EASTING: 570969.092 GPS ELEVATION: 416.656 m <sup>(1366')</sup>

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 \_\_\_\_\_

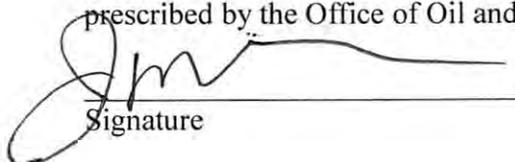
Real-Time Differential

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.

  
Signature

Director, Marcellus Operations

Title

8/9/2018

Date

RECEIVED  
Office of Oil and Gas

AUG 10 2018

WV Department of  
Environmental Protection

08/31/2018

Category 1  
Sampling Results  
API No : \_\_\_\_\_

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	5	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl	5,000	_____	5,000	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**			Monitor	_____	mg/l
Oil and Grease			Monitor	_____	mg/l
Total Al***			Monitor	_____	mg/l
TSS			Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume			Monitor	_____	Gal
Flow			Monitor	_____	Gal/min
Disposal Area			Monitor	_____	Acres

\*\*\* Al is only reported if the pH is above 9.0

Category 2  
Sampling Results  
API No : \_\_\_\_\_

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	10	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**			Monitor	_____	mg/l
Oil and Grease			Monitor	_____	mg/l
Total Al***			Monitor	_____	mg/l
TSS			Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume			Monitor	_____	Gal
Flow			Monitor	_____	Gal/min
Disposal Area			Monitor	_____	Acres

\* Can be 25,000 with inspector's approval,

(Inspector's signature): \_\_\_\_\_

Date: \_\_\_\_\_

\*\* Include a description of your aeration technique.

Aeration Code: \_\_\_\_\_

\*\*\* Al is only reported if the pH is above 9.0

RECEIVED  
Office of Oil and Gas

AUG 27 2018

WV Department of  
Environmental Protection

Category 3  
Sampling Results  
API No : \_\_\_\_\_

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	20	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Disposal Area		_____	Monitor	_____	Acres

\* Can be 25,000 with inspector's approval,

(Inspector's signature): \_\_\_\_\_

Date: \_\_\_\_\_

\*\* Include a description of your aeration technique.

Aeration Code: \_\_\_\_\_

\*\*\* Al is only reported if the pH is above 9.0.

**RECEIVED**  
Office of Oil and Gas

AUG 27 2018

Category 4  
Sampling Results  
API No: \_\_\_\_\_

WV Department of  
Environmental Protection

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	1	_____	N/A	N/A	Days
Fe	Monitor	_____	Monitor	_____	mg/l
D.O.	Monitor	_____	Monitor	_____	mg/l
Settleable Sol.	Monitor	_____	Monitor	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Activated Carbon (0.175)		_____	N/A	N/A	lb/l
Date Site Reclaimed	N/A	N/A			10 days from dis.
Disposal Area		_____	Monitor	_____	Acres

\* Can be 25,000 with inspector's approval,

(Inspector's signature): \_\_\_\_\_

Date: \_\_\_\_\_



T 304-561-3762  
F 304-561-3777  
E dfry@eqt.com

Beau Fry  
Regional Manager of  
Plugging Ops

August 22, 2018

**U.S. Mail – Certified, Return Receipt Requested**

Mr. Darrell Murphy  
2990 Clinic Road  
Chloe, WV 25235

Re: Plugging Affidavit for County & Well #  
Lewis - 656461

Dear Mr. Murphy,

Please find enclosed the Affidavit (WR-38) and the Pit Form (WR-34) for the following well:

<u>Well Name &amp; Number</u>	<u>API Number</u>	<u>Date Plugged</u>
W M Rafferty (656461)	47-041-00157-00	07/20/18

Please adjust your records accordingly. If you have any questions and/or need further information, please do not hesitate to contact me.

Sincerely,  
EQT

*Beau Fry*

Beau Fry  
Regional Manager  
Of Plugging Ops

**RECEIVED**  
**Office of Oil and Gas**  
**AUG 27 2018**  
**WV Department of**  
**Environmental Protection**



RECEIVED  
Office of Oil and Gas  
AUG 31 2018  
WV Department of  
Environmental Protection

08/31/2018



T 304-561-3762  
F 304-561-3777  
E dfry@eqt.com

Beau Fry  
Regional Manager of  
Plugging Ops

**Inspector: Barry Stollings**  
**28 Conifer Drive**  
**Bridgeport, WV 26330**

**(656461)**

SO/CO:  
Daniel F. Rafferty, et al.  
1314 Trent Dr.  
Latrobe, PA 15650

Coastal Forest Resources Co.  
P.O. Box 709  
Buckhannon, WV 26201

Margaret Catherine Rafferty, et al.  
1314 Trent Drive  
Latrobe, PA 15650

Shirley A Rafferty  
3454 Dawson Drive  
Warren, MI 48092

RECEIVED  
Office of Oil and Gas  
AUG 27 2018  
WV Department of  
Environmental Protection



RECEIVED  
Office of Oil and Gas  
AUG 27 2018  
Environmental Protection  
Department of the Interior

08/31/2018



T 304-561-3762  
F 304-561-3777  
E dfry@eqt.com

Beau Fry  
Regional Manager of  
Plugging Ops

August 22, 2018

**U.S. Mail – Certified, Return Receipt Requested**

Mr. Darrell Murphy  
2990 Clinic Road  
Chloe, WV 25235

Re: Plugging Affidavit for County & Well #  
Lewis - 656796

Dear Mr. Murphy,

Please find enclosed the Affidavit (WR-38) and the Pit Form (WR-34) for the following well:

<u>Well Name &amp; Number</u>	<u>API Number</u>	<u>Date Plugged</u>
T L Money Penny (656796)	47-041-01135	07/03/18

Please adjust your records accordingly. If you have any questions and/or need further information, please do not hesitate to contact me.

Sincerely,  
EQT

*Beau Fry*

Beau Fry  
Regional Manager  
Of Plugging Ops

**RECEIVED**  
Office of Oil and Gas

AUG 27 2018

WV Department of  
Environmental Protection



RECEIVED  
Office of Oil and Gas  
AUG 7 2018  
WV Department of  
Environmental Protection



T 304-561-3762  
F 304-561-3777  
E dfry@eqt.com

Beau Fry  
Regional Manager of  
Plugging Ops

**Inspector: Barry Stollings**  
**28 Conifer Drive**  
**Bridgeport, WV 26330**

**(656796)**

SO/CO:  
Coastal Forest Resources Co.  
P.O. Box 709  
Buckhannon, WV 26201

Jackie and Stephanie Flutineer  
1538 Klines Run Road  
Alum Bridge, WV 26231

Nicky and Lisa Sprouse  
1922 Klines Run Road  
Alum Bridge, WV 26231

Lynn Moneypenny  
10322 US Hwy 33 W  
Camden, WV 26338

