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 west virginia department of environmental protection
 

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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)

Monday, January 14, 2019  
 WELL WORK PLUGGING PERMIT  
 Vertical Plugging

EQT PRODUCTION COMPANY  
 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for 1624  
 47-103-00829-00-00

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: 1624  
 Farm Name: BARR  
 U.S. WELL NUMBER: 47-103-00829-00-00  
 Vertical Plugging  
 Date Issued: 1/14/2019

I

47-103-00829A

01/18/2019

## 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

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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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

1) Date September 17, 2018  
2) Operator's 01/18/2019  
Well No. 601624 Michael Barr #1624  
3) API Well No. 47-103-00829

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 792 Watershed North Fork Fishing Creek  
District Grant County Wetzel Quadrangle Big Run

6) Well Operator EQT Production Company 7) Designated Agent Jason Ranson  
Address 2400 Ansys Drive- Suite 200 Address 120 Professional Place  
Canonsburg PA 15317 Bridgeport WV 26330

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Derek Haught Name HydroCarbon Well Service  
Address PO Box 85 Address PO Box 995  
Smithville WV 26178 Buckhannon WV 26201

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

**See Attachment for details and procedures.**

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

Work order approved by inspector  Date 11-6-18

## PLUGGING PROGNOSIS

M. Barr # 1624 (601624)

No well records available

District, Grant

Wetzel, WV

API # 47-103-00829

DATE: 9/25/18

**CURRENT STATUS:**

TD @ unknown

Elevation @ 792'

3" tbg @ unknown

5 1/2" csg @ unknown

7" csg @ unknown

Freshwater, @ No Record

Saltwater @ No Record

Gas shows @ No record

Oil shows @ No Record

Coal @ No Record

1. Notify state inspector, Derek Haught @ 304-206-7613, 24 hrs. Prior to commencing operations.
2. TIH wireline and collar locator, check fluid level, locate packer and TD.
3. Contact EQT supervisor and WV DEP Inspector before proceeding.
4. TIH, shoot 3" tubing off on top of packer. TOOH 3" tubing.
5. TIH to tubing cut and set a 300' C1A cement plug. WOC 8 hrs. Tag TOC, add additional C1A cement if necessary.
6. TIH wireline and collar locator, locate bottom of 5 1/2" casing.
7. TOOH to 100' below 5 1/2" casing seat. Set a 200' C1A cement plug, 100' below casing seat to 100' inside casing.
8. Free point 5 1/2" casing, cut casing @ free point. TOOH 5 1/2" casing.
9. TIH and set a 100' C1A cement plug 50' in/out of casing cut.
10. TIH wireline and collar locator, locate bottom of 7" casing.
11. TIH to 100' below bottom of 7" casing, set a 200' C1A cement plug.
12. Free point 7" casing, cut casing @ free point. TOOH 7" casing.
13. TIH and set a 100' C1A cement plug 50' in/out of casing cut.
14. TOOH to 350' set a 350' C1A cement plug 350' to surface.
15. Erect monument with API#, date plugged, company name, and company 6-digit ID #.
16. Reclaim location, road to WV-DEP specifications.

RECEIVED  
Office of Oil and Gas  
OCT 17 2018  
WV Department of  
Environmental Protection

WW-4A  
Revised 6-07

1) Date: September 17 2018  
2) Operator's Well Number  
601624 Michael Barr #1624  
3) API Well No.: 47 - 103 - 00829

**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>See Attached</u>	Name _____
Address _____	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>See Attached</u>
(c) Name _____	Address _____
Address _____	Name _____
6) Inspector <u>Derek Haught</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 85</u>	Name _____
<u>Smithville WV 26178</u>	Address _____
Telephone <u>(304) 206-7613</u>	_____

**TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:**

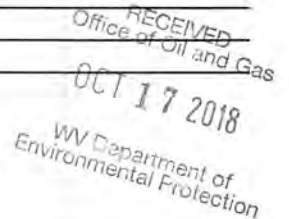
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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 EQT Production Company  
 By: Erin Spine  
 Its: Regional Land Supervisor  
 Address 2400 Ansys Drive, Suite 200  
Canonsburg PA 15317  
 Telephone (304) 848-0035



Subscribed and sworn before me this 17<sup>th</sup> day of September 2018  
Rebecca L. Wanstreet Notary Public  
My Commission Expires 4-7-2020

**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 [depprivacvoffier@wv.gov](mailto:depprivacvoffier@wv.gov).

47-103-00829

601624 Michael Barr #1624

**Owner(s) (Surface and Access)**

Leslie and Susan Lydick  
8321 North Fork Road  
Pine Grove WV 26419

**Coal Owner(s):**

Reserve Coal Properties Company  
CNX Center  
1000 Consol Energy Drive  
Canonsburg PA 15317

CNX Gas Company LLC  
1000 Consol Energy Drive  
Canonsburg PA 15317

Leslie and Susan Lydick  
8321 North Fork Road  
Pine Grove WV 26419

WPP Pocahontas Properties, LP  
c/o George Angus  
5260 Irwin Rd.  
Huntington, WV 25705

**Potential Water Owner(s):**

Leslie and Susan Lydick  
8321 North Fork Road  
Pine Grove WV 26419

Jeffrey L and Beth Willey  
109 Glenview Drive  
New Martinsville WV 26155

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

Operator Name EQT Production Company OP Code 306686

Watershed (HUC 10) North Fork Fishing Creek Quadrangle Big Run

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: Formation Fluids

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? 20 ml

DAH  
11-6-18

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 [Signature]

Company Official (Typed Name) Erin Spine

Company Official Title Regional Land Supervisor

Subscribed and sworn before me this 17th day of September, 2018

Rebecca L. Wanstreet

Notary Public

My commission expires 4-7-2020



<b>EQT Production Water plan</b> <b>Offsite disposals</b>
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**Waste Management - Meadowfill Landfill**

Rt. 2, Box 68 Dawson Drive  
Bridgeport, WV 26330  
304-326-6027  
Permit #SWF-1032-98  
Approval #100785WV

**Waste Management - Northwestern Landfill**

512 E. Dry Road  
Parkersburg, WV 26104  
304-428-0602  
Permit #SWF-1025 WV-0109400  
Approval #100833WV

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Proposed Revegetation Treatment: Acres Disturbed 1± Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type (10-20-20) or equivalent

Fertilizer amount 1/3 ton lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Aslike Clover	5	Aslike Clover	5
Annual Rye	15		

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: [Signature]

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

Title: Oil + Gas Inspector Date: 11-6-18

Field Reviewed?  Yes  No

47-103-00829P

01/18/2019

Topo Quad: Big Run 7.5' Scale: 1" = 200'

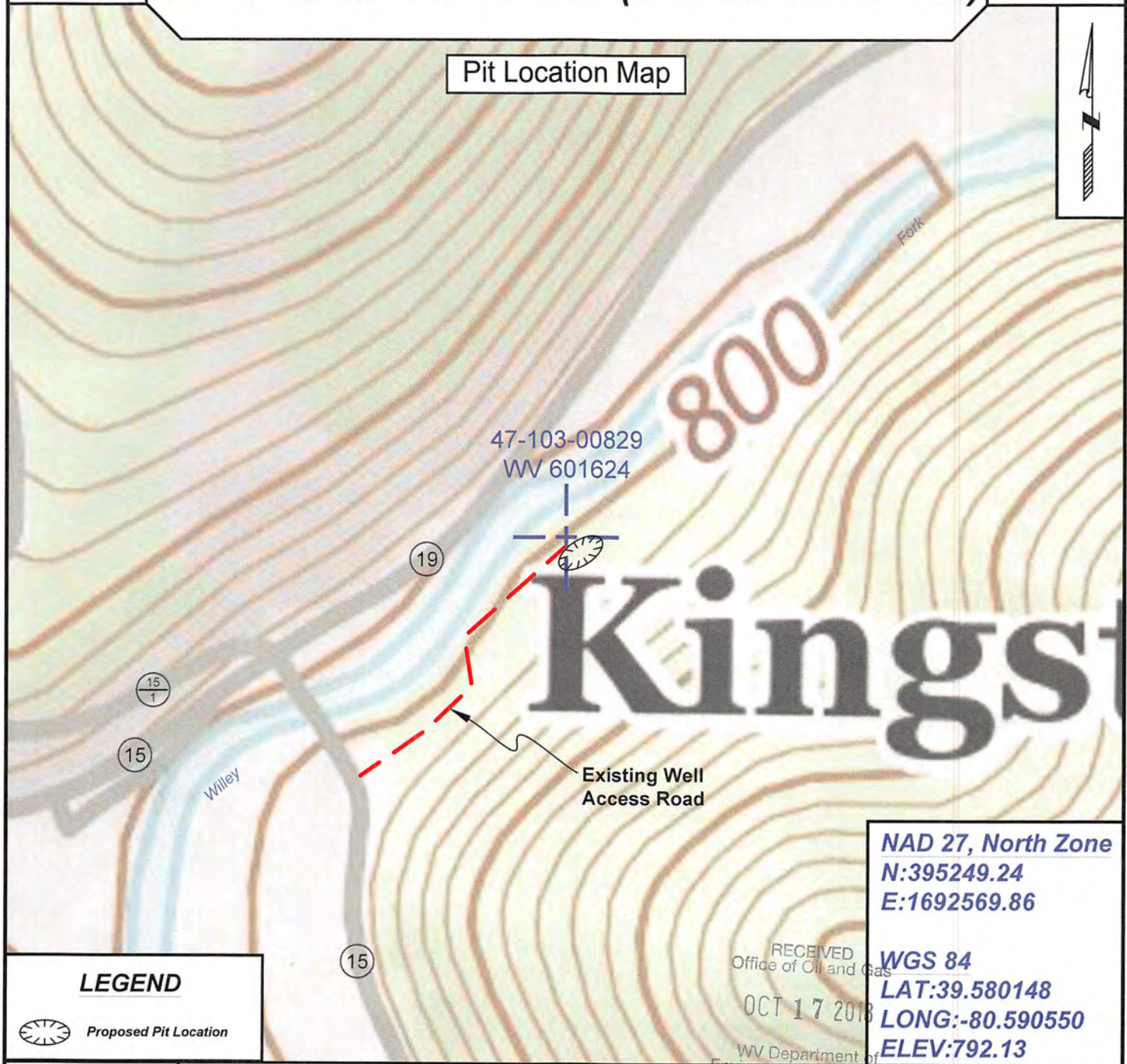
County: Wetzel Date: August 23, 2008

District: Grant Project No: 40-34-00-09

# 47-103-00829 WV 601624 (Michael Barr #1624)

Topo

## Pit Location Map



47-103-00829  
WV 601624

19

15  
1

15

Willey

# Kingst

# 800

Existing Well  
Access Road

NAD 27, North Zone  
 N:395249.24  
 E:1692569.86

WGS 84  
 LAT:39.580148  
 LONG:-80.590550  
 ELEV:792.13

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### LEGEND

Proposed Pit Location



SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
 1-800-482-8606  
 237 Birch River Road  
 Birch River, WV 26610  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

PREPARED FOR:  
**EQT Production Company**  
 2400 Ansys Drive  
 Canonsburg, PA 15317

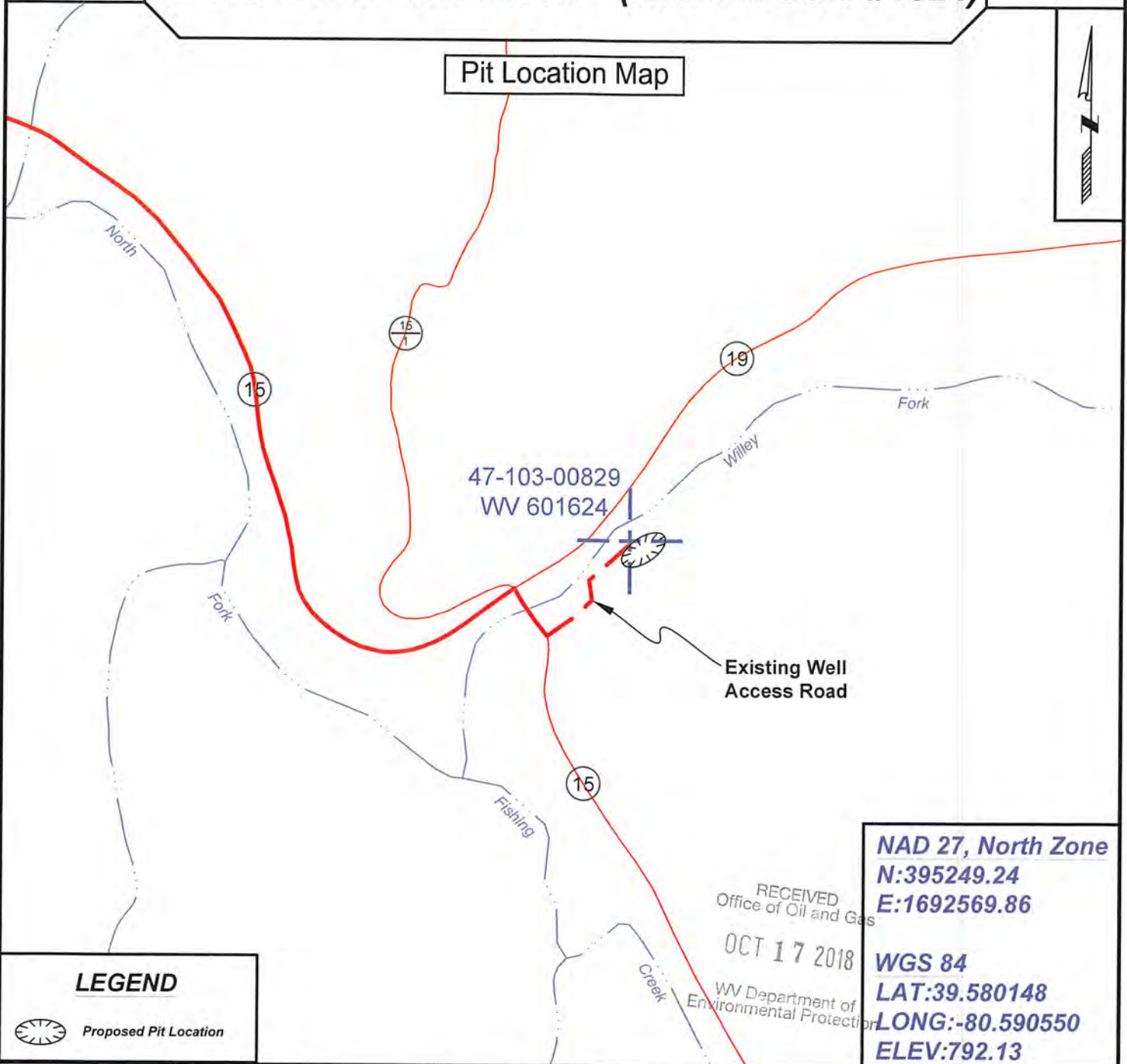
47-103-00829P

01/18/2019

Topo Quad: Big Run 7.5'	Scale: 1" = 500'
County: Wetzel	Date: August 23, 2008
District: Grant	Project No: 40-34-00-09

Highway **47-103-00829 WV 601624 (Michael Barr #1624)**


Pit Location Map



**NAD 27, North Zone**  
**N:395249.24**  
**E:1692569.86**  
**WGS 84**  
**LAT:39.580148**  
**LONG:-80.590550**  
**ELEV:792.13**

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OCT 17 2018  
WV Department of Environmental Protection

**LEGEND**

 Proposed Pit Location



SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
1-800-482-8606  
237 Birch River Road  
Birch River, WV 26610  
PH: (304) 649-8606  
FAX: (304) 649-8608

PREPARED FOR:  
**EQT Production Company**  
2400 Ansys Drive  
Canonsburg, PA 15317

Topo Quad: Big Run 7.5'

Scale: 1" = 2000'

County: Wetzel

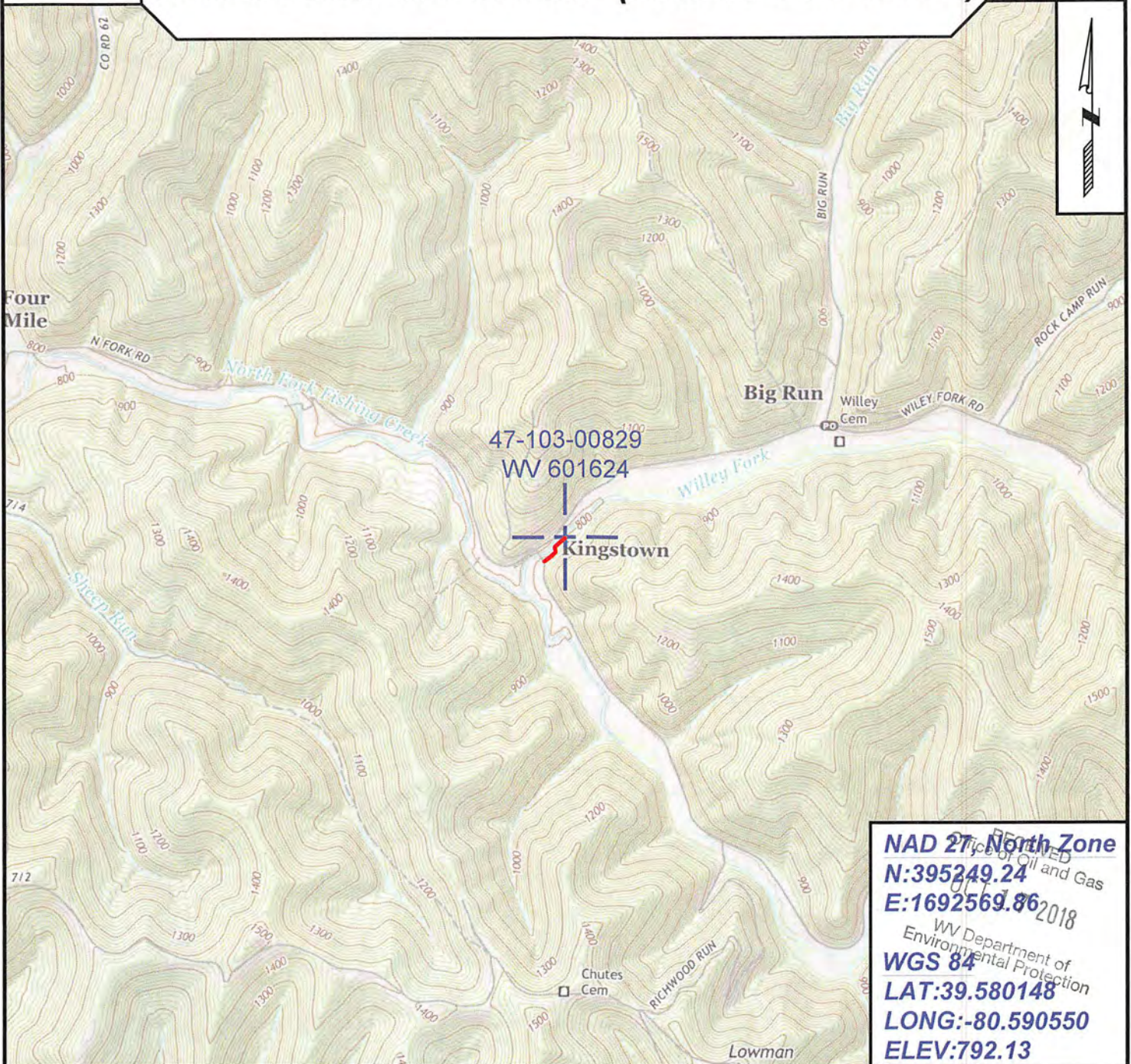
Date: August 23, 2008

District: Grant

Project No: 40-34-00-09

# 47-103-00829 WV 601624 (Michael Barr #1624)

Topo



NAD 27, North Zone  
 N: 395249.24  
 E: 1692569.86  
 WGS 84  
 LAT: 39.580148  
 LONG: -80.590550  
 ELEV: 792.13



SURVEYING AND MAPPING SERVICES PERFORMED BY:

## ALLEGHENY SURVEYS, INC.

1-800-482-8606  
 237 Birch River Road  
 Birch River, WV 26610  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

PREPARED FOR:

## EQT Production Company

2400 Ansys Drive  
 Canonsburg, PA 15317

WW-7  
8-30-06



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

API: 47-103-00829 WELL NO.: WV 601624 (Michael Barr #1624)

FARM NAME: Michael Barr

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Wetzel DISTRICT: Grant

QUADRANGLE: Big Run 7.5'

SURFACE OWNER: Laslie Lydick & Susan Miracle

ROYALTY OWNER: Roger K. Hinerman

UTM GPS NORTHING: 4381240

UTM GPS EASTING: 535164 GPS ELEVATION: 241 m (792 ft)

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 X : Post Processed Differential X  
 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

PS # 2100  
Title

8/23/18  
Date

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