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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, June 10, 2019

WELL WORK PLUGGING PERMIT  
 Vertical Plugging

EQT PRODUCTION COMPANY  
 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for 604545 L.M. Pigott 2  
 47-033-01672-00-00

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: 604545 L.M. Pigott 2  
 Farm Name: MARY FLORA SALEM  
 U.S. WELL NUMBER: 47-033-01672-00-00  
 Vertical Plugging  
 Date Issued: 6/10/2019

I

47-033-01672P  
06/14/2019

## 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.

WW-4B  
Rev. 2/01

- 1) Date December 6, 2018
- 2) Operator's  
Well No. 604545 L.M. Pigott #2
- 3) API Well No. 47-033 - 01672

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 1256 Watershed Robinson Run  
District Eagle-Outside County Harrison Quadrangle Shinnston

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 Sam Ward Name HydroCarbon Well Service  
Address PO Box 2327 Address PO Box 995  
Buckhannon WV 26201 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 4/19/2019

PLUGGING PROGNOSIS

604545  
L.M.Piggott #2  
API# 47-033-001672  
District, Eagle  
Harrison County, WV

BY: R Green  
DATE: 08/30/18

**CCURRENT STATUS:**

**TD @ 2604'**  
**Elevation @ 1255'**

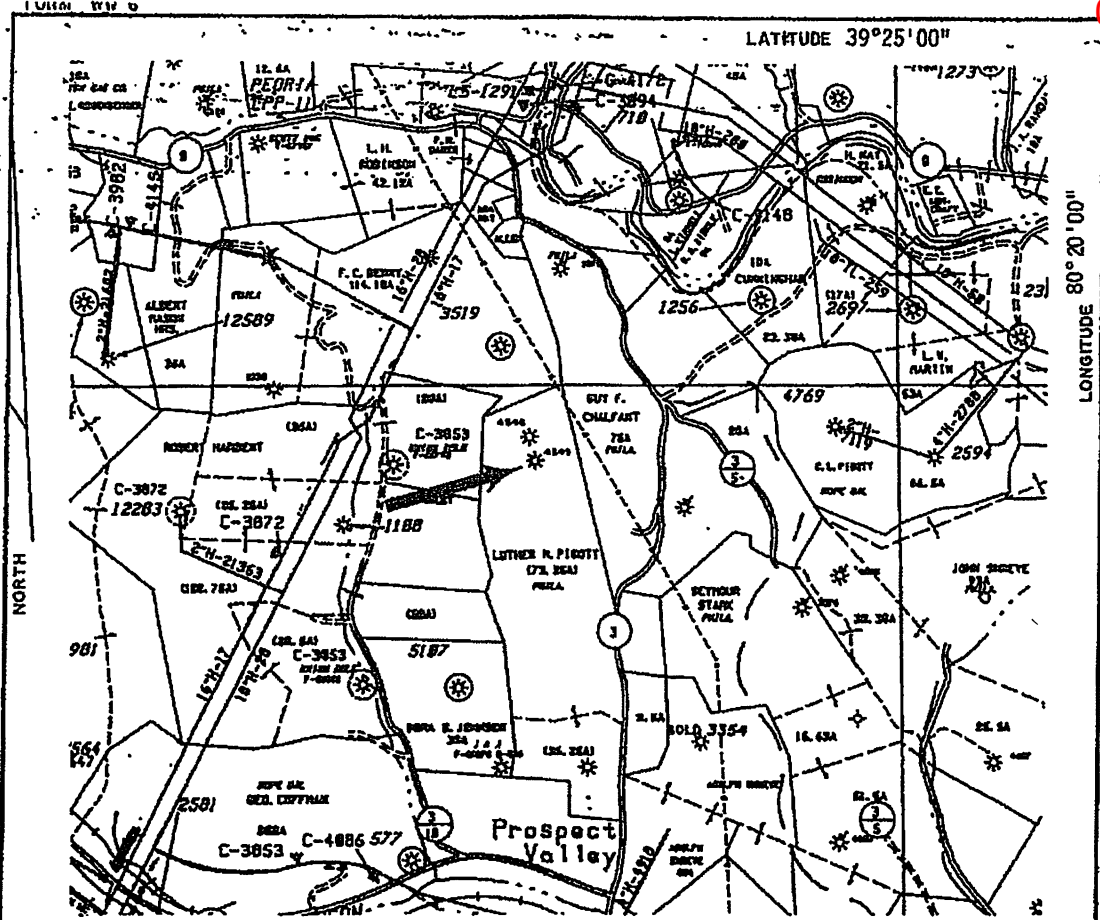
10" casing @ 259'  
8 1/4" casing @ 1235' (Pulled)  
6 5/8" casing @ 1587'  
5 3/16" casing @ 2401'

**Fresh Water @ None Reported**  
**Saltwater @ None Reported**  
**Gas Show @ 2157', 2427', 2504', 2572'**  
**Oil shows @ None reported**  
**Coal @ None Reported**

1. Notify inspector, Sam Ward @ 304-389-7583, 24 hours prior to commencing operations.
2. TIH check TD @ or below 2570'.
3. TIH and spot 40 bbl. of 6% gelled water followed by a 500' C1A cement plug, 2570' to 2070'. WOC 8 hrs., Tag TOC, add additional C1A if necessary. (5 3/16" casing seat).
4. Free point 5 3/16" casing, cut casing @ free point. TOOH 5 3/16" casing.
5. Set a 100' C1A cement plug 50' in/out of casing cut perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
6. TOOH to 1625' set a 100' C1A cement plug 1625' to 1525' (6 5/8" casing seat).
7. Free point 6 5/8" casing, cut casing @ free point. TOOH 6 5/8" casing.
8. Set a 100' C1A cement plug 50' in/out of casing cut perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs
9. TOOH to 1300', set a 300' C1A cement plug 1300' to 1000' (Elevation & 8 1/4" casing seat).
10. TOOH to 400' set a 200' C1A cement plug 400' to 200'. (10" casing seat).
11. Free point 10" casing, cut casing @ free point. TOOH 10" casing.
12. Set a 100' C1A cement plug 50' in casing cut to surface. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs
13. Note, if unable to cut and pull 10" casing, TIH and perforate 10" casing with 4 holes each @ 150', 100', and 50'. TIH to 200' and set a 200' CIA cement plug 200' to surface.
14. Erect monument with API#, date plugged, company name.
15. Reclaim location and road to WV-DEP specifications.

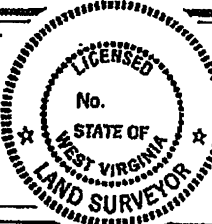
SPW  
4/19/2019





FOR REFERENCE ONLY  
NO PLAT AVAILABLE

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENERGY.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE May 2, 19 94  
 OPERATORS WELL NO. 4545  
 API WELL NO. 47 - 033 - 1672  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. \_\_\_\_\_  
 PROVEN SOURCE OF ELEVATION \_\_\_\_\_ SCALE 1"=1320'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION \_\_\_\_\_ WATERSHED Robinson Run  
 DISTRICT Eagle COUNTY Harrison QUADRANGLE Shinnston

SURFACE OWNER \_\_\_\_\_ ACREAGE \_\_\_\_\_  
 ROYALTY OWNER Luther Piggott LEASE ACREAGE \_\_\_\_\_  
 PROPOSED WORK: LEASE NO. \_\_\_\_\_  
 DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER \_\_\_\_\_  
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION \_\_\_\_\_  
 ESTIMATED DEPTH \_\_\_\_\_

WELL OPERATOR Equitable Gas Co. DESIGNATED AGENT \_\_\_\_\_  
 ADDRESS \_\_\_\_\_ ADDRESS \_\_\_\_\_

COUNTY NAME PERMIT

WW-4A  
Revised 6-07

1) Date: December 6, 2018  
2) Operator's Well Number  
604545 L. M. Pigott #2  
3) API Well No.: 47 - 033 - 01672

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

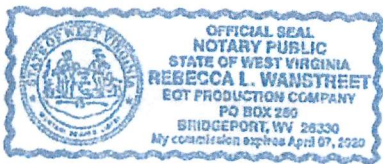
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>See Attached</u>	Name <u>See Attached</u>
Address _____	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>See Attached</u>
(c) Name _____	Address _____
Address _____	Name _____
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 2327</u>	Name _____
<u>Buckhannon WV 26201</u>	Address _____
Telephone <u>304-389-7583</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 18 day of December 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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

47-033-01672 P

06/14/2019

47-033-01672

604545 L M Pigott #2

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

Mary Flora Salerno  
966 Lucas Rd.  
Shinnston, WV 26431

**Coal Owner(s)**

Murray Energy Corp.  
46266 National Rd.  
Saint Clairsville. OH 43950

**Potential Water Owner(s):**

N/A



WW-9  
(5/16)

API Number 47 - 033 - 01672  
Operator's Well No.604545 LM Pigott #2

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) Robinson Run Quadrangle Shinnston

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

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 \_\_\_\_\_ )

SDW  
4/11/19

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 Spire

Company Official Title Regional Land Supervisor

Subscribed and sworn before me this 18 day of December, 2018

Rebecca L. Wanstreet Notary Public

My commission expires 4-7-2020



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: S J DWAN

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: COG Inspector Date: 4/19/19

Field Reviewed? ( ) Yes ( X ) No

<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

Topo Quad: Shinnston 7.5'

Scale: 1" = 400'

County: Harrison

Date: November 05, 2018

District: Eagle-Outside

Project No: 70-36-00-08

# 47-033-01672 WV 604545 (L. M. Pigott #2)

Topo

## Pit Location Map



CO-RD 3



47-033-01672  
WV 604545

Existing Well  
Access Road

12

**NAD 27, North Zone**  
N:333240.12  
E:1760893.40

**WGS 84**  
LAT:39.411935  
LONG:-80.346085  
ELEV:1255.74

### 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: Shinnston 7.5'

Scale: 1" = 500'

County: Harrison

Date: November 05, 2018

District: Eagle-Outside

Project No: 70-36-00-08

Highway

**47-033-01672 WV 604545 (L. M. Pigott #2)**

Pit Location Map



47-033-01672  
WV 604545



Existing Well  
Access Road

**NAD 27, North Zone**  
N:333240.12  
E:1760893.40

**WGS 84**  
LAT:39.411935  
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**LEGEND**



Proposed Pit Location



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PREPARED FOR:

**EQT Production Company**

2400 Ansys Drive  
Canonsburg, PA 15317

Topo Quad: Shinnston 7.5'

Scale: 1" = 2000'

County: Harrison

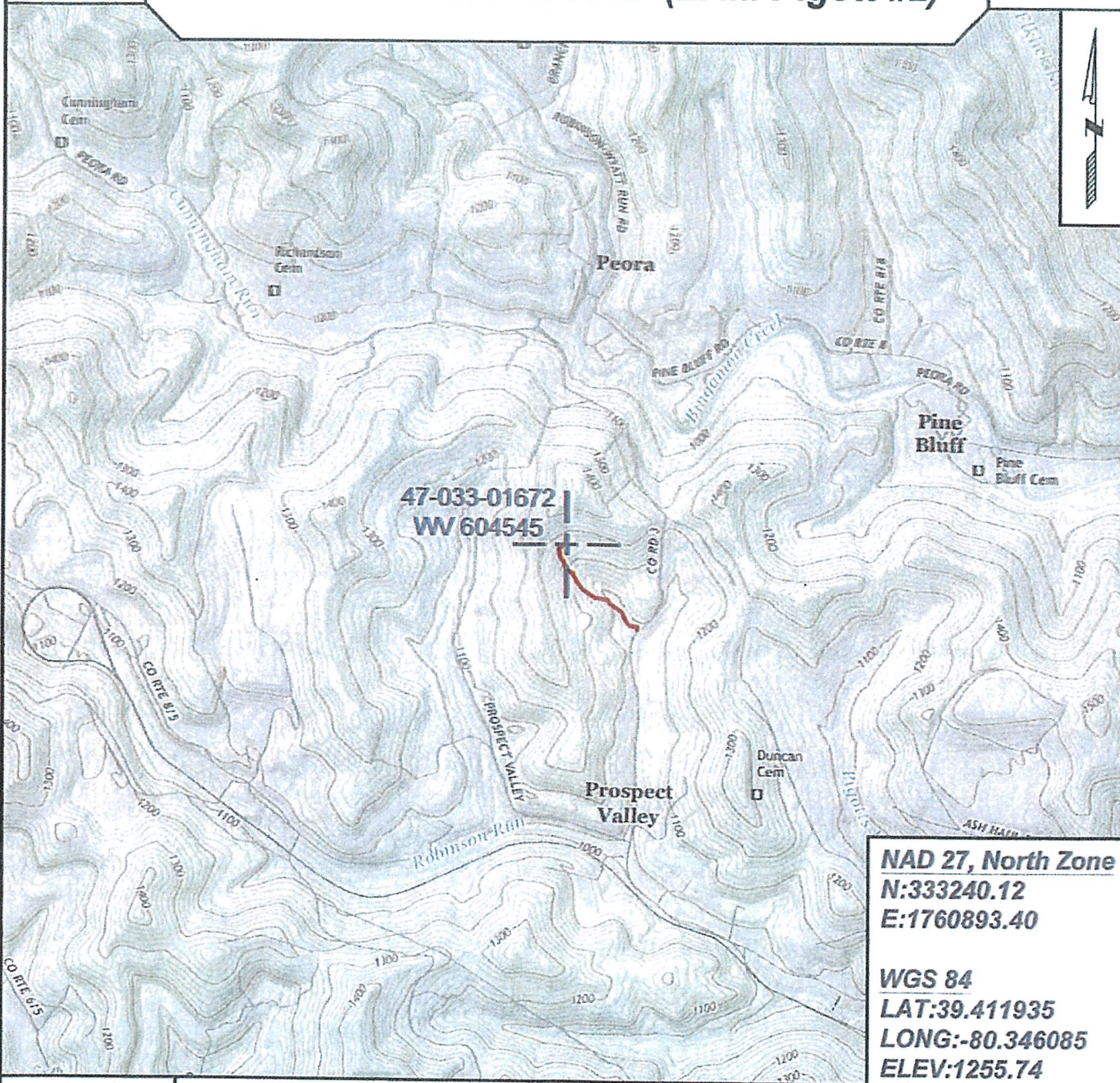
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# 47-033-01672 WV 604545 (L. M. Pigott #2)

Topo



47-033-01672  
WV 604545

**NAD 27, North Zone**  
N:333240.12  
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PREPARED FOR:

## EQT Production Company

2400 Ansys Drive  
Canonsburg, PA 15317

