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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)

Wednesday, September 11, 2019  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

EQT PRODUCTION COMPANY  
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for B 50  
47-033-01000-00-00

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: B 50  
Farm Name: DUBOIS, C.  
U.S. WELL NUMBER: 47-033-01000-00-00  
Vertical Plugging  
Date Issued: 9/11/2019

## 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.

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### 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.



- 1) Date June 10, 2019
- 2) Operator's  
Well No. 149941 Caroline DuBois B-50
- 3) API Well No. 47-033-01000

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 1156' Watershed Gnatty Creek  
District Elk County Harrison Quadrangle Browntown 7.5'

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.**

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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 Bryan O'Hara Date 6-13-19

## PLUGGING PROGNOSIS

149941  
 DuBois  
 API# 47-033-01000  
 District, Elk  
 Harrison County, WV

DATE: 10/15/18

**CURRENT STATUS:**

**TD @ 2550'**  
**Elevation @ 1137'**

11 3/4" casing @ 17' (CTS)  
 8 5/8" casing @ 1206' (CTS)  
 4 1/2" casing @ 2550' (cemented to 1840')

**Fresh Water @ 203'**  
 Saltwater @ None reported  
**Gas Show @ 2375'**  
 Oil shows @ None Reported  
 Coal @ 95' to 100', 713' to 719'

1. Notify inspector, Sam Ward @ 304-389-7583, 24 hours prior to commencing operations.
2. TIH wireline and check TD @ or below 2525'.
3. TIH to 2525', pump 65 bbl. of 6% gelled water followed by a 400' C1A cement plug, 2525' to 2125'.
4. WOC 8 hrs. Tag TOC add additional C1A cement if necessary.
5. Free point 4 1/2" casing, cut casing @ free point, TOOH 4 1/2" casing.
6. 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.
7. TOOH to 1400' set a 400' C1A cement plug 1400' to 1000'. (8 5/8" casing seat & elevation).
8. TOOH to 725', set a 100' C1A cement plug 725' to 625'. (Coal @ 713')
9. TOOH to 400' set a 400' C1A cement plug 400' to surface. (Freshwater @ 203', coal @ 95', & 11 3/4" casing seat @ 17').
10. Erect monument with API#, date plugged, company name.
11. Reclaim location and road to WV-DEP specifications.

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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

**Oil and Gas Division**

**WELL RECORD**

Rotary X Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas X  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Quadrangle Philippi  
Permit No. HAR 1000

Company <u>J &amp; J Enterprises, c/o Berry Energy</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>309 Professional Bldg., Clarksburg</u>				
Farm <u>Caroline DuBois</u> Acres <u>20</u>				
Location (waters) <u>Raccoon Run</u>	Size			
Well No. <u>B-50</u> Elev. <u>1137</u>	20-16			
District <u>Elk</u> County <u>Harrison</u>	Cond.			
The surface of tract is owned in fee by _____	13-10" 11 3/4	17	17	to surface
Address <u>Mule Creek</u>	9 5/8			
Mineral rights are owned by <u>Same</u>	8 5/8	1206	1206	to surface
Address _____	7			
Drilling Commenced <u>1/10/77</u>	5 1/2			
Drilling Completed <u>1/16/77</u>	4 1/2	2554	2554	to 1840
Initial open flow <u>Show</u> cu. ft. _____ bbls.	3			
Final production <u>280,000</u> cu. ft. per day _____ bbls.	2			
Well open <u>7</u> hrs. before test <u>1005 RP.</u>	Liners Used			
Well treatment details: <u>14 hours</u>				

Attach copy of cementing record.

Water Frac Fifth  
7/19/77  
834 bbl fluid  
36,660 # 20/40 sand  
500 gal acid

Coal was encountered at 95-100; 713-719 Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water 203' Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Fifth See PP OG-8 1/17/77 Depth 2550 TD

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay, Sand, Shale			0	95		
Coal			95	100		
Sand, Shale			100	120		
Red Rock			120	300		H <sup>2</sup> O 203'
Sand, Shale			300	713		
Coal			713	719		
Sand, Shale, Sand			719	1320		
Sand			1320	1370		
Shaley Sand			1370	1480		
Sand			1480	1500		
Sand, Shale			1500	1510		
Big Lime			1510	1640		
Sand, Shale			1640	1850		
Fifty Foot			1850	1926		
Shale, Sand			1926	2150		
Red Rock			2150	2240		
Brown Sand			2240	2290		
Sand Shale			2290	2400		Gas Show 2375
Fifth			2400	2420		
Shale, Sand			2420	2550 TD		

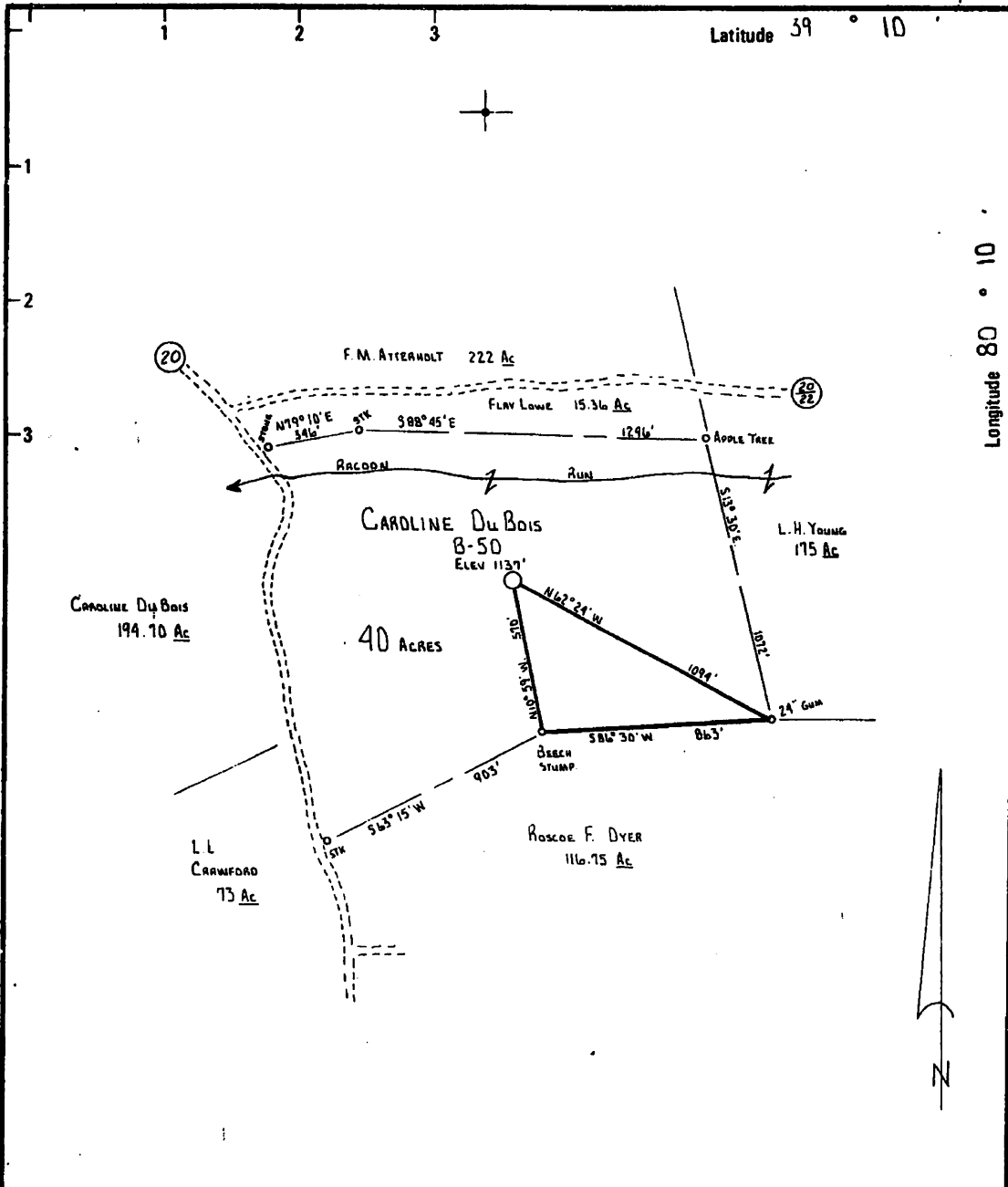
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(over)

\* Indicates Electric Log tops in the remarks section.



Partial Plug 1/17/77  
 New Location   
 Drill Deeper   
 Abandonment

Minimum Error of Closure ONE PART IN 200  
 Source of Elevation U E JCT. RT. 20 & 29/22 ELEV. 1026'

"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."

**J.P.J. Enterprises**  
 Company CLERRY ENERGY CONSULTANTS & MANAGERS, INC.  
 Address PROFESSIONAL BUILDING, SUITE 309 CLARKSBURG WEST VIRGINIA 26301

Farm CAROLINE DU BOIS  
 Tract            Acres 40 Lease No. 77637  
 Well (Farm) No. 1 Serial No. B-50  
 Elevation (Spirit Level) 1137'  
 Quadrangle PHILLIPPI  
 County HARRISON District ELK  
 Engineer Hermit L. Wheeler  
 Engineer's Registration No. 530 L.L.S.  
 File No. B-731 Drawing No.             
 Date 10-11-76 Scale 1" = 500'

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

WELL LOCATION MAP  
 FILE NO. **HAR-1000-PP**

+ 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.

**47-033**

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 WV Department of Environmental Protection



WW-4A  
Revised 6-07

1) Date: June 10, 2019  
2) Operator's Well Number  
149941 Caroline DuBois B-50  
3) API Well No.: 47 - 033 - 01000

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 See Attached, Address, (b) Name, Address, (c) Name, Address  
5) (a) Coal Operator Name, Address, (b) Coal Owner(s) with Declaration Name See Attached, Address, (c) Coal Lessee with Declaration Name, Address  
6) Inspector Sam Ward, Address PO Box 2327, Buckhannon, WV 26201, Telephone 304-389-7583

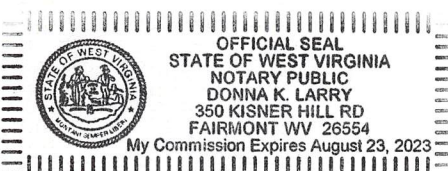
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (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: Todd Klamer  
Its: Regional Land Manager  
Address 2400 Ansys Drive, Suite 200  
Canonsburg PA 15317  
Telephone (724) 271-7314



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Subscribed and sworn before me this 10th day of June 2019  
Donna K. Larry, Notary Public  
My Commission Expires 8-23-2023

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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 [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).

47-033-01000

149941 Caroline DuBois B-50

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

Frank & Erin Guzzi /  
185 Guzzi Dr  
Lost Creek, WV 26385

**Coal Owner(s)**

Frank & Erin Guzzi /  
185 Guzzi Dr  
Lost Creek, WV 26385

**Potential Water Owner(s)**

James Herron / Specialty Groups, Inc  
10771 Buckhannon Pike  
Lost Creek, WV 26385

Frank Guzzi /  
185 Guzzi Drive  
Lost Creek, WV 26385

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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) Gnatty Creek Quadrangle Browntown 7.5'

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 \_\_\_\_\_ )

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) \_\_\_\_\_

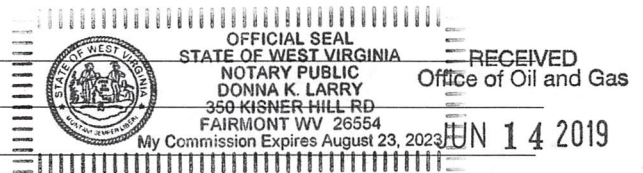
-Landfill or offsite name/permit number? \_\_\_\_\_

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) Todd Klamer  
Company Official Title Regional Land Manager



Subscribed and sworn before me this 10th day of June, 20 19

Donna K. Larry Donna K. Larry Notary Public

My commission expires 8-23-2023

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

Line 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: Bryan O'Hara

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

Title: Inspector

Date: 6-13-19

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Field Reviewed?  Yes  No

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**EQT Production Water plan**  
**Offsite disposals**

**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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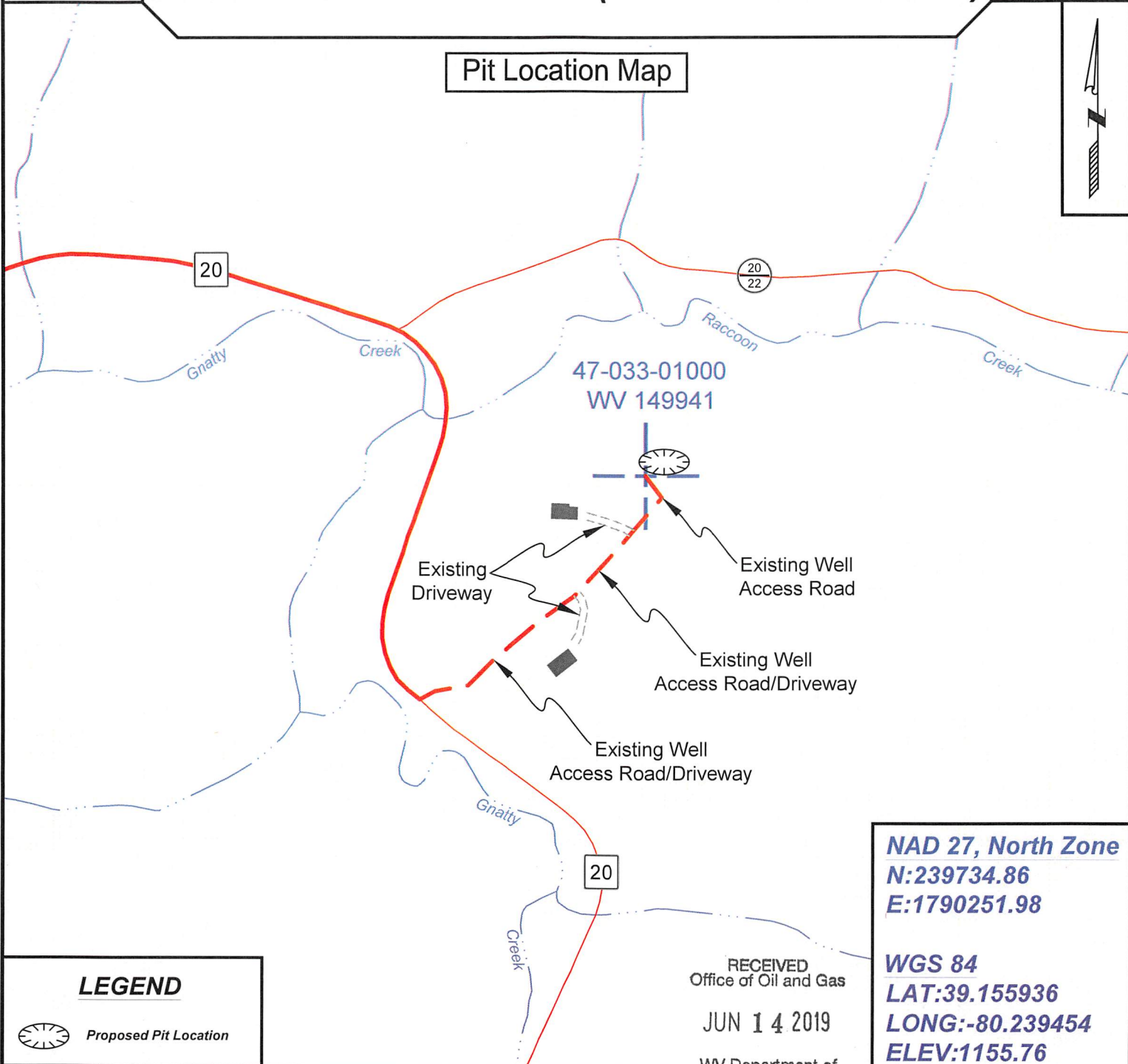
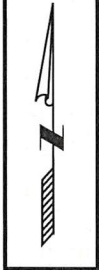
Topo Quad: Browntown 7.5' Scale: 1" = 2000' **47-033-01000 P**

County: Harrison Date: May 07, 2019

District: Elk Project No: 70-36-00-08

Highway **47-033-01000 WV 149941 (Caroline DuBois B-50)**

Pit Location Map




**NAD 27, North Zone**  
**N:239734.86**  
**E:1790251.98**

**WGS 84**  
**LAT:39.155936**  
**LONG:-80.239454**  
**ELEV:1155.76**

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PREPARED FOR:

**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, Suite 200  
Canonsburg, PA 15317



Topo Quad: Browntown 7.5'

Scale: 1" = 2000'

47-033-01000P

County: Harrison

Date: May 07, 2019

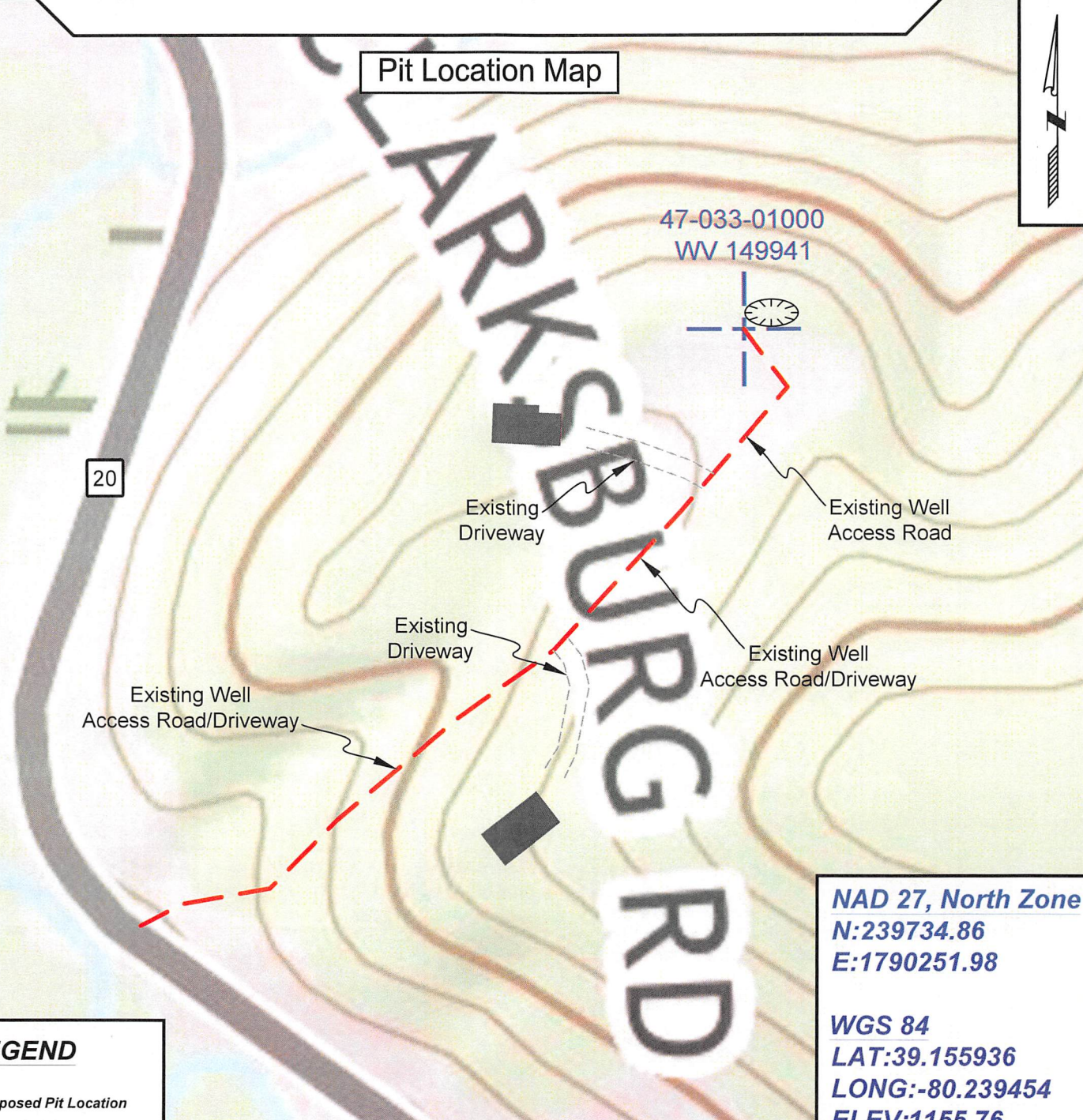
District: Elk

Project No: 70-36-00-08

# 47-033-01000 WV 149941 (Caroline DuBois B-50)

Topo

## Pit Location Map



47-033-01000  
WV 149941

20

Existing Driveway

Existing Well Access Road

Existing Driveway

Existing Well Access Road/Driveway

Existing Well Access Road/Driveway

NAD 27, North Zone  
N:239734.86  
E:1790251.98

WGS 84  
LAT:39.155936  
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### LEGEND

 Proposed Pit Location



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2400 Ansys Drive, Suite 200  
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Topo Quad: Browntown 7.5'

Scale: 1" = 2000' 47-033-01000 P

County: Harrison

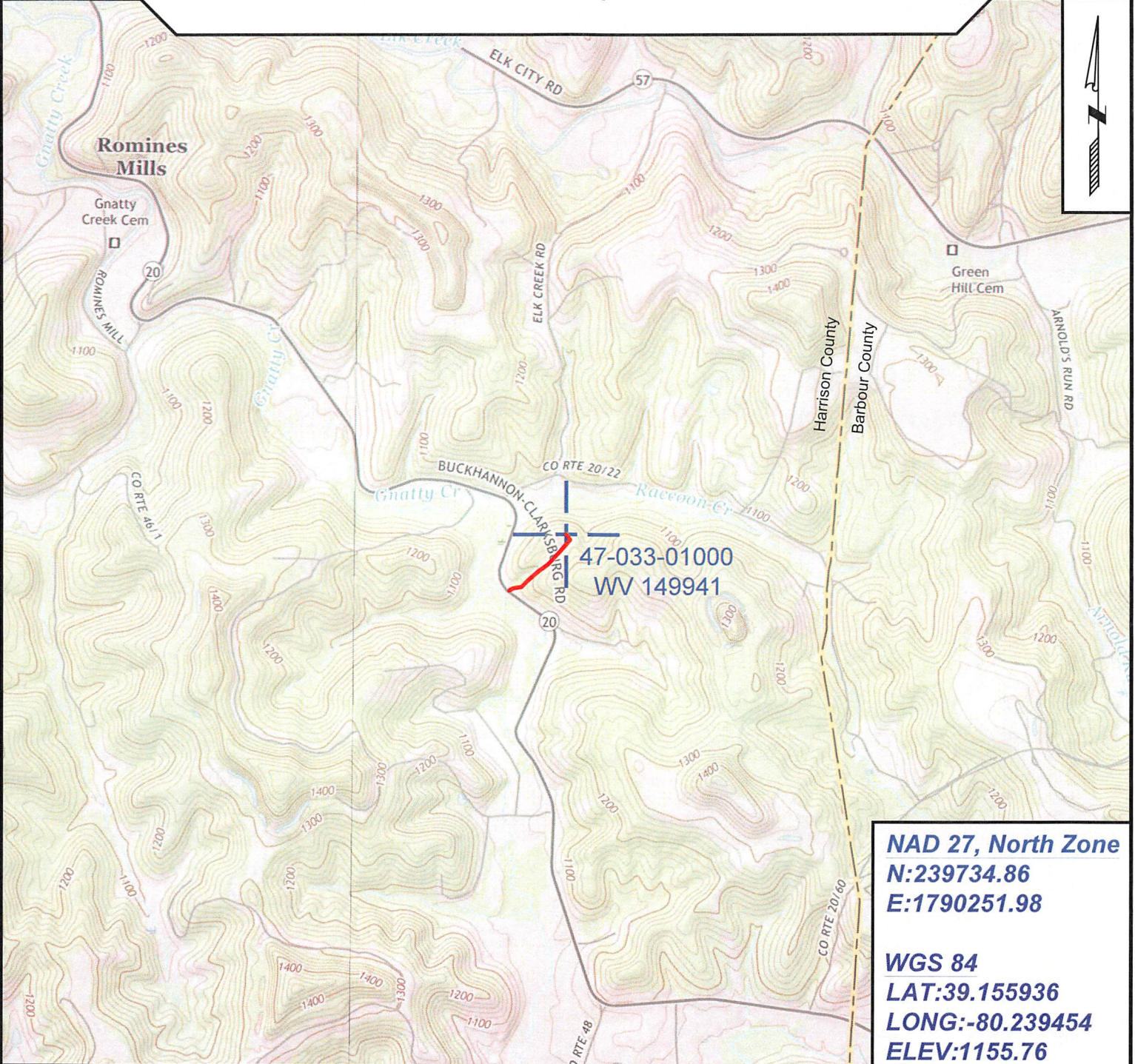
Date: May 07, 2019

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# 47-033-01000 WV 149941 (Caroline DuBois B-50)

Topo



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