



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

May 20, 2016

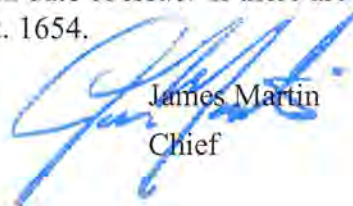
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-3301339, issued to EQT PRODUCTION COMPANY, 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 all 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. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: 2594
Farm Name: PIGOTT, C.
API Well Number: 47-3301339
Permit Type: Plugging
Date Issued: 05/20/2016

Promoting a healthy environment.

05/20/2016

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

PLUGGING PROGNOSIS

C.L.Pigott (453091)
 District, Clay
 Harrison Co. WV
 API # 47-033-01339

BY: R. Green
 DATE: 10/6/15

CURRENT STATUS:

Elevation @ ????
 TD at 2703' (plugged back to 2558' in 1914)

10" csg @ 254'
 7" csg @ 1585'
 5" csg @ 1655' (set on packer at 1630')

Fresh Water @ none reported
 Coal, @ 201' to 209'
 Saltwater @ none reported
 Gas show @ 1995', 2142', 2495'

1. Notify State Inspector, Sam Ward, 304-389-7583. 24 hrs. in advance of commencing operations.
2. RIH wireline, check TD. *Spot Gel to TD.*
3. TIH tbg to 2500', set 600' C1A cement plug 2500' to 1900'. (gas shows at 1995', 2142', 2495')
4. TOOH tbg to 1900', gel hole 1900' to 1700'.
5. TOOH tbg to 1700', set 200' C1A cement plug 1700' to 1500'. (5" csg seat, 5" packer, 7" csg seat.) TOOH tbg.
6. Free point 5" casing cut casing at free point, set 100' C1A cement plug 50' in/out of cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs. TOOH tbg.
7. Free point 7" casing, cut casing at free point. TOOH casing.
8. Set 100' C1A cement plug 50' in/out of cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
9. TOOH tbg to 1000' set 200' C1A cement plug 1000' to 800'.
10. TOOH tbg to 800', gel hole 800' to 300'.
11. TOOH tbg to 300', set 300' C1A cement plug 300' to surface. (10" casing seat).
12. Erect monument with API# and date.
13. Reclaim location and road to WV-DEP specifications.
14. * May need to revise plugs after getting elevation from survey. * Supply Inspector

Office w/new plug schedule if amended.

SDC

5/13/16

05/20/2016

District: *25-1314* REPAIRS N. *S 4 E 16 W*
 Commenced: *11-13-14* Completed: *11-13-14*
CASING AND TUBING RECORD

Size	Amount in Well		Amount Pulled	Amount Put in Well	Amount Left in Well	Disposition of Amount Pulled
	Before Repair	After Repair				
10	2547 1/2	2547 1/2			2547 1/2	Disposition of Amount Pulled SEP 22 1915 WELL BOOK LEASE RECORD LEASE DOCKET WALL MAP LINE MAP LOCATION BOOK CONTRACTOR'S PLAT CONTRACTOR: TITLE:
5 7/8	1885	1885			1885	
5 3/16	2214	2214	1655	1655	2214	
7	2714	2578	2714	2578	2578	

Packing	Before Repair		Pressure		After Repair		Pressure	
	Liquid Used	Reading	Rock or Minus	Pounds	Liquid Used	Reading	Rock or Minus	Pounds
	None taken				1/2 Water	29/10	Back	450

Names of Drillers	Time (Days)	Names of Tool Dressers	Time (Days)
<i>L. M. J. ...</i>	58	<i>John ...</i>	63
<i>W. ...</i>	41	<i>W. ...</i>	41
<i>...</i>	4		

If well is drilled deeper, insert below the record of deeper drilling

Formation	Top	Bottom	Formation	Top	Bottom
Total depth of well before repairs 2703 ft 8 ft was drilled making 2711 ft and well was filled up to 2558 ft.					
Total depth		2558 ft.			

SHOOTING RECORD

Date	Gauge	Top of Shell	Bottom of Shell	Diameter	Sand	Test Before Shot			Test After Shot			By Whom Shot
						Reading	Liquid	Opening	Reading	Liquid	Opening	
3-14	36	2494	2507	4 1/4	4 1/4	3/10	Water	2"	Wire bridges	Cased	M. D. Co.	
not gas but after shot												

PACKER RECORD

Kind	Amount Anchor	Amount Above Anchor	Remarks
6/8 Anchor	25	1630	Set in Inj. sand
1/2 "	150	2428	Perforated at 2495 ft

Tubing Record if Well Never Previously Tubed

Tubed	Size	Amount Put in Well
7-14	2	2578

Size: 5 3/16" Casing cut at 1655 ft. pulled out and run back in well and in packer packer set at 1630 ft. anchor 25 ft. 1-5 3/16" steel hose on bottom. 11 ft 5 3/16" Casing between packer and perforations.

NOTE—Whenever a well is shot, tubed, drilled deeper or in any repaired, fill out this report so far as it relates to work done and promptly.

H. White
 Foreman

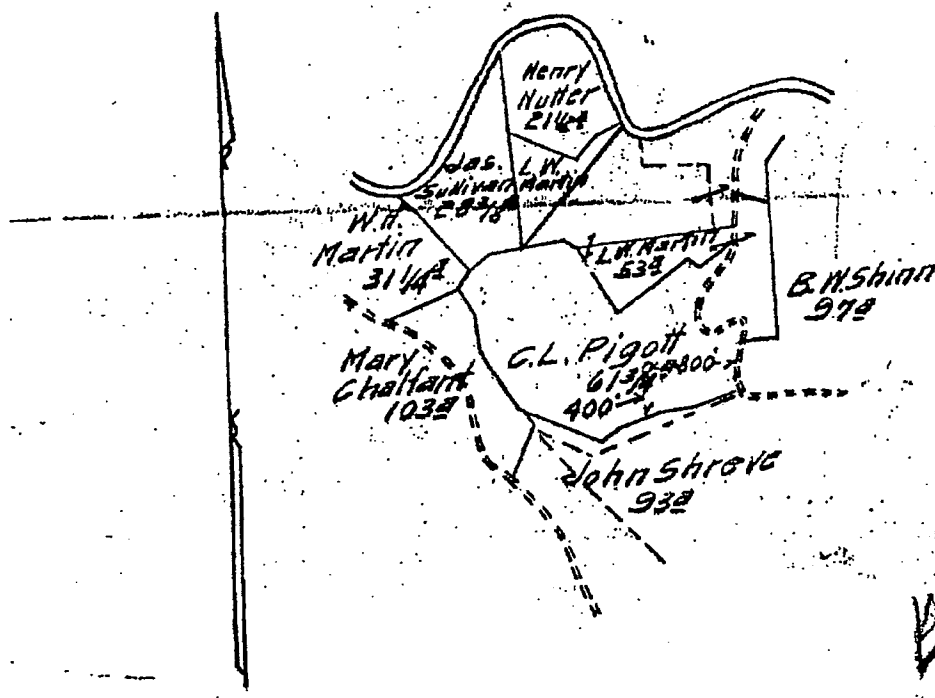
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 Office of Oil & Gas

APR 18 2016

LOCATION FOR WELL No. 2594

Buffalo DISTRICT
 Carter Light Farm, on waters of *Bigannon Creek*
 District *Barren* County, *West*
 No. *17490* Acres *60 2* N *4* S *16* E *16* W
 Scale, one inch equals *80 Paces* Sent to *J.P.C. H. 13-1912*
 Location to be *300 feet from the center of road and 400 feet from John Shrove farm line*

033-1339



HI

Received Office of Oil & Gas

APR 18 2016

RESERVE *Three hundred feet around the buildings.*

SPECIAL INSTRUCTIONS *Complete well on before Oct. 27, 1912. Cement 10" casing inside Fairmount Coal Co.*

Location made *4-22-12* by *W.B. Brassey* as per plat, except as noted. On field map *4-22-12* Returned to Pittsburgh *4-22-12*

Location changed on account of _____

Authorized by _____ Date _____ Signed by _____

05/20/2016

3301339A

WW-4-A
Revised 6/07

1) Date: April 12, 2016
2) Operator's Well Number
453091 (C. Pigott W-2594)
3) API Well No.: 47 033 - 01339
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
NOTICE AND APPLICATION TO PLUG AND ABANDON WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator:
(a) Name <u>William Salerno</u> ✓	Name <u>None</u>
Address <u>148 Twin Pine Road</u>	Address _____
<u>Shinnston, WV 26431</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Attention: Alex O'Neill</u>
_____	Address <u>Murray Energy Corporation</u> ✓
_____	<u>46226 National Road</u>
(c) Name _____	Address <u>St. Clairsville, OH 43950</u>
Address _____	Name _____
_____	Address _____
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>P. O. Box 2327</u>	Name <u>None</u>
<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.

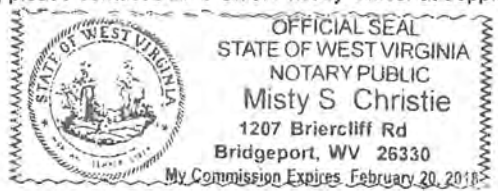
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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 Division 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:	<u>EQT Production Company</u>
By:	<u>Victoria J. Roark</u> ✓
Its:	<u>Permitting Supervisor</u>
Address:	<u>PO Box 280</u>
	<u>Bridgeport, WV 26330</u>
Telephone:	<u>(304) 848-0076</u>

Subscribed and sworn before me this 14th day of April, 2016
Misty S. Christie Notary Public
My Commission Expires: 2/20/18

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as 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.



Office of Oil & Gas

APR 18 2016

05/20/2016

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE**

Operator Name: EQT PRODUCTION COMPANY OP ID: _____
Watershed: Bingamon Creek Quadrangle: Shinnston 7.5'
Elevation: 1184 ft. County: Harrison District: Clay

Description of anticipated Pit Waste: Formation Fluids

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes ___ No X
Will synthetic liner be used in the pit? Yes Is so, what ml.? 20-10 ml gam

Proposed Disposal Method for Treated Pit Wastes:
 Land Application
 Underground Injection - UIC Permit Number _____
 Reuse (at API Number) - Various
 Offsite Disposal Permit #. See attached.
 Other: Explain _____

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. _____
If oil based, what type? Synthetic, petroleum, etc. _____
Additives to be used? _____

Will closed loop system be used? _____
Drill Cuttings disposal method? Leave in pit, landfill, remove offsite, etc. _____
If left in pit and plan to solidify what medium will be used? Cement, Lime, sawdust _____
Landfill or offsite name/permit number? _____

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any terms 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.

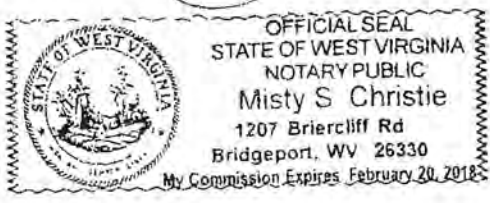
Company Official Signature *Victoria Roark*

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 2nd day of May, 2016

Misty S. Christie Notary Public
My Commission Expires 2/20/18





May 4, 2016

Mr. Jeff McLaughlin
West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304

Re: Revision of 47-033-01339

Dear Mr. McLaughlin,

Enclosed is an updated WW-9 for the above API number. The disposal method was updated from Land Application, which now requires a permit, to Reuse and Offsite Disposal. I have sent new pages to the inspectors for their signatures.

If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Vicki Roark'.

Vicki Roark
Permitting Supervisor-WV

Enc.

RECEIVED
Office of Oil and Gas
MAY 05 2016
WV Department of
Environmental Protection

EQT Production Water plan Offsite disposals
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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

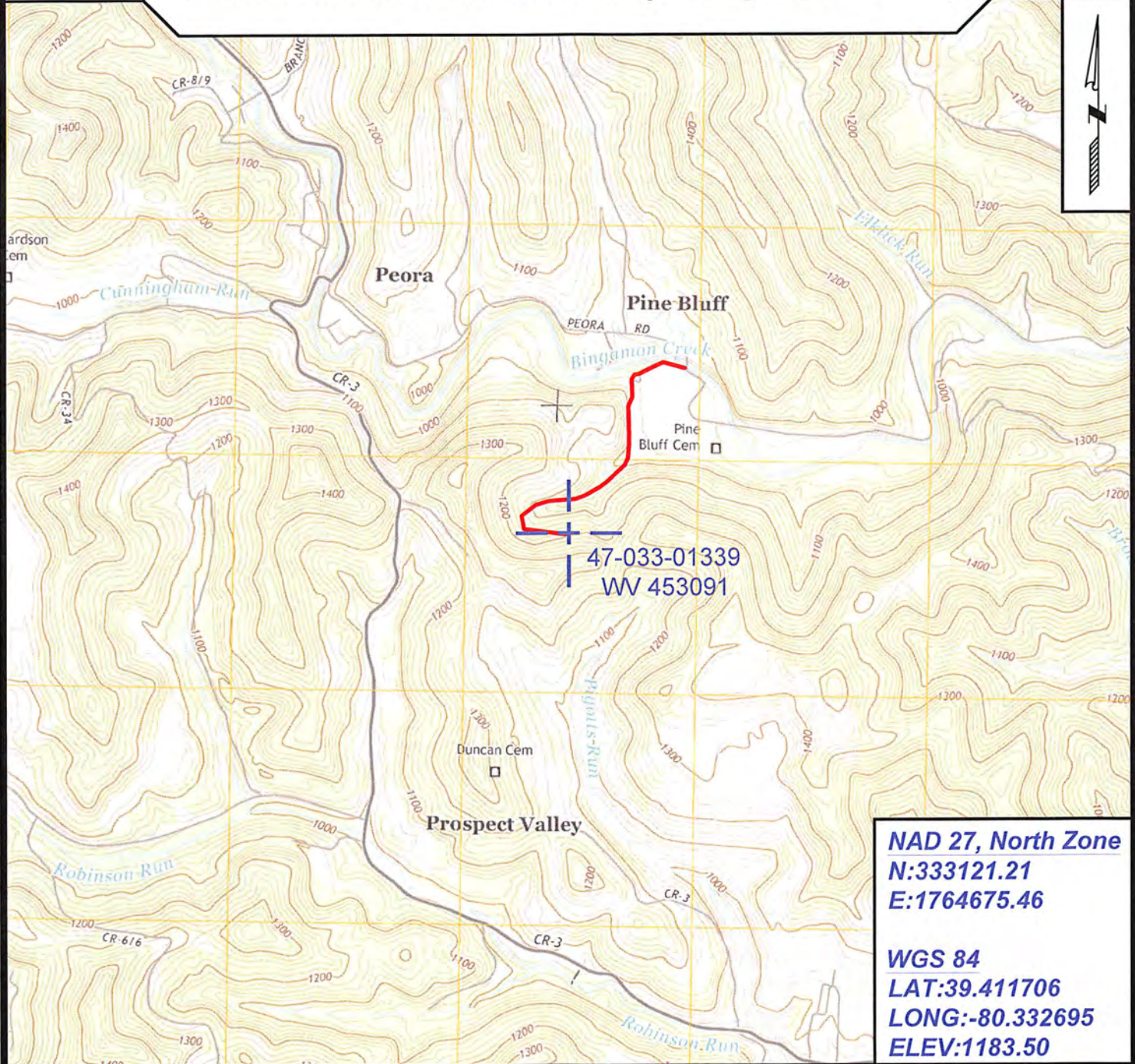
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MAY 05 2016
WV Department of
Environmental Protection

3301339A

Topo Quad: Shinnston 7.5' Scale: 1" = 2000'
 County: Harrison Date: March 10, 2016
 District: Clay Project No: 70-36-00-08

47-033-01339 WV 453091 (C. Pigott W-2594)

Topo



NAD 27, North Zone
N:333121.21
E:1764675.46

WGS 84
LAT:39.411706
LONG:-80.332695
ELEV:1183.50



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
 P.O. Box 280
 Bridgeport, WV 26330
 APR 18 2016

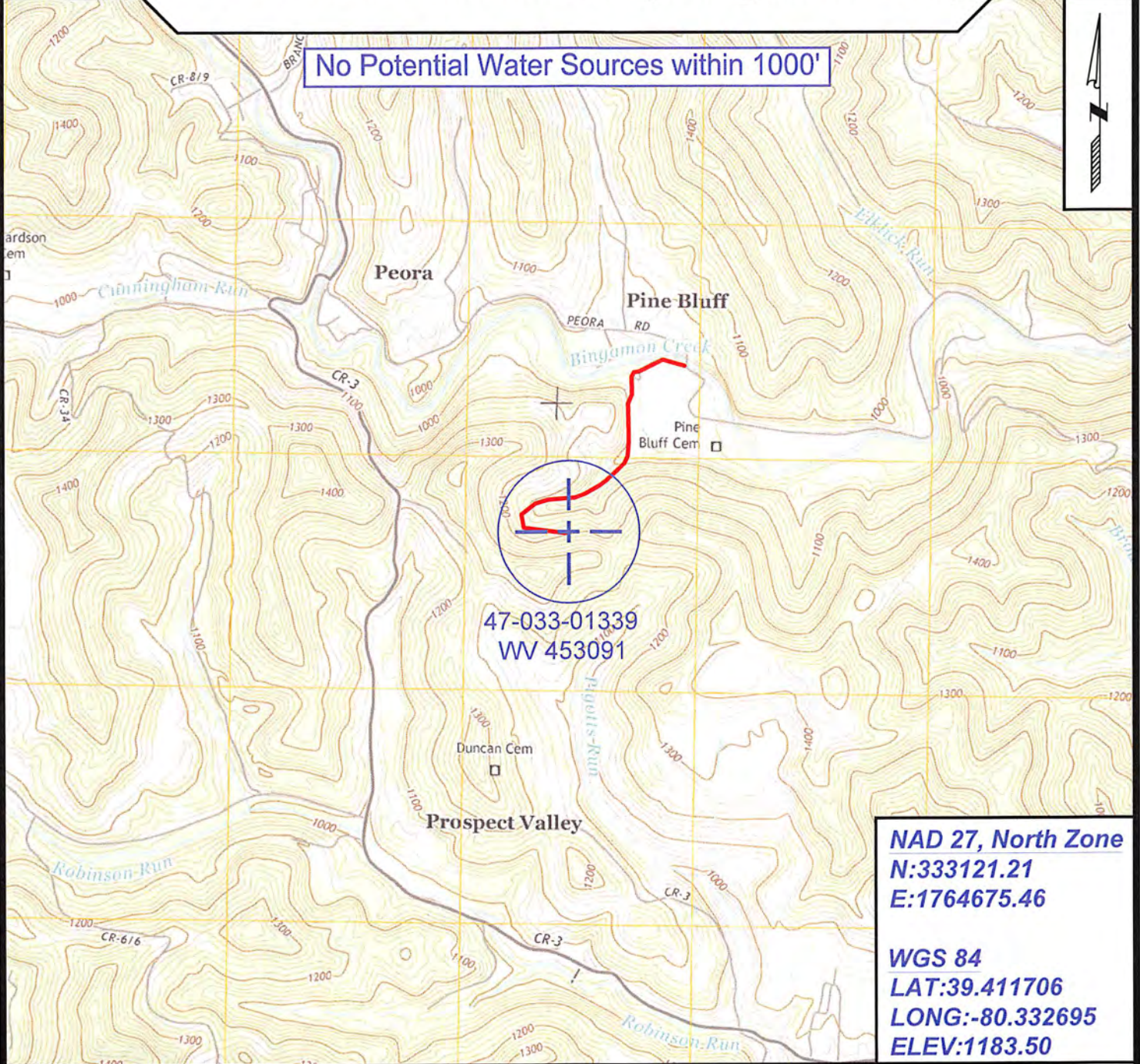
05/20/2016

Topo Quad: Shinnston 7.5' Scale: 1" = 2000'
 County: Harrison Date: March 10, 2016
 District: Clay Project No: 70-36-00-08

Water

47-033-01339 WV 453091 (C. Pigott W-2594)

No Potential Water Sources within 1000'



47-033-01339
WV 453091

NAD 27, North Zone
N:333121.21
E:1764675.46

WGS 84
LAT:39.411706
LONG:-80.332695
ELEV:1183.50



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PREPARED FOR:
EQT Production Company
 Received
 Office of Oil and Gas
 P.O. Box 280
 Bridgeport, WV 26330
 APR 18 2016



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
 LEASE NAME AND WELL No. C. Pigott W-2594 - WV 453091 - API No. 47-033-01339

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 453091.

Received
 Office of Oil & Gas
 APR 18 2016

BIRCH RIVER OFFICE

237 Birch River Road
 Birch River, WV 26610
phone: 304-649-8606
fax: 304-649-8608

BRIDGEPORT OFFICE

172 Thompson Drive
 Bridgeport, WV 26330
phone: 304-848-5035
fax: 304-848-5037

ALUM CREEK OFFICE

P.O. Box 108 • 1413 Childress Rd
 Alum Creek, WV 25003
phone: 304-756-2949
fax: 304-756-2948

MARTINSBURG OFFICE

25 Lights Addition Drive
 Martinsburg, WV 25404
phone: 304-901-2162
fax: 304-901-2182

