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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

Jim Justice , Governor  
Austin Caperton , Cabinet Secretary  
www.dep.wv.gov

Wednesday, January 03, 2018  
WELL WORK PERMIT  
Vertical / Plugging

EQT PRODUCTION COMPANY  
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for 4822  
47-085-03992-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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: 4822  
Farm Name: CAMPBELL  
U.S. WELL NUMBER: 47-085-03992-00-00  
Vertical / Plugging  
Date Issued:

Promoting a healthy environment.

01/05/2018

## 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.

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

Form WW-4 (B)  
Permit Copy  
(Rev 2/01)

Date: November 9, 2017  
Operator's Well \_\_\_\_\_  
Well No. 604822 (Campbell #4822)  
API Well No.: 47 085 - 03992

Check # 21606  
11-14-17  
\$1,000

STATE OF WEST VIRGINIA  
DIVISION 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) Elevation: 1107 ft. Watershed: Otterslide Creek  
Location: Union County: Ritchie Quadrangle: Oxford 7.5'  
District: \_\_\_\_\_

6) Well Operator EQT Production Company 7) Designated Agent: Rex C. Ray  
Address: 120 Professional Place Address: 120 Professional Place  
Bridgeport, WV 26330 Bridgeport, WV 26330

8) Oil & Gas Michael Goff 9) Plugging Contractor:  
Name: 1723 Auburn Road Name: HydroCarbon Well Service  
Address: Pullman, WV 26421 Address: PO BOX 995  
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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Office of Oil and Gas  
NOV 22 2017  
WV Department of  
Environmental Protection

OFFICE USE ONLY

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

Work order approved by inspector \_\_\_\_\_ Date \_\_\_\_\_

## PLUGGING PROGNOS

604822  
 J.M.Campbell  
 API# 47-085-003992  
 District,  
 Ritchie County, WV

BY: R Green  
 DATE: 10/17/17

**CURRENT STATUS:**

**TD @ 2071'**  
**Elevation @ 1106'**

10" casing @ 185'  
 8 1/4" casing @ 980'  
 6 5/8" casing @ 1916'  
 3" tubing @ 2017' (Set on 3"X 6 5/8" packer @ 1950')

**Fresh Water @** None Reported  
**Saltwater @** None Reported  
**Oil Show @** None Reported  
**Gas shows @** 1605' (2<sup>nd</sup> Salt Sand), 1965' (Big Injun)  
**Coal @** None Reported

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1. Notify inspector, Michael Goff @ 304-549-9823, 24 hrs. prior to commencing operations.
2. TIH, check TD @ or below 1965'.
3. TIH and cut 3" tubing @ top of packer @ 1950', TOO H 3" tubing.
4. TIH and spot 30 bbl. of 6% gelled water followed by a 250' C1A cement plug, 1950' to 1700' (Packer @ 1950', and 6 5/8" casing seat).
5. WOC 8 hrs. Tag TOC, add additional C1A cement if necessary.
6. Free point 6 5/8" casing, cut casing @ free point, TOO H casing.
7. Set 100' C1A cement plug 50' in/out of casing cut. Perforate all saltwater, freshwater, coal, oil and gas shows below cut. Do not omit any plugs.
8. TOO H to 1200' set a 350' C1A cement plug 1200' to 850' (Elevation and 8 1/4" casing seat).
9. Free point 8 1/4" casing, cut casing @ free point, TOO H casing.
10. Set 100' C1A cement plug 50' in/out of casing cut. Perforate all saltwater, freshwater, coal, oil and gas shows below cut. Do not omit any plugs.
11. TOO H to 335' set a 200' C1A cement plug 335' to 135'. (10" casing seat).
12. Free point 10" casing, cut casing @ free point, TOO H casing.
13. Set a C1A cement plug 50' in casing cut to surface. Perforate all saltwater, freshwater, coal, oil and gas shows below cut. Do not omit any plugs.
14. \* Note, if unable to cut and pull 10" casing, TIH and perforate 10" casing with 4 holes each @ 100', 75', & 50'. TIH to 135', and set a 135' C1A cement plug 135' to surface.
15. Erect monument with API#, date plugged, company name, and company 6-digit ID#.
16. Reclaim location and road to WV-DEP specifications.

01/05/2018



85-03992P

DATE	FORMATIONS	TOP	BOTTOM	GAS AT	OIL AT	WATER AT	FORMATIONS	TOP	BOTTOM	GAS AT	OIL AT	WATER AT	CLASSIFICATION C				
													SIZE	PUT IN	DATE	PULLED	DATE
	WAYNESBURG COAL						SANTZ 10' SAND						C				
	MAKETOWN "						35' SAND (NEEVAN)						C				
	REDEBURG "						BREE SAND (BLUR MON.)						C				
	PITTSBURGH "						SOR. STRAY SAND						C				
6-20-22	MURPHY SAND						GORDON SAND (THIRD)						C				
7-20-22	AMES LIMESTONE						ETH "						C				
	BARBERTON COAL						ETH A "						C				
	L. DONKARD SAND						ETH " (MCDONALD)						C				
	B. DONKARD SAND						ETH A "						C				
	UPPER FREEPORT COAL						RAYARD " (SUCD)						C				
	L. " "						RAYARD STRAY SAND						C				
	U. RITT. "						" " STR. SD.						C				
	M. " "						ELIZABETH SAND						C				
	L. " "						1ST WARREN SAND						C				
	VAMPOUR LIME						INDO " "						C				
	GLADON COAL						SPEECH. STRAY SAND						C				
	BROOKVILLE COAL						SPEECHLEY SAND						C				
	1ST GAS SAND						TIONA SAND						C				
	MERCER COAL						1ST BALLTOWN SAND						C				
	1ST SALT SAND	1440	1420				INDO " "						C				
	2ND " "	1370	1443	1605-15			2ND " "						C				
	3RD " "	1700	1755				SHEFFIELD "						C				
	MAINTON "	1792	1832				1ST BRADFORD " (BENSON)						C				
	LITTLE LIME	1842	1857				2ND " "						C				
	PENCIL CAVE	1857	1873				3RD " "						C				
	BIG LIME (KREMER)	1873	1963				PAKE SAND						C				
	BIG BRJON SAND	1863	2016	1905-81 (880.500)			ELK SAND						C				
	SCAW "						ORISKANY SAND						C				
	2ND GAS "												C				
	MURRYSVILLE SAND (BEREA)												C				
	M. C. F. (°)		2071										C				
	TOTAL DEPTH		2067	N.K. 9-5-58									C				
	TOTAL DEPTH		2060										C				

Had trouble with PACKER  
 BEAKING. Set CAVE CATCHER  
 AT 1995'. RAN 2 SACKS OF P  
 12.00/50 WATER &  
 6 hrs of Hydro. Tank. FFF  
 between casing & tubing  
 killed up Hole 40'.

SIZE	PUT IN	DATE	PULLED	DATE
13"				
10"		1925		
8 1/2"		2000		
8 1/2"		1916		
8 1/2"				
4 1/2"	2071	8-22-58		
3"	2067	10-5-44	2067	6-5
2"	2060		2060	9-44

DATE SET	KIND	SIZE	SET AT	DATE PULLED

PRYMASO 10-27-44 Am 69713 1950 6-9-58  
 3'x7'

CASING CEMENTED FROM TO

OIL DATA

OPEN FLOW VOLUME & PRESSURE DATA

LIQUID	SIZE		MINUTES										24 HR. @ DAY		VOLUME	PRODUCING SAND	
	OPENING	TUBING	1	2	3	5	15	30	60	90	120	R. P.	S. P.				
	3" 0.45		40	40	80	100	125	135	105	625	235	1400					
	3"																
W	3/4	3"	1	2 1/2	4	5 1/2	7				35	91	17 1/2	32 5/8"			
												113	48				

PIPE LINE DATA

C/O NO.	DATE LAID	DATE RCL'D	SIZE	FEET LAID	FEET RCL'D	REMARKS

DATE TURNED IN LINE DATE DISCONNECTED

VOLUME FACTOR DATA

PREVIOUS PRESENT

REPAIR AND DRILLING DEEPER

SHOOTING RECORD

REASON	COMMENCED	COMPLETED	C/O OR D/O TO	VOLUME		ROCK PRESS.		DATE	AMT.	DEPTH	VOLUME	
				BEFORE	AFTER	BEFORE	AFTER				BEFORE	AFTER
# 4822				47	085			9-20-44	608	1968	3070	35M

11

WW-4-A  
Revised 6/07

1) Date: November 9, 2017  
2) Operator's Well Number  
604822 (Campbell #4822)  
3) API Well No.: 47 085 - 03992  
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**

RECEIVED  
Office of Oil and Gas

NOV 22 2017

WV Department of  
Environmental Protection

4) Surface Owner(s) to be served:  
(a) Name Craig and Amy Williams  
Address 6390 Rotherby Circle  
Hudson, OH 44236  
  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
6) Inspector Michael Goff  
Address 1723 Auburn Road  
Pullman, WV 26421  
Telephone (304) 549-9823

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
  
(b) Coal Owner(s) with Declaration  
Name Craig and Amy Williams  
6390 Rotherby Circle  
Address Hudson, OH 44236  
  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
(c) Coal Lessee with Declaration  
Name None  
Address \_\_\_\_\_  
  
Name \_\_\_\_\_  
Address \_\_\_\_\_

**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.

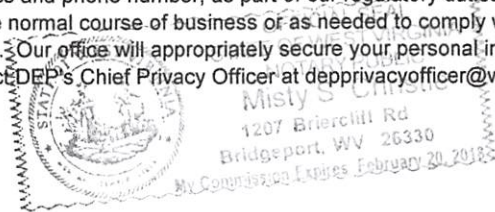
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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: EQT Production Company  
By: Victoria J. Roark  
Its: Regional Land Supervisor  
Address: PO Box 280  
Bridgeport, WV 26330  
Telephone: (304) 848-0076

Subscribed and sworn before me this 14th day of November, 2017  
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](mailto:depprivacyofficer@wv.gov).



01/05/2018



1) Date: November 9, 2017  
 2) Operator Well Number: 00000 (Assigned #4227)  
 3) Well Name: 00000  
 State: Pennsylvania County: Franklin

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

RECEIVED  
 Office of Oil and Gas  
 NOV 9 2017

(a) Operator	Name	Address	City	State	Zip	Telephone
None	None	None	None	None	None	None
(b) Operator with Decision	None	None	None	None	None	None
(c) Operator with Decision	None	None	None	None	None	None

TO THE EXTENT INDICATED ABOVE  
 You should have to send this Form and the following documents  
 (1) The location to plug and abandon a Well on Form WVA-171 which sets out the criteria involved in the  
 work and describes the well to be plugged and the plugging work order and  
 (2) The pluggers' map showing the well location on Form WVA-6  
 The reason you received this document is that you have rights regarding the application which are summarized in the  
 instructions on the back of this form. However, you are not required to take any action at all.  
 This notice is being sent to you by the West Virginia Department of Environment and Natural Resources to advise you of the  
 filing of this application and to provide you with a period of time to file a comment with the Chief  
 of the Office of Oil and Gas, West Virginia Department of Environment and Natural Resources, at the well location.  
 A copy of this notice is also being sent to the applicant. If you have any questions regarding this notice, please contact the  
 applicant or the Chief of the Office of Oil and Gas, West Virginia Department of Environment and Natural Resources, at the  
 address or telephone number indicated above or at the address or telephone number indicated below.

West Virginia  
 by  
 Address  
 Telephone  
 8000 Road Support  
 P.O. Box 280  
 Charleston, WV 25301  
 (304) 248-3076  
 EGT Production Company  
 Victoria J. Rose  
 Regional Land Support  
 P.O. Box 280  
 Charleston, WV 25301  
 (304) 248-3076

If you have any questions about this notice or the application, please contact the Chief of the Office of Oil and Gas, West Virginia Department of Environment and Natural Resources, at the address or telephone number indicated above or at the address or telephone number indicated below.  
 The Office of Oil and Gas does not guarantee that you will receive a response to your comments or questions. Your comments and questions may be discussed with other state agencies in the normal course of business and may be shared with other state agencies.  
 If you have any questions about this notice or the application, please contact the Chief of the Office of Oil and Gas, West Virginia Department of Environment and Natural Resources, at the address or telephone number indicated above or at the address or telephone number indicated below.

WW-9  
Revised 5/16

Page \_\_\_\_ of \_\_\_\_  
2) Operator's Well Number  
**604822 (Campbell #4822)**  
3) API Well No.: 47 085 - 03992

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**NOV 22 2017**  
WV Department of  
Environmental Protection

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

Operator Name: EQT PRODUCTION COMPANY OP CODE: \_\_\_\_\_

Watershed (HUC 10): Otterslide Creek Quadrangle: Oxford 7.5'  
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes \_\_\_ No X

Will a pit be used? Yes X No \_\_\_  
If so, please describe anticipated pit waste: \_\_\_\_\_ **Formation Fluids** \_\_\_\_\_

Will a synthetic liner be used in the pit? Yes X No \_\_\_ Is so, what ml.? 10 ml

Proposed Disposal Method for Treated Pit Wastes:

- \_\_\_\_ Land Application (if selected provide a completed form WW-9-GPP) \_\_\_\_\_ )
- \_\_\_\_ Underground Injection (UIC Permit Number \_\_\_\_\_) \_\_\_\_\_ )
- X Reuse (at API Number -- Various \_\_\_\_\_) \_\_\_\_\_ )
- X Off Site Disposal Permit (Supply form WW-9 for disposal location. See attachment) \_\_\_\_\_
- \_\_\_\_ 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, 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? \_\_\_\_\_

Permittee shall provide written notice to the Office of the 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 Division 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.

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]

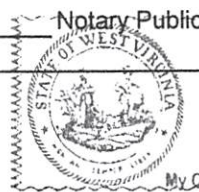
Company Official (Typed Name) Victoria J. Roark

Company Official Title Regional Land Supervisor - WV

Subscribed and sworn before me this 14th day of November, 2017

My Commission Expires 2/20/18

[Signature: Misty S. Christie]



OFFICIAL SEAL  
STATE OF WEST VIR  
NOTARY PUBLI  
Misty S **01/05/2018**  
1207 Briercliff Rd  
Bridgeport, WV 26330  
My Commission Expires February 20, 2018



3) APN Well No.: 47 088 - 03882  
604822 (Campbell #4822)  
3) Operator's Well Number

RECEIVED  
Office of Oil and Gas

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION

OFFICE OF OIL & GAS

FLUIDS: OILFIELD DISPOSAL & RECLAMATION PLAN

Environmental Protection  
WV Department of

NOV 2 2018

Operator Name: EGT PRODUCTION COMPANY

OR CODE:

Watershed (HUC 10): Oxtongue Creek

County: Oxford, W.V.

Do you anticipate using more than 6,000 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.

Will a synthetic liner be used in the pit? Yes  No

Proposed Disposal Method for Treated Pit Wastewater:

Land Application (if selected provide a completed form WW-8-CPL)

Underground Injection (UIC) Permit Number

Permit Number - Vented

On Site Disposal Permit (Supply form WW-8 for disposal location. See attachment)

Other (Specify)

Will closed loop system be used? Yes  No

Drilling muds anticipated for this well (vertical and horizontal)? All freshwater, oil based, etc.

If oil based, what type? Synthetic, bituminous, etc.

Additives to be used in drilling muds?

Will oilfield disposal methods be used? (oil, synthetic, treated, etc.)

If so, list and how much (initially) will be used? (format: Line number, substance)

List of other equipment to be used:

Permittee shall provide a written notice to the Office of Oil and Gas of any form of drilling or completion work 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, 2014, 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.

application form and all documents thereto and that based on my review of these documents I am aware that there are significant penalties for submitting false information, including the possibility of fines or imprisonment.

Company Official Signature

Company Official (Typed Name): Victoria J. Boak

Company Official Title: Regional Land Supervisor - WV

Signature and name of person receiving this: \_\_\_\_\_ day of \_\_\_\_\_ 2018

Public Hearing

DATE: 11/02/2018

TIME: 10:00 AM

LOCATION: \_\_\_\_\_

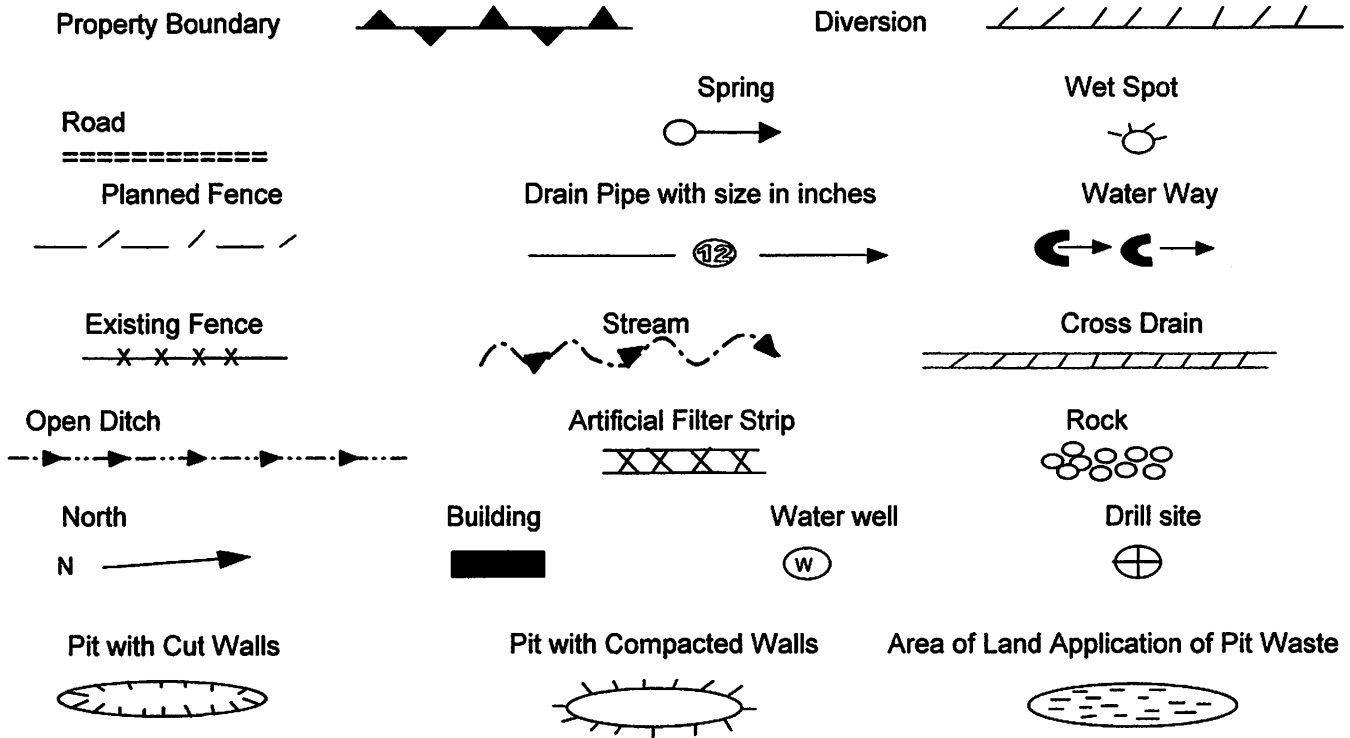
BY: \_\_\_\_\_

My Commission Expires

01/05/2018

**OPERATOR'S WELL NO.:**  
604822 (Campbell #4822)

**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH         

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20) or equivalent 1/3 ton lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre or hydroseed.

**SEED MIXTURES**

**Area I**

**Area II**

Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

**ATTACH:**  
 Drawing(s) of road, location, pit and proposed area for land application.  
 Photocopies section of involved 7.5' topographic sheet.

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 Office of Oil and Gas

NOV 22 2017

Plan approved by: \_\_\_\_\_

Comments: \_\_\_\_\_  
 WV Department of Environmental Protection

Title: \_\_\_\_\_ Date: \_\_\_\_\_  
 Field Reviewed?      Yes      No

**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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Office of Oil and Gas

NOV 22 2017

WV Department of  
Environmental Protection

01/05/2018



Topo Quad: Oxford 7.5'

Scale: 1" = 200'

RECEIVED  
Office of Oil and Gas

County: Ritchie

Date: October 12, 2017

NOV 22 2017

District: Union

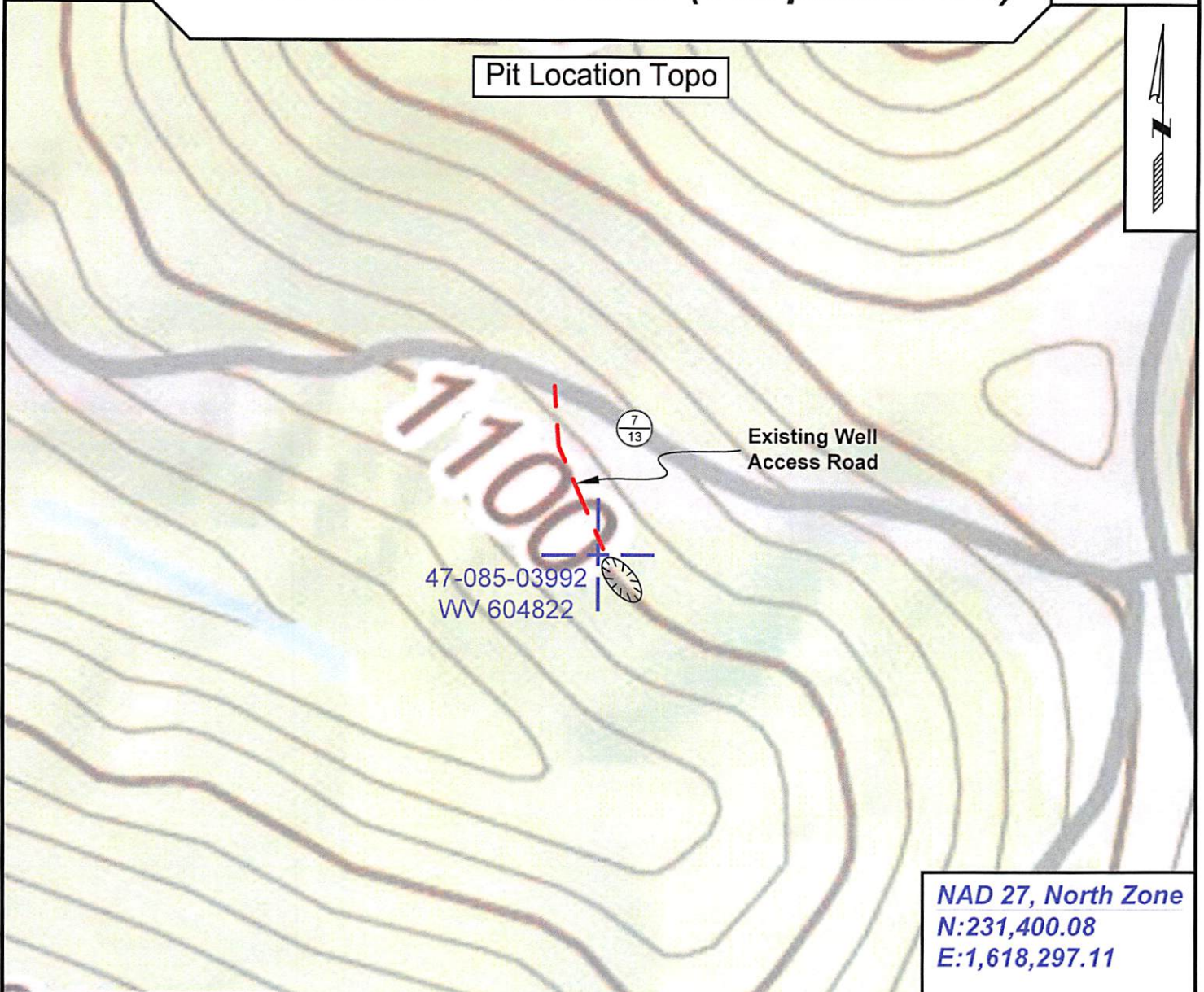
Project No: 68-38-00-08

WV Department of  
Environmental Protection

**47-085-03992 WV 604822 (Campbell #4822)**

Topo

Pit Location Topo



47-085-03992  
WV 604822

Existing Well  
Access Road

NAD 27, North Zone  
N:231,400.08  
E:1,618,297.11

WGS 84  
LAT:39.127567  
LONG:-80.845336  
ELEV:1106.74

**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**

P.O. Box 280  
Bridgeport, WV 26330

Topo Quad: Oxford 7.5'

Scale: 1" = 500'

County: Ritchie

Date: October 12, 2017

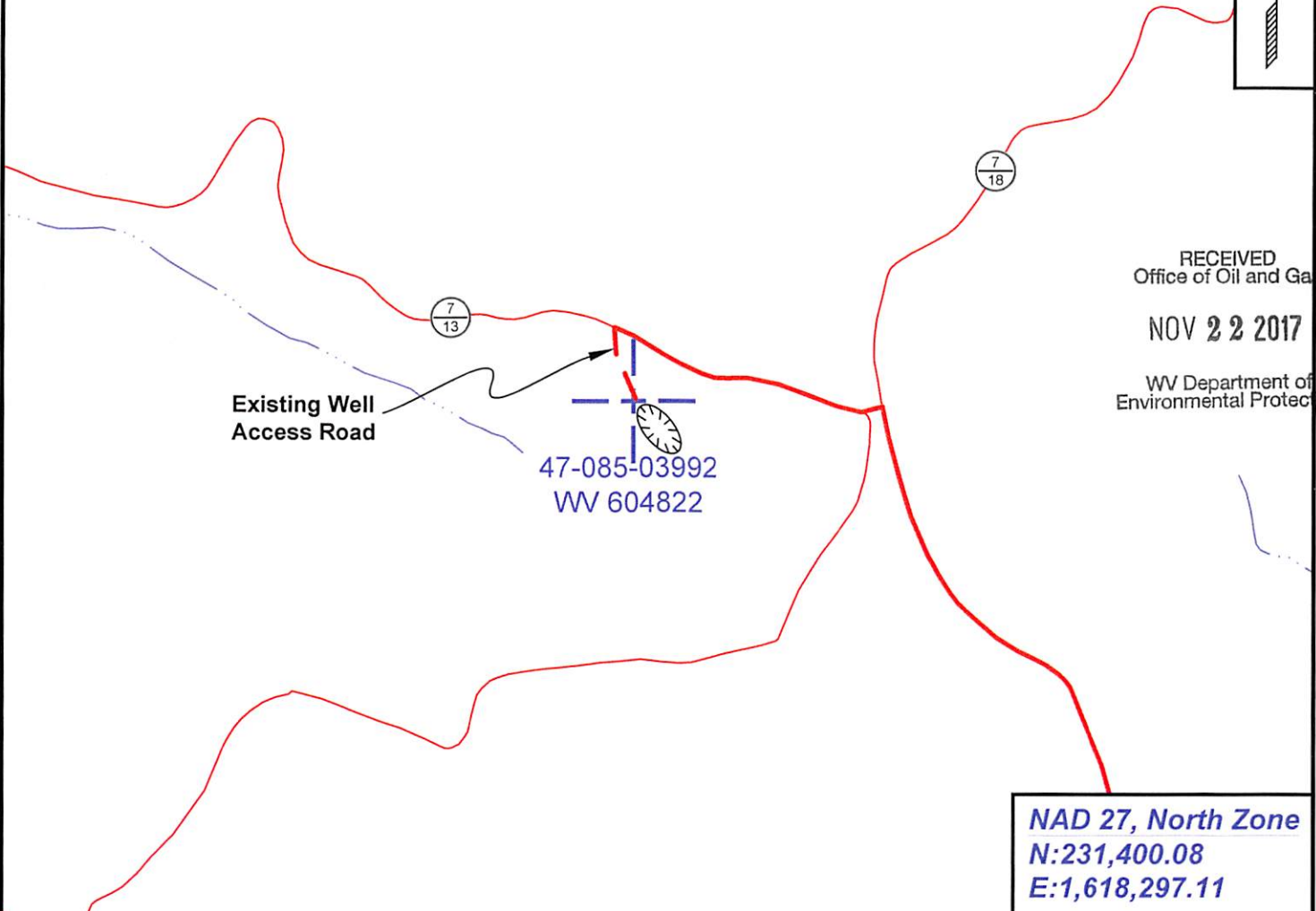
District: Union

Project No: 68-38-00-08

Highway

**47-085-03992 WV 604822 (Campbell #4822)**

**Pit Location Map**



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WV Department of  
Environmental Protection


Existing Well  
Access Road

47-085-03992  
WV 604822

**NAD 27, North Zone**  
N:231,400.08  
E:1,618,297.11

**WGS 84**  
LAT:39.127567  
LONG:-80.845336  
ELEV:1106.74

**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**

P.O. Box 280  
Bridgeport, WV 26330

01/05/2018



Topo Quad: Oxford 7.5'

Scale: 1" = 2000'

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County: Ritchie

Date: October 12, 2017

NOV 22 2017

District: Union

Project No: 68-38-00-08

WV Department of  
Environmental Protection

# 47-085-03992 WV 604822 (Campbell #4822)

Topo



**NAD 27, North Zone**  
**N:231,400.08**  
**E:1,618,297.11**

**WGS 84**  
**LAT:39.127567**  
**LONG:-80.845336**  
**ELEV:1106.74**



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 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





## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
 LEASE NAME AND WELL No. Campbell #4822 - WV 604822 - API No. 47-085-03992

### POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 604822.

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WV Department of  
Environmental Protection

**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



Topo Quad: Oxford 7.5'

Scale: 1" = 2000'

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Office of Oil and Gas

County: Ritchie

Date: October 12, 2017

NOV 22 2017

District: Union

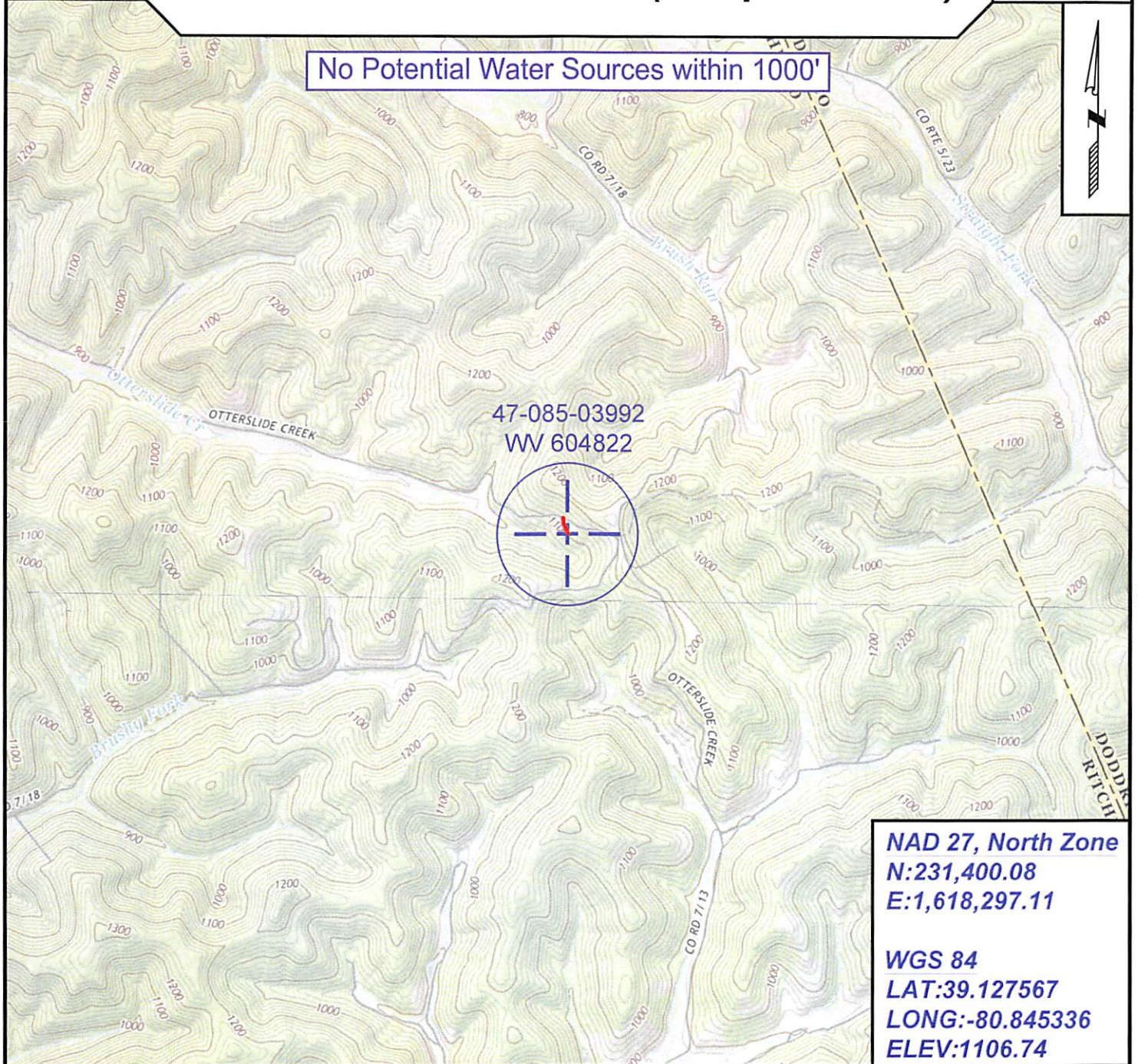
Project No: 68-38-00-08

WV Department of  
Environmental Protection

Water

# 47-085-03992 WV 604822 (Campbell #4822)

No Potential Water Sources within 1000'



47-085-03992  
WV 604822

NAD 27, North Zone  
N:231,400.08  
E:1,618,297.11

WGS 84  
LAT:39.127567  
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PREPARED FOR:

**EQT Production Company**

P.O. Box 280  
Bridgeport, WV 26330



WW-7  
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Environmental Protection



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

API: 47-085-03992 WELL NO.: WV 604822 (Campbell #4822)

FARM NAME: J. M. Campbell

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Ritchie DISTRICT: Union

QUADRANGLE: Oxford 7.5'

SURFACE OWNER: Craig and Amy Williams

ROYALTY OWNER: Craig H. Williams, et al.

UTM GPS NORTHING: 4330944

UTM GPS EASTING: 513369 GPS ELEVATION: 337 m (1107 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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- 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]  
Signature

PS# 2180  
Title

10/27/17  
Date