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**west virginia** department of environmental protection

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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

November 17, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-2103166, 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: 7475  
Farm Name: DAVIS  
**API Well Number: 47-2103166**  
**Permit Type: Plugging**  
Date Issued: 11/17/2015

## 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.

Barry and Karen Lay  
943 Mineral Road  
Glennville, WV 26351

October 27, 2015

Mr. James Martin  
Chief, Office of Oil and Gas  
Division of Environmental Protection  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304

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Office of Oil and Gas

OCT 28 2015

WV Department of  
Environmental Protection

Re: Plugging permit for EQT Production Company Davis #7475 47-021-03166

Dear Mr. Martin:

We received notification from EQT Production Company, as the surface owners of the property, of their intent to plug and abandon the above captioned well. Although we have no objection to the plugging and abandonment of this well, we do feel the information we received with regard to reclamation is woefully lacking in content. This is a pre-1929 well drilled on a very small location with no discernible access road from the farm road located near the middle of our property. The location is covered with trees and brush and will surely need to be enlarged to accommodate the equipment necessary to plug this well. There exists nearby a short but very steep timber access road built prior to our acquisition of the property.

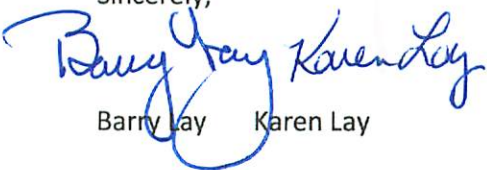
The following are our concerns with regard to the proposed plugging application:

- 1.) How does EQT intend on enlarging the well site and maintaining the integrity of our existing farm right?
- 2.) How does EQT intend on addressing the vegetation on the existing site?
- 3.) How is EQT going to access their well location to minimize erosion of the steep bank leading to the site?
- 4.) Finally, we object to the proposed disposal method for treating pit wastes being land application. This ground is steep and covered with trees and brush which will allow runoff into our existing road and the nearby stream.

11/20/2015

We understand and agree the existing well needs to be plugged however our concerns are the final restoration of our property and the stabilization of the existing soil. Therefore, we believe it is necessary that EQT provide more detail and a properly delineated reclamation plan for this site showing the location of their access road from our existing farm road and how they plan to enlarge the well site and prevent soil erosion. Thank you

Sincerely,



Barry Lay Karen Lay

Copy: EQT

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Office of Oil and Gas

OCT 28 2015

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Environmental Protection





November 12, 2015

Mr. James Martin  
Chief, Office of Oil and Gas  
Division of Environmental Protection  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304

Re: Objection to P&A Permit Application, Barry and Karen Lay, API # 47-021-03166  
EQT Well Number 607475, Gilmer Co., WV

Dear Mr. Martin,

EQT met with Barry and Karen Lay on site November 11, 2015. Upon initial viewing Mr. Lay discovered that he thought this was another well that was located further up on his property which was the basis of his objection. EQT does not own a lease or any wells on that parcel of property.

We reviewed the correct well location of the permit application. In discussions EQT addressed Barry and Karen Lay's concerns by the following:

- 1.) Brush from the location will be stacked properly beyond the powerline at the end of the location in order to keep the power line ROW clear for future maintainance.
- 2.) Will upgrade existing creek crossing with stone.
- 3.) Will install silt fence parallel to the creek on the bank above the creek between the well and creek.
- 4.) Install straw bales in the creek below the creek crossing as well as an absorbent boom to provide an abundance of caution during plugging operation.
- 5.) Will apply seed mixture as they have requested. Not to use KY31 fescue.
- 6.) Will notify Barry and Karen when starting construction and plugging operations.
- 7.) EQT will not Land Apply pit fluids but will haul off and properly dispose as per WVDEP regulations.

EQT has addressed the landowners concerns on the correct location site which are most always part of our normal operations. Therefore, EQT requests that the Plugging Application for 47-021-03166 be duly processed and issued. If you should have any additional questions please contact me at 304-552-7917.

Respectfully,

Rex C. Ray  
Regional Land Manager  
EQT Production Company

cc: Barry and Karen Lay, Jeff McLaughlin

CK 19898

100<sup>00</sup>

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

Date: October 19, 2015  
Operator's Well \_\_\_\_\_  
Well No. 607475 (Davis #7475)  
API Well No.: 47 021 - 03166

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: 857 ft. Watershed: \_\_\_\_\_  
Location: Glenville County: Gilmer Quadrangle: Glenville 7.5'  
District: \_\_\_\_\_
- 6) Well Operator EQT Production Company 7) Designated Agent: Rex C. Ray  
120 Professional Place Address: 120 Professional Place  
Address: Bridgeport, WV 26330 Address: Bridgeport, WV 26330
- 8) Oil & Gas Danny Mullins 9) Plugging Contractor:  
Name: 125 Big Trace Fork Road Name: HydroCarbon Well Service  
Address: Harts, WV 25524 Address: PO BOX 995  
Buckhannon WV 26201 Address: 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.**

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 10-22-15

## PLUGGING PROGNOSIS

Davis, R. #1 (607475)  
 Gilmer Co. WV  
 District, Glenville  
 API # 47-021-03166  
 BY: R.Green  
 DATE: 02/26/15

**CURRENT STATUS:**

10" @ 122'  
 8 1/4" @ 692'  
 6 5/8" @ 1482'  
 Elevation @ 856'

Fresh Water @ None reported  
 Salt Water @ None reported  
 Coal @ None reported  
 Gas Shows @ 435', 1325', 1559'  
 Oil show @ none reported

**DANNY MULLINS 1-304-932-6844**

1. Notify State Inspector, ~~Brian Harris 1-304-553-6087~~, 24 hrs. to commencing operations.
2. Free point 3" tubing, cut tubing @ free point (est @ 1540' top of packer). TOOH 3" tbg.
3. TIH tbg to 1540', set 150' C1A cement plug 1540' to 1390', (3" packer seat, 6 5/8" casing seat).
4. TOOH tbg to 1390', gel hole 1390' to 1200', TOOH tbg.
5. Free point 6 5/8" casing, cut casing @ free point, TOOH casing.
6. 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.
7. TOOH tbg to top of csg cut plug gel hole to elevation.
8. TOOH tbg to elevation @ 856', set 100' C1A cement plug across elevation.
9. TOOH tbg to top of elevation plug, gel hole top to 750'
10. TOOH tbg to 750' set 100' C1A cement plug 750' to 650' (8 1/4" casing seat).
11. TOOH tbg to 650' gel hole 650' to 400', TOOH tbg.
12. Free point 8 1/4" casing, cut csg @ free point, tooh csg.
13. Set 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.
14. TOOH tbg to top of csg cut plug, gel hole top to 200'.
15. TOOH tbg to 200' set 200' c1a cement plug 200' to surface.
16. Erect monument with API# and date.
17. Reclaim location and road to WV-DEP standards.

607475 103166

PITTSBURGH & WEST VIRGINIA GAS COMPANY  
 7475  
 November 23rd, 1927  
 Report of Well No. 7475 Roy Davis  
 Glenville { District } Union County

Drilled  
 Deeply  
 COPY

Drilled DEEPS  
 Drilling began 9-12-27 19 Completed 11-10-27 19  
 Cased with 1482 feet of 6-5/8" inch  
 " 1708 " 3" " 6-5/8" X 3" Anchor  
 Tubed with 1708 feet of 3" in. and 100' of anchor.  
 Top of Coal at

Give Name and Depth of the Various Sands Drilled to.

NAME OF SAND	TOP	BOTTOM	OIL AT	GAS AT
PREVIOUS DEPTH		1374'		
Sand	1390			
Little Line	1441			
Big Line	1475	1555		
Big Injun	1550	1645		1660

Well completed at a depth of 1708 feet, in Slate  
 First pressure test of well taken November 14, 1927  
 Open flow 4/10 (Mercury) in 3" opening - 95 lbs.  
 In 30 Seconds, - 5 pounds. In 5 Minutes, - 25 pounds  
 " 1 Minute, - 6 " " 10 " - 50 "  
 " 2 Minutes, - 10 " " 15 " - 100 "  
 " 3 " - 15 " " 20 " - "  
 " 4 " - 20 " " 30 " - "  
 Rock pressure 2400 in 24 Hours in 3"

Remarks  
 Dis. Supt.

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 Office of Oil and Gas  
 OCT 22 2015  
 WV Department of Environmental Protection  
 11/20/2015



WW-4-A  
Revised 6/07

1) Date: October 19, 2015  
2) Operator's Well Number  
607475 (Davis #7475)  
3) API Well No.: 47 021 - 03166  
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>Barry and Karen Lay</u>	Name <u>None</u>
Address <u>943 Mineral Road</u>	Address _____
<u>Glennville, WV 26351</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>See attachment</u>
_____	Address _____
_____	_____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Danny Mullins</u>	(c) Coal Lessee with Declaration
Address <u>125 Big Trace Fork Road</u>	Name <u>None</u>
<u>Harts, WV 25524</u>	Address _____
Telephone <u>(304) 932-6844</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.



OFFICIAL SEAL  
STATE OF WEST VIRGINIA  
NOTARY PUBLIC  
Misty S. Christie  
1207 Briercliff Road  
Bridgeport, WV 25330  
My Commission Expires February 23, 2018

Well Operator:  
EQT Production Company  
Victoria J. Roark  
Permitting Supervisor  
PO Box 280  
Bridgeport, WV 26330  
(304) 848-0076

Subscribed and sworn before me this 20th day of October, 2015  
Misty S. Christie Notary Public  
My Commission Expires: 2/23/18

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).

WW2-A

**Additional Coal Owners**

EQT Production Company  
EQT Plaza  
625 Liberty Avenue  
Suite 1700  
Pittsburgh, PA 15222

Paul Davis, Agent for Hugh W. Davis, et al.  
2220 Ottawa River Road  
Toledo, OH 43611

TW Mineral Account  
c/o Trio Petroleum Corp  
P. O. Box 880  
Glennville, WV 26351-0880

Wayne Cobb, Agent for Grace C. Mays McDaniel, et al.  
387 Hillman Road  
Akron, OH 44312

Ed Broome, Inc.  
6394 US Highway 33 East  
Glennville, WV 26351

Attention: Alvin L. Engelke  
Garnet Gas Company  
444 Richardsonville Road  
Creston, WV 26141-7578

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OCT 22 2015  
WV Department of  
Environmental Protection

11/20/2015



WW-9  
Revised 2/03

Page \_\_\_\_\_ of \_\_\_\_\_  
2) Operator's Well Number  
607475 (Davis #7475)  
3) API Well No.: 47 021 - 03166

**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: \_\_\_\_\_ Quadrangle: Glenville 7.5'

Elevation: 857 ft. County: Gilmer District: Glenville

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.? 10 ml 20 ml

Proposed Disposal Method for Treated Pit Wastes:

- Land Application
- Underground Injection - UIC Permit Number \_\_\_\_\_
- Reuse (at API Number) \_\_\_\_\_
- Offsite Disposal Permit #. \_\_\_\_\_
- 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 [Signature]

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 20th day of October, 2015

Misty S. Christie

My Commission Expires \_\_\_\_\_

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Office of Oil and Gas  
2015

OCT 22 2015

Notary Public



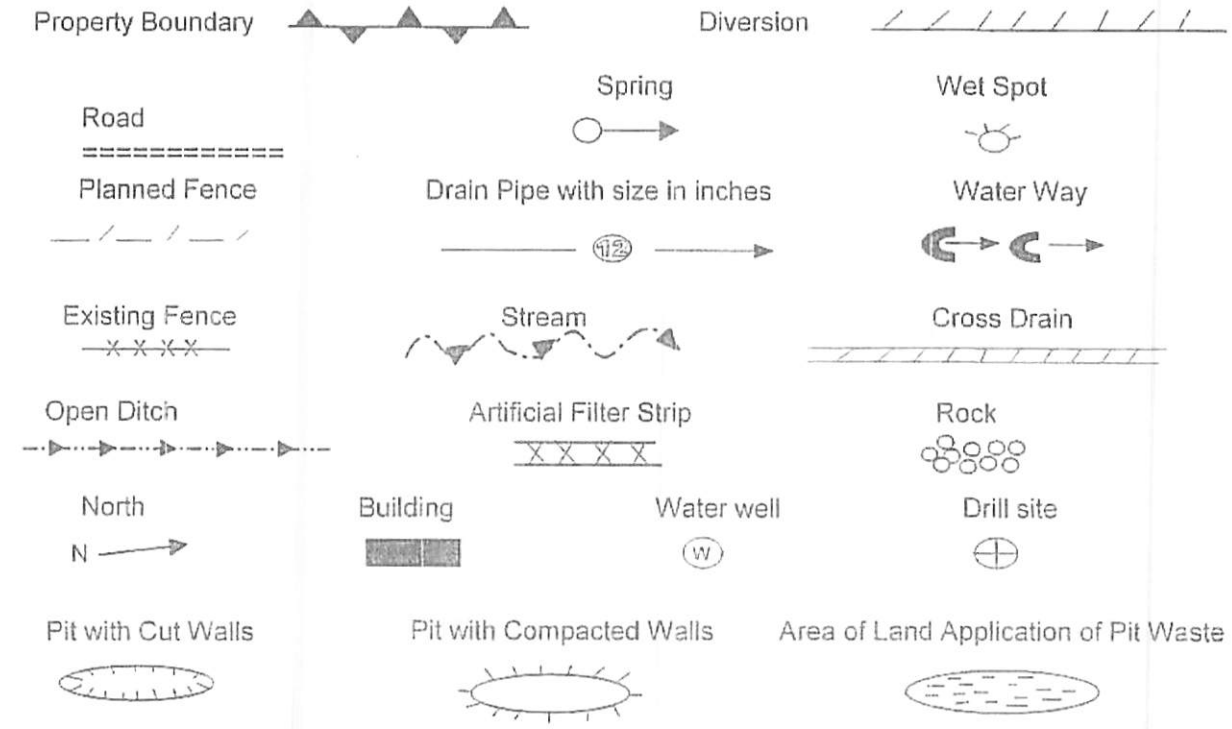
OFFICIAL SEAL  
STATE OF WEST VIRGINIA  
NOTARY PUBLIC  
Misty S. Christie  
1207 Briercliff Rd  
Bridgeport, WV 26330  
My Commission Expires February 20, 2018

WV Department of Environmental Protection

11/20/2015

OPERATOR'S WELL NO.:  
607475 (Davis #7475)

**LEGEND**



DM

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.

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

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

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





### POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
LEASE NAME AND WELL No. Davis #7475 - WV 607475 - API No. 47-021-03166

#### POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 940' +/- Owner: Barry K. and Karen D. Lay  
Address: 1500 Shadow Dance Dr., Cox's Mill, WV 26342 Phone No. \_\_\_\_\_  
Comments: \_\_\_\_\_

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OCT 22 2015

**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

**RAISON OFFICE**  
401 South Fairfax Blvd, Suite 3  
Ranson, WV 26330  
phone: 304-724-5008

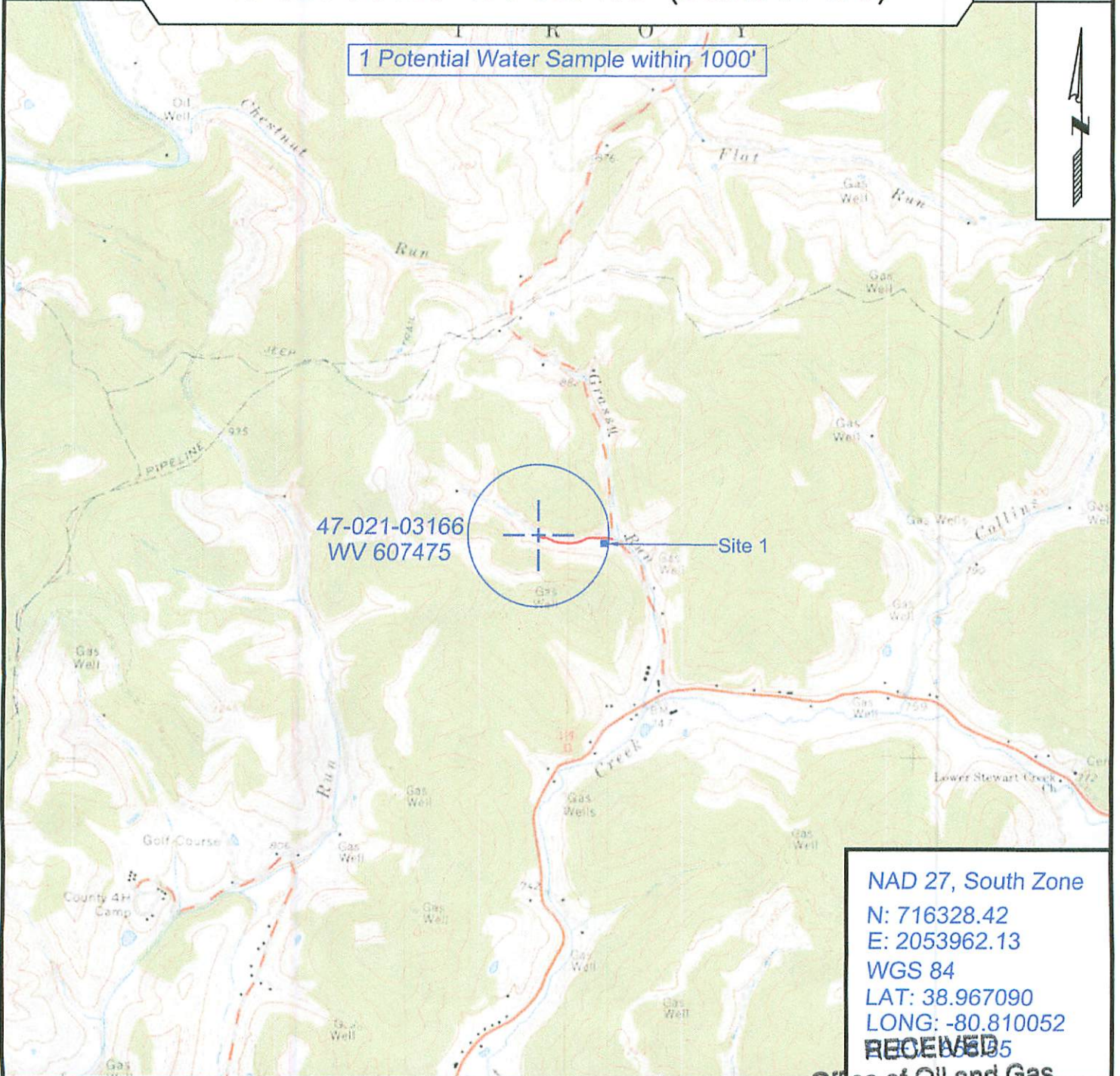
WV Department of  
Environmental Protection

Topo Quad: Glenville 7.5' Scale: 1" = 2000'  
 County: Gilmer Date: July 6, 2015  
 District: Glenville Project No: 25-19-00-07

Water

47-021-03166 WV 607475 (Davis #7475)

1 Potential Water Sample within 1000'



47-021-03166  
WV 607475

Site 1

NAD 27, South Zone  
 N: 716328.42  
 E: 2053962.13  
 WGS 84  
 LAT: 38.967090  
 LONG: -80.810052

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Office of Oil and Gas



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**

OCT 29 2015  
 P.O. Box 280  
 Bridgeport, WV 26630  
 WV Department of  
 Environmental Protection

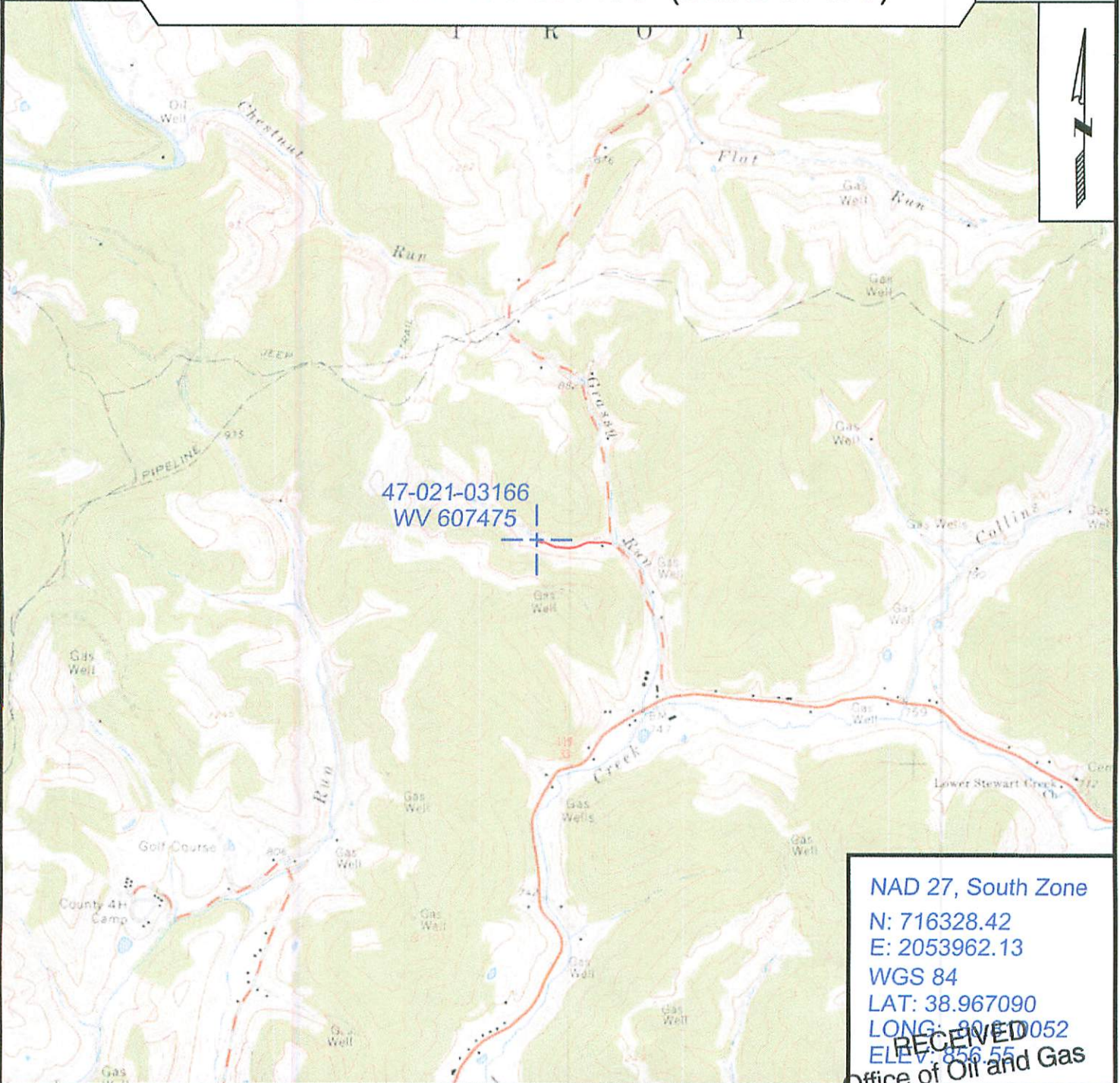
11/20/2015



Topo Quad: Glenville 7.5' Scale: 1" = 2000'  
 County: Gilmer Date: July 6, 2015  
 District: Glenville Project No: 25-19-00-07

47-021-03166 WV 607475 (Davis #7475)

Topo



47-021-03166  
 WV 607475

NAD 27, South Zone  
 N: 716328.42  
 E: 2053962.13  
 WGS 84  
 LAT: 38.967090  
 LONG: 80.810052  
 ELEV: 856.55  
 RECEIVED  
 Office of Oil and Gas



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 289  
 Bridgeport, WV 26330  
 Department of  
 Environmental Protection

OCT 22 2015

11/20/2015



