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

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 penalities 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

Promoting a healthy environment.

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.

2103166P
4702103166

Barry and Karen Lay
943 Mineral Road
Glenville, WV 26351

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OCT 28 2015
WV Department of
Environmental Protection

October 27, 2015

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

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.

4702103166 2103166P

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

Barry Lay Karen Lay

Copy: EQT

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4702103166

EQT

November 12, 2015

Mr. James Martin
Chief, Office of Oil and Gas
Division of Environmental Protection
601 57th 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 intial 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 Comapany

cc: Barry and Karen Lay, Jeff McLaughlin

4702103166

2103166P

CK 19898
100.00

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 Address:
EQT Production Company
120 Professional Place
Bridgeport, WV 26330

7) Designated Agent: Rex C. Ray
Address: 120 Professional Place
Bridgeport, WV 26330

8) Oil & Gas Name: Danny Mullins
Address: ~~125 Big Trace Fork Road~~ 220 Jack Accs Rd
~~Harts, WV 25524~~ Buckhannon WV 26201

9) Plugging Contractor:
Name: HydroCarbon Well Service
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.

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 Danny Mullins Date 10-26-15

2103166P

4702103166

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 ¼" @ 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 ¼" casing seat).
11. TOOH tbg to 650' gel hole 650' to 400', TOOH tbg.
12. Free point 8 ¼" 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.

4702103166

607475

Drilled Deeper COPY

2103166P

PITTSBURGH & WEST VIRGINIA GAS COMPANY

B 7475

November 23th, 19 27

Report of Well No. 7475 Ray Davis farm

Glenville { District / Township } Gilmer County

DRILLED DEEPER

Drilling began 9-12-27 19 Completed 11-14-27 19

Cased with feet of inch feet of inc

" 1482 " 6-5/8" " " "

Tubed with 1708 feet of 3" in. and 6-5/8"X3" Anchor 168' of anchor. Pack

Top of Coal at feet

" " "

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 Lime	1441			
Big Lime	1475	1555		
Big Injun	1570	1643		1569

Well completed at a depth of 1708 feet, in Slate

First pressure test of well taken November 14, 19 27

Open flow 4/10 { Mercury / Water } in 3" opening - 95 Ho

In 30 Seconds, - 3 pounds.		In 5 Minutes, - 25 pound	
" 1 Minute, - 6 "		" 10 " - 50 "	
" 2 Minutes, - 10 "		" 15 " - 100 "	
" 3 " - 15 "		" 20 " - "	
" 4 " - 20 "		" 30 " - 3" "	

Rock pressure 390# in 24 Hours in Ho

Remarks

Div. Supt.

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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:
(a) Name: Barry and Karen Lay
Address: 943 Mineral Road
Glenville, WV 26351

(b) Name:
Address:

(c) Name:
Address:

5) (a) Coal Operator:
Name: None
Address:

(b) Coal Owner(s) with Declaration
Name: See attachment
Address:

Name:
Address:

6) Inspector: Danny Mullins
Address: ~~425 Big Trace Fork Road~~ 220 Jack Acres Rd
~~Harts, WV 25524~~ Buckhannon WV 26201
Telephone: (304) 932-6844

(c) Coal Lessee with Declaration
Name: None
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.

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Misty S Christie
1207 Briercliff Rd
Bridgeport, WV 25330
My Commission Expires February 20, 2018

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

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

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
Glenville, 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
Glenville, WV 26351

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

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OCT 22 2015

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4702103166 2103166P

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~~ 20ml TPW

Proposed Disposal Method for Treated Pit Wastes:
X 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 ____
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 Notary Public
My Commission Expires 2/20/18

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

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

LEGEND

Property Boundary

Diversion

Spring

Wet Spot

Road

Planned Fence

Drain Pipe with size in inches

Water Way

Existing Fence

Stream

Cross Drain

Open Ditch

Artificial Filter Strip

Rock

North

N

Building

Water well

W

Drill site

Pit with Cut Walls

Pit with Compacted Walls

Area of Land Application of Pit Waste

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

4702103166 2103166P

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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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

RANSON OFFICE
401 South Fairfax Blvd, Suite 3
Ranson, WV 25438
phone: 304-724-5008
fax: 304-724-5009

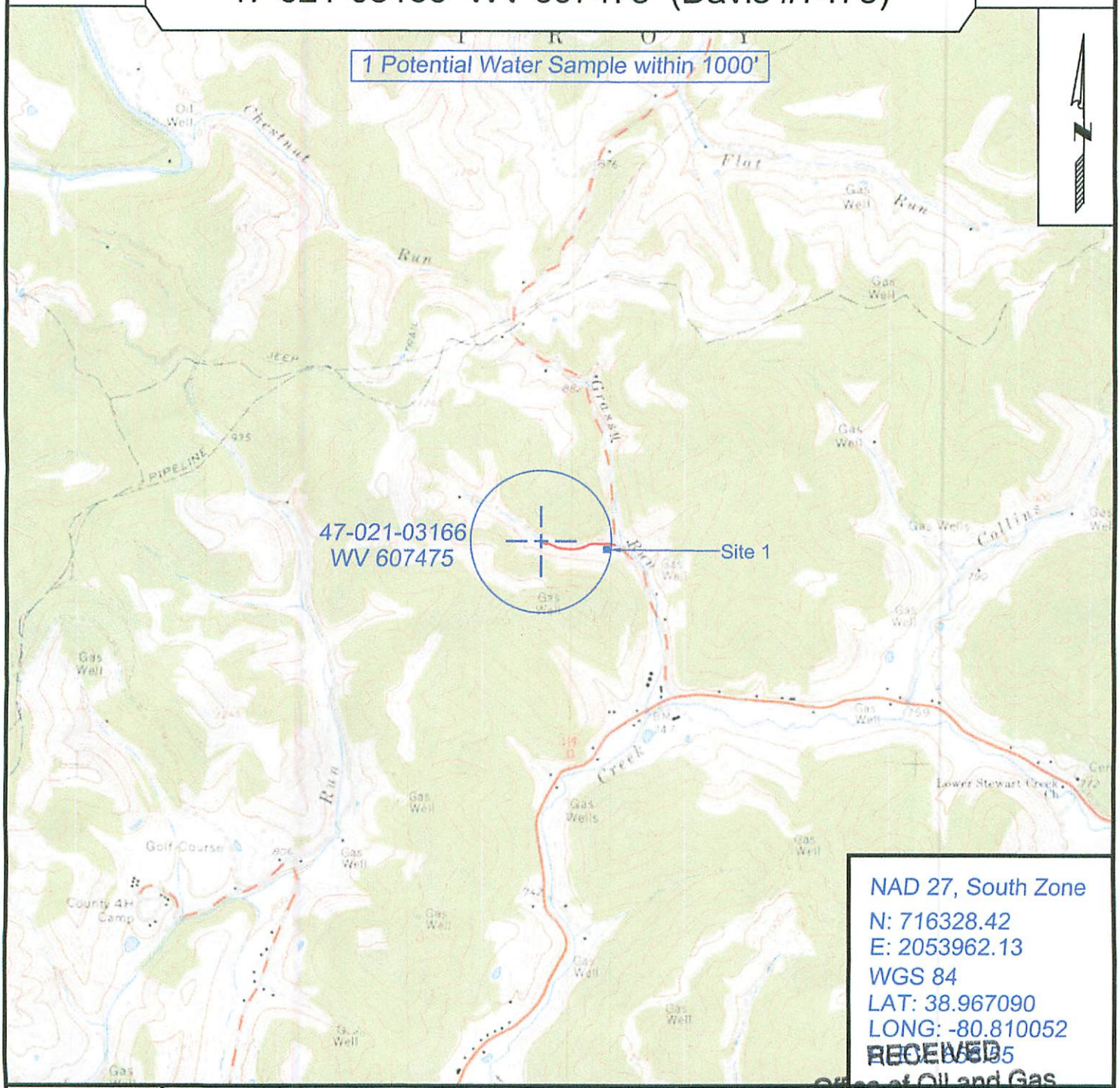
ALLEGHENYSURVEYS.COM

4702103166 2103166P

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)



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

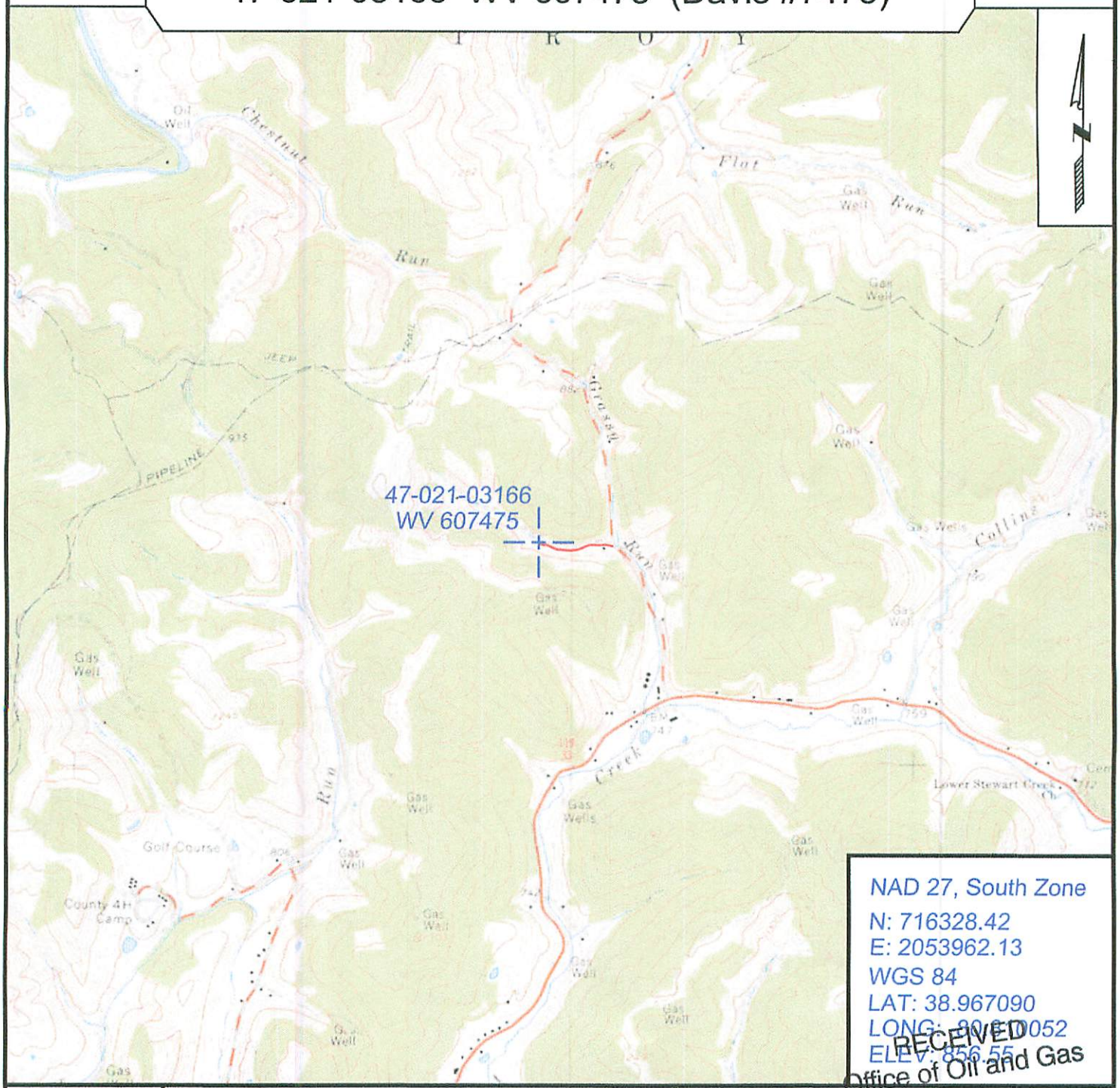
P.O. Box 280
Bridgeport, WV 26330

4702103166 2103166P

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



NAD 27, South Zone
N: 716328.42
E: 2053962.13
WGS 84
LAT: 38.967090
LONG: -80.670052
ELEV: 856.55

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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

4702103166 2103166P

WW-7
8-30-06

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

API: 47-021-03166 **WELL NO.:** WV 607475 (Davis #7475)

FARM NAME: Roy Davis

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Gilmer **DISTRICT:** Glenville

QUADRANGLE: Glenville 7.5'

SURFACE OWNER: Barry K. and Karen D. Lay

ROYALTY OWNER: EQT Production Company, et al.

UTM GPS NORTHING: 4313142

UTM GPS EASTING: 516456 **GPS ELEVATION:** 261 m (857 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:

1. Datum: NAD 1983, Zone: 17 South, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. 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 | PS#2180 Title | 7/8/13 Date

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