



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

February 12, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4102432, 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: 8167
Farm Name: U.S. ARMY CORP. OF ENG.
API Well Number: 47-4102432
Permit Type: Plugging
Date Issued: 02/12/2015

Promoting a healthy environment.

02/13/2015

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

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.

4102432P

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

Date: December 10, 2014
Operator's Well
Well No: 608167 (Rittenhouse #8167)
API Well No.: 47 041 - 02432

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

CK 18769
100⁰⁰

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: 1212 ft Watershed: Glady Fork
Location: Courthouse County: Lewis Quadrangle: Roanoke
District: _____

6) Well Operator EQT Production Company
120 Professional Place
Address: Bridgeport, WV 26330

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

8) Oil & Gas Barry Stollings
Name: 28 Conifer Drive
Address: Bridgeport, WV 26330

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

[Signature]

Date 12/18/2014

02/13/2015

PLUGGING PROGNOSIS - Weston

Rittenhouse, S.O. # 8167 (608167)

Lewis Co., West Virginia

API # 47-041-02432

Quad: Courthouse

BY: Craig Duckworth

DATE: 12/9/14

CURRENT STATUS:

10" csg @ 370'
 8 1/4" csg @ 972'
 6 5/8" csg @ 1771'
 3" tbg @ 2127'

TD @ 2127'

Fresh Water @ None reported

1st Salt Sand @ 836'

Gas Shows @ None reported

Oil Shows @ None reported

Stimulation: None reported

Elevation: 1164'

Salt Water @ None reported

Coal @ None reported

SDW
12/18/2014

1. Notify State Inspector, Barry Stollings 304-551-3194, 24 hrs. Prior to commencing operations.
2. Attempt to pull 3" csg. Free Point 3", cut 3" @ free point, TOOH w/ 3" csg
3. TIH w/ tbg @ 2127'; Set 100' CIA Cement Plug @ 2127' to 2027'
4. Set a 100' CIA Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 3" cut. Do not omit any plugs
5. TOOH w/ tbg @ 2027'; gel hole @ 2027' to 1821'
6. TOOH w/ tbg, Free Point 6 5/8", cut 6 5/8" @ free point, TOOH w/ 6 5/8" csg
7. TIH w/ tbg @ 1821'; Set 100' CIA Cement Plug @ 1821' to 1721' (6 5/8" csg)
8. Set a 100' CIA Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 6 5/8" cut. Do not omit any plugs
9. TOOH w/ tbg @ 1721'; gel hole @ 1721' to 1021'
10. TOOH w/ tbg, Free Point 8 1/4", cut 8 1/4" @ free point, TOOH w/ 8 1/4" csg
11. TIH w/ tbg @ 1021'; Set 285' CIA Cement Plug @ 1021' to 736' (8 1/4" csg seat & Salt Sand @ 836')
12. Set a 100' CIA Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 8 5/8" cut. Do not omit any plugs
13. TOOH w/ tbg @ 736'; gel hole @ 736' to 420'.
14. TOOH w/ tbg @ 420'; Set 100' CIA Cement Plug @ 420' to 320' (10" csg @ 370')
15. Set a 100' CIA Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 10" cut. Do not omit any plugs
16. TOOH w/ tbg @ 320'; gel hole @ 320' to 200'.
17. TOOH w/ tbg @ 200'; Set 200' CIA Cement Plug @ 200' to Surface
18. Top off as needed
19. Set Monument to WV-DEP Specifications
20. Reclaim Location & Road to WV-DEP Specifications

608167

041-2432-P

WELL 8167
 LEASE 25176 - RITTENHOUSE
 TD = 2127
 COURTHOUSE DISTRICT, LEWIS COUNTY

Pipe in Hole

1771' of 6 5/8"
 972' of 8 1/4"
 370' of 10"
 2127' of 3"

Pull all pipe possible and set 100' cement plugs at all cuts and shoulders.

All plugs are composed of Class-A-Neat Cement.

1. Cement - 2127 to 2000
2. Gel hole - 2000 to 1850
3. Pull 3", 6-5/8", 8-1/4", 10" casing.
4. Cement - 1850 to 1650
5. Gel - 1650 to 1000
6. Cement - 1000 to 900
7. Gel - 900 to 400
8. Cement - 400 to 300
9. Gel - 300 to 100
10. Cement - 100 to 0
11. Set monument, 7" pipe or larger, 13' long cemented in with API number displayed.

Un-recoverable pipe through coal seams must be perforated and squeezed above and below the coal seam.

Plugging operation subject to change upon inspectors approval.

Received
 Office of Oil & Gas

DEC 17 2014

A102432P

203

WELL NO. 8167 LESSOR S.O. Rittenhouse LEASE NO. 2576 ACRES 200 MAP CRAWFORD ELEVATION 64' DIV K DIST. West

DATE	WELL NO.	WELL NAME	WELL TYPE	DEPTH	FORMATION	TOP OF WATER	FORMATION	TOP OF WATER	FORMATION	TOP OF WATER	FORMATION	TOP OF WATER	FORMATION	TOP OF WATER	FORMATION	TOP OF WATER	FORMATION	TOP OF WATER
8-21-12	8167	RITTENHOUSE	WATER	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213
8-21-12	8167	RITTENHOUSE	WATER	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213
8-21-12	8167	RITTENHOUSE	WATER	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213
8-21-12	8167	RITTENHOUSE	WATER	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213
8-21-12	8167	RITTENHOUSE	WATER	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213

DATE	WELL NO.	WELL NAME	WELL TYPE	DEPTH	FORMATION	TOP OF WATER	FORMATION	TOP OF WATER	FORMATION	TOP OF WATER	FORMATION	TOP OF WATER	FORMATION	TOP OF WATER	FORMATION	TOP OF WATER	FORMATION	TOP OF WATER
8-21-12	8167	RITTENHOUSE	WATER	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213
8-21-12	8167	RITTENHOUSE	WATER	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213
8-21-12	8167	RITTENHOUSE	WATER	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213
8-21-12	8167	RITTENHOUSE	WATER	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213

DATE	WELL NO.	WELL NAME	WELL TYPE	DEPTH	FORMATION	TOP OF WATER	FORMATION	TOP OF WATER	FORMATION	TOP OF WATER	FORMATION	TOP OF WATER	FORMATION	TOP OF WATER	FORMATION	TOP OF WATER	FORMATION	TOP OF WATER
8-21-12	8167	RITTENHOUSE	WATER	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213
8-21-12	8167	RITTENHOUSE	WATER	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213
8-21-12	8167	RITTENHOUSE	WATER	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213
8-21-12	8167	RITTENHOUSE	WATER	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213	BRUNNEN	213

02/13/2015

41 02432 P

WW-4-A
Revised 6/07

1) Date: December 10, 2014
2) Operator's Well Number
608167 (Rittenouse #8167)
3) API Well No.: 47 041 - 02432
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 U. S. Army Corps of Engineers
Address Weston, WV 26452-7435

(b) Name _____
Address _____

(c) Name _____
Address _____

6) Inspector Barry Stollings
Address 28 Conifer Drive
Bridgeport, WV 26330
Telephone (304) 552-4194

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

(b) Coal Owner(s) with Declaration
Name U. S. Army Corps of Engineers
Weston, WV 26452-7435
Address _____

(c) Coal Lessee with Declaration
Name None
Address _____

Received
Office of Oil & Gas
DEC 17 2014

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 Brierclyff Rd
Bridgeport, WV 26330
My Commission Expires February 20, 2018
Telephone: _____

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

Subscribed and sworn before me this 11th day of December, 2014
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.

02/13/2015

4102432P

U. S. Army Corps of Engineers
Weston, WV 26452-7435

Plug Permit #608167

If YES, enter delivery address below: No

3. Service Type
- Certified Mail® Priority Mail Express™
 - Registered Return Receipt for Merchandise
 - Insured Mail Collect on Delivery
4. Restricted Delivery? (Extra Fee) Yes

Article Number (Transfer from service label) 7014 2120 0003 6756 9010

Form 3811, July 2013 Domestic Return Receipt

PS Form 3800, July 2013 See Reverse for Instructions

U. S. Army Corps of Engineers
Weston, WV 26452-7435

Plug Permit #608167

City, State or PO Box

Street & PO Box

Sent To

Total P

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	

Postmark Here

OFFICIAL USE

For delivery information, visit our website at www.usps.com

U.S. Postal Service™
Domestic Mail Only
CERTIFIED MAIL® RECEIPT

7014 2120 0003 6756 9010
7014 2120 0003 6756 9010



CERTIFIED MAIL

Received
Office of Oil & Gas
DEC 17 2014

neopost
12/15/2014
US POSTAGE

FIRST CLASS MAIL
\$07.10
ZIP 26430
041L1021892

02/13/2015

41024324

Barry Stollings
28 Conifer Drive
Bridgeport, WV 26330

plug Permit #608167

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Office of Oil & Gas
DEC 17 2014

usps
12/15/2014
US POSTAGE

ZIP
041L 022889
\$0.61
02/13/2015

4102432P

WW-9
Revised 2/03

Page ____ of ____
2) Operator's Well Number
608167 (Rittenhouse #8167)
3) API Well No.: 47 041 - 02432

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: Glady Fork Quadrangle: Roanoke
Elevation: 1212 ft County: Lewis District: Courthouse

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 ml

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? _____

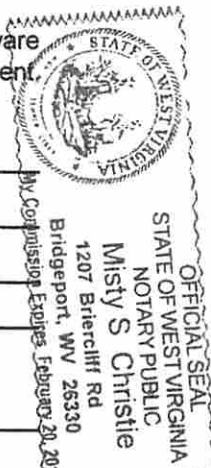
Drill Cuttings disposal method? Leave in pit, landfill, remove offsite, etc. _____
If left in pit and plan to solidify what medium will be used? Cement, Lime, sawdust _____
Landfill or offsite name/permit number? _____

Received
Office of Oil & Gas
DEC 17 2014

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 14th day of December, 2014

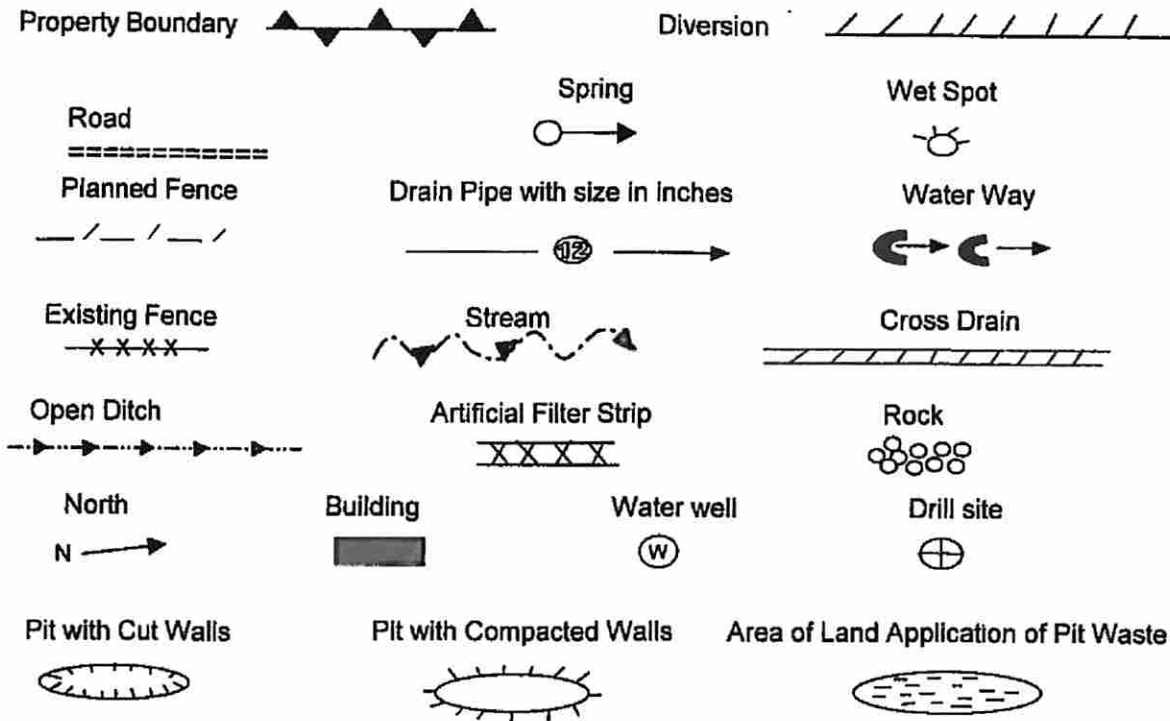
Misty S. Christie Notary Public
My Commission Expires 2/20/18



02/13/2015

OPERATOR'S WELL NO.:
608167 (Rittenouse #8167)

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.

Plan approved by: S. D. Warrick

Comments: 006 Inspector

Title: _____ Date: 12/18/14
Field Reviewed? Yes No

4102432P

Topo Quad: Roanoke 7.5'

Scale: 1" = 2000'

County: Lewis

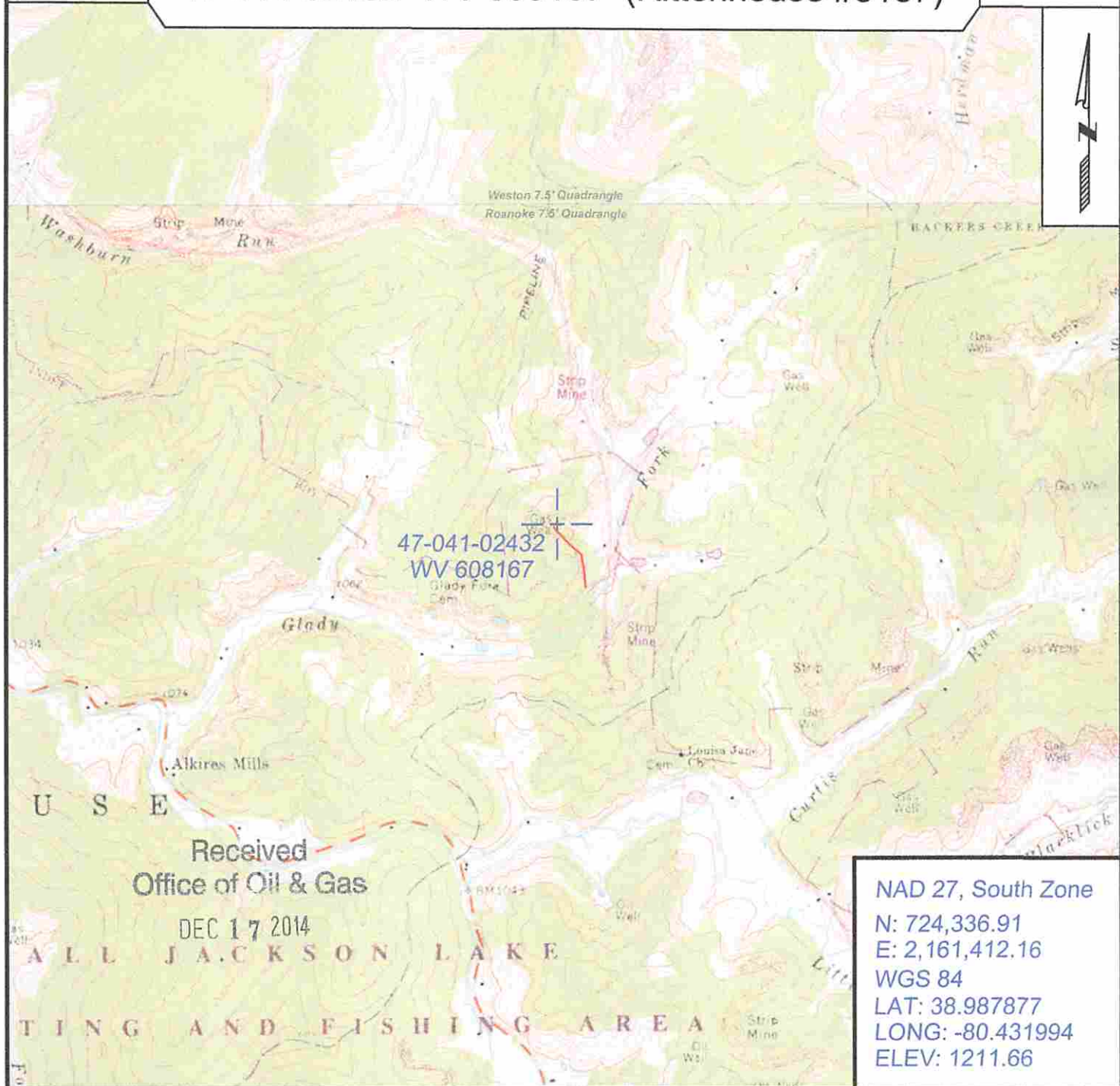
Date: October 10, 2014

District: Courthouse

Project No: 73-12-00-08

47-041-02432 WV 608167 (Rittenhouse #8167)

Topo



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Office of Oil & Gas
DEC 17 2014

NAD 27, South Zone
N: 724,336.91
E: 2,161,412.16
WGS 84
LAT: 38.987877
LONG: -80.431994
ELEV: 1211.66



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

02/13/2015

4102432 P

WW-7
8-30-06



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

API: 47-041-02432 WELL NO.: WV 608167 (Rittenhouse #8167)

FARM NAME: U.S. Army Corps of Engineers

RESPONSIBLE PARTY NAME: EOT Production Company

COUNTY: Lewis DISTRICT: Courthouse

QUADRANGLE: Roanoke 7.5'

SURFACE OWNER: U.S. Army Corps of Engineers

ROYALTY OWNER: EOT Production Company, et al.

UTM GPS NORTHING: 4315585

UTM GPS EASTING: 549193 GPS ELEVATION: 369 m (1212 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 North, 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 : Post Processed Differential
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.

Received

DEC 19 2014

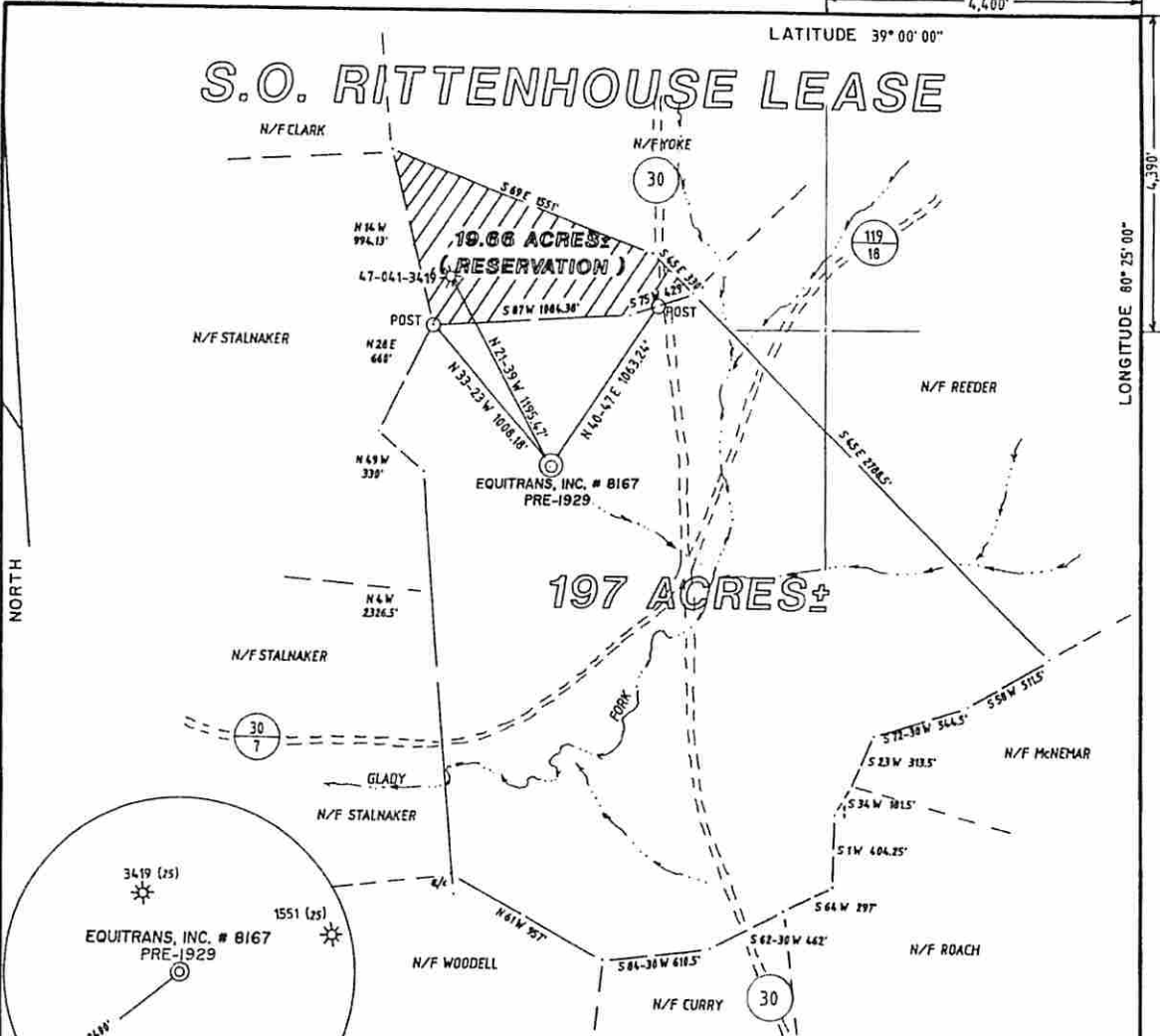
Office of Oil and Gas
WV Dept. of Environmental Protection

[Signature]
Signature

PS # 2180
Title

12/18/14
Date

4102432P



**EQUITRANS, INC. WELL # 8167
PRE-1929**

NOTE: EXISTING EQUITRANS, INC. WELL # 8167 IS A PRE-1929 WELL TO BE PLUGGED.

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENERGY.

L.L.S. *Gregory A. Smith*
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE DECEMBER 30, 19 93
OPERATORS WELL NO. EQUITRANS, INC. # 8167
API WELL NO. 47 - 041 - 02432-P
STATE COUNTY PERMIT

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Office of Oil & Gas
DEC 17 2014

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3140 (45-26)
PROVEN SOURCE OF ELEVATION S.L.S. TEMP. BENCH MARK FROM TOP OF KNOB, ELEVATION 1523' SCALE 1" = 800'

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION:
ELEVATION 1164' WATERSHED GLADY FORK OF SKIN CREEK
DISTRICT COURTHOUSE COUNTY LEWIS QUADRANGLE ROANOKE 7.5'

SURFACE OWNER USA - U.S. ARMY CORPS. ACREAGE 197
ROYALTY OWNER S.O. RITTENHOUSE HEIRS ET AL. LEASE ACREAGE 197

PROPOSED WORK: LEASE NO. 25176
DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON X CLEAN OUT AND REPLUG ___ OTHER
PHYSICAL CHANGE IN WELL (SPECIFY) ___ TARGET FORMATION INJUN ESTIMATED DEPTH 2127'

WELL OPERATOR EQUITRANS Inc. DESIGNATED AGENT JOHN G. KALAFAT
ADDRESS 3500 PARK LANE PITTSBURGH, PA. 15275 ADDRESS P.O. BOX 908 WESTON, WY. 26452

COUNTY NAME LEWIS
PERMIT 2452-P

Roanoke 2

02/13/2015



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EOT PRODUCTION COMPANY
LEASE NAME AND WELL No. Rittenhouse #8167 - WV 608167 - API No. 47-041-02432

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 608167.

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Office of Oil & Gas
DEC 17 2014

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

CALDWELL OFFICE
212 Cumberland Street
Caldwell, OH 43724
phone: 740-305-5007
fax: 740-305-5126

ALUM CREEK OFFICE
P.O. Box 108 • 1415 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: 304-724-5010

Topo Quad: Roanoke 7.5'

Scale: 1" = 2000'

County: Lewis

Date: October 10, 2014

District: Courthouse

Project No: 73-12-00-08

Water

47-041-02432 WV 608167 (Rittenhouse #8167)

No potential water wells within 1000'



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Office of Oil & Gas
DEC 17 2014

NAD 27, South Zone
 N: 724,336.91
 E: 2,161,412.16
 WGS 84
 LAT: 38.987877
 LONG: -80.431994
 ELEV: 1211.66



SURVEYING AND MAPPING SERVICES PERFORMED BY:
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 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330