



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

March 25, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1702108, 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: 4995

Farm Name: OSBOURN

API Well Number: 47-1702108

Permit Type: Plugging

Date Issued: 03/25/2015

Promoting a healthy environment.

03/27/2015

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.

17 02108 P

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

Date: 2-12-15
Operator's Well
Well No. 604995 F.W. Osborne # 4995
API Well No.: 47 017 - 02108

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

CE 1907Z
~~#700~~
100

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: 1003' Watershed: Lower Rn. Of Middle Fk of Hughes River
Location: Southwest County: Doddridge Quadrangle: Oxford 7.5'
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 Douglas Newlon
Name: 4060 Dutchman Road
Address: Macfarlan, WV 26148

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.

RECEIVED
Office of Oil and Gas

FEB 17 2015

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 _____

03/27/2015

PLUGGING PROGNOSIS - Weston

Osborne, F.W. #4995 (604995)

Dodridge Co., WV
API # 47-017-02108

Quad: West Union

BY: Craig Duckworth

DATE: 2/2/15

CURRENT STATUS:

- 10" csg @ No csg info
- 8 1/4" csg @
- 6 5/8" csg @
- 3" tbg @ No tbg info

TD @ 1923' (hole size 6 5/8")

Fresh Water @ 945'
 1" Salt Sand @ 1395'
 Coal @ None reported
 Salt Water @ 1630'
 Gas Shows @ 1517' - 3rd Salt Sand ; 1850' & 1857' - Big Injun ;
 Oil Shows @ None reported
 Stimulation: None reported
 Elevation: 1923'

1. Notify State Inspector, Douglas Newlon 304-932-8049, 24 hrs. Prior to commencing operations.
2. TH to Check TD.
3. Set a 100' CIA Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below casing cuts. Do not omit any plugs
4. TH w/ tbg @ 1963'; Set 213' CIA Cement Plug @ 1963' to 1750' (Gas Shows @1850' - 1857' Big Injun)
5. TOOH w/ tbg @ 1750'; gel hole @ 1750' to 1630'
6. TOOH w/ tbg @ 1630'; Set 330' CIA Cement Plug @ 1630' to 1300' (SW @ 1630' ; Gas Show @ 1517' 3rd Salt Sand & 1st Salt Sand 1395')
7. TOOH w/ tbg @ 1300'; gel hole @ 1300' to 945' cement plug 1053 - 953 Elevations
8. TOOH w/ tbg @ 945'; Set 100' CIA Cement Plug @ 945' to 845' (FW @ 945')
9. TOOH w/ tbg @ 845'; gel hole @ 845' to 600'
10. TOOH w/ tbg @ 600'; Set 100' CIA Cement Plug @ 600' to 500' (safety plug)
11. TOOH w/ tbg @ 500'; gel hole @ 500' to 200'
12. TOOH w/ tbg @ 200'; Set 200' CIA Cement Plug @ 200' to Surface
13. Top off as needed
14. Set Monument to WV-DEP Specifications
15. Reclaim Location & Road to WV-DEP Specifications

1923

604995
47-017-02108

1702108A

PITTSBURGH & WEST VA GAS CO. Company

CLARKSBURG, WEST VA. Address

Well No. 4995, W. Frank Osborne farm.

Southwest Dist., Doddridge Co., W.Va.

COMPLETION DATA SHEET
NO. 2
FORMATION RECORD

Name	Color	Character	Oil, Gas or Water	Top	Bottom	Thickness	Total Depth	Remarks
Clay	Red	Soft		0	20	20	20	
Lime	Dark	Hard		20	35	15	35	
Slate	"	Soft		35	70	35	70	
Red Rock	Red	"		70	110	40	110	
Britty Lime	White	Hard		110	145	35	145	
Red Rock	Red	Soft		145	255	110	255	
Lime	White	Hard		255	310	55	310	
Red Rock	Red	Soft		310	340	30	340	
Lime	Light	Hard		340	555	215	555	
Red Rock	Red	Soft		555	570	15	570	
Lime	White	Hard		570	585	15	585	
Red Rock	Red	Soft		585	640	55	640	
Lime	Light	Hard		640	770	130	770	
Red Rock	Red	Soft		770	865	95	865	
L. Dunkard	White	"		865	880	15	880	
Red Rock	Red	"		880	890	10	890	
Sand	White	Hard		890	905	15	905	(Big Dunkard)
Slate	Dark	Soft		905	925	20	925	
Sand	White	Hard	Water 945	925	955	30	955	
Slate	"	Soft		955	985	30	985	
Lime	"	Hard		985	1085	100	1085	
Gas Sand	"	"		1085	1127	42	1127	
Lime	"	"		1127	1230	103	1230	
Slate	Dark	Soft		1230	1395	165	1395	
1st. Salt	White	Hard		1395	1423	28	1423	
Slate	Dark	Soft		1423	1440	17	1440	
2nd. Salt	White	Hard		1440	1480	40	1480	
Slate	Dark	Soft		1480	1486	6	1486	
Sand	White	Hard	Gas 1517-22	1486	1527	41	1527	(3rd. Salt)
Slate	Dark	Soft		1527	1580	53	1580	
Sand	White	Hard	Water 1630	1580	1645	65	1645	(Maxon Sand)
Slate	Black	Soft		1645	1692	47	1692	
Lime	Dark	Hard		1692	1711	19	1711	
Slate	Dark	Soft		1711	1716	5	1716	
Lime	"	Hard		1716	1727	11	1727	
Slate	"	Soft		1727	1732	5	1732	
Blue Monday	Light	Hard		1732	1744	12	1744	
Slate	"	Soft		1744	1747	3	1747	
Lime	"	Hard		1747	1750	3	1750	
Slate	White	Soft		1750	1752	2	1752	
Big Lime	"	Hard		1752	1835	83	1835	
Big Injun	"	"	Gas 1850-53	1835	1885	50	1885	
Slate	Dark	Soft	Gas 1857-58	1885	1923	38	1923	
				TOTAL	DEPTH	-----	1923	

Well was not shot at _____ feet; well was shot at _____ feet.

Fresh water at 945 feet; salt water at 1630 feet.

Well was producing 6-5/8" hole.

PITTSBURGH & WEST VA GAS CO.

November 5rd, 1930.

By, J. F. McNary,

Date

Approved

Owner Superintendent.

NOTE: All bottom formations must be noted as indicated above and all key-rocks and oil and gas sands must be recorded under their proper geological names in the district as well as any local names commonly used in the district for such strata.

RECEIVED
Office of Oil and Gas

FEB 17 2015

WV Department of
Environmental Protection

03/27/2015

- 1) Date: 2-12-15
- 2) Operator's Well Number
604995 F.W. Osborne # 4995
- 3) API Well No.: 47 017 - 02108
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**

<p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Mansfield L. & Debra L. Leeson</u> Address <u>3559 Taylor Drain Road</u> <u>West Union, WV 26456</u></p> <p>(b) Name _____ Address _____</p> <p>(c) Name _____ Address _____</p> <p>6) Inspector <u>Douglas Newlon</u> Address <u>4060 Dutchman Road</u> <u>Macfarlan, WV 26148</u> Telephone <u>304-932-8049</u></p>	<p>5) (a) Coal Operator: Name <u>None</u> Address _____</p> <p>(b) Coal Owner(s) with Declaration Name <u>Unknown Heirs of Mary Gaston et al</u> <u>Cletha Osborne (dec.) Agt.</u> Address _____</p> <p>(c) Coal Lessee with Declaration Name <u>None</u> Address _____</p>
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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:
By: _____
OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Nicholas L. Bumgardner
Rt. 1, Box 4
Liberty, WV 25120
My Commission Expires July 27, 2018

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

Subscribed and sworn before me this 10 day of FEBRUARY, 2015
Notary Public

My Commission Expires: 7/27/2018

RECEIVED

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.

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Nicholas L. Boudard
Rt. 1, Box 4
Liberty, WV 25124
My Commission Expires July 27, 2018



03/27/2015

1702108P

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02/12/2015
FIRST-CLASS MAIL
\$07.40
US POSTAGE
ZIP 26330
041110228892

Mansfield L & Debra L. Lesson
3559 Taylor Drain Rd
West Union, WV 26456
604995 F.W. Osborne #4995

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

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OFFICIAL USE



7014 0510 0000 4438 8168
7014 0510 0000 4438 8168

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

Total Postage

Sent To
Mansfield L & Debra L. Lesson
3559 Taylor Drain Rd
West Union, WV 26456
604995 F.W. Osborne #4995 ✓

Street, Apt. or PO Box
City, State

PS Form 3800, August 2006 See Reverse for Instructions

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Office of Oil and Gas

FEB 17 2015

WV Department of
Environmental Protection

OT
Vicki Roark
Box 280
Morgantown, WV 26505

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Mansfield L & Debra L. Lesson
3559 Taylor Drain Rd
West Union, WV 26456
604995 F.W. Osborne #4995

2. Article Number
(Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
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

7014 0510 0000 4438 8168

03/27/2015

1702108 P

neopost® FIRST-CLASS MAIL
02/12/2015 \$03.29⁰
US POSTAGE ZIP 26330
041L10228892



Douglas Newlon
4060 Dutchman Road
Macfarland, WV 26148
604983 Rymer B-4983 Plugging
604995 F.W. Osborne #4995
65571 George Ahouse #1339 Plugging
130071 D. Maxwell D-5 Plugging

EQT
C/O Vicki Roark
P.O. Box 280
Bridgeport, WV 26330

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WV Department of
Environmental Protection

03/27/2015

WW-9
Revised 2/03

Page ____ of ____
2) Operator's Well Number
604995 F.W. Osborne # 4995
3) API Well No.: 47 017 - 02108

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: Lower Rn. Of Middle Fk of Hughes River Quadrangle: Oxford 7.5'
Elevation: 1003 County: Doddridge District: Southwest

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.

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Office of Oil and Gas

Company Official Signature *Victoria Roark*

Company Official (Typed or Printed) Victoria Roark

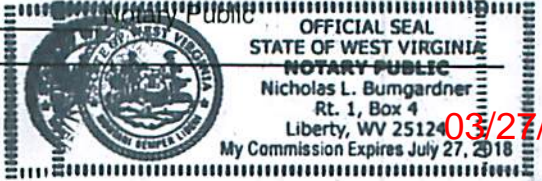
FEB 17 2015

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 10 day of FEBRUARY

WV Department of Environmental Protection
2015

My Commission Expires 7/27/2018



03/27/2015

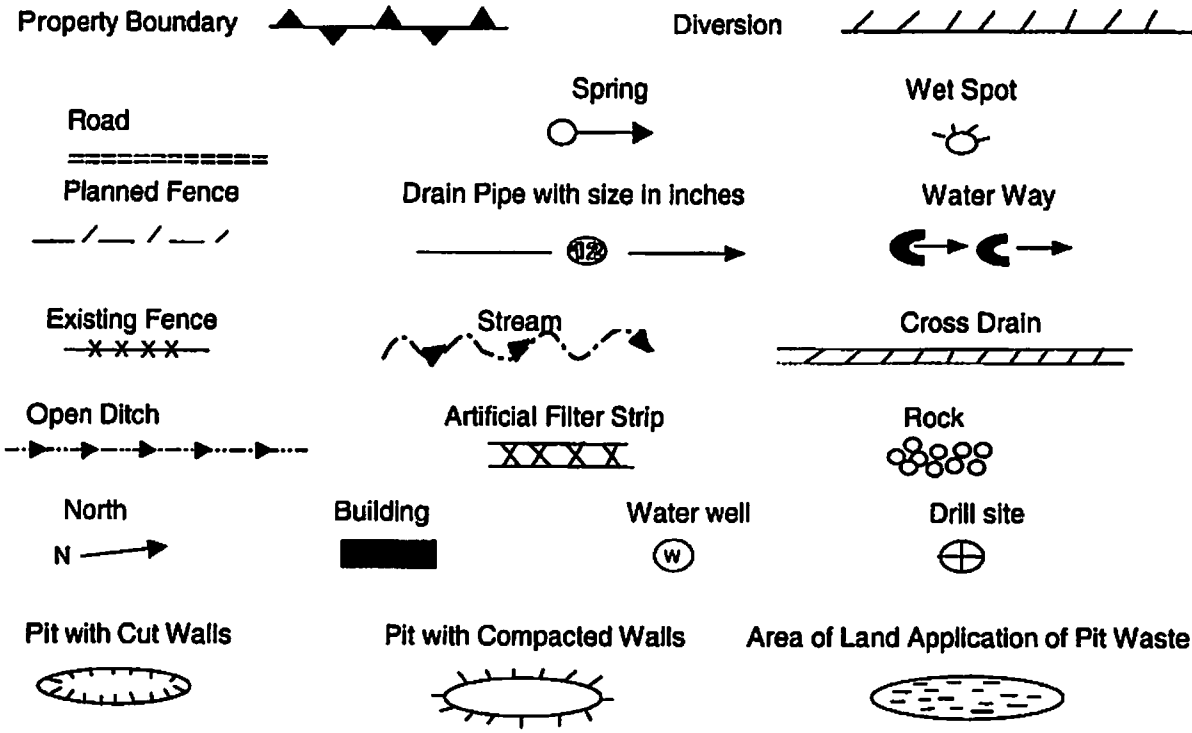
OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Nicholas J. Bumgarner
Rt. 1, Box 4
Liberty, WV 25124
My Commission Expires July 27, 2018



03/27/2015

OPERATOR'S WELL NO.:
604995 E.W. Osborne # 4995

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: George A. [Signature]

Comments: Install EWS to new Dept regulations

Title: Oil & Gas Inspector Date: 2-19-2015
 Field Reviewed? Yes No

1702108P

Topo Quad: Oxford 7.5'

Scale: 1" = 2000'

County: Doddridge

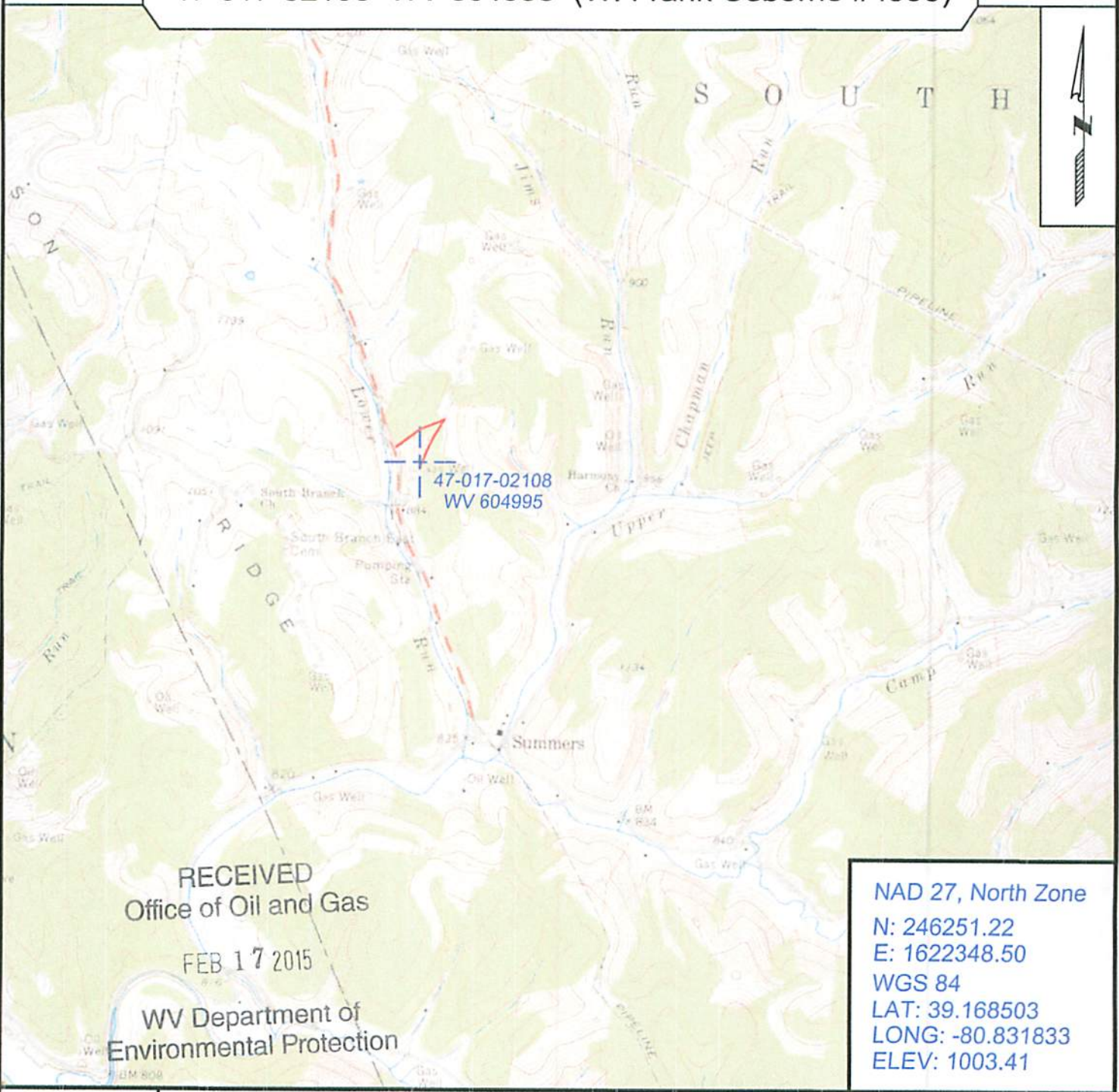
Date: January 27, 2015

District: Southwest

Project No: 67-30-00-08

47-017-02108 WV 604995 (W. Frank Osborne #4995)

Topo



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Office of Oil and Gas
FEB 17 2015
WV Department of
Environmental Protection

NAD 27, North Zone
N: 246251.22
E: 1622348.50
WGS 84
LAT: 39.168503
LONG: -80.831833
ELEV: 1003.41



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
03/27/2015

WW-7
8-30-06



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

API: 47-017-02108 WELL NO.: WV 604995 (W. Frank Osborne #4995)

FARM NAME: Osborne

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Doddridge DISTRICT: Southwest

QUADRANGLE: Oxford 7.5'

SURFACE OWNER: Mansfield L. & Debra L. Leeson

ROYALTY OWNER: EQT Production Company, et al.

UTM GPS NORTHING: 4335489

UTM GPS EASTING: 514527 GPS ELEVATION: 306 m (1003 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

- 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.

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FEB 17 2015

WV Department of
Environmental Protection


Signature

PS #2180
Title

1/20/15
Date



1702108P

POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. W. Frank Osborne #4995 - WV 604995 - API No. 47-017-02108

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 635 +/- Owner: Mansfield L. & Debra L. Leeson
Address: Route 1 Box 187 West Union, 26456 Phone no. _____
Comments:

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Office of Oil and Gas

FEB 17 2015

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

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

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: 304-724-5010

1702108P

Topo Quad: Oxford 7.5'

Scale: 1" = 2000'

County: Doddridge

Date: January 27, 2015

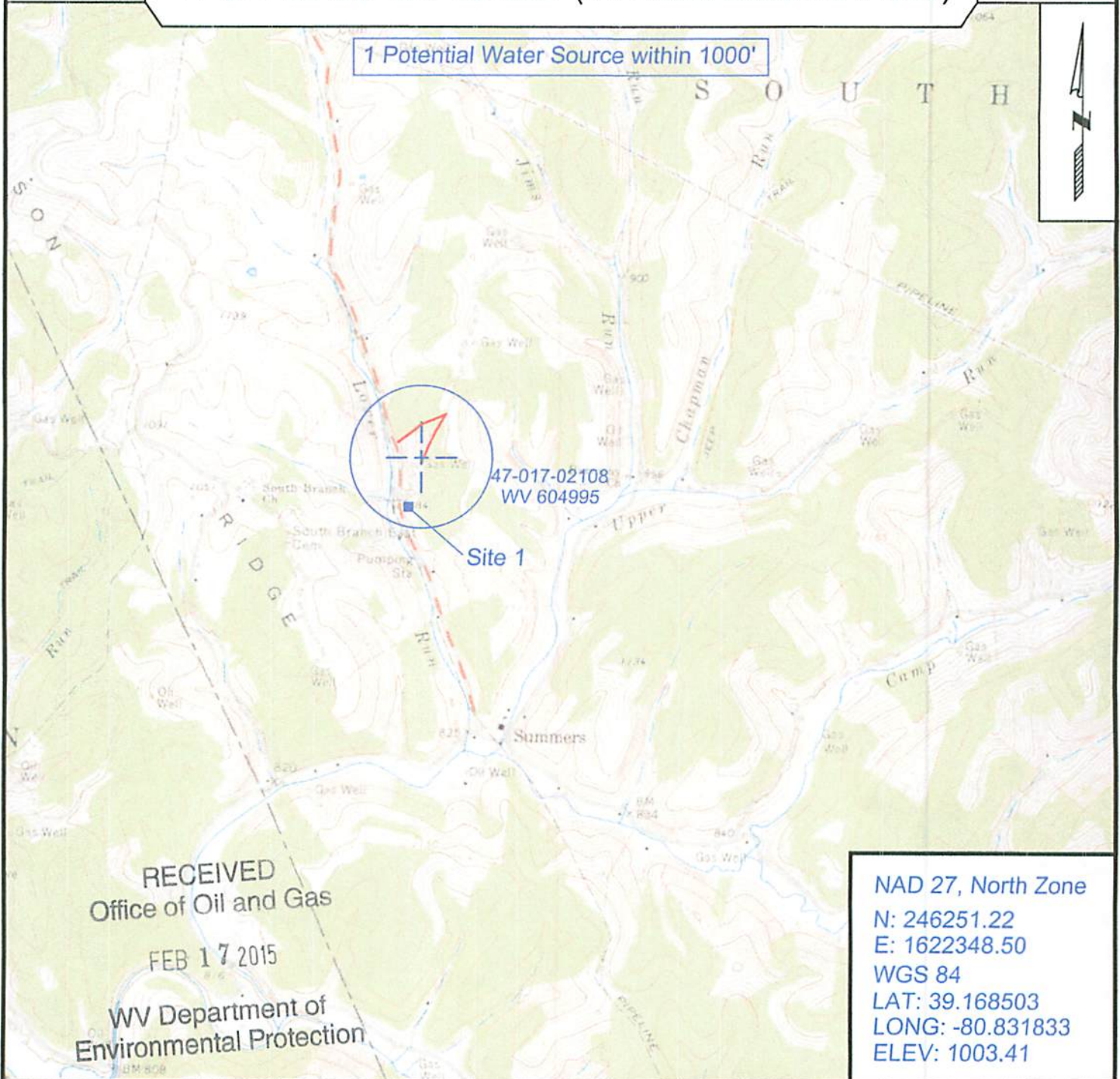
District: Southwest

Project No: 67-30-00-08

Water

47-017-02108 WV 604995 (W. Frank Osborne #4995)

1 Potential Water Source within 1000'



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Office of Oil and Gas
FEB 17 2015
WV Department of
Environmental Protection

NAD 27, North Zone
N: 246251.22
E: 1622348.50
WGS 84
LAT: 39.168503
LONG: -80.831833
ELEV: 1003.41



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

03/27/2015