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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

February 25, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-1702124, 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: LONGACRE 2 A  
Farm Name: LONGACRE  
**API Well Number: 47-1702124**  
**Permit Type: Plugging**  
Date Issued: 02/25/2015

**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

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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.

1702124P

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

Date: January 15, 2017  
Operator's Well \_\_\_\_\_  
Well No. 121441 (Longacre 2 A)  
API Well No.: 47 017 - 02124

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

CK# 18783  
\$100<sup>00</sup>

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: 1054 ft. Watershed: Middle Island Creek of Ohio River  
Location: West Union County: Doddridge Quadrangle: West Union  
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.**

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 \_\_\_\_\_

Received  
Office of Oil & Gas

JAN 16 2015

## PLUGGING PROGNOSIS

**Longacre #2 (121441)**

Doddridge, Co, WEST VIRGINIA  
API # 47-017-02124

**No Records on this well**

**All depths unknown**

BY: Doug Fry  
DATE: 1/7/2015

10" csg @?  
8 1/4" csg @?  
6 5/8" csg @?  
TD @?

Fresh water -?  
1<sup>st</sup> Salt Sand -?  
Coal @ - ?  
Oil Shows -?  
Gas shows - ?

Notify WV DEP Inspector Douglas Newlon, Cell (304-932-8049) 24 hrs. Prior to commencing operations.

- 1) TIH w/ wireline collar locator and check TD. (With collar locator, locate the end of the casing and note).
- 2) TIH w/ tubing @ achievable TD Set solid CLA cement plug from achievable TD to 50' inside of the casing bottom found,
- 3) TOOH w/ tubing, free point csg, cut @ Free point', TOOH w/ csg.
- 4) Set 100' C1A cement plug 50' In/Out of cut, Perf all Coal, Oil, Gas & FW shows below casing cut do not omit any plugs shown below. (Perf casing left in well to the Inspector's satisfaction).
- 5) TIH w/ tubing @ the top of last cement plug and set CLA cement plug from last cement top to 50' above last casing cut.
- 6) TIH w/ wireline and collar locator and find the bottom of the next casing string and note.
- 7) TIH w/ tubing @ the top of last cement plug and set CLA cement plug from last cement top to 50' inside of the casing bottom found.
- 8) TOOH w/ tubing, free point csg, cut @ Free point', TOOH w/ csg.
- 9) Set 100' C1A cement plug 50' In/Out of cut, Perf all Coal, Oil, Gas & FW shows below casing cut do not omit any plugs shown below. (Perf casing left in well to the Inspector's satisfaction.
- 10) Repeat this process until the well has been plugged to surface.
- 11) The well casings left in the hole are to be perforated to the Inspector's satisfaction and the well is to be cemented solid from achievable TD to surface if possible.
- 12) Top off as needed.
- 13) Set Monument to WV - DEP Specifications
- 20) Reclaim Location & Roads to WV-DEP Specifications.

*Need Elevation  
Plug 1104 TO 1004*

*DCW  
1-27-2015*

1) Date: January 15, 2017  
2) Operator's Well Number  
121441 (Longacre 2 A)  
3) API Well No.: 47 017 - 02124  
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 Franklin L. Butler & Key Oil Co.  
Address 22 Garten Plaza  
Weston, WV 26452-2129

(b) Name \_\_\_\_\_  
Address \_\_\_\_\_

(c) Name \_\_\_\_\_  
Address \_\_\_\_\_

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

(b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

(c) Coal Lessee with Declaration  
Name None  
Address \_\_\_\_\_

6) Inspector Douglas Newlon  
Address 4060 Dutchman Road  
MacFarlan, WV 26148  
Telephone (304) 932-8049

**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  
Misty S. Christie  
Address:  
1207 Briercliff Rd  
Bridgeport, WV 26330  
Telephone:

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

Subscribed and sworn before me this 15<sup>th</sup> day of January, 2015  
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 [deprivacyofficer@wv.gov](mailto:deprivacyofficer@wv.gov).

Received  
Office of Oil & Gas  
JAN 16 2015

neopost # 01/15/2015  
 FIRST-CLASS MAIL  
**\$07.61**  
 ZIP 26330  
 041L10228892

1702124P



7014 0150 0001 0654 0871  
 7014 0150 0001 0654 0871

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

For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**

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

Total Post: Franklin L. Butler & Key Oil Co.  
 22 Garten Plaza  
 Weston, WV 26452-2129

Sent To: 22 Garten Plaza  
 Weston, WV 26452-2129

Street, Apt. or PO Box:  
 City, State: 121441 (Longacre 2A) Plugging

PS Form 3800, August 2006 See Reverse for Instructions

*Vicki Kamm*

Weston, WV 26452-2129  
 121441 (Longacre 2A) Plugging

Received  
 Office of Oil & Gas  
 JAN 16 2015

1. Article Number: 121441 (Longacre 2A) Plugging  
 22 Garten Plaza  
 Weston, WV 26452-2129  
 Franklin L. Butler & Key Oil Co.

2. Article Number (Transfer from service label): PS Form 3811, July 2013

3. Service Type:  Certified Mail®  
 Registered  
 Insured Mail  
 Priority Mail Express™  
 Return Receipt for Merchandise  
 Collect on Delivery

4. Restricted Delivery? (Extra Fee)  Yes

7014 0150 0001 0654 0871  
 Domestic Return Receipt

neopost®  
01/15/2015

FIRST-CLASS MAIL

\$01.61

US POSTAGE



ZIP 26330  
041L10228892

Douglas Newlon  
4060 Dutchman Road  
MacFarlan, WV 26148  
121441 (Longacre ZA) Plugging

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Office of Oil & Gas  
JAN 16 2015

1702124P

**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: Middle Island Creek of Ohio River Quadrangle: West Union  
Elevation: 1054 ft. County: Doddridge District: West Union

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.? 40 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 *Victoria Roark*

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

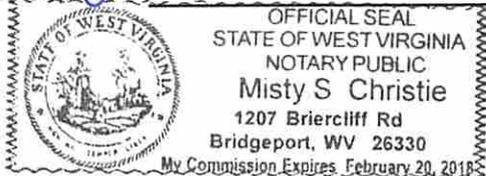
Subscribed and sworn before me this 15<sup>th</sup> day of January, 2015

*Misty S. Christie*

Notary Public

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

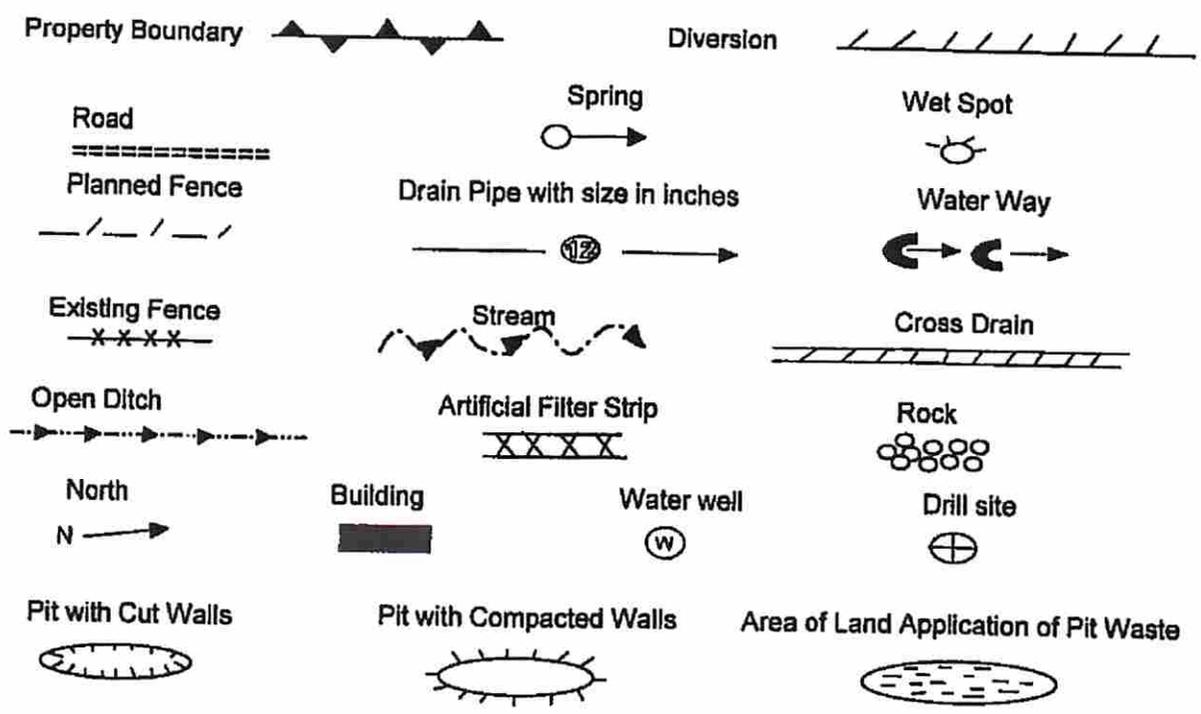
2/20/18



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**OPERATOR'S WELL NO.:**  
121441 (Longacre 2 A)

**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: Douglas Newlin

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

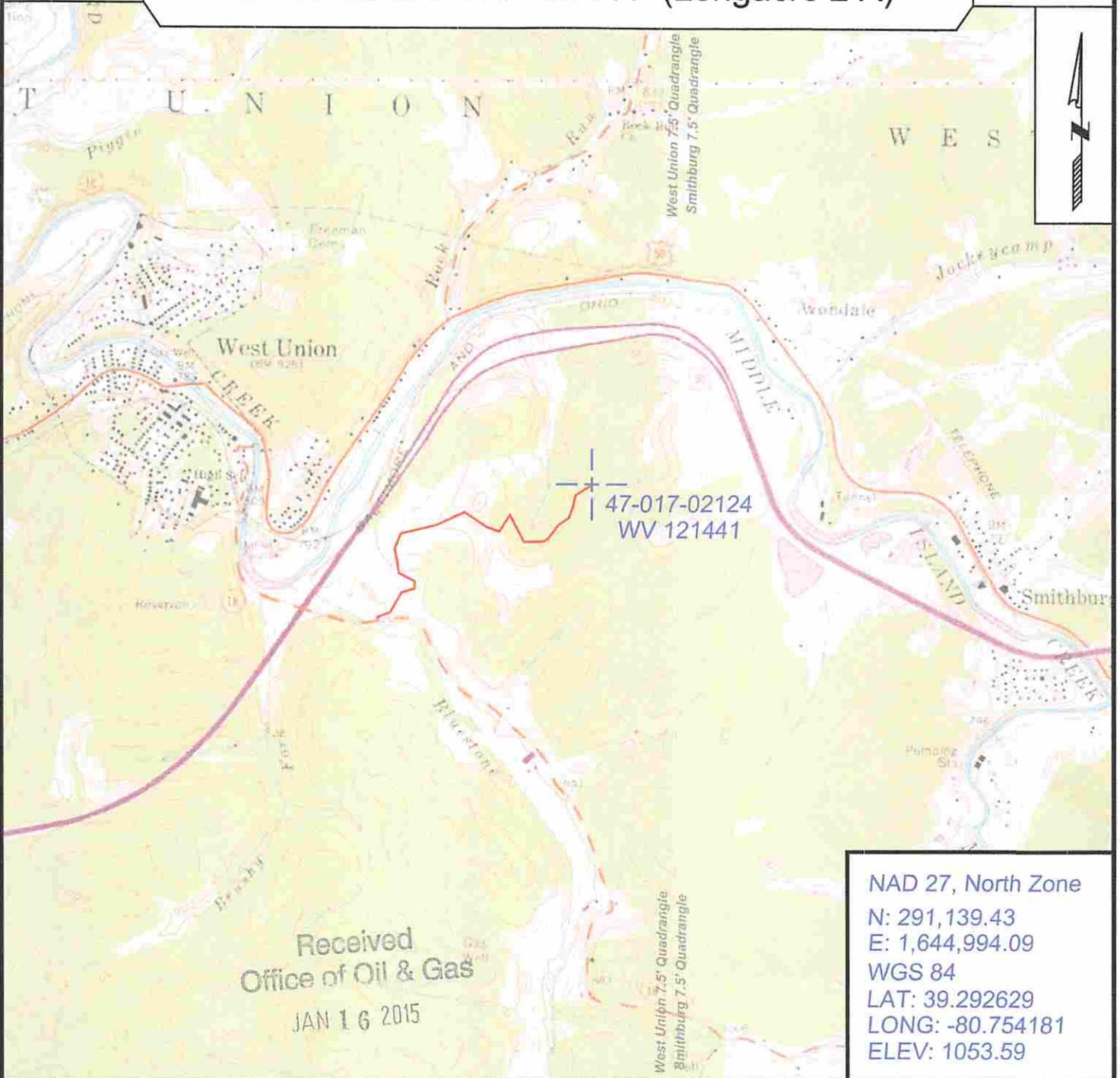
Title: Oil & Gas Inspector Date: 1-22-2015

Field Reviewed? Yes  No

Topo Quad: West Union 7.5' Scale: 1" = 2000'  
 County: Doddridge Date: November 03, 2014  
 District: West Union Project No: 67-30-00-08

47-017-02124 WV 121441 (Longacre 2 A)

Topo



NAD 27, North Zone  
 N: 291,139.43  
 E: 1,644,994.09  
 WGS 84  
 LAT: 39.292629  
 LONG: -80.754181  
 ELEV: 1053.59



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**

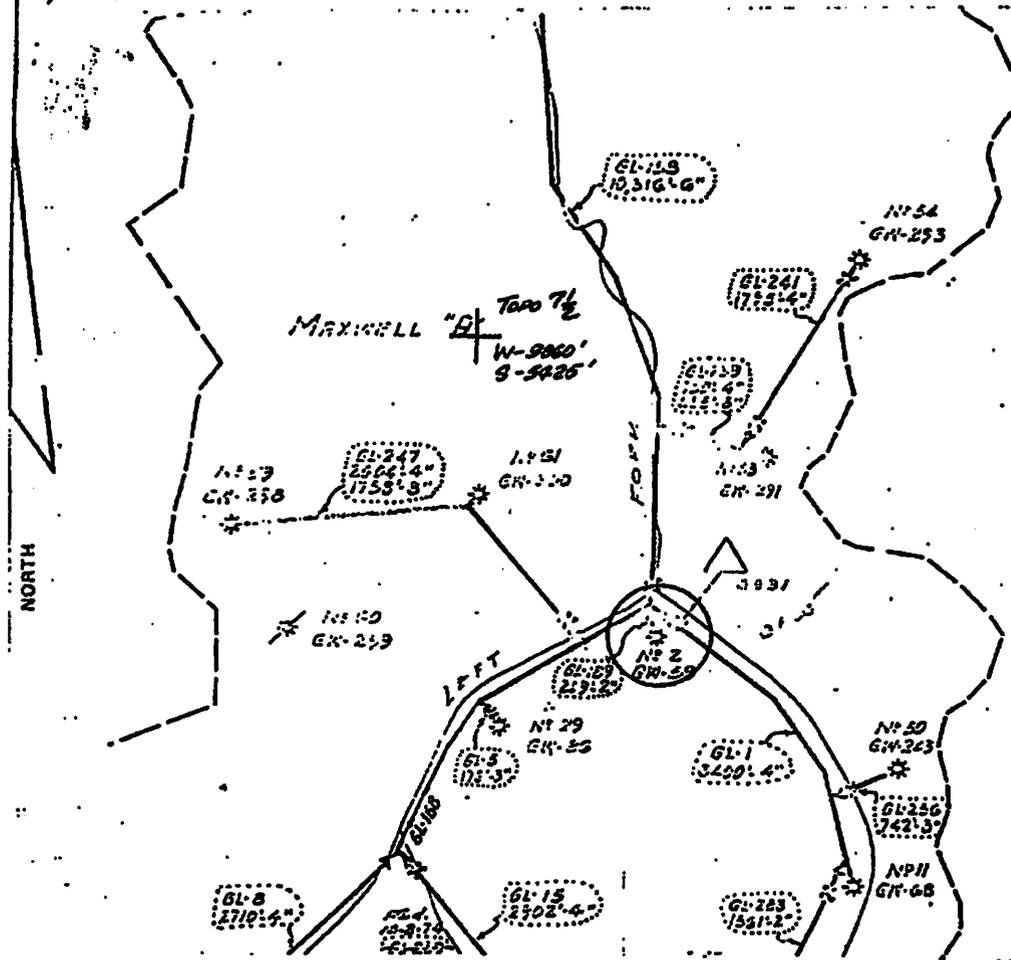
P.O. Box 280  
 Bridgeport, WV 26330



Longacre "A" 2

121441

LATITUDE 39° 15' 00"



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1"=1320'  
 MINIMUM DEGREE OF ACCURACY \_\_\_\_\_  
 PROVEN SOURCE OF ELEVATION \_\_\_\_\_

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 MINES.  
 (SIGNED) Donald J. Bay  
 R.P.E. \_\_\_\_\_ L.L.S. 247

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE MAR 25 19 80  
 OPERATOR'S WELL NO. GW 59 (A-2)  
 API WELL NO. \_\_\_\_\_  
47 - 017 - 2124  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 880' WATER SHED LEFT FK OF ARNOLDS CK  
 DISTRICT WEST UNION COUNTY ADDRIIDGE  
 QUADRANGLE OXFORD T 1/2

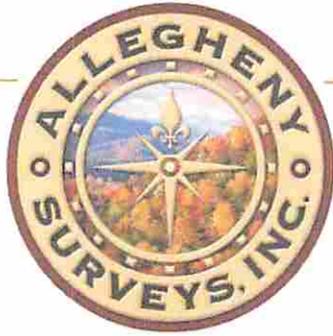
SURFACE OWNER \_\_\_\_\_ ACREAGE \_\_\_\_\_  
 OIL & GAS ROYALTY OWNER MAXWELL "A" LEASE ACREAGE \_\_\_\_\_  
 LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERI ORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
E.G.R.C. FILING

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION \_\_\_\_\_ ESTIMATED DEPTH \_\_\_\_\_  
 WELL OPERATOR CITIS SERVICE Co DESIGNATED AGENT SAM J. MATTHEWS  
 ADDRESS PO BX 873 ADDRESS PO BX 873  
CHARLESTON W.V. CHARLESTON W.V.

Received  
 Office of Oil &  
 JAN 16 2015

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### POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EOT PRODUCTION COMPANY  
LEASE NAME AND WELL No. Longacre 2 A - WV 121441 - API No. 47-017-02124

#### POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 121441.

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Office of Oil & Gas  
JAN 16 2015

<b>BIRCH RIVER OFFICE</b> 237 Birch River Road Birch River, WV 26610 <i>phone:</i> 304-649-8606 <i>fax:</i> 304-649-8608	<b>BRIDGEPORT OFFICE</b> 172 Thompson Drive Bridgeport, WV 26330 <i>phone:</i> 304-848-5035 <i>fax:</i> 304-848-5037	<b>CALDWELL OFFICE</b> 212 Cumberland Street Caldwell, OH 43724 <i>phone:</i> 740-305-5007 <i>fax:</i> 740-305-5126	<b>ALUM CREEK OFFICE</b> P.O. Box 108 • 1413 Childress Rd Alum Creek, WV 25003 <i>phone:</i> 304-756-2949 <i>fax:</i> 304-756-2948	<b>RANSON OFFICE</b> 401 South Fairfax Blvd, Suite 3 Ranson, WV 25438 <i>phone:</i> 304-724-5008 <i>fax:</i> 304-724-5010
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1702124f

Topo Quad: West Union 7.5' Scale: 1" = 2000'

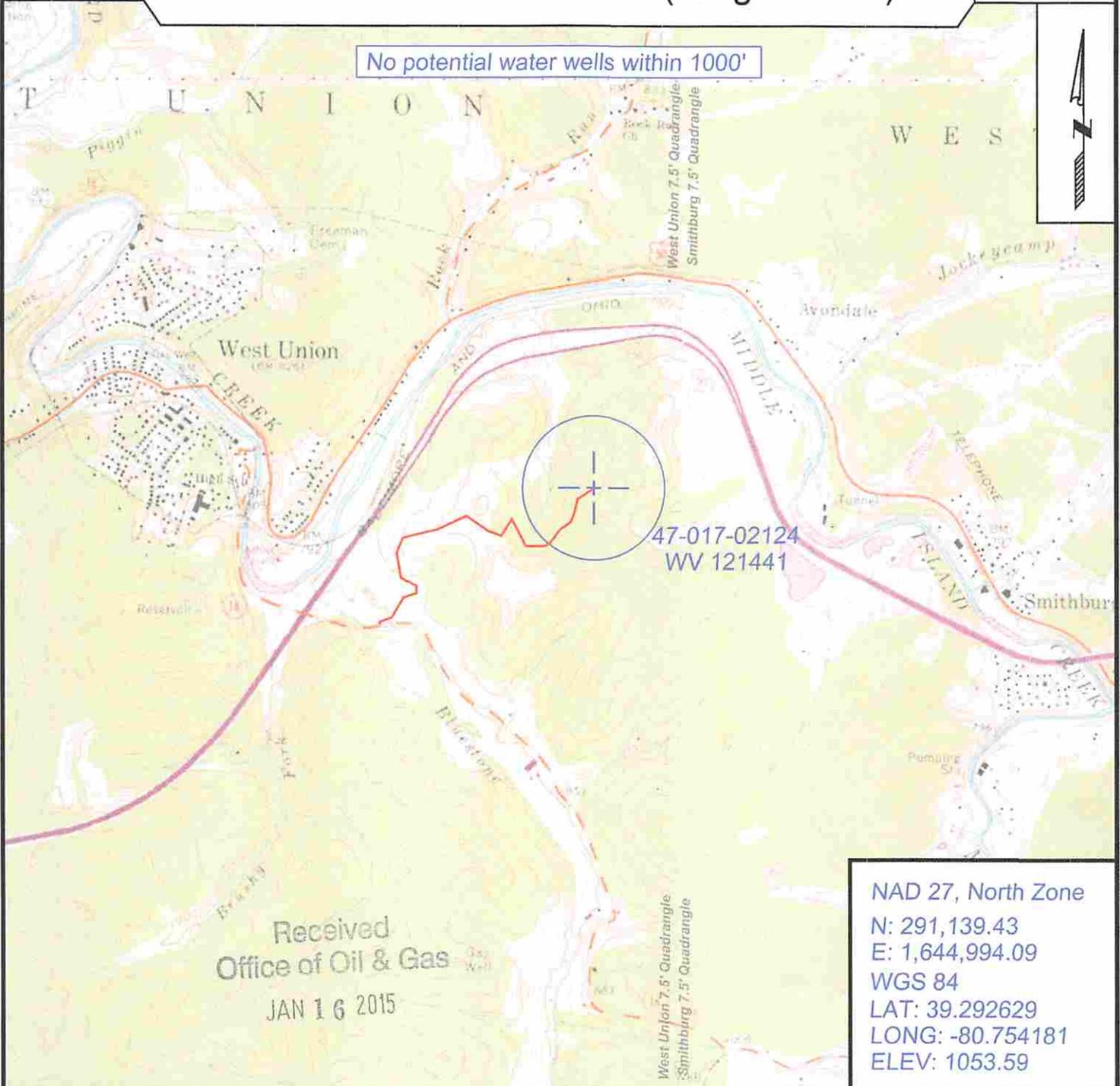
County: Doddridge Date: November 03, 2014

District: West Union Project No: 67-30-00-08

Water

47-017-02124 WV 121441 (Longacre 2 A)

No potential water wells within 1000'



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FAX: (304) 649-8608

PREPARED FOR:

**EQT Production Company**

P.O. Box 280  
Bridgeport, WV 26330