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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](http://www.dep.wv.gov)

June 11, 2015

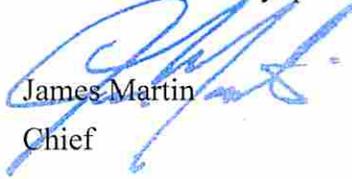
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-8505171, 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: 3-1845  
Farm Name: GRIMM, S. M.  
**API Well Number: 47-8505171**  
**Permit Type: Plugging**  
Date Issued: 06/11/2015

**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.

1) Date: April 6 2015  
2) Operator's Well Number  
657226 (S. M. Grimm #1845)  
3) API Well No.: 47 085 - 05171 P  
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 Jessie J. Wilburn, Samuel Grimm  
Address and Charlotte Grimm  
932 Samuel Grimm Road  
Pullman, WV 26421  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector David Cowan  
Address 1597 Devil Hole Road  
Harrisville, WV 26362-7543  
Telephone (304) 389-3509

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name Jessie J. Wilburn, Samuel Grimm  
and Charlotte Grimm  
Address 932 Samuel Grimm Road  
Pullman, WV 26421  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(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.

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

Subscribed and sworn before me this 6th day of April, 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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov)



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

Received  
Office of Oil & Gas  
APR 08 2015

- 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.

1. Article Addressed to:

Jessie J. Wilburn, Samuel Grimm  
And Charlotte Grimm  
932 Samuel Grimm Road  
Pullman, WV 26421

#657226 Plugging Permit

**X**

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

2. Article Number  
(Transfer from service label)

7014 0150 0001 0654 8853

PS Form 3811, July 2013

Domestic Return Receipt

4708505171  
WV 26330  
0  
mark

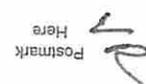
85-58 P1L15-58

PS Form 3811, August 2008 See Reverse for Instructions

#657226 Plugging Permit

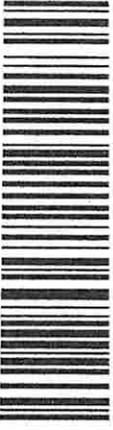
Sent To: Jessie J. Wilburn, Samuel Grimm  
And Charlotte Grimm  
932 Samuel Grimm Road  
Pullman, WV 26421  
City, State: \_\_\_\_\_  
Street, Apt. or PO Box: \_\_\_\_\_

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

Postmark Here 

OFFICIAL USE  
For delivery information visit our website at www.usps.com®  
U.S. Postal Service™  
CERTIFIED MAIL™ RECEIPT  
(Domestic Mail Only; No Insurance Coverage Provided)

7014 0150 0001 0654 8853  
7014 0150 0001 0654 8853



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04/06/2015  
US POSTAGE

ZIP 26330  
041110228892

\$07.40

ark

NY 26330

47 08 50 51 7

David Cowan  
1597 Devil Hole Road  
Harrisville, WV 26362-7543

#604942 Plugging Permit :  
# 654381

85-5171P

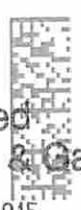
neopost

04/06/2015

US POSTAGE

\$02.87

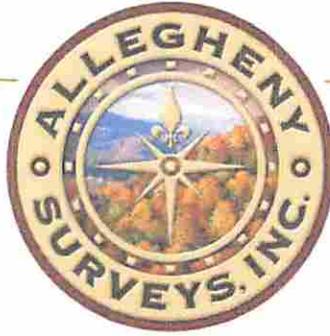
FIRST-CLASS MAIL



ZIP 26330  
041110228892

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Office of Oil & Gas

APR 08 2015



## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
 LEASE NAME AND WELL No. S. M. Grimm #1845 - WV 657226 - API No. 47-085-05171

### POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 667 +/- Owner: Brian and Kimberly Workman  
 Address: 5048 Huff Creek Rd., Cyclone, WV 24827 Phone No. \_\_\_\_\_  
 Comments:

Site: 2 Spacing: 605 +/- Owner: Lilburn Wilburn  
 Address: 932 Samuel Grimm Rd., Pullman, WV 26421 Phone No. \_\_\_\_\_  
 Comments:

**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

**RANDOLPH OFFICE**  
 401 South Fairfax Blvd., Suite 3  
 Charleston, WV 25309  
*phone:* 304-724-5008  
*fax:* 304-724-5008  
 APR 08 2015

47 085 051 71

Topo Quad: Pullman 7.5'

Scale: 1" = 2000'

County: Ritchie

Date: March 25, 2015

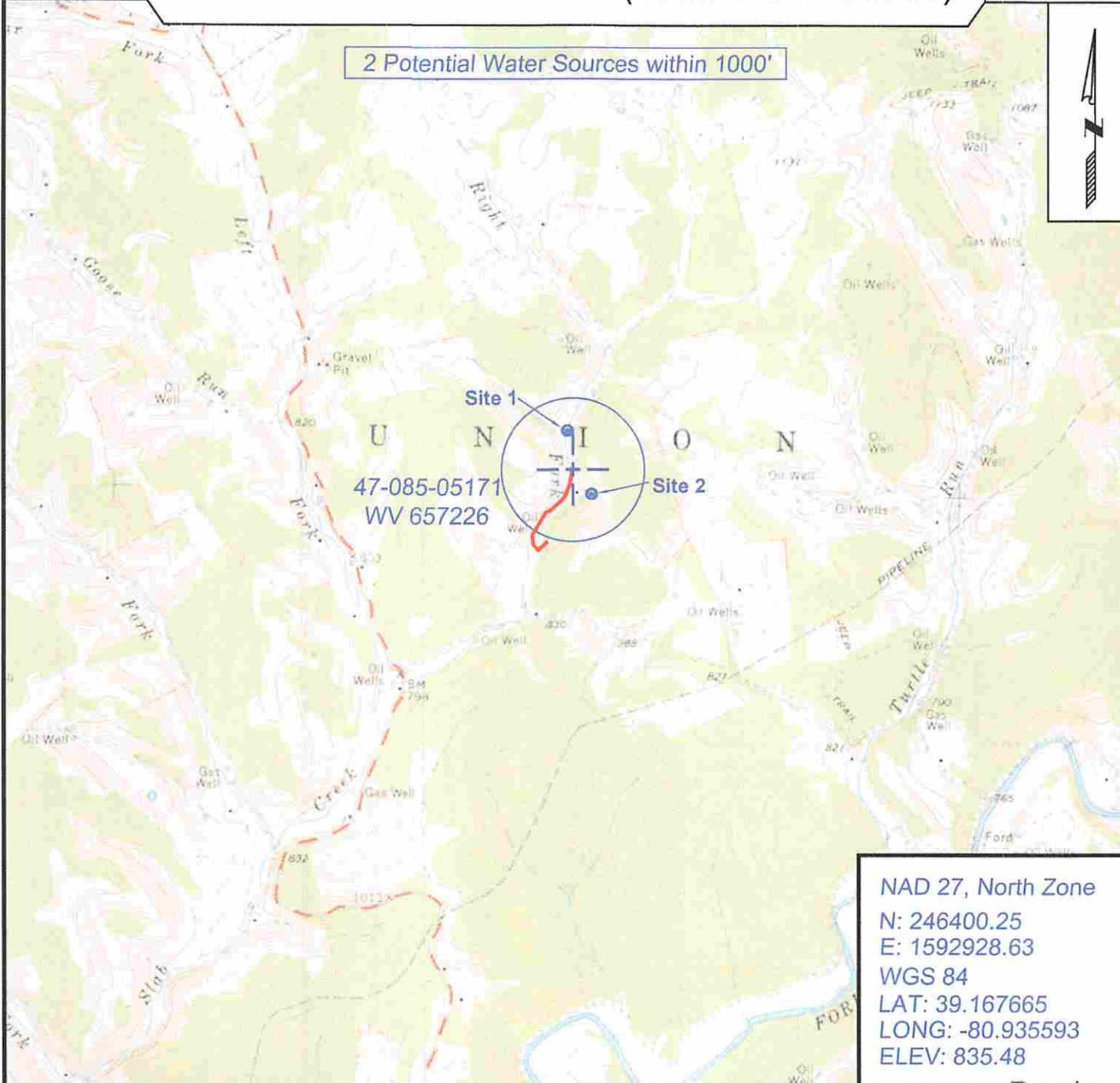
District: Union

Project No: 68-38-00-08

Water

47-085-05171 WV 657226 (S. M. Grimm #1845)

2 Potential Water Sources within 1000'



NAD 27, North Zone  
 N: 246400.25  
 E: 1592928.63  
 WGS 84  
 LAT: 39.167665  
 LONG: -80.935593  
 ELEV: 835.48



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

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 Office of Oil & Gas  
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*OK # 19261  
300.00  
for #11(3)*

4708505171

Date: April 1, 2015  
Operator's Well  
Well No. 657226 (S. M. Grimm #1845)  
API Well No.: 47 085 - 05171

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: 835 ft Watershed: Slab Creek  
Location: Union County: Ritchie Quadrangle: Pullman  
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 David Cowan  
Name: 1597 Devil Hole Road  
Address: Harrisville, WV 26362-7543

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 David Cowan by Gene Smith (phone) Date 6/10/15

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## PLUGGING PROGNOSIS

Grimm, S. M. #3-1845 (657226)  
 Ritchie, Co. WV  
 District, Union  
 API # 47-085-05171  
 BY: R.Green  
 DATE: 02/09/15

**CURRENT STATUS:**

11 3/4" @ 58'  
 8 5/8" @ 1040' cement w/ 340 sks  
 Elevation @ 830'

**Fresh Water @ 20', 35'**  
**Salt Water @ none reported**  
**Coal @ none reported**  
**Gas Shows None Reported**  
**Oil Shows @ None reported**

1. Notify State Inspector, **Dave Cowan**, 304-389-3509, 24 hrs. Prior to commencing operations.
2. TIH w/ tbg @ 1795', set 100' C1A cement plug, 1795' to 1695' (Big Injun)
3. TOOH tbg to 1695', gel hole 1695' to 1350'.
4. TOOH tbg to 1350', Set 100' C1A cement plug 1350' to 1250', (safety plug).
5. TOOH tbg to 1250', gel hole 1250' to 1090'.
6. TOOH tbg to 1090', set 100' C1A cement plug 1090' to 990', (8 5/8" csg seat).
7. TOOH tbg to 990' gel hole 990' to 880'.
8. TOOH tbg to 880', set 100' C1A cement plug 880' to 780' (Elevation).
9. TOOH tbg to 780' gel 780' to 400'.
10. TOOH tbg to 400', Set 100' C1A cement plug 400' to 300' (safety plug).
11. TOOH tbg to 300' gel hole 300' to 150'. TOOH tbg.
12. Free point 8 5/8" casing, cut casing @ free point (est@100'), TOOH csg.
13. Set 100' C1a cement plug 50' in/out of csg cut, perforate all fresh water, salt water, coal, oil and gas shows below cut. Do not omit any plugs. (8 5/8" csg cut, 11 3/4" csg seat)
14. TOOH tbg to 50' set 50 C1A cement plug 50' to surface. ( Fresh water, 35' & 20')
15. Top off with cement as needed.
16. Erect monument with API#.
17. Reclaim road, location to WV-DEP specifications.

GCS  
 6/10/15

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657226  
Hoin 1845



47-084708505171

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
Oil and Gas Division  
WELL RECORD

Quadrangle Pullman 7.5  
Permit No. Rit-5171

Rotary  Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas   
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Company Carnegie Natural Gas Company  
Address 3904 Main Street, Munhall, Pa. 15120  
Farm S. M. Grimm Acres 92  
Location (waters) Rt. Fork Slab Creek  
Well No. 3-1845 Elev. 830'  
District Union County Ritchie  
The surface of tract is owned in fee by \_\_\_\_\_  
Francis Grimm, N. Ridgevill, Ohio  
Address \_\_\_\_\_  
Mineral rights are owned by Francis Grimm, etal.  
Address \_\_\_\_\_  
Drilling Commenced August 17, 1981  
Drilling Completed August 23, 1981  
Initial open flow 3,186,000 cu. ft. \_\_\_\_\_ bbls.  
Final production Same cu. ft. per day \_\_\_\_\_ bbls.  
Well open 11 hrs. before test 745 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10" 11-3/4"	58'	58'	
9 5/8			
8 5/8	104.0'	104.0'	340 SXS
7			
5 1/2			
4 1/2			
3			
2			
Liners Used			

Well treatment details:

Not Treated

Attach copy of cementing record.

Coal was encountered at None Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water 20, 35 Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Big Injun Depth 1795-1801'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Clay			0	10		
Sand			10	30		
Shale			30	60		
Sand			60	80		
Shale			80	100		
Sand			100	125		
R. R. Shale			125	140		
Sand			140	235		
R. R. Shale			235	280		
Sand			280	340		
R. R. Shale			340	460		
Sand			460	490		
Shale			490	518		
Sand			518	532		
R. R.			532	650		
Sand			650	700		
Shale R.R.			700	778		
Sand			778	794		
Shale			794	882		
Sand			882	905		
Shale			905	941		
Sand			941	990		
Shale			990	1022		
Sand			1022	1108		
Shale			1108	1185		

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Office of Oil & Gas  
APR 08 2015

MEO

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand			1185	1235		
Shale			1235	1270		
Sand			1270	1353		
Shale			1353	1510		
Sand			1510	1555		
Shale			1555	1642		
Sand			1642	1694		
Lime			1694	1716		
Shale			1716	1722		
Lime			1722	1788		
Sand			1788	1802		
T.D.				1802'		

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APR 08 2015

Date September 4, 1981 19    

APPROVED Kenneth L. Dunsay Owner

WW-9  
Revised 2/03

Page \_\_\_\_ of \_\_\_\_  
2) Operator's Well Number  
657226 (S. M. Grimm #1845)  
3) API Well No.: 47 085 - 05171 P

**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: Slab Creek Slab Creek Quadrangle: Pullman

Elevation: 835 ft County: Ritchie District: 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.? 10 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

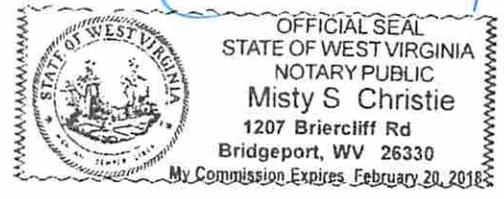
Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 6th day of April, 2015

*Misty S. Christie* Notary Public  
2/20/18

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

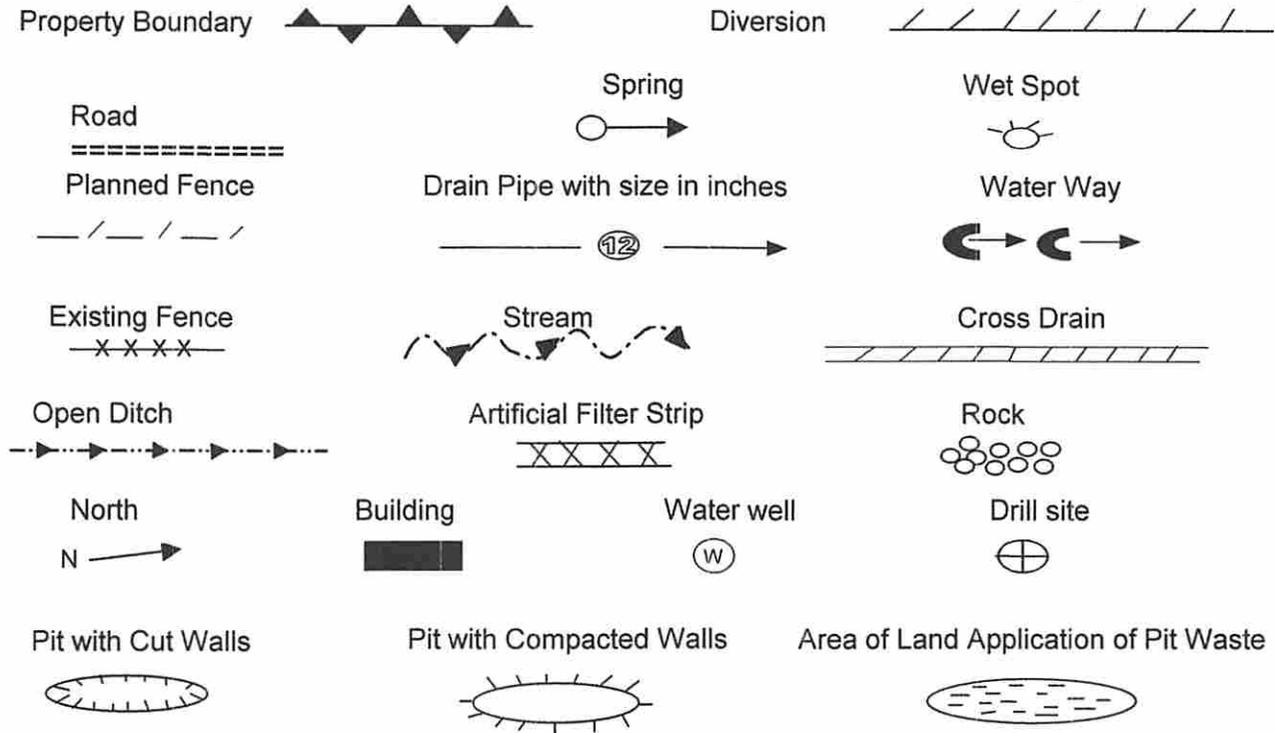
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OPERATOR'S WELL NO.:  
657226 (S. M. Grimm #1845)

85-5171P

**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: Dave Cowan by Joe Smith

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

Title: Inspector  
Field Reviewed? Yes  No

Date: 6/10/15

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47 08 50 51 71

Topo Quad: Pullman 7.5'

Scale: 1" = 2000'

County: Ritchie

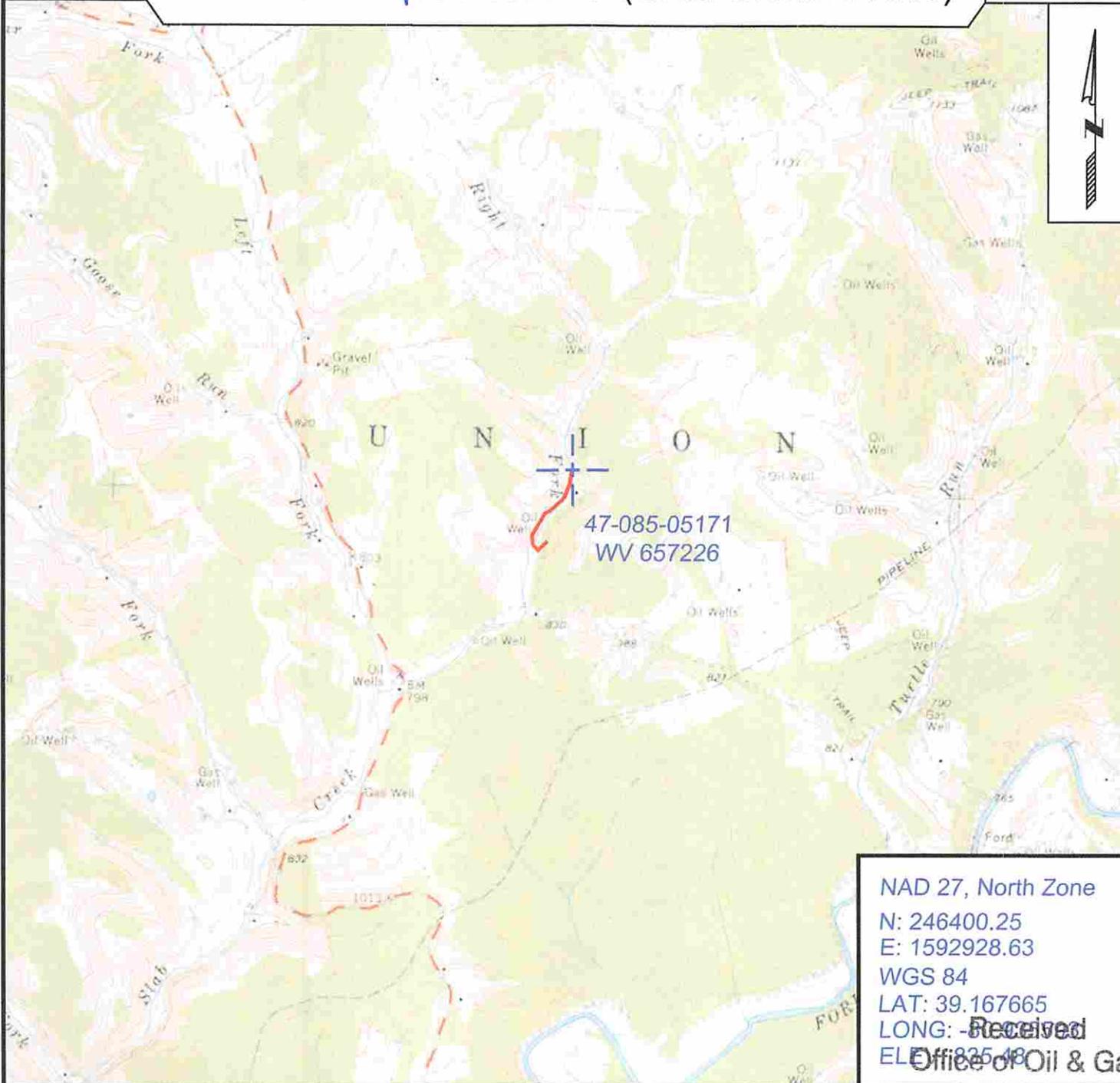
Date: March 25, 2015

District: Union

Project No: 68-38-00-08

47-085-05171 **P** WV 657226 (S. M. Grimm #1845)

Topo



NAD 27, North Zone  
 N: 246400.25  
 E: 1592928.63  
 WGS 84  
 LAT: 39.167665  
 LONG: -80.82548  
 ELEV: 825.48

Received  
 Office of Oil & 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**  
 APR 08 2015  
 P.O. Box 280  
 Bridgeport, WV 26330



H

Operator: EQT PRODUCTION COMPANY  
 API: 8505171  
 WELL No: 3-1845  
 Reviewed by: GCS Date: 6/10/15  
 15 Day End of Comment: 06/13/15

\*Well is on an Agreed Order \*

**CHECKLIST FOR FILING A PERMIT**

**Plugging**

CK# 19261  
\$100.00

- WW-4B
- Inspector signature on WW-4B
- Completion / Well Records of Previous Work
- WW-4A (Notarized)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- Surface Owner Waiver
- Coal Owner / Lessee / Operator Waiver
- WW-9 (Page 1) (Notarized)
- Inspector Signature on WW-9 (Optional)
- Topographic Map of location of well
- WW-7

**OR**

- Mylar Plat (Surface owner on plat matches WW-4A)
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- \$100.00 check (\$0.00 if no pit)