



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

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.

06/12/2015

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.

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:

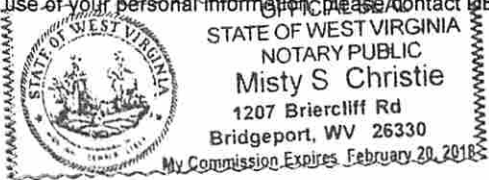
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
 - (2) The plat (surveyor's map) showing the well location on Form WW-6.
- The reason you received these documents is that you have 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



Received
Office of Oil & Gas

APR 08 2015

06/12/2015

- 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

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

2. Article Number
(Transfer from service label)

7014 0150 0001 0654 8853

PS Form 3811, July 2013

Domestic Return Receipt

4708505171
WV 26330

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 or PO Box: Pullman, WV 26421

Total Postage	\$	06.54
Certified Fee		00.01
Return Receipt Fee (Endorsement Required)		00.01
Restricted Delivery Fee (Endorsement Required)		01.50
Total		08.06

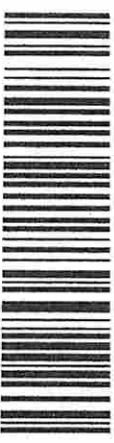
Postmark Here

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)

85-58 P1L15-58

Yes
AI
93
Pu

7014 0150 0001 0654 8853
7014 0150 0001 0654 8853



Received
Office of Oil & Gas
APR 08 2015



04/06/2015
US POSTAGE

ZIP 26330
04117228892

\$07.40

06/12/2015

ark

NY 26330

47 08 50 51 7

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

~~44~~ 51 226
#604942 Plugging Permit :
~~#~~ 654381

85-5171P

Received
Office of Oil & Gas
APR 08 2015

neopost
04/06/2015
FIRST-CLASS MAIL
\$02.87

US POSTAGE

041110228892
ZIP 26330

06/12/2015



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 25304
 phone: 304-724-5008
 fax: 304-724-5008

Received
 Office of Oil & Gas
 APR 08 2015

47 085 051 71

Topo Quad: Pullman 7.5'

Scale: 1" = 2000'

County: Ritchie

Date: March 25, 2015

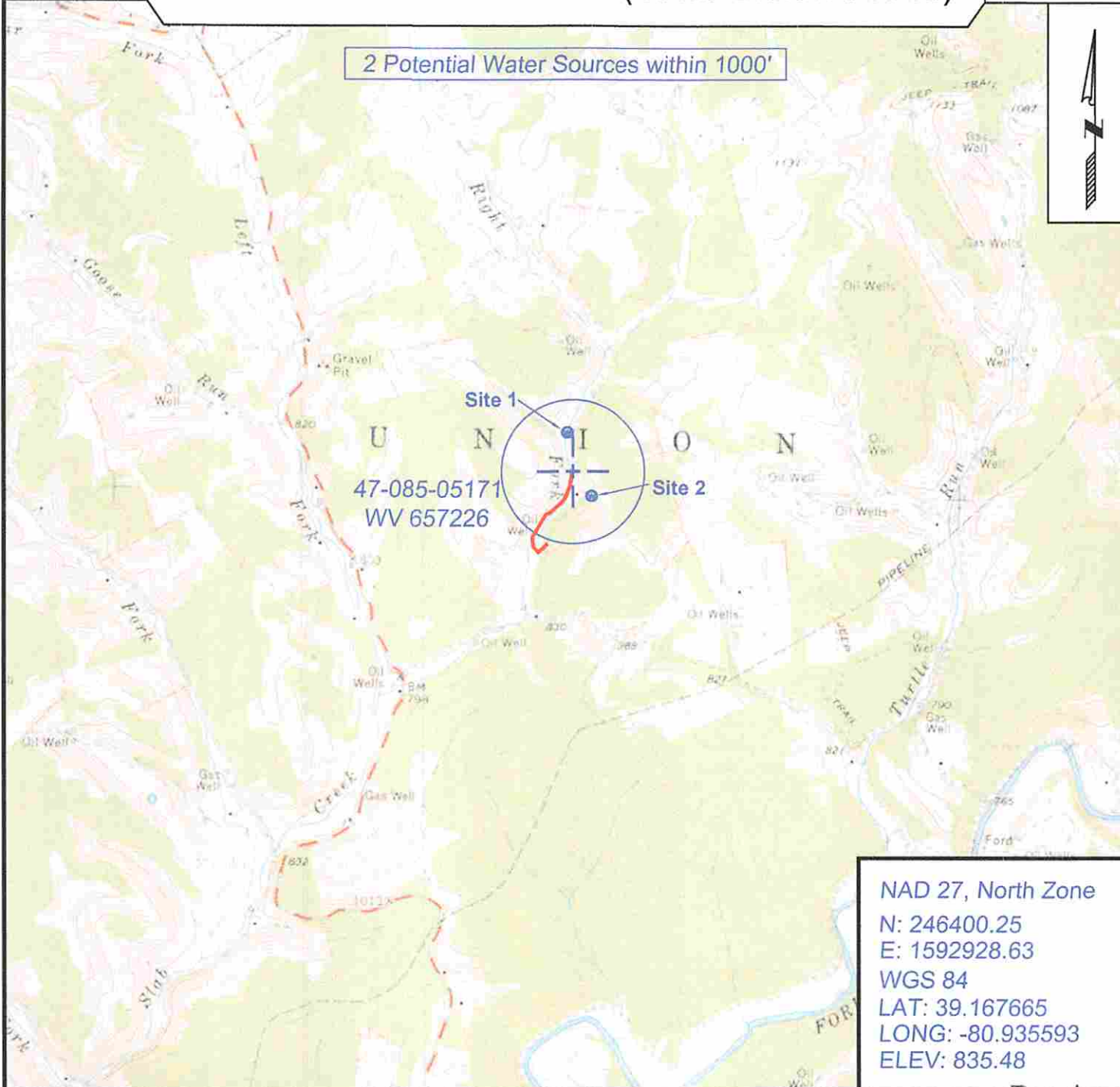
District: Union

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

Received
 Office of Oil & Gas
 APR 08 2015

06/12/2015

*OK # 19261
300.00
for #11(3)*

4708505171

Date: April 8 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

Received
Office of Oil & Gas
APR 08 2015
06/12/2015

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

Received
 Office of Oil & Gas
 APR 08 2015

06/12/2015

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		

Received
Office of Oil & Gas

APR 08 2015

MEO

06/12/2015

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'		

Received
Office of Oil & Gas
APR 08 2015

Date September 4, 1981 19

APPROVED Kenneth L. Dunsay Owner

06/12/2015

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

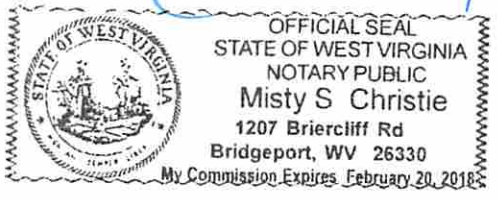
Company Official Title Permitting Supervisor-WV

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

Misty S. Christie Notary Public
2/20/18

My Commission Expires _____

Received
Office of Oil & Gas
APR 08 2015

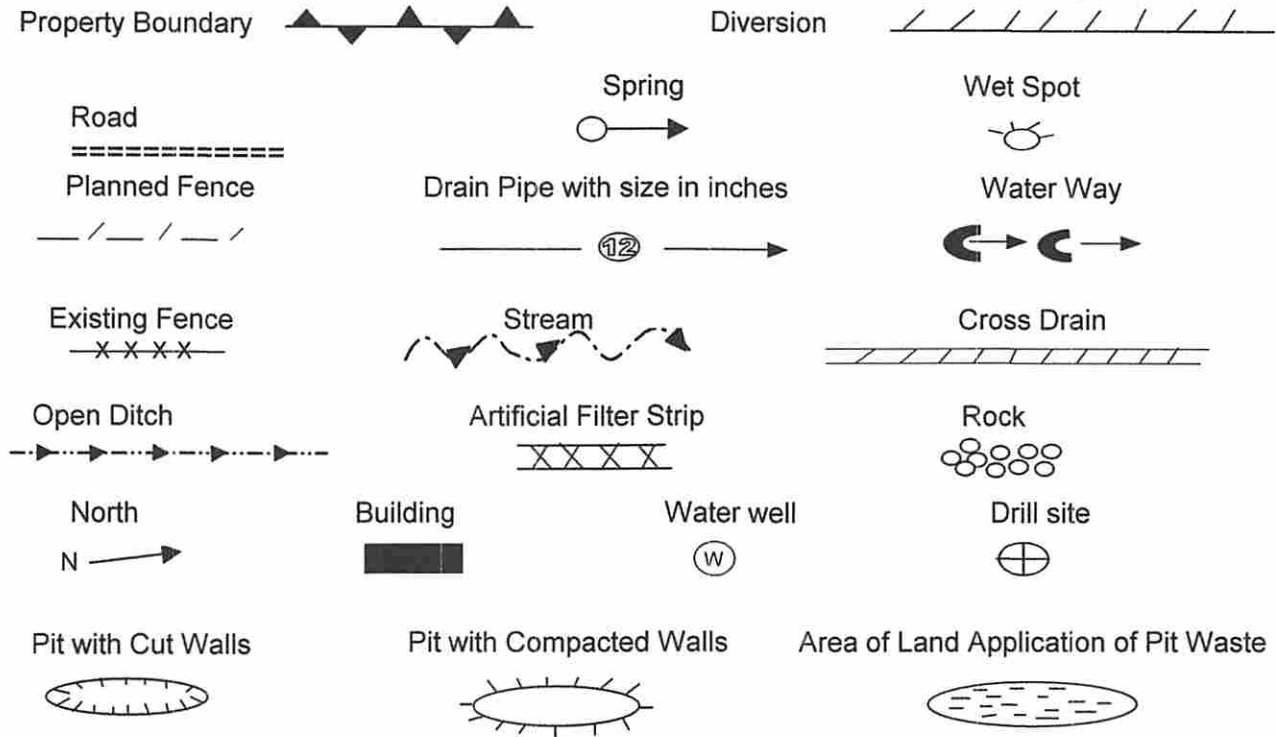


06/12/2015

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

Received
Office of Oil & Gas

APR 08 2015

06/12/2015

47 08 50 51 71

Topo Quad: Pullman 7.5'

Scale: 1" = 2000'

County: Ritchie

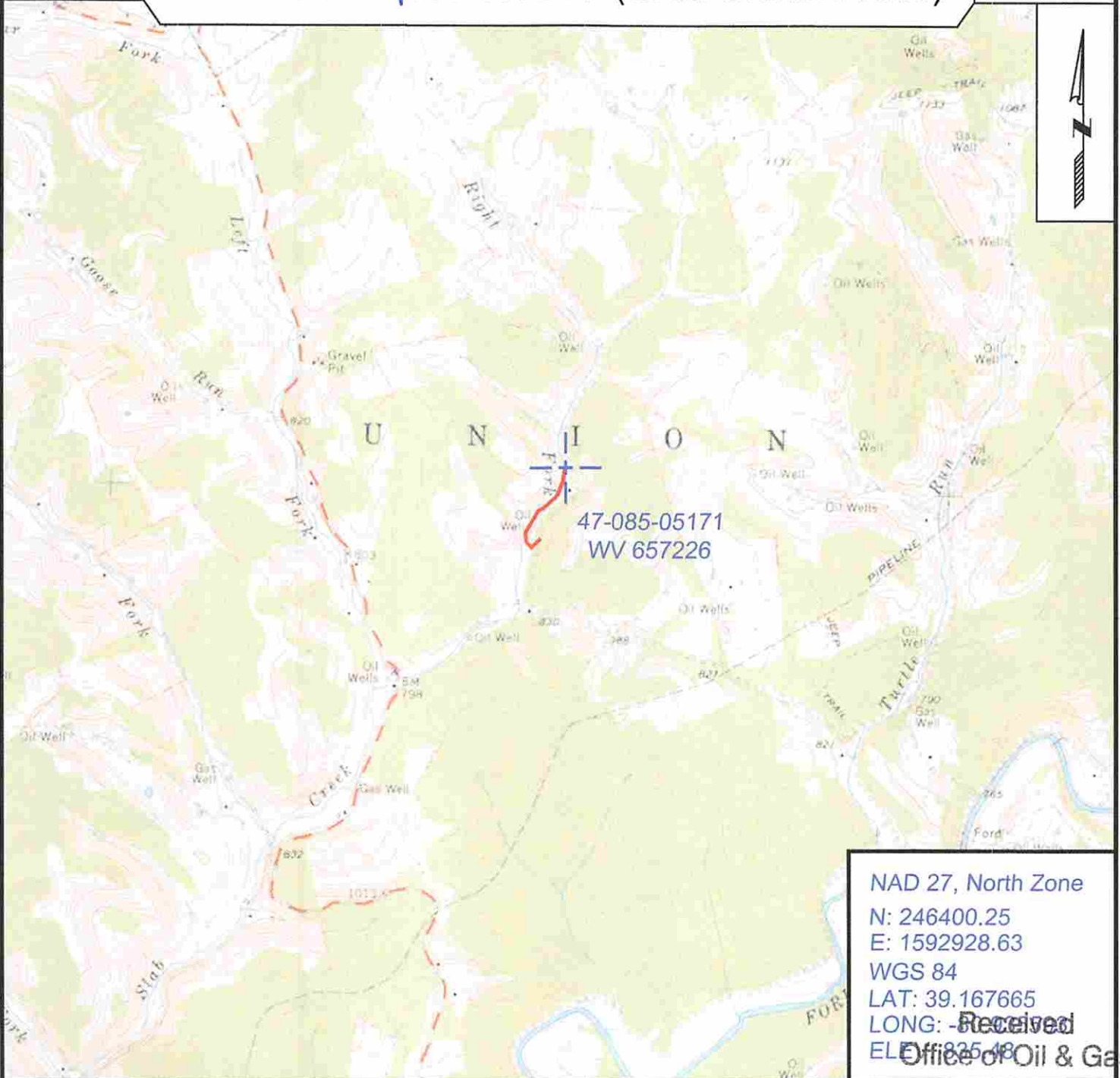
Date: March 25, 2015

District: Union

Project No: 68-38-00-08

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

Topo



47-085-05171
WV 657226

NAD 27, North Zone
 N: 246400.25
 E: 1592928.63
 WGS 84
 LAT: 39.167665
 LONG: -80.825486
 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:

APR 08 2015

EQT Production Company

P.O. Box 280
Bridgeport, WV 26330

06/12/2015

WW-7
8-30-06



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

API: 47-085-05171 P WELL NO.: WV 657226 (S. M. Grimm #1845)

FARM NAME: S. M. Grimm

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Ritchie, DISTRICT: Union

QUADRANGLE: Pullman 7.5'

SURFACE OWNER: Samuel & Charlotte Grimm

ROYALTY OWNER: Jessie Jeanette Wilburn, et al.

UTM GPS NORTHING: 4335385

UTM GPS EASTING: 505564 GPS ELEVATION: 254 m (835 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 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.

Steve Obama
Signature

PS# 2180
Title

3/27/15
Date

Received
Office of Oil & Gas

APR 08 2015

06/12/2015

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)