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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

June 11, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-8503949, 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: 1109  
Farm Name: GUMM, S. M.  
**API Well Number: 47-8503949**  
**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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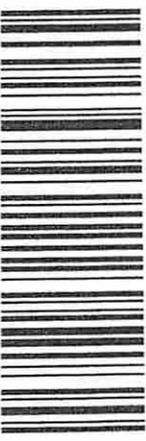
1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of 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.



04/06/2015  
**US POSTAGE**  
**\$07.40<sup>00</sup>**  
 ZIP 26330  
 041L10228892

4708503949

Jesse J Wilburn, Samuel Grimm,  
 And Charlotte Grimm  
 932 Samuel Grimm Rd.  
 Pullman WV 26421  
 654381 Grimm1109 Plugging



7014 2870 0000 7024 7968  
 7014 2870 0000 7024 7968

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**Sent To**  
 Jesse J Wilburn, Samuel Grimm,  
 And Charlotte Grimm  
 932 Samuel Grimm Rd.  
 Pullman WV 26421  
 654381 Grimm1109 Plugging

85-3949P

Received  
 Office of Oil & Gas  
 APR 08 2015

**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.

1. Article Addressed to:  
 Jesse J Wilburn, Samuel Grimm,  
 And Charlotte Grimm  
 932 Samuel Grimm Rd.  
 Pullman WV 26421  
 654381 Grimm1109 Plugging

**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

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47 08 503949

neopost<sup>®</sup>  
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04/06/2015  
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US POSTAGE  
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041110228892



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

#657226  
#604942 Plugging Permit :  
#654381

85-3949P

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Office of Oil & Gas

APR 08 2015

WV 26330

mark



### POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EOT PRODUCTION COMPANY  
LEASE NAME AND WELL No. S. M. Grimm #1109 - WV 654381 - API No. 47-085-03949

#### POTENTIAL SAMPLE LOCATIONS

Site: 1 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 26350  
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

**RANSOM OFFICE**  
401 South Fairfax Blvd, Suite 1  
Martinsburg, WV 26150  
phone: 304-724-5008  
fax: 304-724-5000

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APR 08 2015

4708503949

Topo Quad: Pullman 7.5'

Scale: 1" = 2000'

County: Ritchie

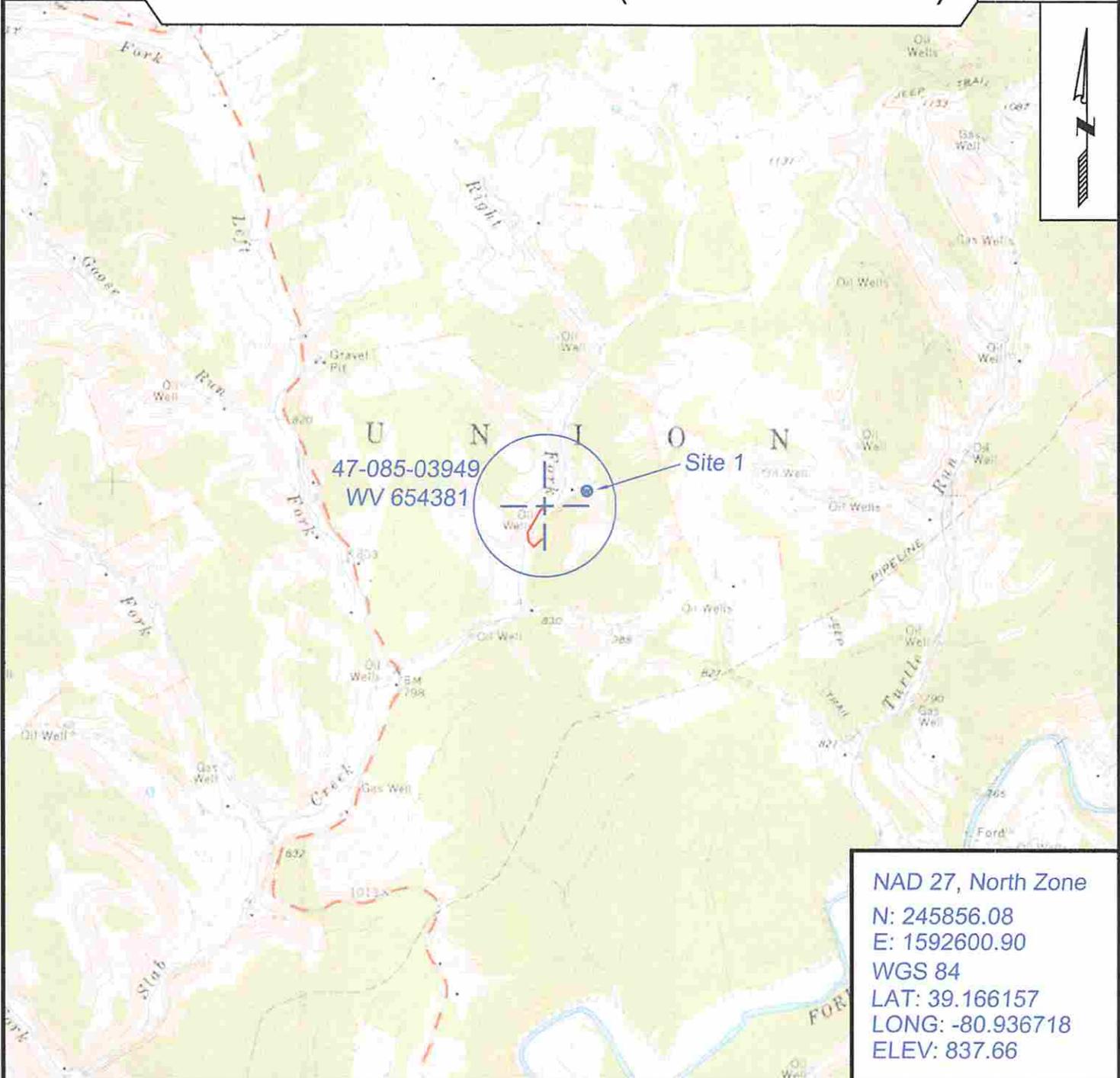
Date: March 24, 2015

District: Union

Project No: 68-38-00-08

Water

47-085-03949 WV 654381 (S. M. Grimm #1109)



47-085-03949  
WV 654381

Site 1

NAD 27, North Zone  
 N: 245856.08  
 E: 1592600.90  
 WGS 84  
 LAT: 39.166157  
 LONG: -80.936718  
 ELEV: 837.66



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:  
**Received**  
**Office of Oil & Gas**  
**EQT Production Company**  
 P.O. Box 2800  
 Bridgeport, WV 26330  
 APR 08 2015

CK# 19261  
300.00  
for a 4(3)

Date: 4708503949  
April 6, 2015  
Operator's Well  
Well No. WV 654381 (Grimm #1109)  
API Well No.: 47 085 - 03949 P

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: 838 Ft Watershed: Slab Creek  
Location: Union County: Richie Quadrangle: Pullman 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 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 phone

Date 6/10/15

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Office of Oil & Gas

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## PLUGGING PROGNOSIS

Grimm.S.M. # 2-1109 (654381)  
 Ritchie, Co. WV  
 Clay, Union  
 API # 47-035-03949  
 BY: R.Green  
 DATE: 02/09/15

**CURRENT STATUS:**

10" @ 162'  
 8 1/4" @ 950'  
 6 5/8" @ 1715'  
 Elevation @ 837'

**Fresh Water @** none reported  
**Salt Water @** none reported  
**Coal @** 440' (Pittsburgh Coal)  
**Gas Shows@** none reported  
**Oil Shows @** 1825' (Big Injun)

1. Notify State Inspector, Dave Cowan, 304-389-3509, 24 hrs. Prior to commencing operations.
2. TIH set 160' C1A cement plug, 1825' to 1665' (oil @ 1825' & 6 5/8" casing seat).
3. TOOH tbg to 1665', gel hole 1665' to 1500' TOOH tbg.
4. Free point 6 5/8" casing, cut casing @ free point, (est @ 1450') TOOH casing.
5. Set 100' C1A cement plug 50' in/out of casing cut, perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
6. TOOH tbg to 1400' gel hole 1400' to 1025'.
7. TOOH tbg to 1025', set 245' C1A cement plug, 1025' to 780' (Salt Sand, 8 1/4" casing seat, elevation)
8. TOOH tbg to 780' gel hole 780' to 700' TOOH tbg.
9. Free point 8 1/4" casing, cut casing @ free point (est @ 700'), TOOH casing.
10. Set 100' C1A cement plug 50' in/out of cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
11. TOOH tbg to 650', gel hole 650' to 450'.
12. TOOH tbg to 450', set 100' C1A cement plug 450' to 350' (coal @ 440').
13. TOOH tbg to 350', gel hole to 350' to 210'.
14. Set 210' C1A cement plug, 210' to surface. (10" casing seat). *Attempt to pull 10"*
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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 Office of Oil & Gas  
 APR 08 2015

1381 1109 CARNEGIE NATURAL GAS COMPANY 4708503949

Map Sheet No. \_\_\_\_\_

RECORD OF WELL

Well No. 2-1109

Drilled on G.H. Grimm

Farm of 93

Acres, situate in \_\_\_\_\_

Union Township, Ritchie District, W. Va.

County W. Va.

Lease No. 6070-

Shipping Point \_\_\_\_\_

Foreman \_\_\_\_\_

WELL

Located June 14, 1922

Commenced Drilling Jan. 1st, 1923

Notified Gen'l Office \_\_\_\_\_

Notified Gen'l Office \_\_\_\_\_

Commenced Nov. 20, "

Completed Drilling Jan. 28, "

Completed " 24, "

Notified Gen'l Office \_\_\_\_\_

Contractor G.H. Jewart,

Contractor U.W. McCall Oil & Gas Co.

Address Pannsboro, W. Va.

Address Pittsburgh, Pa.

ROCK FORMATION	TOP	BOTTOM	REMARKS	PRESSURE AND VOLUME
Conductor	9			1/2 Minute
Mapleton Coal	None			1 "
Pittsburgh Coal	440	446		2 "
Little Dunkard	None			3 "
Big Dunkard	None			4 "
Gas Sand	945	970		5 "
1st Salt Sand	1025	1100		10 "
2nd Salt Sand	1250	1310		15 "
Maxton Sand	1520	1645		30 "
Little Lime	1075	1690		1 Hour
Pencil Cave	1090	1693		Rock
Big Lime	1693	1768		Size of { Tubing
Big Injun	1768	1843	Oil from 1825 to 1833	{ Casing
Gantz Sand				Vol. by Water
50 Foot Sand				" " Mercury
30 Foot Sand				" " Pressure
Gordon Stray				CONNECTED TO MAIN LIN
Gordon Sand				
4th Sand				Length of Line
5th Sand				Size of Line
Bayard Sand				DISCONNECTED FROM LIN
Elizabeth				
Spechley				Notified Lessor
Bradford				Abandoned
				Repacked
				With Feet

as furnished by Carnegie Nat. Gas Company, flat rate. Total Depth 1843 Feet at \$ \_\_\_\_\_ per Foot \$ \_\_\_\_\_ Gas Furnished at \_\_\_\_\_ Cents per Foot

CASING RECORD

SIZE	CHARGED TO WELL		PUT IN WELL		PULLED		LEFT IN WELL		TRANSFERRED		LEFT AT WELL		PACKER
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	
10"	104		162		162		162		24		None		Received Office of Oil & Gas APR 08 2015 WELL SHOT 2-1 By _____ With 15' at 1843'
6"	1838		950		950		950		888		"		
4"	1942		1715		"		1715		None		200		
2"			1843		1843		1843		0		(R.O. 8871)		

Casing Cemented in Well \_\_\_\_\_ by \_\_\_\_\_ Company E

RECORD OF MATERIAL USED AT WELL

4708503949

Well on Sec. 3, T. 12N, R. 12E, S. 1W, Gravel Farm in Union Township, Ritchie County, W. Va.

BROUGHT FROM		Feet	In.	Date	TAKEN TO	Feet	In.
RIG							
Lawrence Cox	#5-736						
10" CASING							
7 Rogue	#3-1110	57		Jan 17	Lawrence Cox	#1-1142	24
1 Bruffey	#1	129					
8 1/2" CASING							
2 Toll Gate Yd.		888		Dec 4	Ward	#4-1144	785
1 Bruffey	#1	929		Jan 10	Lawrence Cox	#1-1142	103
6 3/8" CASING							
7 Rogue	#5-1110	180					
2 Dohd	#2-901	1545					
2 Rogue	#2-1012	105					
2 Lamin pipe yd.		86					
2 Lamin	#1-721	20					
5" CASING							
" TUBING							
BRANCH LINE CONNECTING WELL							
MISCELLANEOUS							

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**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 Quadrangle: Pullman 7.5'

Elevation: 838 Ft County: Richie 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

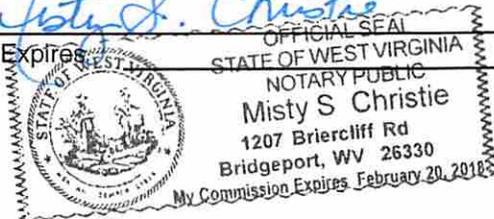
Company Official Title Permitting Supervisor-WV

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

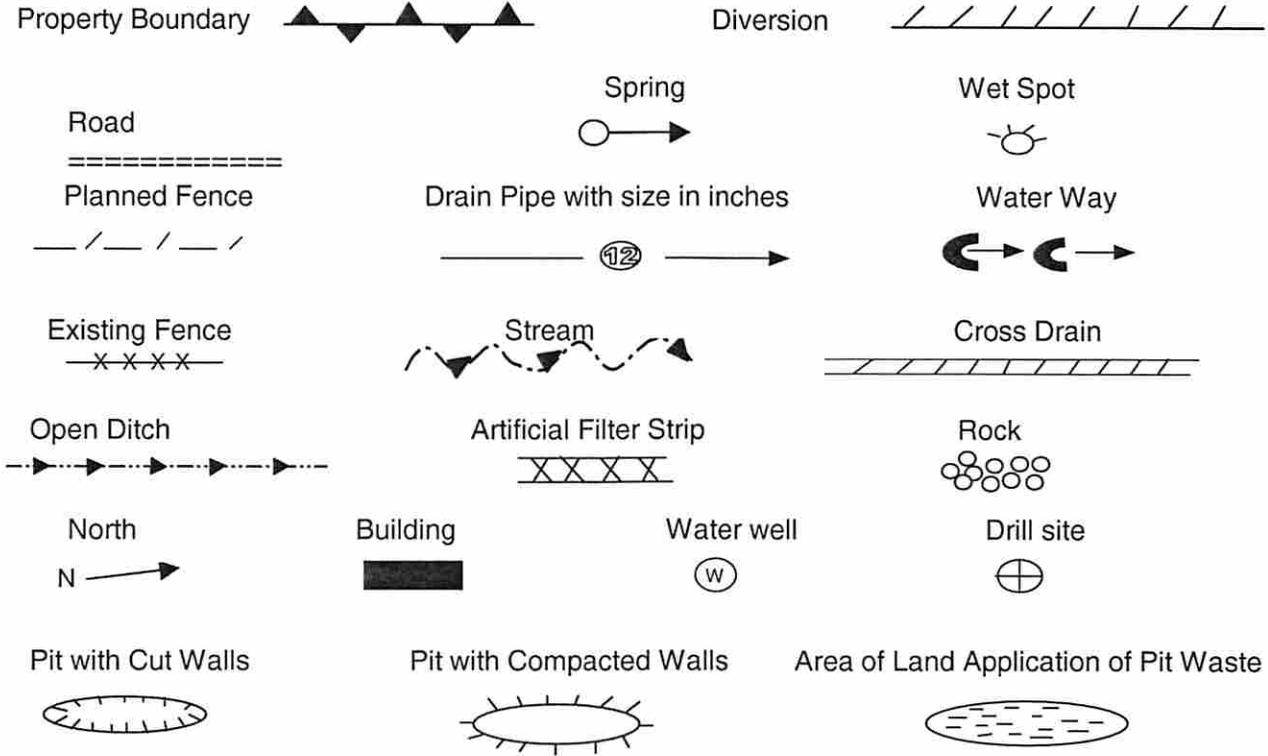
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Office of Oil & Gas  
2015

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My Commission Expires 2/20/18 Notary Public



**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**

Seed Type	lbs/acre
Red Fescue	40
Alsike Clover	5
Annual Rye	15

**Area II**

Seed Type	lbs/acre
Red Fescue	15
Alsike Clover	5

**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 Gene Smith (phone)

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

Title: Inspector Date: 6/10/15  
Field Reviewed? Yes  No

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47 08 50 39 49

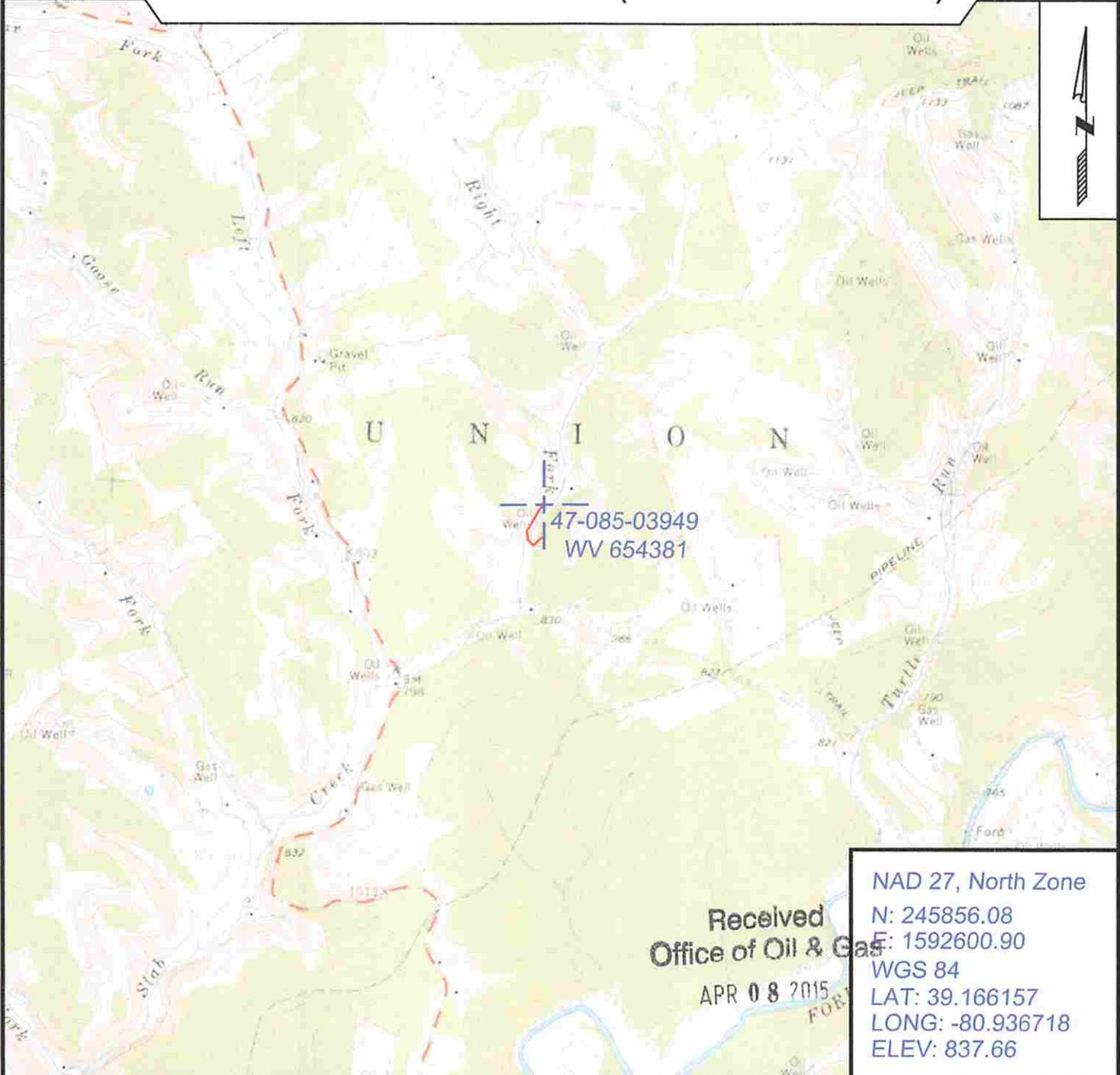
Topo Quad: Pullman 7.5' Scale: 1" = 2000'

County: Ritchie Date: March 24, 2015

District: Union Project No: 68-38-00-08

47-085-03949P WV 654381 (S. M. Grimm #1109)

Topo



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NAD 27, North Zone  
 N: 245856.08  
 E: 1592600.90  
 WGS 84  
 LAT: 39.166157  
 LONG: -80.936718  
 ELEV: 837.66



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



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

API: 47-085-03949 P WELL NO.: WV 654381 (S. M. Grimm #1109)

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: 4335217

UTM GPS EASTING: 505467 GPS ELEVATION: 255 m (838 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.

Received  
Office of Oil & Gas

APR 08 2015

Signature

PS# 2180  
Title

3/27/15  
Date

H

Operator: EQT PRODUCTION COMPANY  
 API: 8503949  
 WELL No: 1109  
 Reviewed by: GCS Date: 6/10/15  
 15 Day End of Comment: 04/13/15

\* 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)