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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

December 06, 2013

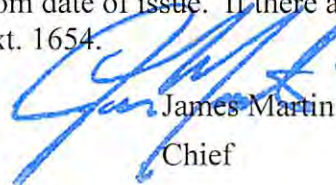
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-2103125, 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: WV 655861 (G.W. MILLER #1382)  
Farm Name: MILLER, RICHARD E.

**API Well Number: 47-2103125**

**Permit Type: Plugging**

Date Issued: 12/06/2013

**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.

Date: 10-31-13  
Operator's Well \_\_\_\_\_  
Well No. 655861 G.W.Miller #1382  
API Well No.: 47 021 - 03125

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: 1160 Watershed: Crooked Run  
Location: Center 01 County: Gilmer 21 Quadrangle: Tanner 7.5' 634  
District: \_\_\_\_\_

3) 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

3) Oil & Gas Bryan Harris  
Name: P.O.Box 157  
Address: Volga, WV 26238

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  
DEC 05 2013  
WV DEPT OF ENVIRONMENTAL PROTECTION  
Enviro. Affairs

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 Bryan Harris Date 12-4-13

21 03125 P

PLUGGING PROGNOSIS - Weston

**Miller #1382 (655861)**

GILMER, COUNTY, WEST VIRGINIA

API # 47-021-03125

Center District

BY: Craig Duckworth

DATE: 10/21/13

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WV Department of  
Environmental Protection

**CURRENT STATUS:**

10" csg @ 145'  
8 1/4" csg @ 793'  
6 5/8" csg @ 1536'  
2" tbg @ 1536' Packer at 1497'

TD @ 1536'

Fresh Water @ None Reported

Salt Water @ None reported

1<sup>st</sup> Salt Sand @ 965'

Coal @ None reported

Gas shows @ Gas Sand 900' ; 3<sup>rd</sup> Salt Sand 1397' ; Maxton Sand 1509'

Oil Shows @ None Reported

Stimulation: None Reported

1. Notify State Inspector, Bryan Harris 304-553-6087, 24 hrs. Prior to commencing operations.
2. Attempt to pull 2" tbg, If unable to pull, Free point above packer and shoot at free point.
3. TOOH w/ tbg . Attempt to pull 6 5/8", If unable to pull, Free point and shoot at free point
4. TIH w/ tbg @ 1497'; Set 200' CIA Cement Plug @ 1497' to 1297' ( gas show@ 1509' Maxton Sand, 1397 3<sup>rd</sup> Salt Sand & 1536' @ 6 5/8" csg set)
5. Set a 100' CIA Cement Plug 50' In/Out of cut. Perf. all FW, Coal, Oil and Gas shows below 6 5/8" cut. Do not omit any plugs
6. TOOH w/ tbg @ 1297; gel hole @ 1297' to 1055'.
7. TOOH w/ tbg @ 1055'; Set 300' CIA Cement Plug @ 1055' to 745' ( Salt Sand 1055' & Gas Sand 900' ; 8 1/4" csg set 793')
8. Set a 100' CIA Cement Plug 50' In/Out of cut. Perf. all FW, Coal, Oil and Gas shows below 8 1/4" cut. Do not omit any plugs
9. TOOH w/ tbg @ 745; gel hole @ 745' to 200'
10. TOOH w/ tbg @ 200'; Set 200' CIA Cement Plug @ 200' to Surface (10" @ 230')
11. Top off as needed
12. Set Monument to WV-DEP Specifications
13. Reclaim Location & Road to WV-DEP Specifications

MAY NOT BE ANY OR ONLY 20' OF 10" CASING IN THE WELL  
ACCORDING TO YOUR RECORD

JWim

2103125A

GW Miller 1382

655861

47 021-03125

*Blowville NW*

# CARNEGIE NATURAL GAS COMPANY

Map Sheet No. \_\_\_\_\_ RECORD OF WELL Well No. \_\_\_\_\_  
 Drilled on *D. H. Miller* Farm of *300* Acres, situate in \_\_\_\_\_  
*Center* Township *Center* County *W. Va.* Lease No. *521*  
 Shipping Point \_\_\_\_\_ Foreman \_\_\_\_\_

RIG \_\_\_\_\_ WELL \_\_\_\_\_  
 Located *Prod 20-1926* Commenced Drilling *April 6 1927*  
 Notified Gen'l Office \_\_\_\_\_ Notified Gen'l Office \_\_\_\_\_  
 Commenced *Feb 21 1927* Completed Drilling *April 26*  
 Completed *Feb. 28-1927* Notified Gen'l Office \_\_\_\_\_  
 Contractor *Webber Fratt* Contractor *W. C. Lane & Williams*  
 Address *Weston, W. Va.* Address *Jettaburg, W. Va.*

ROCK FORMATION	TOP	BOTTOM	REMARKS	PRESSURE AND VC
Conductor	16		ELEVATION 1130'	1/2 Minute
Mapleton Coal				1 " 95
Pittsburgh Coal			<i>none</i>	2 " 135
Little Dunkard	325	375		3 " 150
Big Dunkard	537	540		4 " 165
Gas Sand	850	930	<i>show gas at 900</i>	5 " 175
1st Salt Sand	965	1055	<i>no mud not test</i>	10 "
2nd Salt Sand	1115	1275	<i>show gas at 1397. note</i>	45 "
Maxton Sand	1330	1425	<i>gas at 1509-1514</i>	30 "
Little Lime			<i>3/10 Mercury 2'</i>	1 Hour
Pencil Cave				Rock 225
Big Lime				Size of Tubing 2'
Big Injun				Casing
Gantz Sand				Vol. by Water
50 Foot Sand				" " Mercury 3/10
30 Foot Sand				" " Pressure
Gordon Stray				
Gordon Sand				CONNECTED TO MAIN
4th Sand				<i>Aug 27-27</i>
5th Sand				Length of Line 1605
Bayard Sand				Size of Line 2'
Elizabeth				DISCONNECTED FROM
Speechley				<i>turned in line at</i>
Bradford				<i>by J. H. Wiman</i>

*Surge water 16 days with*  
*urgent at Baker*

Total Depth *1536* 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.	
<i>10 1/8</i>	<i>185</i>		<i>145</i>		<i>145</i>		<i>none</i>				<i>185</i>		Kind <i>6 5/8 x 3"</i>
<i>8 1/4</i>	<i>859</i>		<i>793</i>		<i>none</i>		<i>793</i>				<i>60</i>		Size <i>Anchor</i>
<i>6 5/8</i>	<i>1865</i>		<i>1536</i>				<i>1536</i>				<i>329</i>		Sot at <i>1/29</i>
<i>2"</i>	<i>1548</i>		<i>1536</i>				<i>1536</i>				<i>13</i>		Office of Oil and Gas

WELL SHOT

By \_\_\_\_\_  
 With *NOV 01 2013*

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

WV Department of Environmental Protection

2103125P

WW-4-A  
Revised 6/07

- 1) Date: 10-31-13
- 2) Operator's Well Number  
655861 G.W.Miller #1382
- 3) API Well No.: 47 021 - 03125  
State County Permit

CK 16891  
10000

**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 Richard Edmand Miller ✓  
Address 6133 U.S. Hwy. 33W  
Glennville, WV 26351

(b) Name Coastal Forest Resources Company ✓  
Address P.O. Box 979  
Buckhannon, WV 26201

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

6) Inspector Bryan Harris ✓  
Address P.O.Box 157  
Volga, WV 26238  
Telephone 304-533-6087

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

(b) Coal Owner(s) with Declaration  
Name Kathy Ann Miller ✓  
109 Covington Place  
Address Lewisville, NC 27023-9804

Name Levona Miller ✓  
Address 111 1st St.  
Glennville, WV 26351

(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:  
By \_\_\_\_\_  
Its Address:  
Telephone:

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

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Office of Oil and Gas  
NOV 01 2013

Subscribed and sworn before me this

31 day of OCTOBER, 2013

My Commission Expires:

6/27/2018

Notary Public

WV Department of Environmental Protection

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).

2103125A

WW2-A

**Additional Coal Owners:**

- ✓ Judith Jay Noell  
175 Sugar Camp Pt.  
Maynardville, TN 37807
- ✓ Vicki Skinner  
6 Loomis Dr.  
Bridgeport, WV 26330
- ✓ Warren V. Miller  
349 Hellel St.  
Waynesburg, PA 15370
- ✓ Mrs. Norma J. Miller  
1812 McKnight Mill Rd. Apt. C  
Greensboro, NC 27405
- ✓ Thelma M. Hays  
5976 Highland Rd.  
Cleveland, OH 44143
- Neva M. Fallen  
R.R. 6 Box 407  
Buckhannon, WV ~~26035~~
- ✓ Estate of Susan A. Miller  
C/O Lowell W. Weaver Exc.  
15 Kimberly Lane Apt. 604  
Jane Lew, WV 26378

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Office of Oil and Gas

NOV 01 2013

WV Department of  
Environmental Protection

2103125P

WW2-A

**Additional Coal Owners:**

Vicki Skinner  
6 Loomis Dr.  
Bridgeport, WV 26330

Warren V. Miller  
349 Hellel St.  
Waynesburg, PA 15370

Mrs. Norma J. Miller  
1812 McKnight Mill Rd. Apt. C  
Greensboro, NC 27405

Thelma M. Hays  
5976 Highland Rd.  
Cleveland, OH 44143

✓  
Neva M. Fallen  
R.R. 6 Box 407  
Buckhannon, WV 26201

Estate of Susan A. Miller  
C/O Lowell W. Weaver Exc.  
15 Kimberly Lane Apt. 604  
Jane Lew, WV 26378

**Received**

NOV -7 2013

Office of Oil and Gas  
West Dept. of Environmental Protection





### POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
LEASE NAME AND WELL No. G. W. Miller #1382 - WV 655861 - 47-021-03125

The initial mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or other purposes within 1000' of the existing well site. The following landowners will be notified of the opportunity to request a water sample.

\*Please note that the following information is subject to change upon field inspection.

#### POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 975' +/- Owner: Richard Edmand Miller  
Address: 6133 US HWY 33West, Glenville, WV 26351 Phone No. 304.462.8876  
Comments:

Site: 2 Spacing: 990' +/- Owner: Roland E. Miller II  
Address: 605 James St., Glenville, WV 26351 Phone No. 304.462.7144  
Comments:

**BIRCH RIVER OFFICE**  
P.O. Box 438 • 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 Road  
Alum Creeks, WV 25003  
phone: 304-756-2949  
fax: 304-756-2948

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Office of Oil and Gas  
ALUM CREEK OFFICE  
P.O. Box 108 • 1413 Childress Road  
Alum Creeks, WV 25003  
phone: 304-756-2949  
fax: 304-756-2948  
WV Department of Environmental Protection

Topo Quad: Tanner 7.5'

Scale: 1" = 2000'

County: Gilmer

Date: September 30, 2013

District: Center

Project No: 25-19-00-07

Water

# 47-021-03125 WV 655861 (G. W. Miller #1382)

(2) potential water wells within 1000'



NAD 27, South Zone  
 N: 685,684.49  
 E: 2,029,384.43  
 WGS 84  
 LAT: 38.883060  
 LONG: -80.896609  
 ELEV: 1160.44



SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
 1-800-482-8606  
 P.O. BOX 438  
 BIRCH RIVER, WV 26610  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

PREPARED FOR: *NOV 01 2013*  
**EQT Production Company**  
 Environmental Protection  
 P.O. Box 280  
 Bridgeport, WV 26330

2) Operator's Well Number  
**655861 G.W.Miller #1382**

3) API Well No.: 47 021 - 03125

**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: Crooked Run Quadrangle: Tanner 7.5'

Elevation: 1160 County: Gilmer District: Center

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.? 30 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

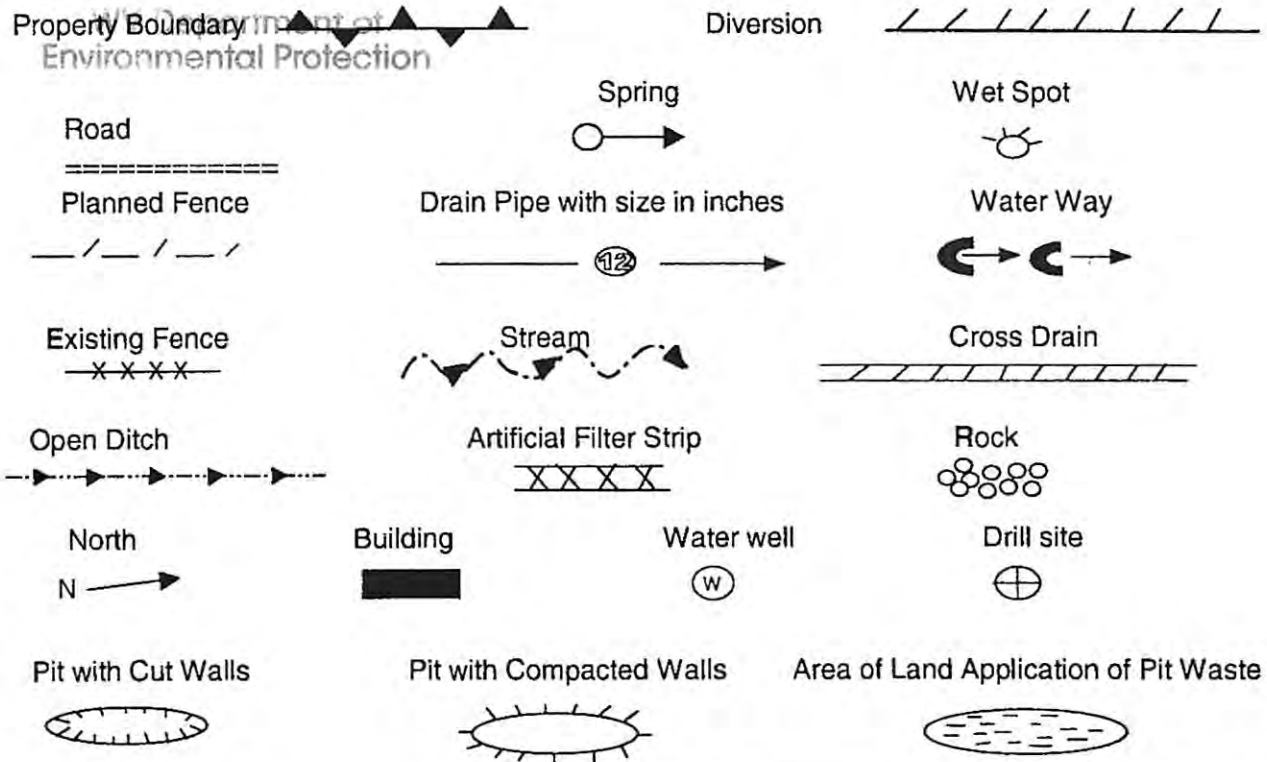
Subscribed and sworn before me this 31 day of OCTOBER, 2013

My Commission Expires 6/27/2018 Notary Public



DEC 05 2013

**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH 5.8  
 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
KY-31	40	Orchard Grass	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: Bryan Ham

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

Title: Oil & Gas Inspector Date: 12-4-13  
 Field Reviewed? X Yes      No

Topo Quad: Tanner 7.5'

Scale: 1" = 2000'

County: Gilmer

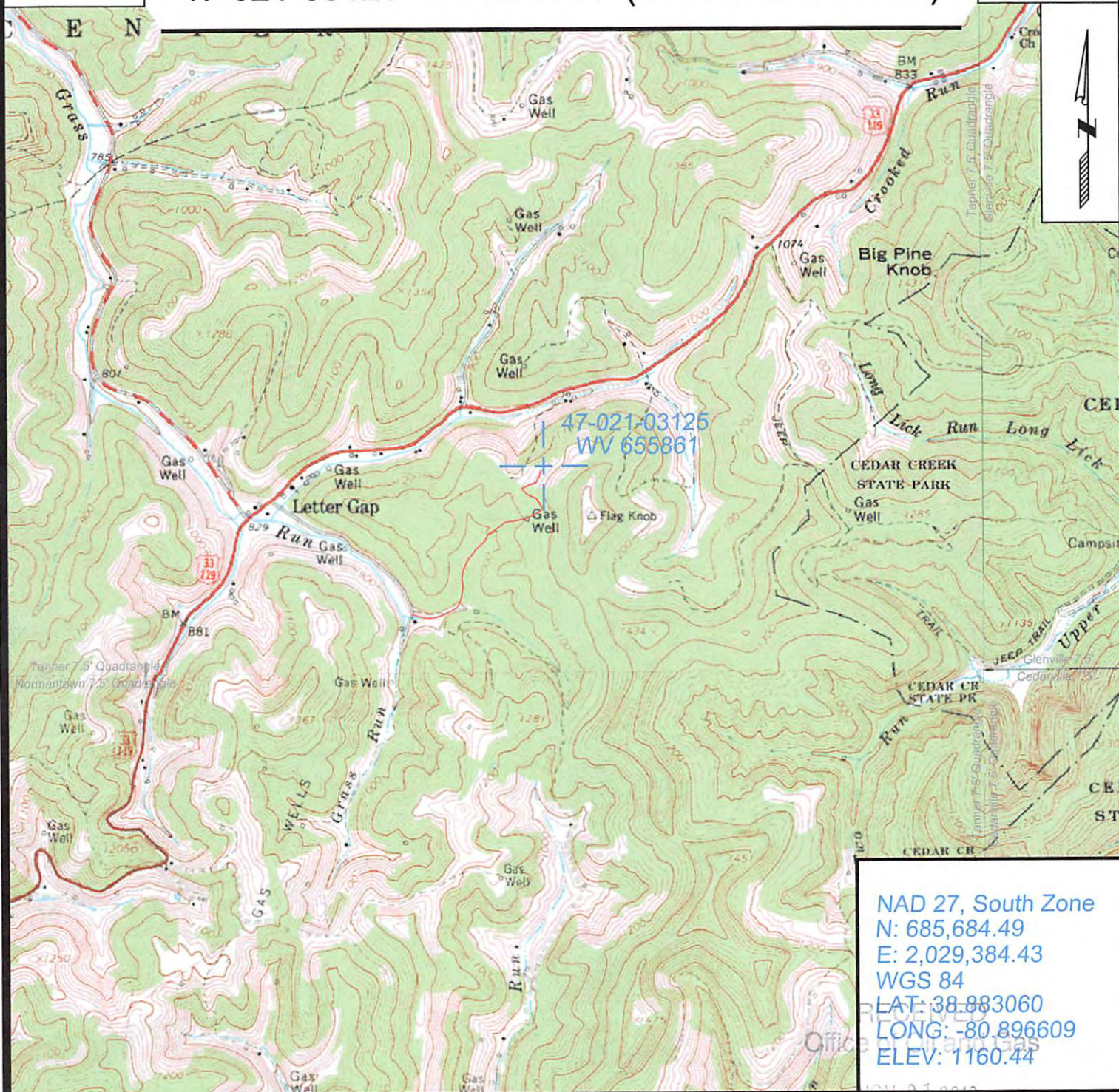
Date: September 30, 2013

District: Center

Project No: 25-19-00-07

47-021-03125 WV 655861 (G. W. Miller #1382)

Topo



NAD 27, South Zone  
 N: 685,684.49  
 E: 2,029,384.43  
 WGS 84  
 LAT: 38.883060  
 LONG: -80.896609  
 ELEV: 1160.44



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PREPARED FOR: *NOV 01 2013*  
**EQT Production Company**  
 Environmental Protection  
 P.O. Box 280  
 Bridgeport, WV 26330



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

API: 47-021-03125 WELL NO.: WV 655861 (G. W. Miller #1382)

FARM NAME: G. W. Miller

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Gilmer DISTRICT: Center

QUADRANGLE: Tanner 7.5'

SURFACE OWNER: Richard E. Miller

ROYALTY OWNER: G. W. Miller Heirs

UTM GPS NORTHING: 4303805

UTM GPS EASTING: 508968 GPS ELEVATION: 354 m (1160 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.

[Signature]  
Signature

PS # 2180  
Title

10/3/13  
Date

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WV Department of  
Environmental Protection  
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