



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

December 06, 2013

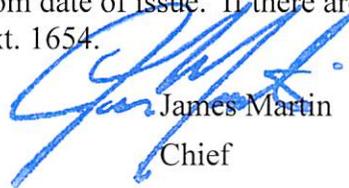
WELL WORK PLUGGING PERMIT

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

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 Department of
Environmental Protection

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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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

1st Salt Sand @ 965'

Coal @ None reported

Gas shows @ Gas Sand 900' ; 3rd 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 3rd 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

Allegheny NW

CARNEGIE NATURAL GAS COMPANY

Map Sheet No. _____ RECORD OF WELL Well No. _____
 Drilled on *G. H. Mearns* Farm of *300* Acres, situate in _____
Center Township *Edinburg* County *Allegheny* Lease No. *521*
 Shipping Point _____ Foreman _____

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 *Walter Fratt* Contractor *W. C. Kane Drilling*
 Address *Weston, Pa.* Address *Pittsburg Pa.*

ROCK FORMATION	TOP	BOTTOM	REMARKS	PRESSURE AND VC
Conductor	16		ELEVATION 1130'	1/2 Minute
Mapleton Coal				1 " 95
Pittsburgh Coal				2 " 135
Little Dunkard	325	375		3 " 150
Big Dunkard	537	540		4 " 165
Gas Sand	850	930	show gas at 900	5 " 175
1st Salt Sand	965	1055	could not test	10 "
2nd Salt Sand	1115	1275	show gas at 1397. note	15 "
Maxton Sand	1330	1445	Gas at 1509-1514	30 "
Little Lime			8/10 Mercury 2'	1 Hour
Pencil Cave				Rock 225
Big Lime				Size of Tubing 2'
Big Injun				Casing
Gantz Sand				Vol. by Water
50 Foot Sand				" " Mercury 8/10
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 G. H. Mearns</i>

Surge water 16 days with
spring at Baker

Total Depth 1536 Feet at \$ _____ per Foot \$ _____

Carnegie Nat Gas used 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" 185			145		145		none				185		Kind 6 5/8 x 3"
8 1/4 859			793		none		793				60.		Size Anchor
6 5/8 1865			1536				1536				329		Sot at 1/29
2" 1548			1536				1536				18		Office of Oil and Gas

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Office of Oil and Gas

By _____
With NOV 01 2013

Casing Cemented in Well _____ by _____ Company _____

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
Address 109 Covington Place
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

RECEIVED
Office of Oil and Gas

Subscribed and sworn before me this

31

day of

OCTOBER

2013

Notary Public

My Commission Expires:

6/27/2018

NOV 01 2013

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.

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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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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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
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)



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

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___ NoX

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.

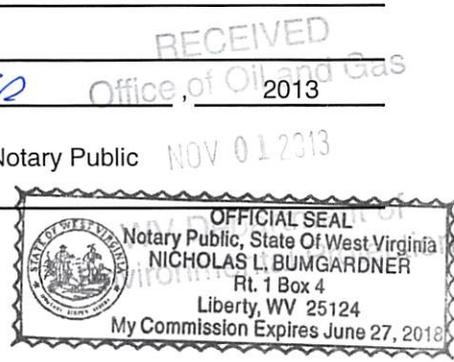
Company Official Signature *Victoria Roark*

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

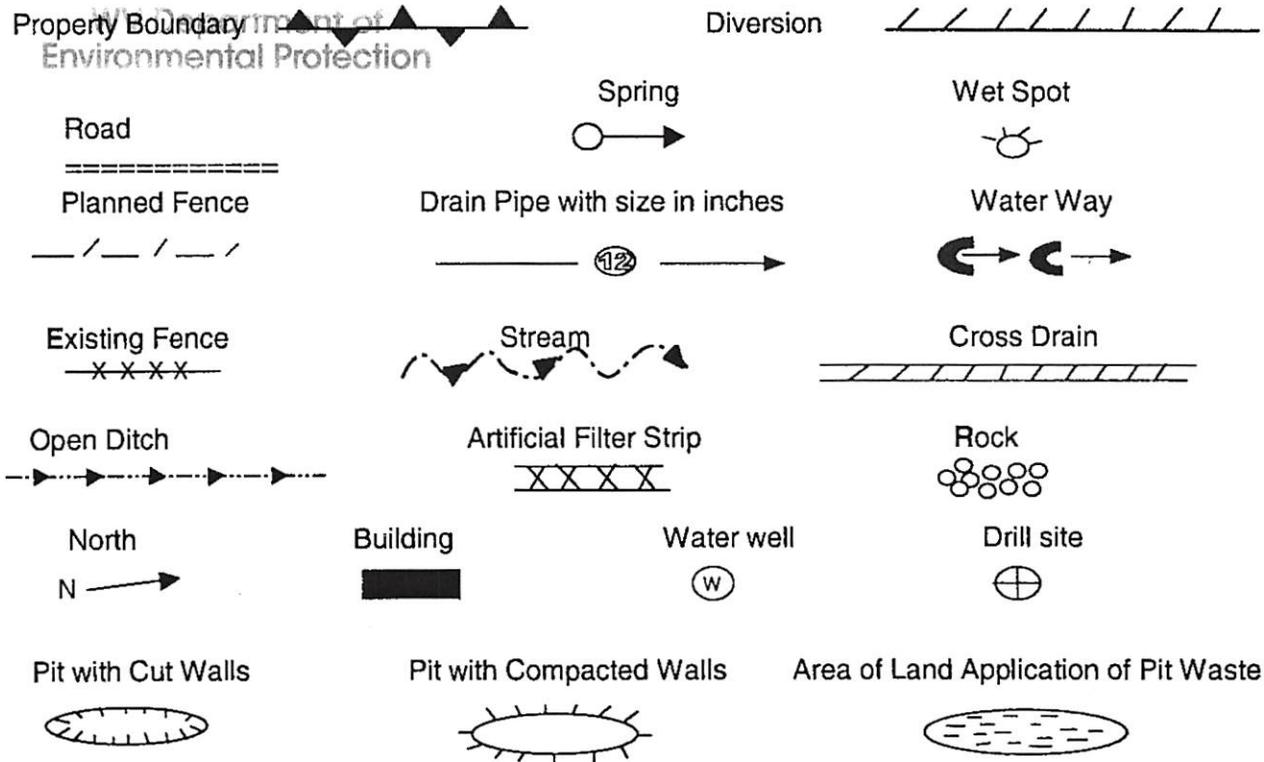
Subscribed and sworn before me this 31 day of OCTOBER, 2013

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: O. & G. Inspector Date: 12-4-13
 Field Reviewed? X Yes No

Topo Quad: Tanner 7.5'

Scale: 1" = 2000'

County: Gilmer

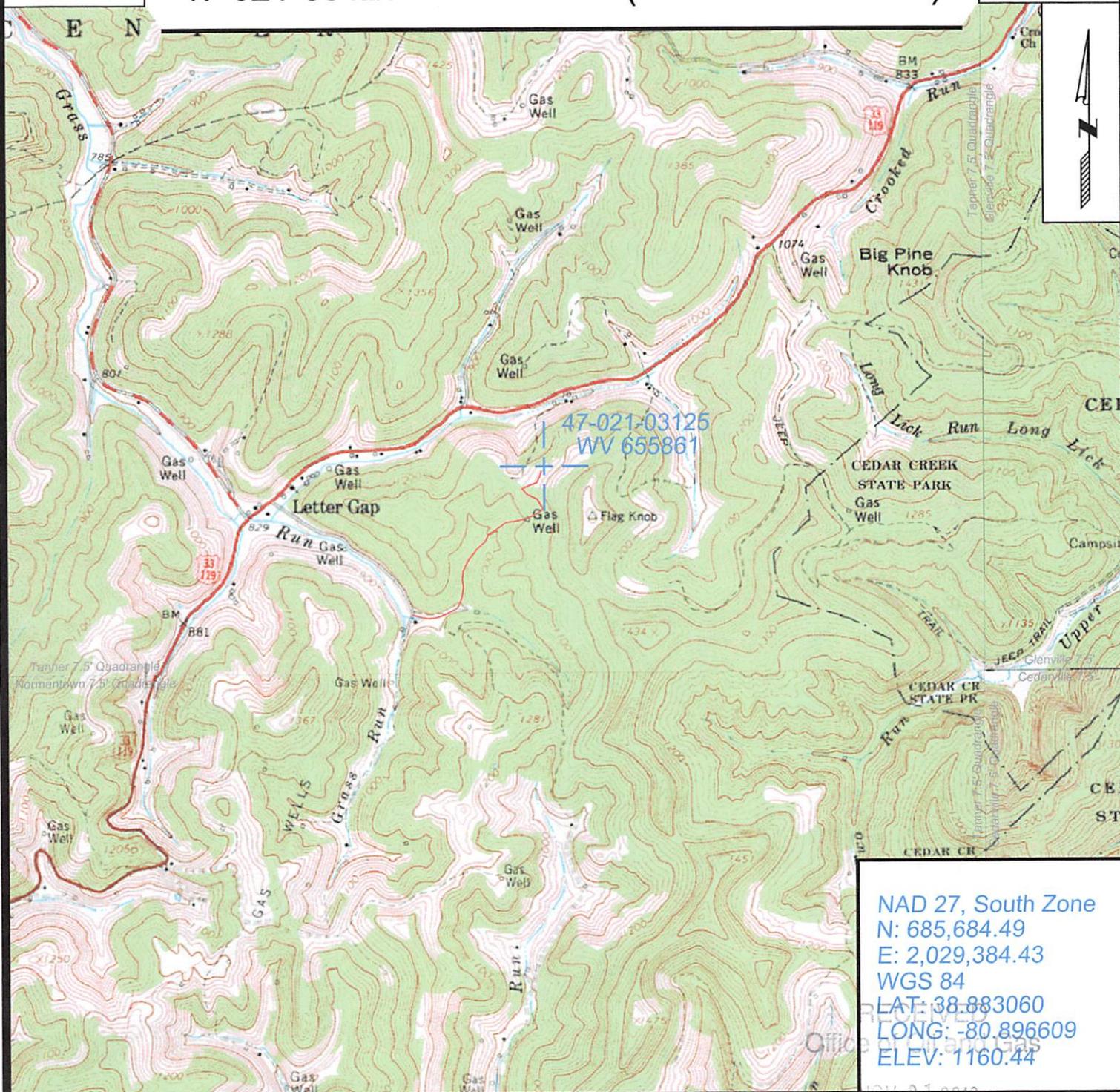
Date: September 30, 2013

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
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PREPARED FOR:

EQT Production Company
 Enviro P.O. Box 280 Protection
 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:

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.

[Signature]
Signature

PS # 2180
Title

10/3/13
Date

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NOV 01 2013
NOV 01 2013

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