



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

September 27, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2101962, 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 157921 (MARSHALL #1-W153)
Farm Name: MARKS, WILLARD & REBECCA

API Well Number: 47-2101962

Permit Type: Plugging

Date Issued: 09/27/2013

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.

2101962 P

Form WW-4 (B)
Permit Copy
(Rev 2/01)

Date: September 10, 2013
Operator's Well
Well No. WV 157921(Marshall#1-W153)
API Well No.: 47 021 - 01962

Check # 16378
\$ 400.00

**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 Liquid Injection Waste Disposal:
If Gas, Production Or Underground storage Deep Shallow

5) Elevation: 1038' Watershed: Little Kanawha River
Location: Glennville 03 County: Gilmer 21 Quadrangle: Gilmer 7.5' 365
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 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.

OK [Signature]

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 _____

Date _____

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Office of Oil & Gas

SEP 12 2013

WV Department of
Environmental Protection
09/27/2013

Plugging Prognosis – Madison District
Marshall 1 W 153 (157921)
API # 47-021-01962
Gilmer Co,
Grantsville, Quad

Prepared by Doug Fry 8/30/2013

Flow 928'

Current Status;

- 13" @ 22'
- 8 1/4" @ 296'
- 4 1/2" @ 2,090' CMT w/ 50 sks
- 2" tubing @ 2160'
- T.D. 2,166'

| | | |
|--|----------------------|---------------------------------|
| FW @ None Reported | Coal @ None reported | Salt Sand estimated depth 1665' |
| Gas Shows @ 2076'-2156' Injun, 1450'-1510' | | 1400'-1415' Sand |
| Oil Shows @ 1918' – 1930' Blue Monday | | |
| Completion; Open hole Frac 2076' – 2151' | | |

- 1) Notify State Inspector **Bryan Harris 304 553 6087** 24 hrs prior to commencing operations.
- 2) TOO H w/ 2" tubing and check condition.
- 3) TIH w/ 2" tubing, Tallying pipe on the way in @ 2150', set 350' C1A cement plug @ 2150' to 1800'. (Injun show, 4.5" csg pt, Blue Monday oil Show).
- 4) TOO H w/ tubing @ 1,722', Gel Hole @ 1800' to 1665'.
- 5) TOO H w/ 2" tubing, Free point 4 1/2" csg, Cut 4 1/2" csg @ free point, TOO H w/ 4 1/2" "csg unless casing is needed to stay in the hole to stabilize while setting any bottom hole plugs and then pull 4 1/2" csg.
- 6) Set 100' C1A cement plug 50' In/Out of cut. Perf all, Coal, Gas, Oil & FW shows below 4 1/2" cut do not omit any plugs shown below.
- 7) TIH w/ tubing @ 1665', Set 100' C1A Cement Plug @ 1665' to 1555'.
- 8) TOO H w/ tubing @ 1555', Gel Hole @ 1555' to 1450'.
- 9) TOO H w/ tubing @ 1450', set 150' C1A cement plug @ 1450' to 1300'. (2 Sand gas Shows)
- 10) TOO H w/ tubing @ 1300', Gel Hole @ 1300' to 350'.
- 11) TOO H w/ tubing @ 350', set 100' C1A cement plug @ 350' to 250'. (8 5/8" csg st).
- 12) TOO H w/ tubing @ 250', Gel Hole @ 250' to 150'.
- 13) TOO H w/ tubing @ 150', set 150' Cement Plug to Surface.
- 14) Top off as needed.
- 15) Set Monument to WV – DEP Specifications
- 20) Reclaim Location & Roads to WV-DEP Specifications.

OK
J W M

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FD-60



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle Burnsville
Permit No. Gil-1962

WELL RECORD

Oil or Gas Well Gas (IND)

Company Franklin Adkins
 Address 35 Valley View Dr., Vienna, W. Va. 26101
 Farm R. M. Marshall Heirs Acres 80a.
 Location (waters) Kanawha River
 Well No. 1 Elev. 928'
 District Olenville County Gilmer
 The surface of tract is owned in fee by _____
 Address _____
 Mineral rights are owned by R. M. Marshall Heirs
 Address Grantsville, W. Va.
 Drilling commenced March 12, 1969
 Drilling completed April 25, 1969
 Date Shot From _____ To _____
 With _____
 Open Flow 10ths Water in _____ Inch
10ths Merc. in _____ Inch
 Volume Natural 40/10ths water in 2" _____ Cu. Ft.
 Rock Pressure Nat. 640 _____ lbs. 48 _____ hrs.
 Oil Show _____ bbls. 1st 24 hrs.
 WELL ACIDIZED (DETAILS) _____
 WELL FRACTURED (DETAILS) Fractured open hole from 2076'-2151' with 1242 bbls. of water, 1000 gal acid, 60,000 lbs. of 20/40 mesh sand, 175 lbs of J-66, 30 gal. of Fre-Flo., 20 gal. of K-18.
 RESULT AFTER TREATMENT (Initial open flow or bbls.) 12 lbs. spring test in 2" tubing, show of oil.
 ROCK PRESSURE AFTER TREATMENT 700 _____ HOURS 48 hrs. 620,000
 Fresh Water _____ Feet _____ Salt Water _____ Feet _____
 Producing Sand _____ Depth _____

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|--------------|----------------|
| Size | | | Kind of Packer |
| 16 | | | |
| 13 | 22' | 22' | Size of |
| 10 | 296' | 296' | |
| 8 1/4 | | | Depth set |
| 6 3/4 | | | |
| 5 3/16 | | 2090' | Perf. top |
| 4 1/2 | | | Perf. bottom |
| 3 | | 2160' | Perf. top |
| 2 | | | Perf. bottom |
| Liners Used | | | |

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth | Remarks |
|-----------|-------|--------------|-----|--------|-------------------|-------|---------|
| Surface | | | 0 | 10 | | | |
| Red Rock | | | 10 | 30 | | | |
| Sand | | | 30 | 45 | | | |
| Slate | | | 45 | 100 | | | |
| Sand | | | 100 | 112 | | | |
| Slate | | | 112 | 130 | | | |
| Sand | | | 130 | 205 | | | |
| Slate | | | 205 | 212 | | | |
| Sand | | | 212 | 225 | | | |
| Slate | | | 225 | 240 | | | |
| Sand | | | 240 | 312 | | | |
| Red Rock | | | 312 | 360 | | | |
| Sand | | | 360 | 375 | | | |
| Slate | | | 375 | 390 | | | |
| Red Rock | | | 390 | 438 | | | |
| Sand | | | 438 | 540 | | | |
| Slate | | | 540 | 570 | | | |
| Red Rock | | | 570 | 605 | | | |
| Slate | | | 605 | 700 | | | |
| Sand | | | 700 | 732 | | | |
| Slate | | | 732 | 750 | | | |
| Sand | | | 750 | 835 | | | |
| Slate | | | 835 | 850 | | | |
| Lime | | | 850 | 900 | | | |
| Slate | | | 900 | 920 | | | |
| Sand | | | 920 | 960 | | | |
| Slate | | | 960 | 980 | | | |
| Sand | | | 980 | 1110 | | | |

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MAY 1969
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West Virginia
Dept. of Mines

(over)

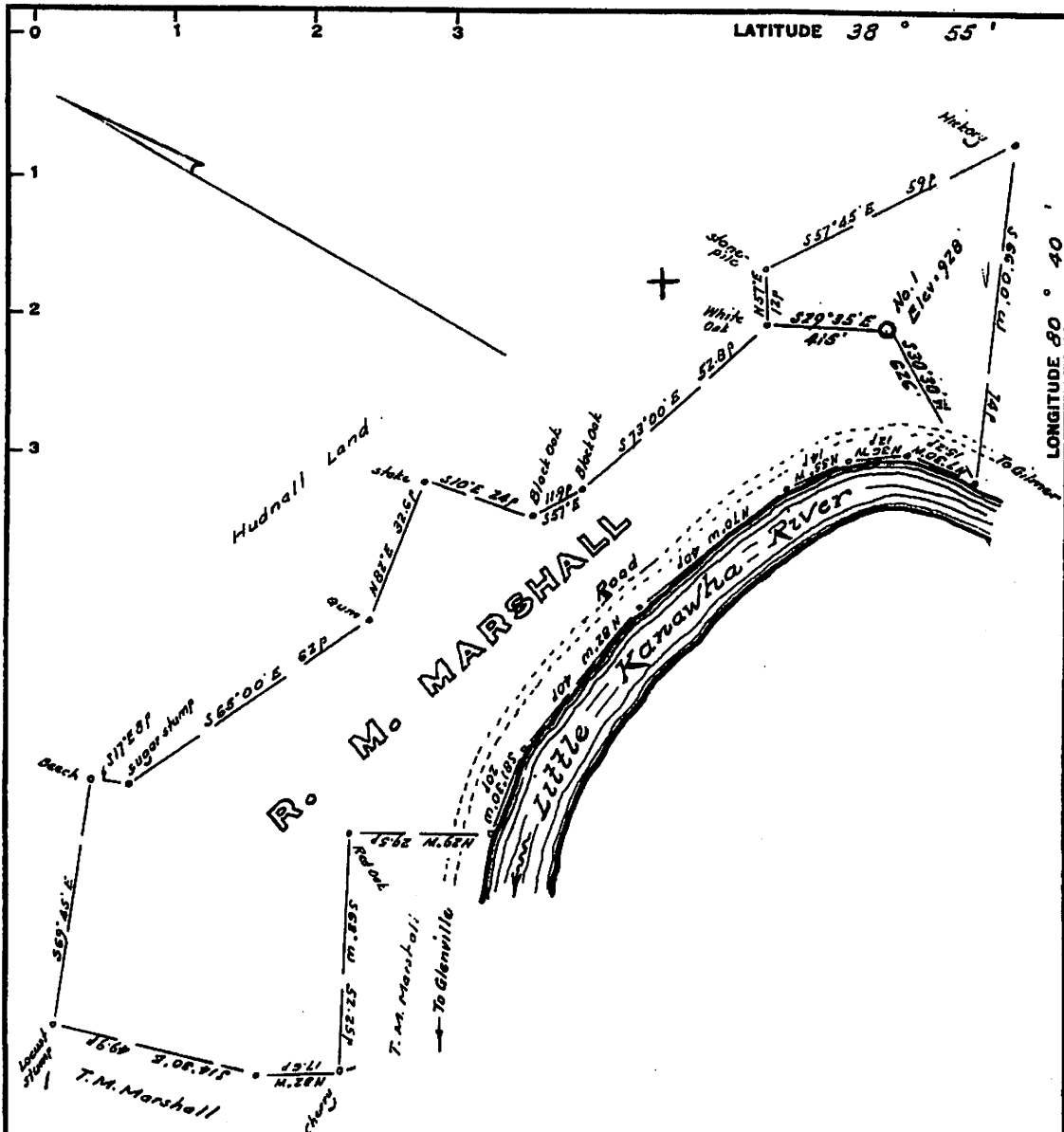
09/27/2013

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|-------------------|-------|--------------|------|--------|-------------------|-------------|---------|
| Sl & Sh | | | 1110 | 1230 | | | |
| Sand | | | 1230 | 1290 | | | |
| Sl & Sh | | | 1290 | 1400 | | | |
| Sand | | | 1400 | 1415 | Gas | 1404-13 | Show |
| Slate | | | 1415 | 1450 | | | |
| Sand | | | 1450 | 1510 | Gas | 1463-72 | Show |
| Sl & Sh | | | 1510 | 1570 | | | |
| Sand | | | 1570 | 1700 | | | |
| Slate | | | 1700 | 1720 | | | |
| Sand (Marton) | | | 1720 | 1804 | | | |
| Lime | | | 1804 | 1830 | | | |
| Sand | | | 1830 | 1855 | | | |
| Red Rock | | | 1855 | 1870 | | | |
| Slate | | | 1870 | 1880 | | | |
| Little Lime | | | 1880 | 1918 | | | |
| Sand(Blue Monday) | | | 1918 | 1930 | Oil | 2017-26 | Show |
| Slate 1930 | | | 1930 | 1950 | | | |
| Big Lime | | | 1950 | 2076 | | | |
| Injun Sand | | | 2076 | 2156 | Gas&Oil | 2076-2156 | 267,000 |
| Squaw Sand | | | 2156 | 2166 | | | |
| Total Depth | | | 2166 | | | | |

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 WV Department of
 Environmental Protection

Date 22 Aug 2013, 10:27
 APPROVED Franklin Collins, Owner
 By _____ (Title)

100



29

Minimum Error of Closure 1' in 300'

Source of Elevation B.M. at bridge at mouth of Sliding Run = 750'

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

Signed: W. H. [Signature]
 Squares: N RECEIVED W
 OIL AND GAS

Company Franklin Atkins
 Address Glenville, West Va.
 Farm R. M. Marshall, Hrs.
 Tract _____ Acres 80 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 928
 Quadrangle Bucanville
 County Gilmer District Glenville
 Engineer W. H. [Signature]
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date Sept 21, 1968 Scale 1" = 300' = 195'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. Oil - 1962
 Environmental Protection

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

2101962P

WW-4-A
Revised 6/07

1) Date: September 10, 2013
2) Operator's Well Number
WV 157921(Marshall#1-W153)
3) API Well No.: 47 021 - 01962
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 Willard & Rebecca Marks ✓
Address 253 Starling Drive
Burnsville, WV 26335
(b) Name Central Energy Corporation ✓
Address C/O Waco Oil & Gas Co. Inc.
P.O. Box 297
Glennville, WV 26351
(c) Name _____
Address _____
6) Inspector Bryan Harris ✓
Address P.O. Box 157
Volga, WV 26238
Telephone 304-553-6087

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name Willard & Rebecca Marks ✓
Address 253 Starling Drive
Burnsville, WV 26335
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 10 day of SEPTEMBER, 2013
My Commission Expires: 6/27/2018 Notary Public

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 deprivacyofficer@wv.gov.

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

Sent To
 Willard & Rebecca Marks
 253 Starling Dr.
 Burnsville, WV 26335
 Plug 157931,157921

PS Form 3800, August 2006. See Reverse for Instructions

Willard & Rebecca Marks
253 Starling Dr.
Burnsville, WV 26335
Plug 157931,157921

EQT
C/O Vicki Roark
P.O. Box 280
Bridgeport, WV 26330

SENDER: COMPLETE THIS SECTION

1. Article Addressed to:
 Willard & Rebecca Marks
 253 Starling Dr.
 Burnsville, WV 26335
 Plug 157931,157921

2. Article Number (Transfer from service label)
 7012 1010 0001 8158 9682

3. Service Type
 Certified Mail
 Registered Mail
 Insured Mail
 Registered Mail
 Return Receipt for Merchandise

4. Restricted Delivery? (Extra Fee)
 Yes
 No

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

E. Received by (Printed Name)
 Agent
 Address
 Signature

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 B. Received by (Printed Name)
 C. Date of Delivery

PS Form 3811, February 2004
 Domestic Return Receipt
 102595-02-M-1510

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WV Department of
Environmental Protection
09/27/2013

RECEIVED
 SEP 18 2013
 OFFICE OF THE
 ATTORNEY GENERAL
 Section of

EQT
 C/O Yield Roark
 P.O. Box 280
 Bridgeport, WV 26330

| SENDER: COMPLETE THIS SECTION | | COMPLETE THIS SECTION ON DELIVERY | |
|--|--|--|---------------------|
| <ul style="list-style-type: none"> 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. | | A. Signature <input type="checkbox"/> Agent X <input type="checkbox"/> Addressee | |
| 1. Article Addressed to: | | B. Received by (Printed Name) | C. Date of Delivery |
| Central Energy Corporation C/O Waco Oil & Gas Co. Inc. P.O. Box 297 Glenville, WV 26351 Plug 161281, 161271, 157931, 157921 | | D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No | |
| | | 3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D. | |
| 2. Article Number (Transfer from service label) | | 4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes | |
| 7012 1010 0001 8158 9699 | | | |

PS Form 3811, February 2004 Domestic Return Receipt 10259-50-02-02-1540

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

Central Energy Corporation
 C/O Waco Oil & Gas Co. Inc.
 P.O. Box 297
 Glenville, WV 26351
 Plug 161281, 161271, 157931, 157921

City: _____
 State: _____
 ZIP: _____
 PS Form 3800, August 2009 See Reverse for Instructions



7012 1010 0001 8158 9699

Central Energy Corporation
 C/O Waco Oil & Gas Co. Inc.
 P.O. Box 297
 Glenville, WV 26351
 Plug 161281, 161271, 157931, 157921

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 041110259592

09/27 2013

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2101962P

FIRST-CLASS MAIL
\$02.92

neopost
09/10/2013

US POSTAGE



ZIP 26330
041110228892

Bryan Harris
P.O. Box 157
Volga, WV 26238
Plug 161281,161271,157931,157921



EQT
C/O Vicki Roark
P.O. Box 280
Bridgeport, WV 26330

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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: Little Kanawha River Quadrangle: Gilmer 7.5'

Elevation: 1038' County: Gilmer District: Glennville

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.

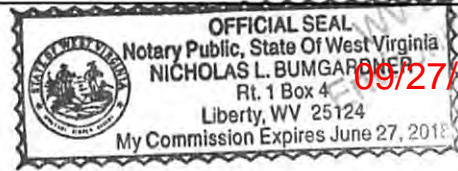
Company Official Signature *Victoria Roark*

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 10 day of SEPTEMBER, 2013

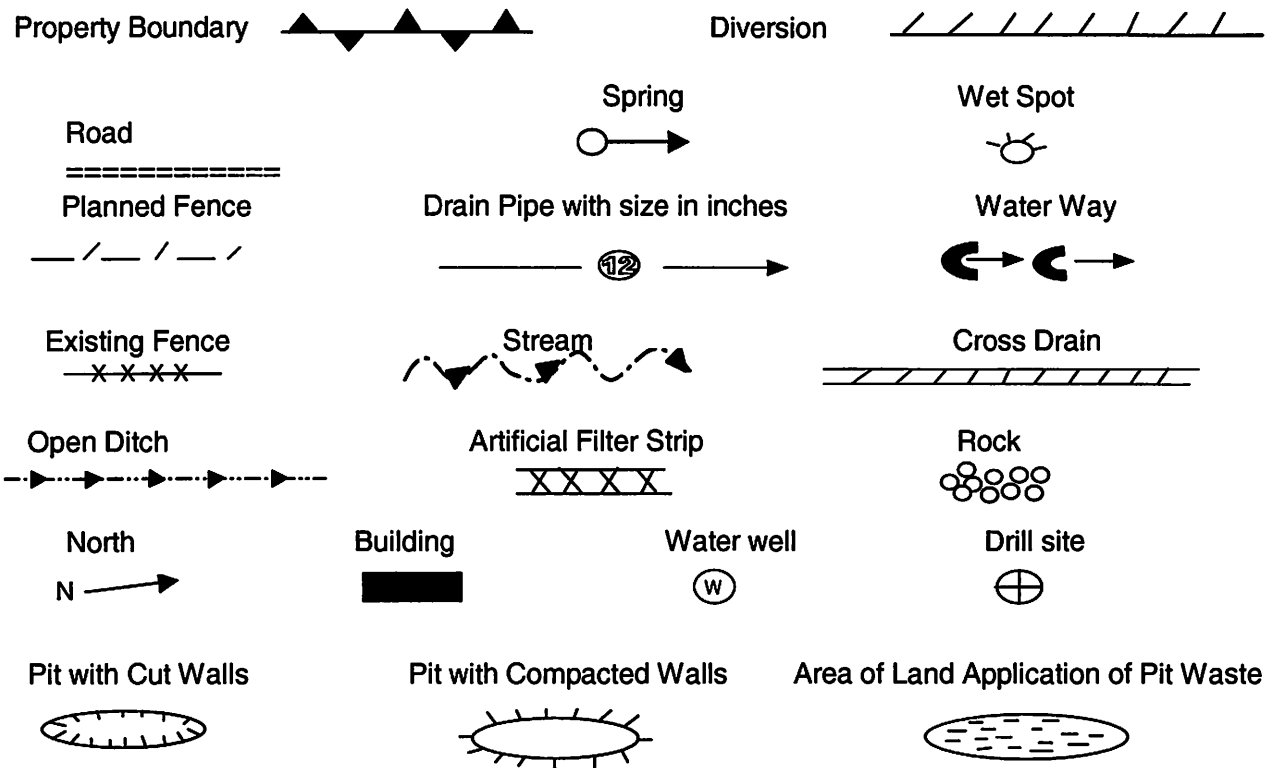
Notary Public
My Commission Expires 8/27/2018



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Office of Oil & Gas
SEP 12 2013
Department of Environmental Protection

OPERATOR'S WELL NO.:
WV 157921(Marshall#1-W153)

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: _____

Comments: _____

Title: _____ Date: _____

Field Reviewed? Yes No

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WV Department of
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09/27/2013

2101962 P

Topo Quad: Gilmer 7.5'

Scale: 1" = 2000'

County: Gilmer

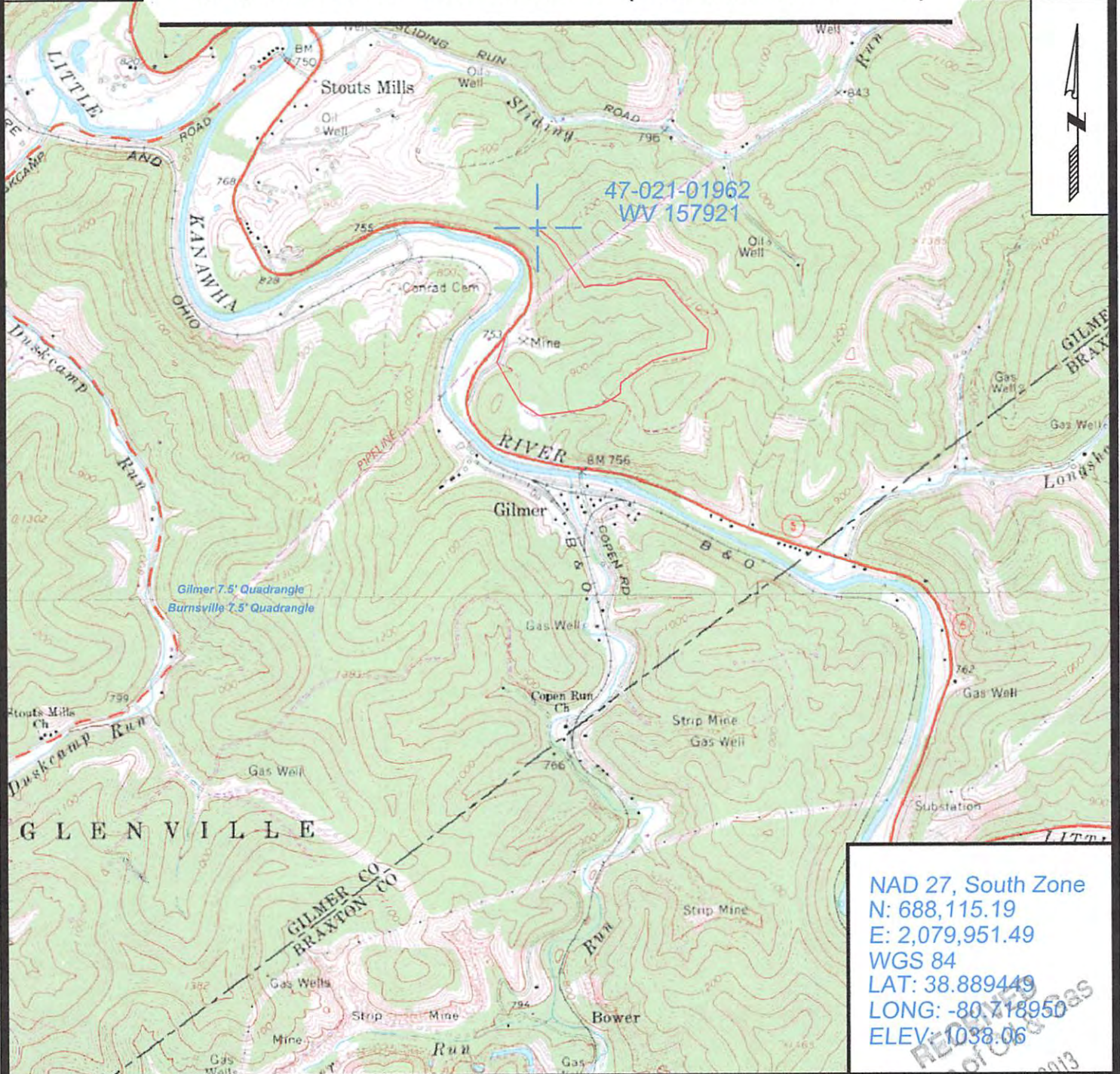
Date: August 22, 2013

District: Glennville

Project No: 25-19-00-07

47-021-01962 WV 157921 (Marshall #1-W153)

Topo



NAD 27, South Zone
 N: 688,115.19
 E: 2,079,951.49
 WGS 84
 LAT: 38.889449
 LONG: -80.718950
 ELEV: 1038.06



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:
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330

09/27/2013

Office of Coal & Gas
 SEP 12 2013
 WV Department of Environmental Protection

2101962P

WW-7
8-30-06



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

API: 47-021-01962 WELL NO.: WV 157921 (Marshall #1-W153)

FARM NAME: Marshall

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Gilmer DISTRICT: Glenville

QUADRANGLE: Gilmer 7.5'

SURFACE OWNER: Willard and Rebecca Marks

ROYALTY OWNER: Douglas Morris, et al.

UTM GPS NORTHING: 4304546

UTM GPS EASTING: 524374 GPS ELEVATION: 316 m (1038 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 *[Handwritten Signature]*
Date 8/22/13

PS # 2180
Title

RECEIVED
Office of Oil & Gas
SEP 12 2013
WV Department of
Environmental Protection
09/27/2013



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY

LEASE NAME AND WELL No. Marshall WV 157921 (47-021-01962)

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the Existing Well WV 157921.

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 Creek, WV 25003
phone: 304-756-2949
fax: 304-756-2948

2101962P

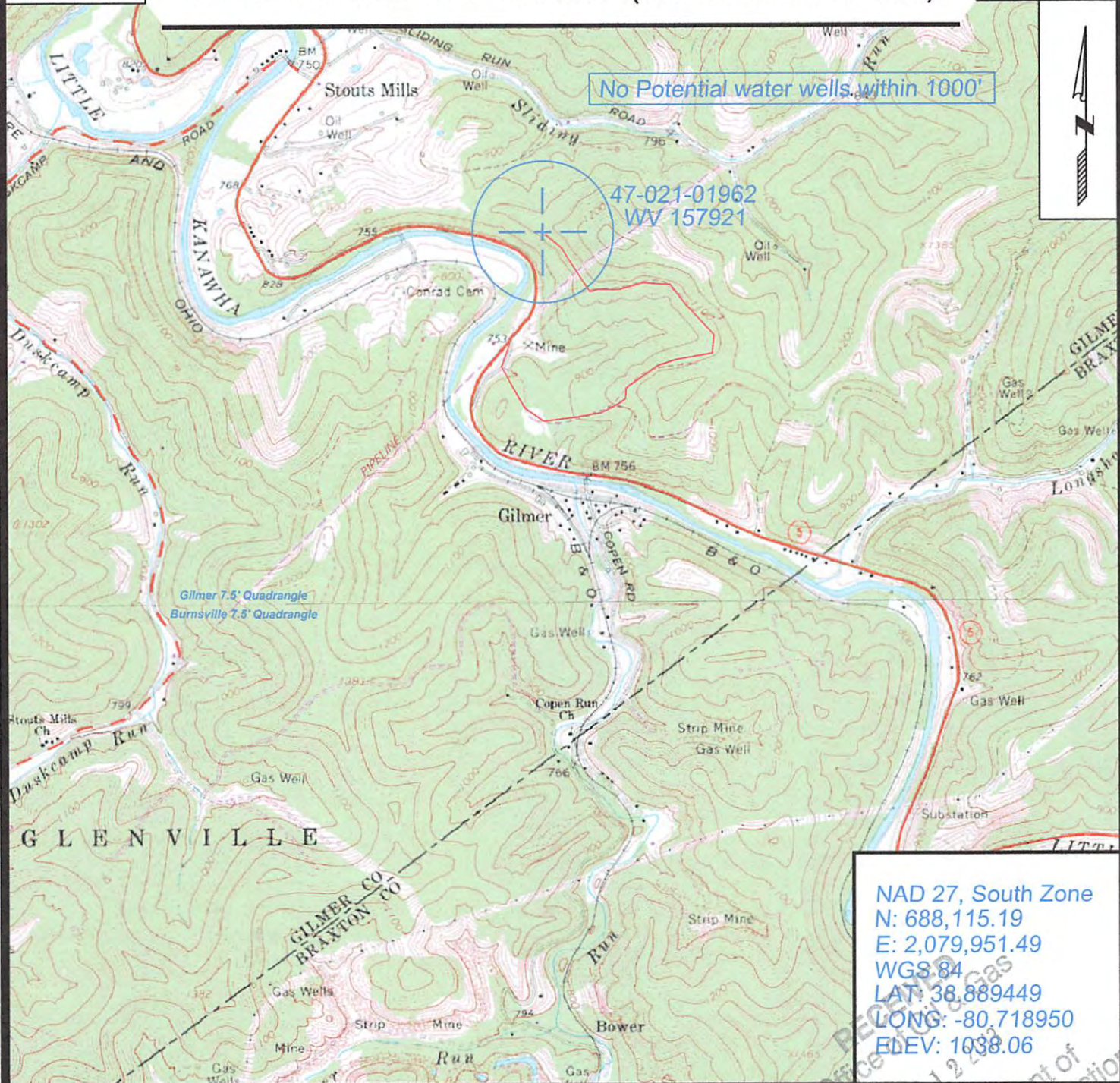
Topo Quad: Gilmer 7.5' Scale: 1" = 2000'

County: Gilmer Date: August 22, 2013

District: Glenville Project No: 25-19-00-07

Water

47-021-01962 WV 157921 (Marshall #1-W153)



NAD 27, South Zone
 N: 688,115.19
 E: 2,079,951.49
 WGS 84
 LAT: 38.889449
 LONG: -80.718950
 ELEV: 1038.06



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:
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330

09/27/2013