



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

March 17, 2014

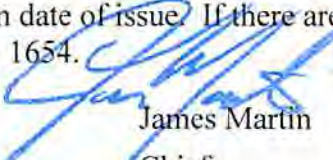
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2100617, 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 656251 (Fisher 1590) (1)
Farm Name: FISHER, G. C.
API Well Number: 47-2100617
Permit Type: Plugging
Date Issued: 03/17/2014

Promoting a healthy environment.

03/21/2014

~~2100671~~
2100617A

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.

03/21/2014

Date: February 7, 2014
Operator's Well _____
Well No. 656251 Fisher # 1590
API Well No.: 47 021 - 00617

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

CHK# 1729
\$100.00

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: 842 Watershed: Dry Run
Location: Glennville County: Gilmer Quadrangle: Glennville 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 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.

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 *Suzanne O'Hara* Date 2-18-14

Plugging Prognosis –Weston District

Fisher 1590 (656251)

API # 47-021-00617

Gilmer Co,
Glenville, Quad

Prepared by Doug Fry 6/28/2011

Current Status;

18" @ 38'

10" @ 129'

8 1/4" @ 913'

6 5/8" @ 1816'

4 1/2" @ 1960' cemented w/ 30 sks

T.D. Plugged back 1960'

Packers @ 6 5/8" by 8 1/4" @ 1816'

10" by 8 1/4" @ 913'

7" by 4.5" @ 1865'

FW @ 55' SW @ None reported Coal @ None reported

Gas Shows @ 1,730-1,743 Little Lime, Big Injun perfs @ 1910' – 1926' Oil Shows @

Maxton 1645'-1705'

Completion Fractured Big Injun, Perfed @ 1,910'-1,926'

- 1) Notify State Inspector Bryan Harris 304-553-6087, 24 hrs prior to commencing operations.
- 2) TIH w/ tubing @ 1,960', set 104' C1A cement plug @ 1,960' to 1,856'. (Big Injun Perfs).
- 3) TOO H w/ 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.
Set 100' C1A cement plug 50' In/Out of cut. Perf all SW, Coal, Gas, Oil & FW shows below cut.
- 3) TIH w/ tubing @ 1856', set 311' C1A cement plug @ 1856' to 1545'. (6 5/8" csg pt, Maxton Oil show, Little Lime show.)
- 4) TOO H w/ tubing Free Point 6 5/8 "csg, Cut 6 5/8" csg @ Freepoint , TOO H w/ 6 5/8 csg.
- 5) Set 100' C1A cement plug 50' IN/OUT of Cut. Perf all SW, Oil, Gas, Coal & FW shows below 6 5/8" cut and do not omit any plugs shown!
- 6) TIH w/ tubing @ 1,545', Gel Hole @ 1,545' to 1,360'.
- 7) TOO H w/ tubing @ 1360', set 100' C1A cement plug @ 1360' to 1260'. (Salt Sand).
- 8) TOO H w/ tubing @ 1,260', Gel Hole @ 1,260' to 963'.
- 9) TOO H w/ tubing @ 963', set 100' C1A cement plug @ 963' to 863'. (8 1/4" csg pt).
- 10) TOO H w/ tubing Free Point 8 1/4 "csg, Cut 8 1/4" csg @ Freepoint , TOO H w/ 8 1/4" csg.
- 11) Set 100' C1A cement plug 50' IN/OUT of Cut. Perf all SW, Oil, Gas, Coal & FW shows below 8 1/4" cut and do not omit any plugs shown!
- 12) TIH w/ tubing @ 863', Gel Hole @ 863' to 200'.
- 13) TOO H w/ tubing @ 200', set 121' C1A cement plug @ 200' to 79'. (10" csg pt).
- 14) TOO H w/ tubing Free Point 10 "csg, Cut 10" csg @ Freepoint , TOO H w/ 10" csg.
- 15) Set 100' C1A cement plug 50' IN/OUT of Cut. Perf all SW, Oil, Gas, Coal & FW shows below 10" cut and do not omit any plugs shown!
- 16) TIH w/ tubing @ 200', set 79' C1A cement plug @ 79' to Surface'. (FW show, 18" csg st).

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- 17) This will make a total of 200' surface C1A cement plug
- 18) Top off as needed.
- 19) Set Monument to WV – DEP Specifications
- 20) Reclaim Location & Roads to WV-DEP Specifications.

9

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Office of Oil and Gas
WV Dept. of Environmental Protection

03/21/2014

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

2100617A

WELL RECORD

Permit No. G11-617

Oil or Gas Well Gas
(Kind)

Company Carnegie Natural Gas Company
Address 1014 Friok Bldg., Pittsburgh, Pa.
Farm G. C. Fisher Acres 128
Location (waters) Dry Run
Well No. 1-1590 Elev. 842
District Glenville County Gilmer
The surface of tract is owned in fee by Homer Langford Address Glenville, W. Va.
Mineral rights are owned by G. C. Fisher - 1/2 and Hazel Fisher - 1/2 Address Glenville, W. Va.
Drilling commenced October 28th 1943
Drilling completed December 4th 1943
Date shot 12/15/43 Depth of shot 1898-1922
Open Flow 1/10ths Water in Inch
 1/10ths Merc. in Inch
Volume 47,150 Cu. Ft.
Rock Pressure 482 lbs. 72 hrs.
Oil bbls., 1st 24 hrs.
Fresh water 55 feet
Salt water feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
18	38	38	Bottom Hole
10	129	129	Size of $6\frac{1}{2}'' \times 8\frac{1}{2}''$
8	913	913	
6	1816	1816	Depth set 1816
5 8/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED. SIZE No. Ft. Date
COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES
FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth Found	Remarks
Gravel			0	38			
Lime	Gray	Hard	38	85	Water	55	Fresh
Slate	Gray	Soft	85	170			
Red Rock	Red	Soft	170	180			
Slate	Light	Soft	180	200			
Red Rock	Red	Soft	200	250			
Slate	Light	Soft	250	265			
Red Rock	Red	Soft	265	360			
Slate	Light	Soft	360	470			
Red Rock	Red	Soft	470	515			
Lime	Gray	Hard	515	540			
Slate	Light	Soft	540	575			
Sand	Light	Hard	575	610			
Slate	Light	Soft	610	680			
Sand	Light	Hard	680	700			
Slate	Light	Soft	700	740			
Sand	Dark	Hard	740	750			
Slate shls.	Dark	Soft	750	892			
Sand	Gray	Hard	892	955			Little Dunkard
Slate	Black	Soft	955	975			
Sand	Light	Hard	975	1075			Big Dunkard
Slate	Dark	Soft	1075	1360			
Sand	Light	Hard	1360	1390			1st Salt Sand
Slate Shls.	Dark	Med.	1390	1495			
Sand	Light	Hard	1495	1535			2nd Salt Sand
Slate	Light	Soft	1535	1645			
Sand	Light	Hard	1645	1705	Oil show	1650-65'	Maxton
Slate	Dark	Soft	1705	1730			
Lime	Dark	Hard	1730	1743			Little Lime
Slate	Dark	Soft	1743	1748			
Sand	Gray	Hard	1748	1762	Gas show	1750'	Blue Monday
Slate	Dark	Soft	1762	1792			
Lime	Light	Hard	1792	1850			Big Lime
Sand	Dark	Hard	1850	1935	Gas	1898-1904'	Big Injun Sand
Slate	Light	Soft	1935	1958	Gas	1918-22'	
Slate Shls.	Light	Med.	1958				
						14,900 cu ft. Blew down to 8,332 cu ft.	
			TOTAL DEPTH	2174			



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(Over)

2100617 P



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage
Oil or Gas Well GAS

39-00
6-2

Quadrangle GLENNVILLE N. E. 1/4
Permit No. GIL - 617 - FRAC

WELL RECORD

Company CARNESIE NATURAL GAS COMPANY
Address 3904 Main Street, Murrell, Pennsylvania 15120
Farm G. C. Fisher Acres 128
Location (waters) Dry Run
Well No. 1-1590 Elev. 8h2'
District Glennville County Gilmer
The surface of tract is owned in fee by Homer Langford
Address Glennville, W. Va.
Mineral rights are owned by Basel Fisher
Address Glennville, W. Va.
Drilling commenced G.O. 7/17/70
Drilling completed G.O. 9/22/70
Date Shot From _____ To _____
Well _____
Open Flow /10hrs Water in _____ Inch
/10hrs Merc. in _____ Inch
Volume 9,125 Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls. 1st 24 hrs.
WELL ACIDIZED (DETAILS) _____
WELL FRACTURED (DETAILS) 9/9/70 by Dowell - 28,000# Sand, 6h7 Bbls. water, 1500 gal. 15% Acid.

Casing and Tubing	Used in Drilling	Left in Well	Packer
15 1/2"			
16"			Kind of Packer _____
13"	38'	38'	Anchor
10"	129'	129'	Size of 7" x 1 1/2"
8 1/4"	913'	905'	Depth of 1865'
6 1/4"	1816'	1816'	Bot. Hole
5 3/16"			
4 1/4"		1960'	
3"			Perf. top 1910'
2"			Perf. bottom 1926'
			Perf. top _____
			Perf. bottom _____

Attach copy of cementing record.
CASING CEMENTED 1 1/2" SIZE 129# No. Ft. 8/13/70 Date
Amount of cement used (bags) 30
Name of Service Co. Garaton Service, Inc.
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES
_____ FEET _____ INCHES
_____ FEET _____ INCHES

RESULT AFTER TREATMENT (Initial open flow or bbls.) 300,000 cu. ft.
ROCK PRESSURE AFTER TREATMENT 470# HOURS 17
lb Water 55 Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Depth 1910 - 1926

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil, Slate & Shells			Surface	892			No Coal
Little Dunkard			892	955			
Big Dunkard			975	1075			
1st Salt Sand			1360	1390			
2nd Salt Sand			1495	1535			
Maxton Sand			1645	1705	Show oil	1650-65'	
Little Lime			1730	1743	Show gas	1750'	
Blue Monday			1748	1762			
Pencil Cave			1762	1792			
Big Lime			1792	1850			
Big Injun			1850	1935	Gas	1898-1904'	
Total Depth			2174		Gas	1918-22'	
Drugged Back Total Depth			1960				

Cement cleared out to 1937'

RECEIVED
OCT 7 1970

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WW-4-A
Revised 6/07

1) Date: February 7, 2014
2) Operator's Well Number
656251 Fisher # 1590
3) API Well No.: 47 021 - 00617
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

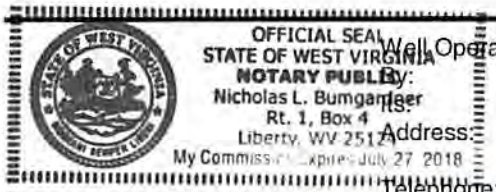
4) Surface Owner(s) to be served:
(a) Name David K. Murphy et al ✓
Address C/O Richard Murphy
3569 Deer Trace Ave
Canton, Ohio 44780-5814
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Bryan Harris ✓
Address P.O. Box 157
Volga, WV 26238
Telephone 304-553-6087

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name Eastern Associated Coal Corp. ✓
C/O Patriot Coal Corp.
Address P.O. Box 1233
Charleston, WV 25324
Name _____
Address _____
(c) Coal Lessee with Declaration
Name _____
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:
Address:
Telephone:

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

Subscribed and sworn before me this 10 day of FEBRUARY, 2014
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 depprivacyofficer@wv.gov.

Received
FEB 14 2014
03/21/2014
Office of Oil and Gas
WV Dept. of Environmental Protection

EQT
 P.O. Box 280
 Bridgeport, WV 26330

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

Sent To: David K. Murphy et al
 C/O Richard Murphy
 3569 Deer Trace Ave
 Canton, Ohio 44780-5814

656251 Fisher # 1590 Plugging

Office of Oil and Gas
 WV Dept. of Environmental Protection

Received
 FEB 14 2014

- SENDER: COMPLETE**
- Complete items 1, 2, 3, and 4 if Restricted
 - Print your name and address so that we can return the card to you
 - Attach this card to the front of the envelope
1. Article Addressed to:

David K. Murphy et al
 C/O Ric
 3569 De
 Canton, Ohio 44780-5814

656251 Fisher # 1590 Plugging

2. Article Number
 (Transfer from service label)
 PS Form 3811, July 2013

7013 2630 0002 2366 5774
 Domestic Return Receipt

3. Service Type
- Certified Mail™
 - Registered
 - Insured Mail
 - Restricted Delivery? (Extra Fee) Yes
4. Return Receipt for Merchandise
- Priority Mail Express™
 - Return Receipt for Merchandise
 - Collect on Delivery

DELIVERY

Agent Addressed

C. Date of Delivery

Item 1? Yes No

slow: Yes No

03/21/2014

2100617P



P.O. Box 280
Bridgeport, WV 26330

CERTIFIED MAIL™



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7013 2630 0002 2366 5767

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OFFICIAL USE

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

To: Eastern Associated Coal Corp.
C/O Patriot Coal Corp.
P.O. Box 1233
Charleston, WV 25324
656251 Fisher # 1590

Postmark Here

SENDER: COMPLETE THIS

- Complete items 1, 2, and 3
- item 4 if Restricted Delivery
- Print your name and address so that we can return the card to you
- Attach this card to the back or on the front if space per

1. Article Addressed to:

Eastern Associated
C/O Patriot Coal Corp.
P.O. Box 1233
Charleston, WV

656251 Fisher # 1590

2. Article Number

(Transfer from service label)

PS Form 3811, July 2013

7013 2630 0002 2366 5767

Domestic Return Receipt

3. Service Type
- Certified Mail®
 - Registered
 - Insured Mail
 - Restricted Delivery? (Extra Fee)
 - Priority Mail Express™
 - Return Receipt for Merchandise
 - Collect on Delivery
 - Yes

4. Restricted Delivery? (Extra Fee) Yes

Agent
 Addressee
Date of Delivery

Yes
 No

Received

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Office of Oil and Gas
WV Dept. of Environmental Protection

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ZIP 26330
041L10228892

03/21/2014

47190012

2) Operator's Well Number
656251 Fisher # 1590

3) API Well No.: 47 021 - 00617

**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: Dry Run Quadrangle: Glenville 7.5'

Elevation: 842 County: Gilmer District: Glenville

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? _____

Received

Will closed loop system be used? _____

Drill Cuttings disposal method? Leave in pit, landfill, remove offsite, etc. FEB 14 2014

If left in pit and plan to solidify what medium will be used? Cement, Lime, sawdust _____

Landfill or offsite name/permit number? _____

Office of Oil and Gas
WV Dept. of Environmental Protection

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 FEBRUARY, 2014

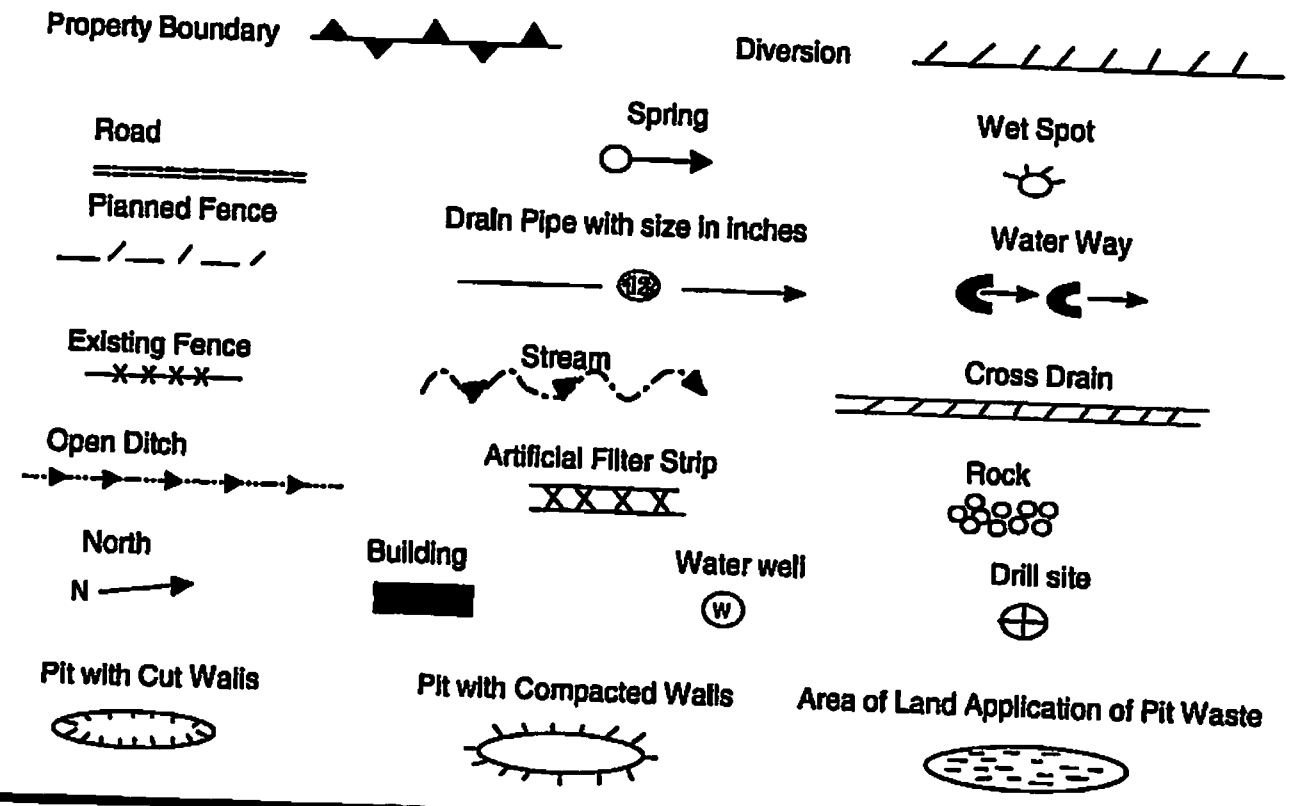
My Commission Expires 6/27/2018



03/21/2014

OPERATOR'S WELL NO.:
656251 Fisher # 1590

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: Supervisor

Comments: _____

Title: D. I. a Gas Inspector Date: 2-11-14
 Field Reviewed? Yes No

2100617P

Topo Quad: Glenville

Scale: 1" = 2000'

County: Gilmer

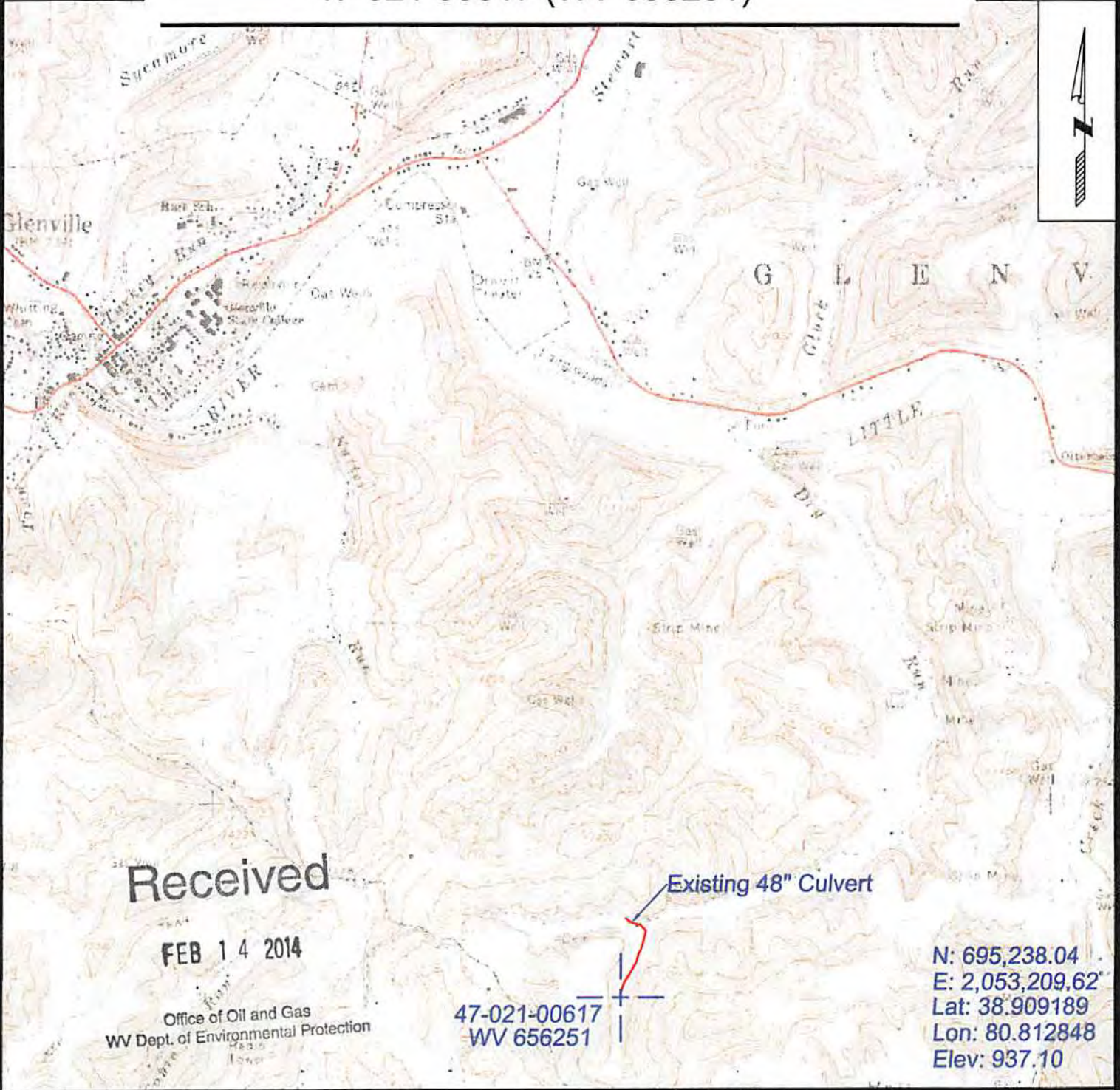
Date: June 21, 2011

District: Glenville

Project No: 25-19-00-07

47-021-00617 (WV 656251)

Topo



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Office of Oil and Gas
WV Dept. of Environmental Protection

47-021-00617
WV 656251

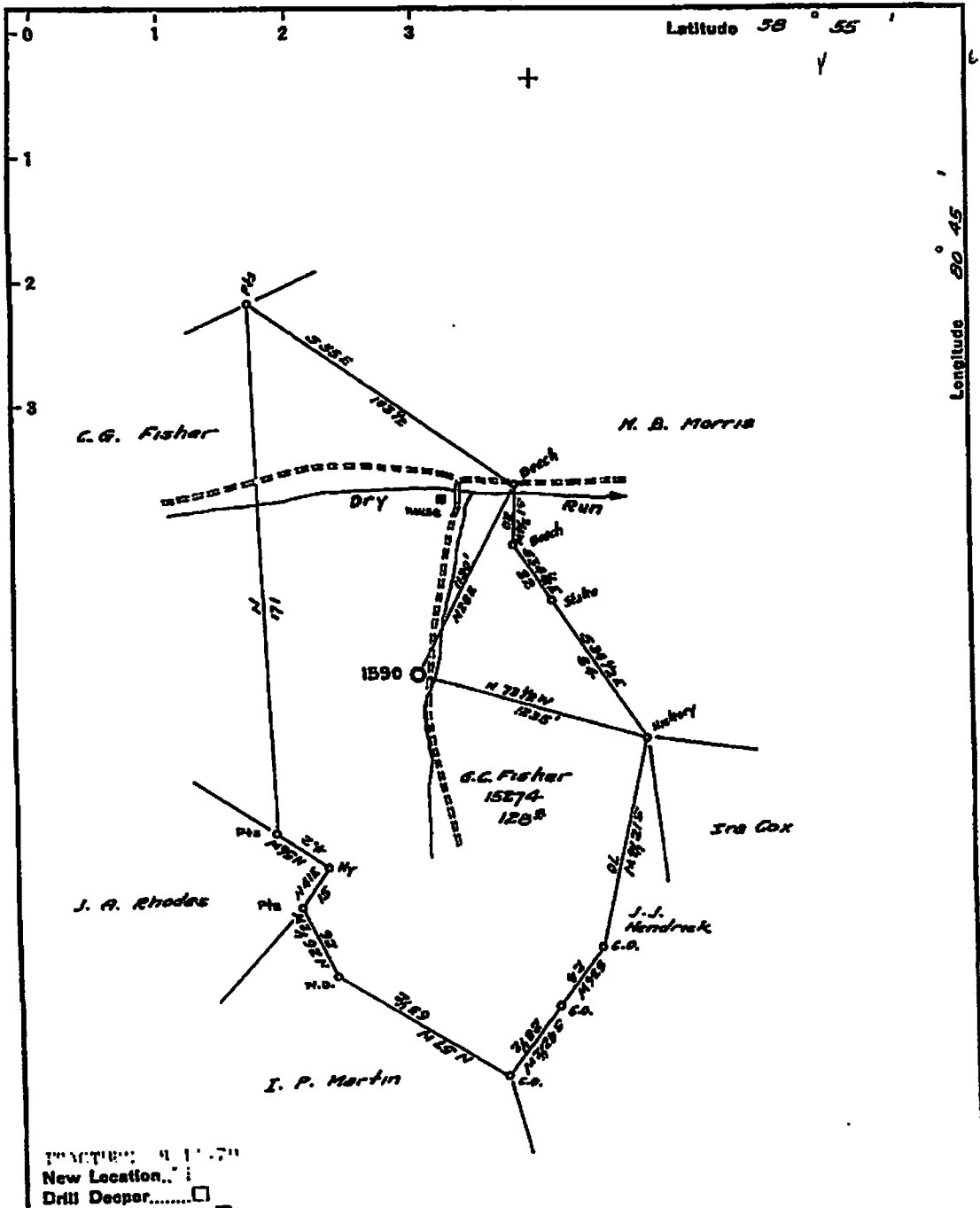
Existing 48" Culvert

N: 695,238.04
E: 2,053,209.62
Lat: 38.909189
Lon: 80.812848
Elev: 937.10



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
 1710 Pennsylvania Ave.
 Charleston, WV 25302
 03/21/2014



New Location
 Drill Deeper
 Abandonment

Company CARNegie NATURAL GAS
 Address SPRINGFIELD, PENNS.
 Farm G.C. FISHER
 Tract _____ Acres 128 Lease No. 15274-21
 Well (Farm) No. 1 Serial No. 1590
 Elevation (Spirit Level) 842
 Quadrangle GLENNVILLE, NE
 County SILVER District GLENNVILLE
 Engineer D.T. BRITTON
 Engineer's Registration No. _____
 File No. _____ Drawing No. _____
 Date 9-20-43 Scale 1" = 40 rods

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. Gil-617-3ac

+ 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.

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FEB 14 2014

WW-7
8-30-06



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

API: 47-021-00617 WELL NO.: WV 656251 (Fisher #1590)

FARM NAME: Fisher

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Gilmer DISTRICT: Glenville

QUADRANGLE: Glenville 7.5'

SURFACE OWNER: David K. Murphy

ROYALTY OWNER: G.C. Fisher et. al.

UTM GPS NORTHING: 4,306,716

UTM GPS EASTING: 516,227 GPS ELEVATION: 286 m (937 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 : Post Processed Differential
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

Ben R. Siefert
Signature
6/28/2011
Date

P.S. 2092 FEB 14 2014
Title

DT
ki Roark
x 280
ort, WV 26330

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US POSTAGE \$02.24⁰
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Bryan Harris ✓
P.O. Box 157
Volga, WV 26238

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FEB 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

02/21/2014

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Construction Consultants



Surveying West Virginia
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Damon L. Wilkewitz, PS
William Yetzer, LS
Licensed in CO and UT

POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EOT PRODUCTION COMPANY INC.
LEASE NAME AND WELL No. Fisher 1590 WV #656251 (47-021-00617)

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the Existing Well WV 656251.

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File: 25-07 WV 656251 potential water.doc.

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Office of Oil and Gas
WV Dept. of Environmental Protection

237 Birch River Road P.O. Box 438
Birch River, WV 26610
Ph: 1-800-482-8606 Fax: (304) 649-8608
E-mail: infobirch@alleghenysurveys.com

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123 State Street
Bridgeport, WV 26330
Ph: (304) 848-5035 Fax: (304) 848-5037
E-mail: infobridge@alleghenysurveys.com

03/21/2014

Topo Quad: Glenville Scale: 1" = 2000'

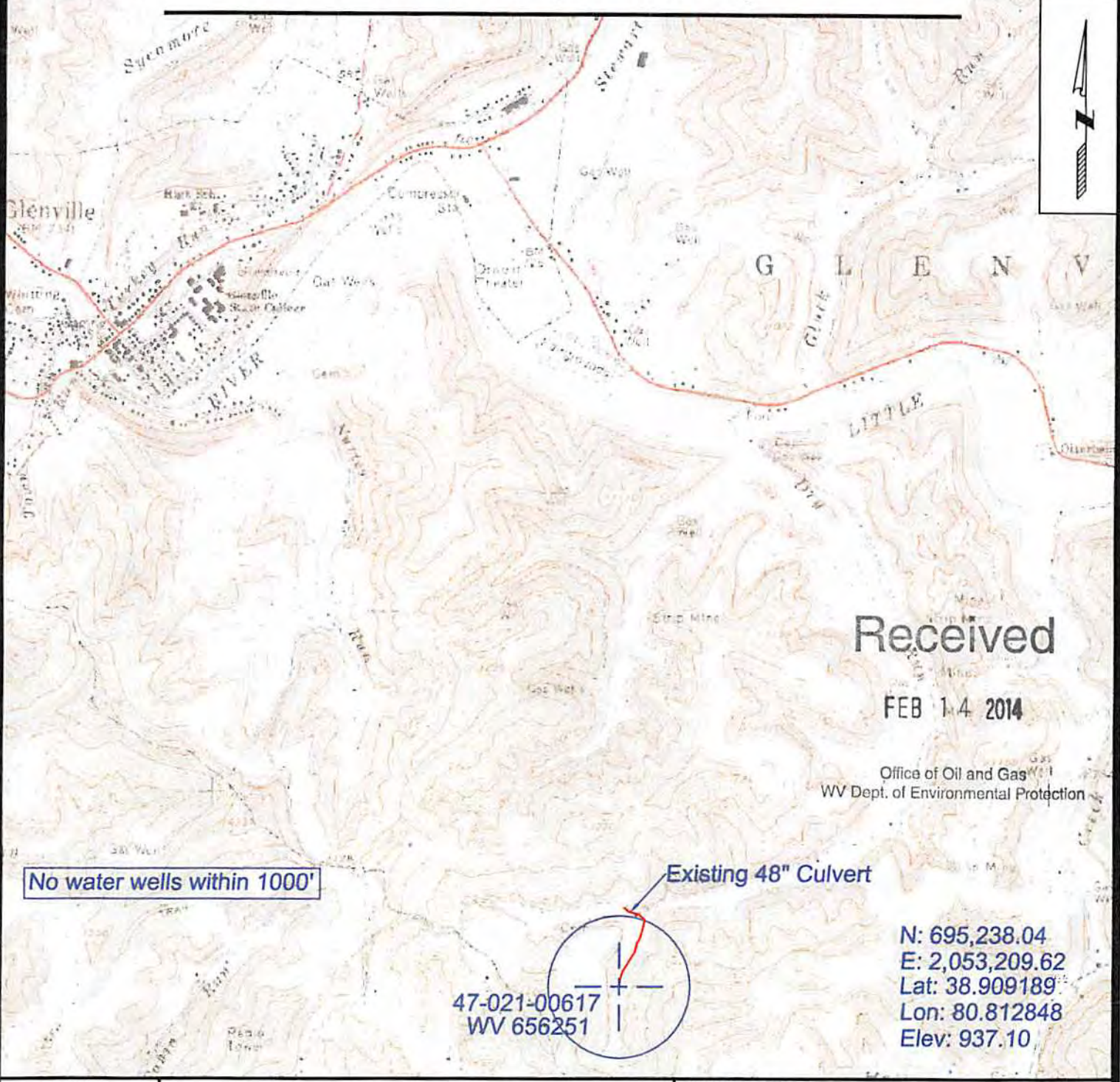
County: Gilmer Date: June 21, 2011

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

Water

47-021-00617 (WV 656251)

Topo



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Office of Oil and Gas
WV Dept. of Environmental Protection

No water wells within 1000'

Existing 48" Culvert

47-021-00617
WV 656251

N: 695,238.04
E: 2,053,209.62
Lat: 38.909189
Lon: 80.812848
Elev: 937.10



SURVEYING AND MAPPING SERVICES PERFORMED BY:
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1-800-482-8606
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BIRCH RIVER, WV 26610
PH: (304) 649-8606
FAX: (304) 649-8608

PREPARED FOR:

EQT Production Company

1710 Pennsylvania Ave.
Charleston, WV 25302

03/21/2014