



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

August 26, 2014

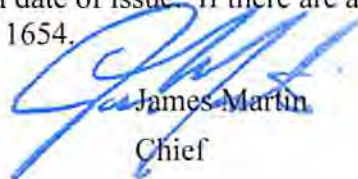
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2101915, 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: 1-W150
Farm Name: WHITING, A. E.
API Well Number: 47-2101915
Permit Type: Plugging
Date Issued: 08/26/2014

Promoting a healthy environment.

08/29/2014

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

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

Date: 7-8-14
Operator's Well
Well No. 161311 Whiting 1 W-150
API Well No.: 47 021 - 01915

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

✓ 17838
10000

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil Gas Liquid Injection Waste Disposal:
If Gas, Production X Or Underground storage Deep Shallow

5) Elevation: 765' Watershed: Little Kanawha River
Location: Glenville County: Gilmer Quadrangle: Gilmer 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.

RECEIVED
Office of Oil and Gas
JUL 08 2014
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.
Date _____

Work order approved by inspector _____

OK BRYAN HARRIS
JWAM

PLUGGING PROGNOSIS –Weston

Whiting, A.E. # 1 (161311)

Gilmer, Co., WV
 API # 47-021-01915
 District: Glenville
 Elevation: 783'

BY: Craig Duckworth
 DATE: 3/19/14

CURRENT STATUS:

10" csg @ 393'
 8 1/4" csg @ 832 (pulled)
 4 1/2" csg @ 2043' (210 sks cmt)

TD @ 2050'

Fresh Water @ None Reported
1st Salt Sand @ 835'
Gas Shows @ Big Injun @ 1963'
Oil Shows @ None reported
Stimulation: Fractured

Salt Water @ None reported
Coal @ None reported

1. Notify State Inspector, Bryan Harris 304-553-6087, 24 hrs. Prior to commencing operations.
2. TIH w/ tbg @ 2043'; Set 243' C1A Cement Plug @ 2043' to 1800' (Gas Show @ Big Injun @1963')
3. TOOH w/ tbg, Free Point 4 1/2", cut 4 1/2" @ free point, TOOH w/ 4 1/2" csg
4. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 4 1/2" cut.
Do not omit any plugs.
5. TIH w/ tbg @ 1200'; Set 100' C1A Cement Plug @ 1200' to 1100'(4 1/2" cut)
6. TOOH w/ tbg @ 1100; gel hole @ 1100' to 835'.
7. TOOH w/ tbg @ 835'; Set 135' C1A Cement Plug @ 835' to 700' (Salt Sand @ 835' , 8 1/4" cgs @ 832' & Elevation @ 783')
8. TOOH w/ tbg @ 700'; gel hole @ 700' to 443'
9. TOOH w/ tbg @ 443'; Set 100' C1A Cement Plug @ 443' to 343'(10" csg @ 393')
10. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 10" cut.
Do not omit any plugs
11. TOOH w/ tbg @ 343'; gel hole @ 343' to 200'
12. TOOH w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to Surface
13. Top off as needed
14. Set Monument to WV-DEP Specifications
15. Reclaim Location & Road to WV-DEP Specifications

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 Office of Oil and Gas

JUL 08 2014

WV Department of
 Environmental Protection

OK
 BRYAN HARRIS
 JWH

08/29/2014

Formation	Color	Hard or Soft	Top <i>g</i>	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate & Shells			1630	1657			
Sand			1657	1684			
Slate & Shells			1684	1715			
Little Lime			1715	1754			
Slate & Shells			1754	1780			
Big Lime			1780	1850			
Injun Sand			1850	1990	Gas - 1963		
Squaw Shells			1990	2050			
T. D.				2050			

RECEIVED
Office of Oil and Gas

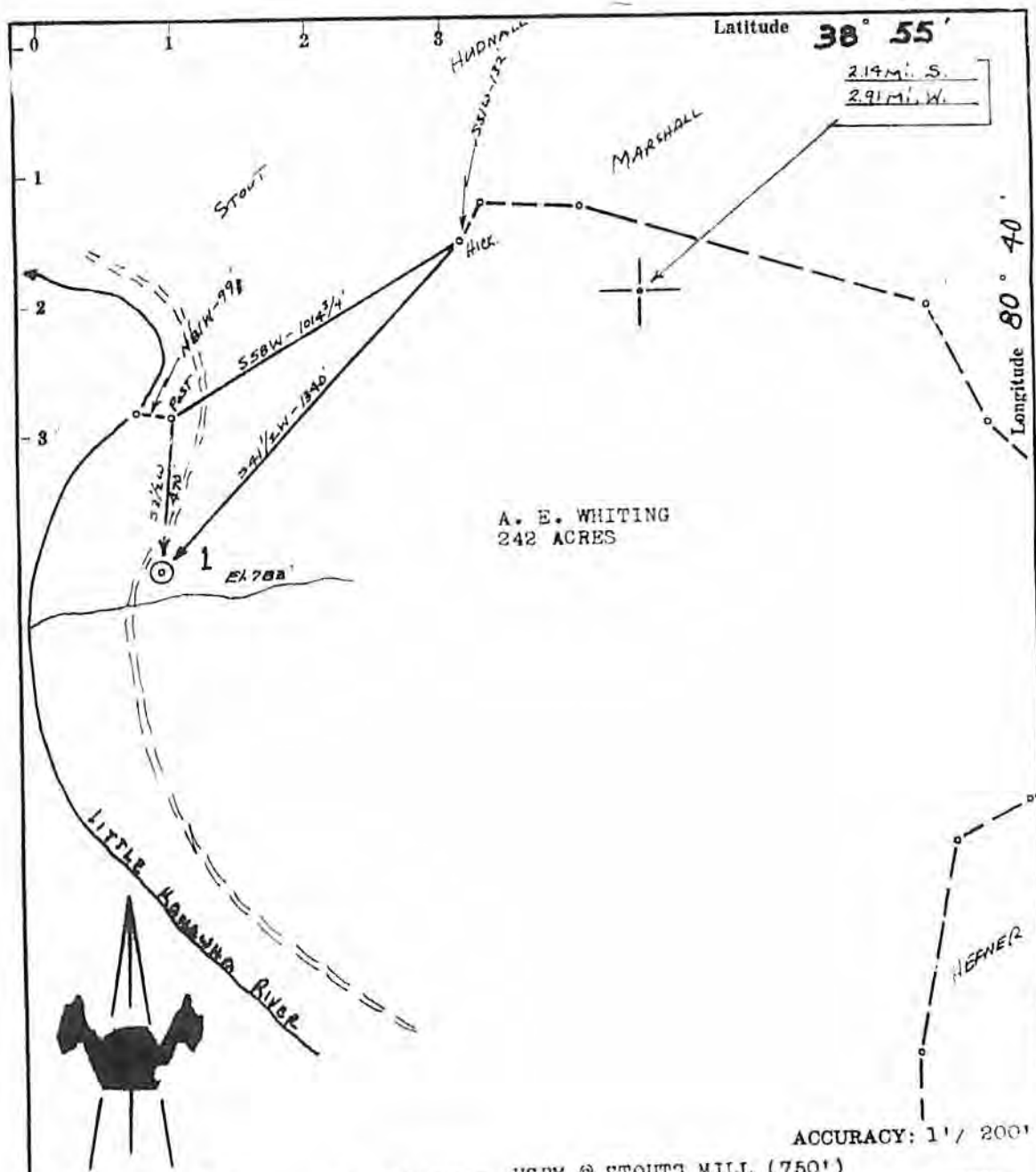
Date August 28, 2014 1967

APPROVED United Penn Oil & Gas Co. Owner

By [Signature] WV Department of Environmental Protection

08/29/2014

2101915P



A. E. WHITING
242 ACRES

ACCURACY: 1" / 200'

Source of Elevation USBM @ STOUTS MILL (750')

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill

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.

Company	UNITED PENN OIL & GAS COMPANY		
Address	MUNSTER, INDIANA		
Farm	A. E. WHITING		
Tract	Acres	242	Lease No.
Well (Farm) No.	1	Serial No.	
Elevation (Spirit Level)	783'		
Quadrangle	BURNSVILLE		
County	GILMER	District	GLENVILLE
Engineer	CHET WATERMAN		
Engineer's Registration No.	3788		
File No.	7003-74	Drawing No.	
Date	6/7/67	Scale	1" = 400'

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

WELL LOCATION MAP
FILE NO. GIL-1915

RECEIVED
Oil and Gas
JUL 09 2014

+ Denotes location of well on United States Topographic Maps, scale to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

WV Department of Environmental Protection
08/29/2014

2101915P

USPS
07/08/2014
\$07.40
ZIP 26330
041L (02285)2

7014 0510 0000 4438 5112



7014 0510 0000 4438 5112
7014 0510 0000 4438 5112

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

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

Postmark Here

Central Energy Corp.
 C/O Waco Oil & Gas Co. Inc.
 P.O. Box 397
 Glenville, WV 26351
 161311 plugging

PS Form 3800, August 2006 See Reverse for Instructions

Central Energy Corp.
C/O Waco Oil & Gas Co. Inc.
P.O. Box 397
Glenville, WV 26351
161311 plugging

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

SENDER: COMPLETE THIS SECTION

1. Article Addressed to:
 Central Energy Corp.
 C/O Waco Oil & Gas Co. Inc.
 P.O. Box 397
 Glenville, WV 26351
 161311 plugging

2. Article Number (Transfer from service)
 7014 0510 0000 4438 5112

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

4. Restricted Delivery? (Extra Fee)
 Yes
 No

5. Is delivery address different from item 1?
 Yes
 No

6. Attach this card to the back of the mailpiece, or on the front if space permits.

7. Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.

8. Print your name and address on the reverse so that we can return the card to you.

9. Attach this card to the back of the mailpiece.

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 B. Received by (Printed Name)
 C. Date of Delivery
 D. Is delivery address different from item 1?
 Yes
 No

PS Form 3811, July 2013 Domestic Return Receipt

RECEIVED
Office of Oil and Gas
JUL 06 2014
WV Department of
Environmental Protection
08/29/2014

2101915P



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

NEOPORT®
07/06/2014
FIRST CLASS MAIL
\$02.24



ZIP 26330
041110228892

Bryan Harris
P.O. Box 157
Volga, WV 26238

08/29/2014

2) Operator's Well Number

161311 Whiting 1 W-150

3) API Well No.: 47 021 - 01915

**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: 765' 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.? 20 -10 ml

Proposed Disposal Method for Treated Pit Wastes:

- Land Application
- Underground Injection - UIC Permit Number _____
- Reuse (at API Number) _____
- Offsite Disposal Permit #. _____
- Other: Explain _____

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. _____

If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used? _____

Will closed loop system be used? _____

Drill Cuttings disposal method? Leave in pit, landfill, remove offsite, etc. _____

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

Landfill or offsite name/permit number? _____

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any terms or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Victoria Roark*

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

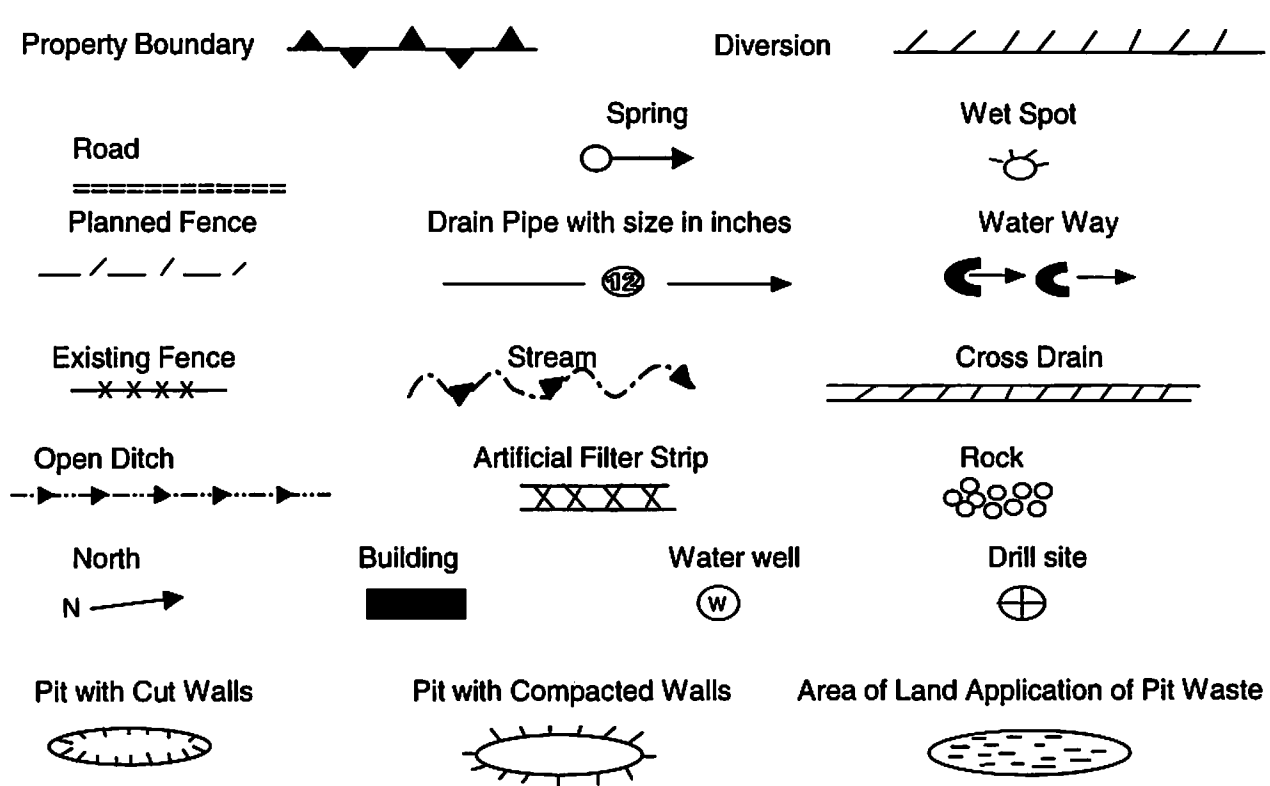
Subscribed and sworn before me this 7 day of July, 2014

My Commission Expires 7/27/2018

RECEIVED
Office of Oil and Gas
JUL 29 2014

Notary Public
OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Nicholas L. Bumgardner
Rt. 1, Box 4
Liberty WV 25119
My Commission Expires 2018
Department of Environmental Protection
08/29/2014

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

Topo Quad: Gilmer 7.5'

Scale: 1" = 2000'

County: Gilmer

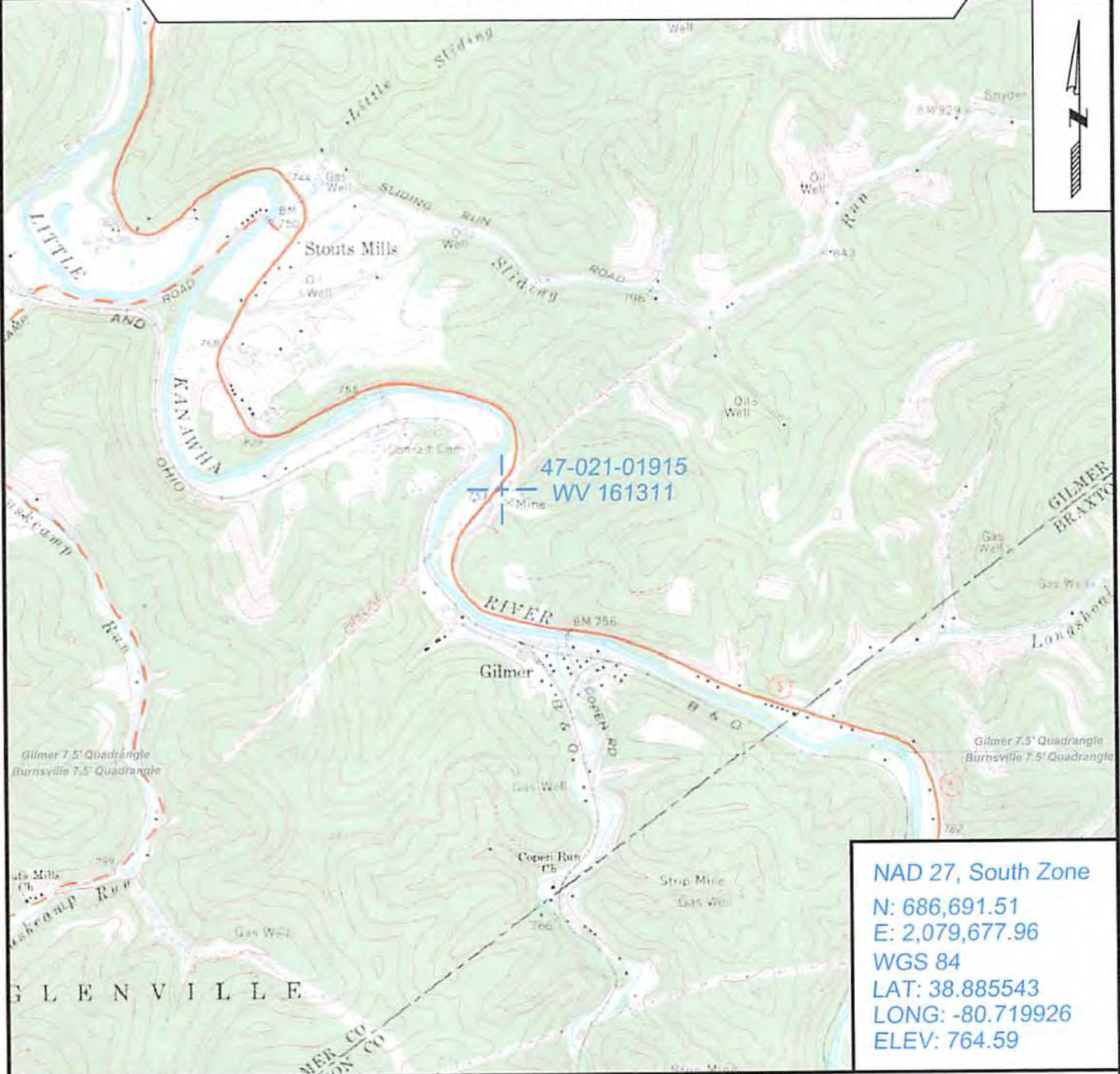
Date: April 10, 2014

District: Glenville

Project No: 25-19-00-07

47-021-01915 WV 161311 (Whiting 1 W-150)

Topo



47-021-01915
WV 161311

NAD 27, South Zone
 N: 686,691.51
 E: 2,079,677.96
 WGS 84
 LAT: 38.885543
 LONG: -80.719926
 ELEV: 764.59



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 237 Birch River Road
 Birch River, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

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

WW-7
4-11-14



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

API: 47-021-01915 WELL NO.: WV 161311 (Whiting 1 W-150)

FARM NAME: A. E. Whiting

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Gilmer DISTRICT: Glenville 3

QUADRANGLE: Gilmer 7.5' 305

SURFACE OWNER: Central Energy Corporation (c/o Waco Oil & Gas Co., Inc.)

ROYALTY OWNER: Central Energy Corporation (c/o Waco Oil & Gas Co., Inc.), et al.

UTM GPS NORTHING: 4304113

UTM GPS EASTING: 524291 GPS ELEVATION: 233 m (765 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 4/22/14

Title PS # 2180

Topo Quad: Gilmer 7.5'

Scale: 1" = 2000'

County: Gilmer

Date: April 10, 2014

District: Glenville

Project No: 25-19-00-07

Water

47-021-01915 WV 161311 (Whiting 1 W-150)

0 potential water wells within 1000'

47-021-01915
WV 161311

NAD 27, South Zone
N: 686,691.51
E: 2,079,677.96
WGS 84
LAT: 38.885543
LONG: -80.719926
ELEV: 764.59



SURVEYING AND MAPPING SERVICES PERFORMED BY:
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1-800-482-8606
237 Birch River Road
Birch River, WV 26610
PH: (304) 649-8606
FAX: (304) 649-8608

PREPARED FOR:

EQT Production Company

P.O. Box 280
Bridgeport, WV 26330



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. Whiting 1 W-150 WV 161311 API No. 47-021-01915

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 161311.

BIRCH RIVER OFFICE
237 Birch River Road
Birch River, WV 26610
phone: 304-649-8606
fax: 304-649-8608

BRIDGEPORT OFFICE
172 Thompson Drive
Bridgeport, WV 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

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Office of Oil and Gas
JUL 09 2014
ALUM CREEK OFFICE
1413 Childress Road
Alum Creek, WV 25003
phone: 304-756-2949
fax: 304-756-2948