



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Thursday, June 15, 2017
WELL WORK PERMIT
Vertical / Plugging

EQT PRODUCTION COMPANY (A)
120 PROFESSIONAL PLACE
BUILDING II
BRIDGEPORT, WV 26330

Re: Permit approval for 152
47-109-00460-00-00

This well work permit 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 any additional specific 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.


James A. Martin
Chief

Operator's Well Number: 152
Farm Name: RITTER, W. M. LMBR. CO.
U.S. WELL NUMBER: 47-109-00460-00-00
Vertical / Plugging
Date Issued: 6/15/2017

Promoting a healthy environment.

06/16/2017

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.

109 00 460F

CK # 22742
\$100⁰⁰

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

Date: May 22, 2017
Operator's Well _____
Well No. 024790 (W. M. Ritter Lumber Co. #152)
API Well No.: 47 109 - 00460

**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: 1620 ft. Watershed: Toler Ck. Of Big Cub
Location: Clear Fork County: Wyoming Quadrangle: Oceana 7.5'
District: _____
- 6) Well Operator EQT Production Company 7) Designated Agent: Rex C. Ray
Address: 120 Professional Place Address: 120 Professional Place
Bridgeport, WV 26330 Bridgeport, WV 26330
- 8) Oil & Gas Brian Ferguson 9) Plugging Contractor:
Name: 708 Manor Drive Name: HydroCarbon Well Service
Address: Beckley, WV 25801 Address: PO BOX 995
Beckley, WV 25801 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 [Signature] Date 6/2/2017

PLUGGING PROGNOS

024790
 Ritter #152
 API# 47-109-00460
 District, Clear Fork
 Wyoming County, WV

BY: R Green
 DATE: 04/13/17

CURRENT STATUS:

TD @ 3719'
Elevation @ 1616'

16" casing @ 25'
 13 3/8" casing @ 111'
 10 3/4" casing @ 692' (Set on packer @ 692')
 8 5/8" casing @ 2194' (Cemented with 10 sks)
 7" casing @ 2838' (Cemented with 2 sks)
 2 3/8" tubing @ 3698' (Set on 2 3/8" X 7" packer @ 3023')

Fresh Water @ 45' & 155'
Saltwater @ None Reported
Oil Show @ None Reported
Gas shows @ 1290', 2863', 3674', & 3693'
Coal @ 61' & 1190'

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1. Notify inspector, Brian Ferguson, @ 304-550-6265, 24 hours prior to commencing operations.
2. Release 2 3/8" X 7" packer and TOO H with tubing and packer. (Note* if unable to release packer and TOO H tubing contact EQT supervisor and state inspector).
3. TIH check TD @ or below 3650'.
4. Spot 30 bbl. of 6 % gelled water, followed by a 200' C1A cement plug, 3650' to 3450'. (gas shows @ 3709' & 3719') WOC 8 hrs., TAG TOC, add additional C1A cement if necessary.
5. TOO H to 3050', set 300' C1A cement plug 3050' to 2750' (gas show @ 3100', 7" casing seat).
6. Free point 7" casing, cut casing @ free point, TOO H casing.
7. Set 100' C1A cement plug 50' in/out of casing cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
8. TOO H to 2250', set 250' C1A cement plug, 2250' to 2000', (8 5/8" casing seat).
9. Free point 8 5/8" casing, cut casing @ free point, TOO H casing
10. Set 100' C1A cement plug 50' in/out of casing cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
11. TOO H to 1650', set 100' C1A cement plug 1650' to 1550'. (Elevation).
12. TOO H to 1200', set 200' C1A cement plug 1200' to 1000'. (Coal @ 1193').
13. TOO H to 750', set 200' C1A cement plug 750' to 550'. (10 3/4" packer seat).
14. Free point 10 3/4" casing, cut casing @ free point, TOO H casing.
15. Set 100' C1A cement plug 50' in/out of casing cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs
16. TOO H to 300' set 150' C1A cement plug 300' to 150'. (Freshwater @ 173').
17. Free point 13 3/8" casing, cut casing @ free point and TOO H casing.
18. TIH to 150', set 150' C1A cement plug 150' to surface.
19. Erect monument with API#, date plugged, company name, and company 6-digit ID#.
20. Reclaim location and road to WV-DEP specifications.

J. M. M.

06/16/2017

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UNITED CARBON CO.
GEOLOGICAL DEPT.

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION, 13

Coal Dept.	Map Posting
Date	7/6/56
Location	
Survey	
Tracing	

14 Pineville

WELL RECORD

Permit No. WYO-460

Oil or Gas Well Gas
(KIND)

Company United Producing Company, Inc.
 Address Box 1913, Charleston 27, W. Va.
 Farm W. M. Ritter Lumber Company Acres 67,182
 Location (waters) Toler Hollow of Big Cub Creek
 Well No. 152 (2479) Elev. 1616' DF
 District Clear Fork County Wyoming
 The surface of tract is owned in fee by W. M. Ritter Lumber Co., 115 East Rich St. Address Columbus 15, Ohio
 Mineral rights are owned by Same

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			10 3/4" bottom hole packer set @ 692'
16"	25'	25'	Kind of Packer
13 3/8"	111'	111'	Anchor
10 3/4"	692'	692'	Size of 2 3/8" X 7"
8 5/8"	2194'	2194'	
6 7/8"	2838'	2838'	Depth set 3023'
5 3/16"			
3"			Perf. top 3666'
2 3/8"	3698'	3698'	Perf. bottom 3698'
Liners Used			Perf. top
			Perf. bottom

Address _____
 Drilling commenced February 16, 1956
 Drilling completed June 10, 1956
 Date Shot 6/11/56 From 3661' To _____
 With 240 Qts. Nitroglycerine
 Open Flow _____ /10ths Water in _____ Inch
15 /10ths Merc. in _____ 2 Inch
 Volume 603,000 Cu. Ft.
 Rock Pressure 780 lbs. 48 hrs.
 OIL _____ bbls., 1st 24 hrs.
 Fresh water 45 feet 155 feet
 Salt water _____ feet _____ feet

CASING CEMENTED 8 5/8" SIZE 10 sacks No. Ft. 5/7/56 Date
13 3/8" aquagelled to surf.; 7" aquagelled - 2 sax
 COAL WAS ENCOUNTERED AT 61 FEET 24 INCHES
1190 FEET 36 INCHES FEET INCHES
 FEET INCHES FEET INCHES

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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Surface			0	22			
Lime			22	48	Water	45'	3 blrs. per hr
Slate			48	61			
Coal			61	63			
Slate			63	68			
Lime			68	94			
Slate			94	122			
Lime			122	173	Water	155'	hole full
Slate			173	190			
Lime			190	227			
Slate			227	230			
Sand			230	265			
Slate			265	296			
Lime			296	310			
Slate			310	323			
Lime			323	328			
Sand			328	377			
Slate			377	438			
Sand			438	712			
Slate & Shells			712	760			
Sand			760	790			
Slate			790	902			
Sand			902	1005			
Slate			1005	1016			
Sand			1016	1190			
Coal			1190	1193			
Lime		Gritty	1193	1265			
Slate & Shells			1265	1382	Gas	1290'	show
Sand			1382	1421			
Slate & Shells			1421	1430			
Lime		Gritty	1430	1448			
Slate & Shells			1448	1471			
Lime		Broken	1471	1580			
Lime		Gritty	1580	1618			
Sand			1618	1732			
Red Rock			1732	1736			
Lime			1736	1785			
Slate			1785	1810			
Lime Shells			1810	1825			
Slate & Shells			1825	1856			

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WEST VIRGINIA
DEPT. OF MINES

06/16/2017

Handwritten signature/initials

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			1856	1944			
Lime			1944	1975			
Slate & Shells			1975	2002			
Lime			2002	2062			
Red Rock			2062	2095			
Lime			2095	2124			
Sand			2124	2178			
Red Rock			2178	2189			
Lime			2189	2202			
Red Rock			2202	2215			
Lime			2215	2318		1500	open
Slate			2318	2325			
Sand			2325	2340			
Slate			2340	2358			
Lime	Pink		2358	2492			
Lime	Black		2492	2551			
Lime	Pink		2551	2579			
Slate			2579	2589			
Lime			2589	2622			
Slate			2622	2656			
Lime			2656	2735			
Slate			2735	2747			
Big Lime			2747	2801			
Slate Break			2801	2811			
Big Lime			2811	3100	Gas	2863-2865'	4/10 W 1" 21M
Sand	Red		3100	3168			
Lime		Gritty	3168	3202			
Slate			3202	3220			
Sand	Red		3220	3234			
Slate & Shells			3234	3607			
Lime			3607	3650			
Shale	Brown		3650	3661			
Berea Grit			3661	3709	Gas	3674-3680'	8/10 W 1" 30M
Slate			3709	3719	Gas	3693-3699'	16/10 W 1" 42M
TOTAL DEPTH				3719'			

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Date June 19, 19

06/16/2017

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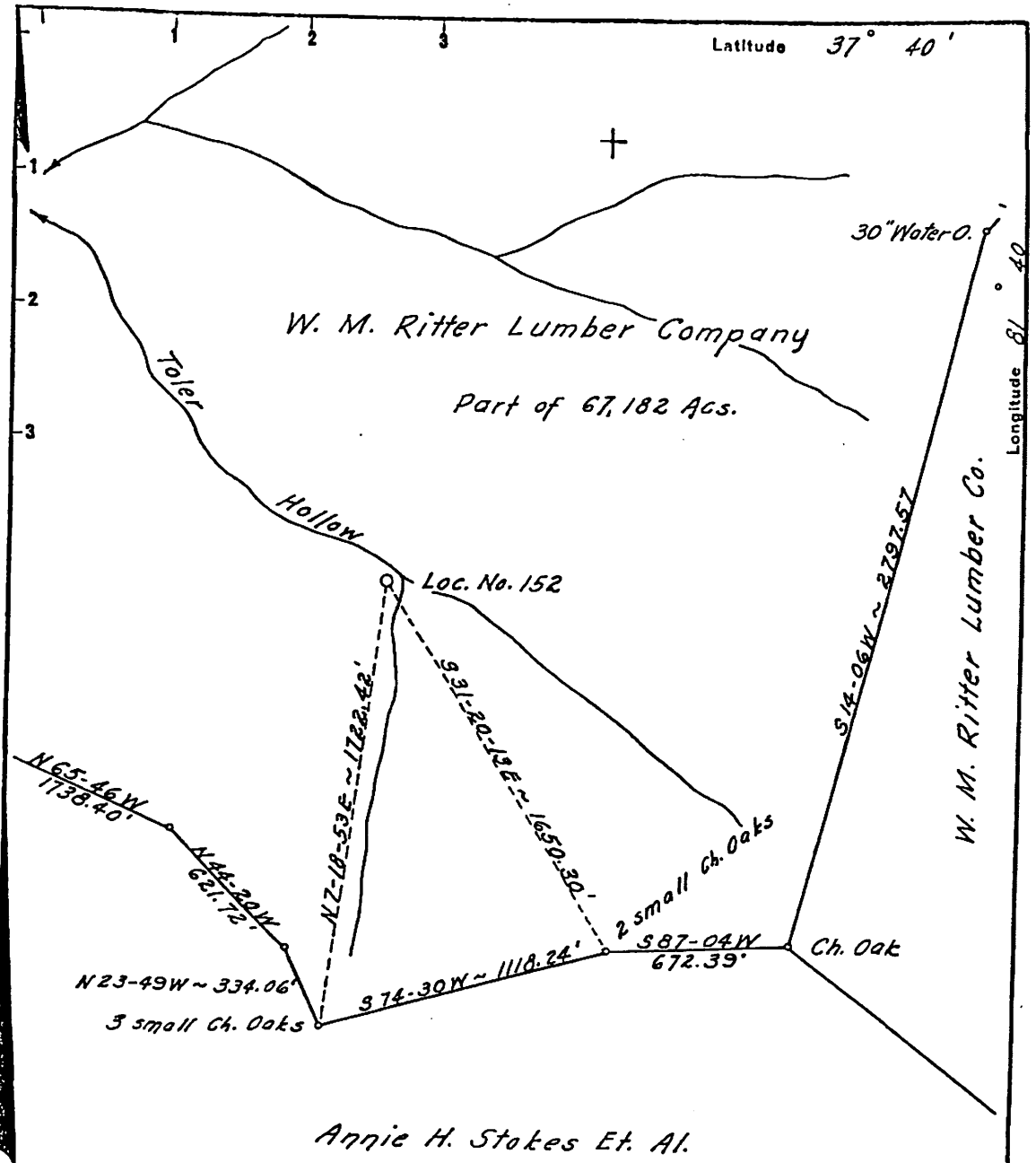
Latitude 37° 40'

Longitude 81° 40'

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New Location
 Drill Deeper
 Abandonment

Coordinates No. 152 = N 104.530.26 W 49.777.23

Company United Producing Co. Inc.
 Address Charleston, W. Va.
 Farm W. M. Ritter Lumber Co.
 Tract _____ Acres 67,182 Lease No. 4157
 Well (Farm) No. 152 Serial No. 2479
 Elevation (Spirit Level) 1615.6 Gc.
 Quadrangle Pineville
 County Wyoming District Clear Fork
 Engineer E. G. Withrow
 Engineer's Registration No. 1377 Ky.
 File No. 4-A Drawing No. _____
 Date 1-30-56 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. WYO-460

+ 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.

K-E 100 IMPERIAL 110

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WW-4-A
Revised 6/07

1) Date: May 22, 2017
2) Operator's Well Number
024790 (W. M. Ritter Lumber Co. #152)
3) API Well No.: 47 109 - 00460
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 Heartwood Forestland Fund IV P
Address 19045 Stone Mountain Road
Abingdon, VA 24210
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Brian Ferguson
Address 708 Manor Drive
Beckley, WV 25801
Telephone (304) 550-6265

5) (a) Coal Operator:
Name CM Energy, LP
Address 200 George St., Suite 4
Beckley, WV 25801
(b) Coal Owner(s) with Declaration
Name NRP, LLC / WPP, LLC
Address 5260 Irwin Road
Huntington, WV 25705
(c) Coal Lessee with Declaration
Name CM Energy, LP
Address 200 George St., Suite 4
Beckley, WV 25801

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: Rex C. Ray
Its: Regional Land Manager
Address: PO Box 280
Bridgeport, WV 26330
Telephone: (304) 848-0076

Subscribed and sworn before me this 25th day of May, 2017
Misty S. Christie Notary Public
My Commission Expires: 2/20/18

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.



06/16/2017

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County: Wyoming

Operator's Well Number: Ritter #152
47-109-00460

Operator: EQT Production Company

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 extension 1654

WAIVER

The undersigned operator X / owner _____ / lessee X of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

FOR EXECUTION BY A NATURAL PERSON

Signature Date _____

FOR EXECUTION BY A CORPORATION, ETC.

Company Name Scott Kiscadon
By CEO
Its Signature & Co
Signature _____ Date 5/10/17

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WW-9
Revised 5/16

MAY 26 2017

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Page _____ of _____
2) Operator's Well Number
024790 (W. M. Ritter Lumber Co. #152)
3) API Well No.: 47 109 - 00460

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS
FLUIDS / CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name: EQT PRODUCTION COMPANY OP CODE: _____

Watershed (HUC 10): Toler Ck. Of Big Cub Quadrangle: Oceana 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes ___ No X

Will a pit be used? Yes X No ___

If so, please describe anticipated pit waste:

Formation Fluids

Will a synthetic liner be used in the pit? Yes X No ___ Is so, what ml.? 20 - 40 ml

Proposed Disposal Method for Treated Pit Wastes:

- _____ Land Application (if selected provide a completed form WW-9-GPP)
- _____ Underground Injection (UIC Permit Number _____)
- X _____ Reuse (at API Number -- Various _____)
- X _____ Off Site Disposal Permit (Supply form WW-9 for disposal location. See attachment)
- _____ Other: (Explain _____)

Will closed loop system be used ? If so, describe: _____

Drilling medium anticipated for this well? (vertical and horizontal)? Air, freshwater, oil based, etc. _____

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

Additives to be used in drilling medium? _____

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? _____

Permittee shall provide written notice to the Office of the Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, 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 term 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

Company Official Signature Rex C. Ray

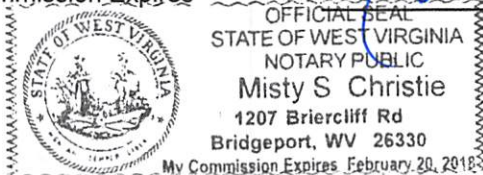
Company Official (Typed Name) Rex C. Ray

Company Official Title Regional Land Manager - WV

Subscribed and sworn before me this 25th day of May, 2018

Misty S. Christie
Notary Public

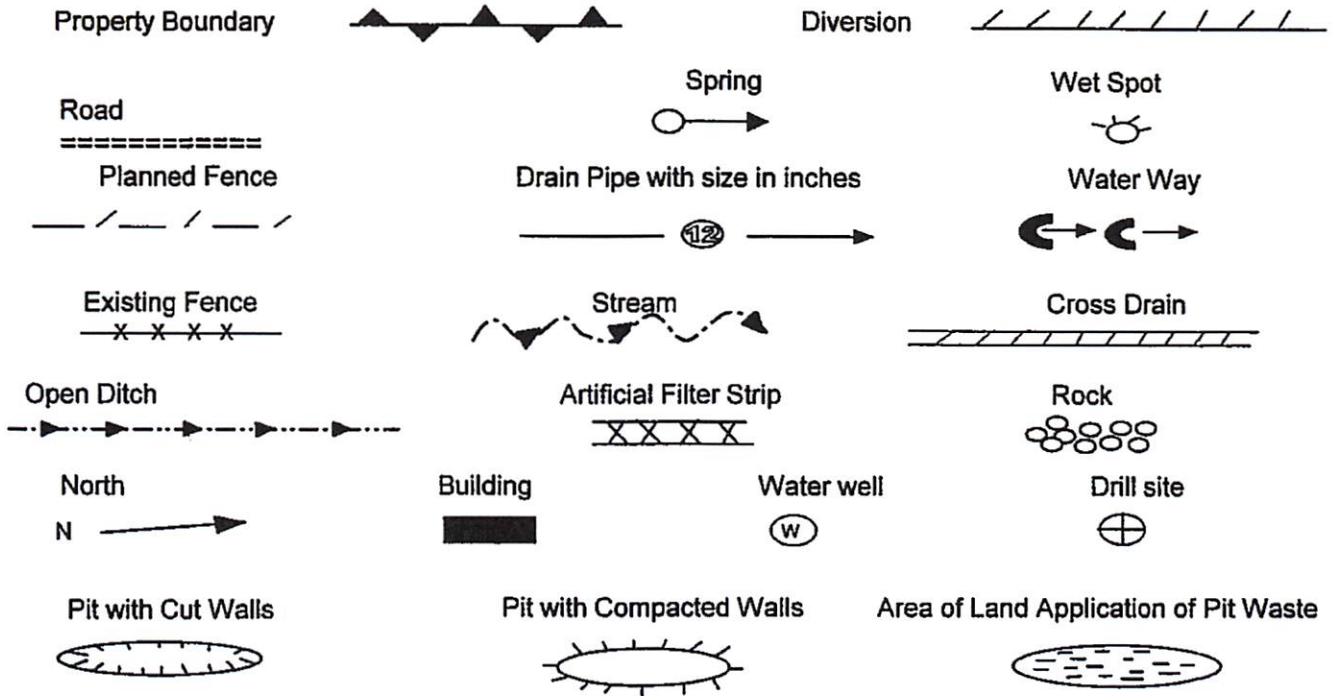
My Commission Expires 2/20/18



06/16/2017

OPERATOR'S WELL NO.:
024790 (W. M. Ritter Lumber Co. #152)

LEGEND



Proposed Revegetation Treatment: Acres Disturbed: _____ 1± _____ Prevegetation pH _____

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
Red Fescue	40	Red Fescue	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: *[Signature]*

Comments: _____

Title: oil & GAS INSPECTOR Date: 6/2/2017
 Field Reviewed? Yes No

EQT Production Water plan
Offsite disposals

Waste Management - Meadowfill Landfill

Rt. 2, Box 68 Dawson Drive
Bridgeport, WV 26330
304-326-6027
Permit #SWF-1032-98
Approval #100785WV

Waste Management - Northwestern Landfill

512 E. Dry Road
Parkersburg, WV 26104
304-428-0602
Permit #SWF-1025 WV-0109400
Approval #100833WV

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Topo Quad: Oceana 7.5' **Scale:** 1" = 200'
County: Wyoming **Date:** May 15, 2017
District: Clear Fork **Project No:** 22-22-00-08

47-109-00460 WV 024790 (W.M. Ritter Lumber Co. #152)

Topo

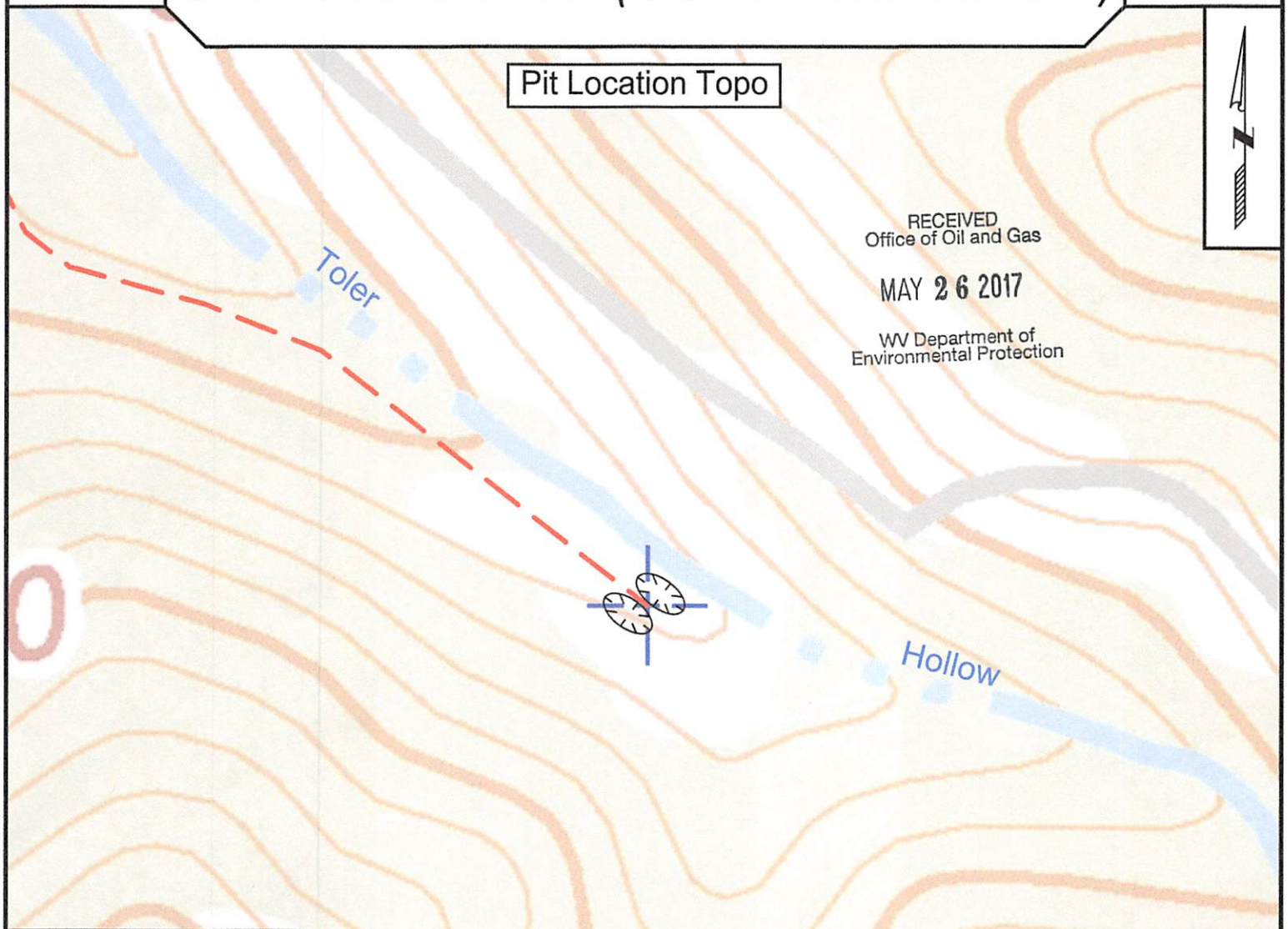
Pit Location Topo






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Legend

PIT-CUT WALLS 
 PIT-COMPACTED WALLS 
 AREA OF LAND APPLICATION OF PIT WASTE 
NO LAND APPLICATION

NAD 27, South Zone
N:238817.17
E:1790767.04

WGS 84
LAT:37.653733
LONG:-81.722552
ELEV:1620.32'



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

06/16/2017

Topo Quad: Oceana 7.5'

Scale: 1" = 500'

109 00460P

County: Wyoming

Date: May 15, 2017

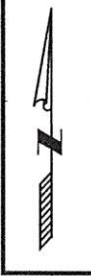
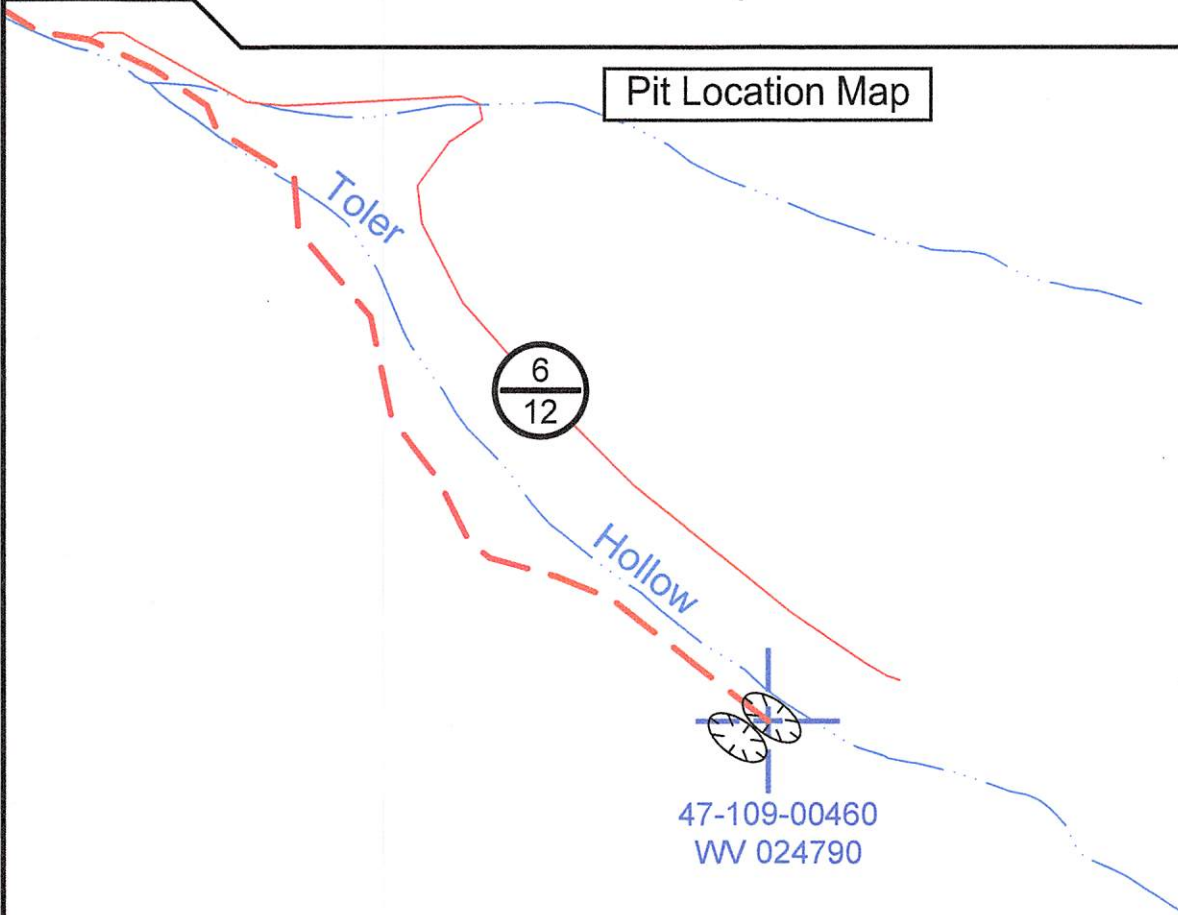
District: Clear Fork

Project No: 22-22-00-08

Highway

47-109-00460 WV 024790 (W.M. Ritter Lumber Co. #152)

Pit Location Map



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Legend

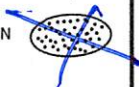
PIT-CUT WALLS



PIT-COMPACTED WALLS



AREA OF LAND APPLICATION
OF PIT WASTE



NO LAND APPLICATION

NAD 27, South Zone
N:238817.17
E:1790767.04

WGS 84
LAT:37.653733
LONG:-81.722552
ELEV:1620.32'



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

06/16/2017

109 00460P

Topo Quad: Oceana 7.5'

Scale: 1" = 2000'

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County: Wyoming

Date: May 15, 2017

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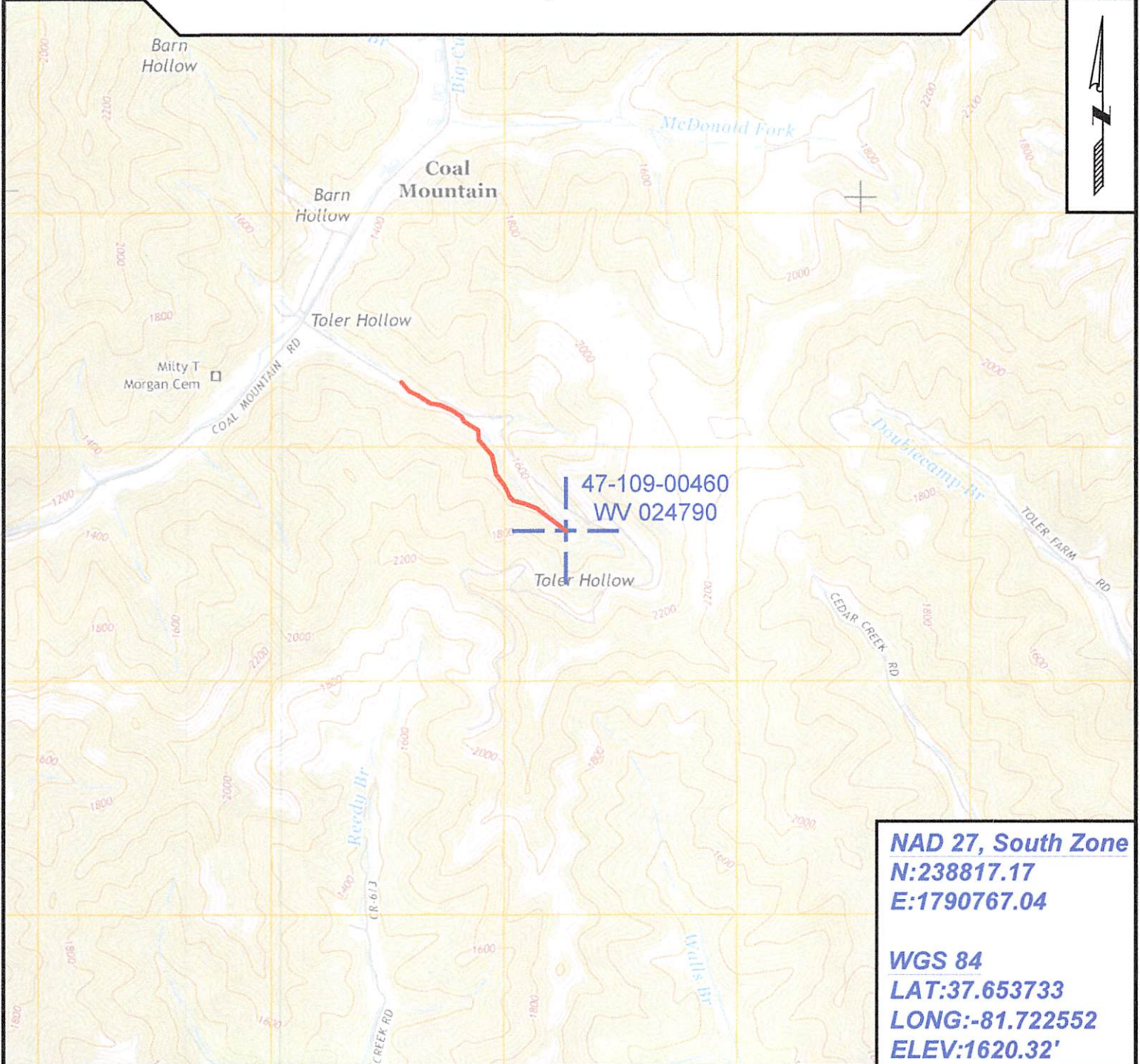
District: Clear Fork

Project No: 22-22-00-08

WV Department of
Environmental Protection

47-109-00460 WV 024790 (W.M. Ritter Lumber Co. #152)

Topo



NAD 27, South Zone
N:238817.17
E:1790767.04

WGS 84
LAT:37.653733
LONG:-81.722552
ELEV:1620.32'



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

06/16/2017

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WV Department of
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POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY

LEASE NAME AND WELL No. W.M. Ritter Lumber Co. #152 WV 024790 47-109-00460

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 024790.

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

ALUM CREEK OFFICE

P.O. Box 108 • 1413 Childress Rd
Alum Creek, WV 25003
phone: 304-756-2949
fax: 304-756-2948

MARTINSBURG OFFICE

25 Lights Addition Drive
Martinsburg, WV 25404
phone: 304-901-2162
fax: 304-901-2182

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Topo Quad: Oceana 7.5'

Scale: 1" = 2000'

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County: Wyoming

Date: May 15, 2017

MAY 26 2017

District: Clear Fork

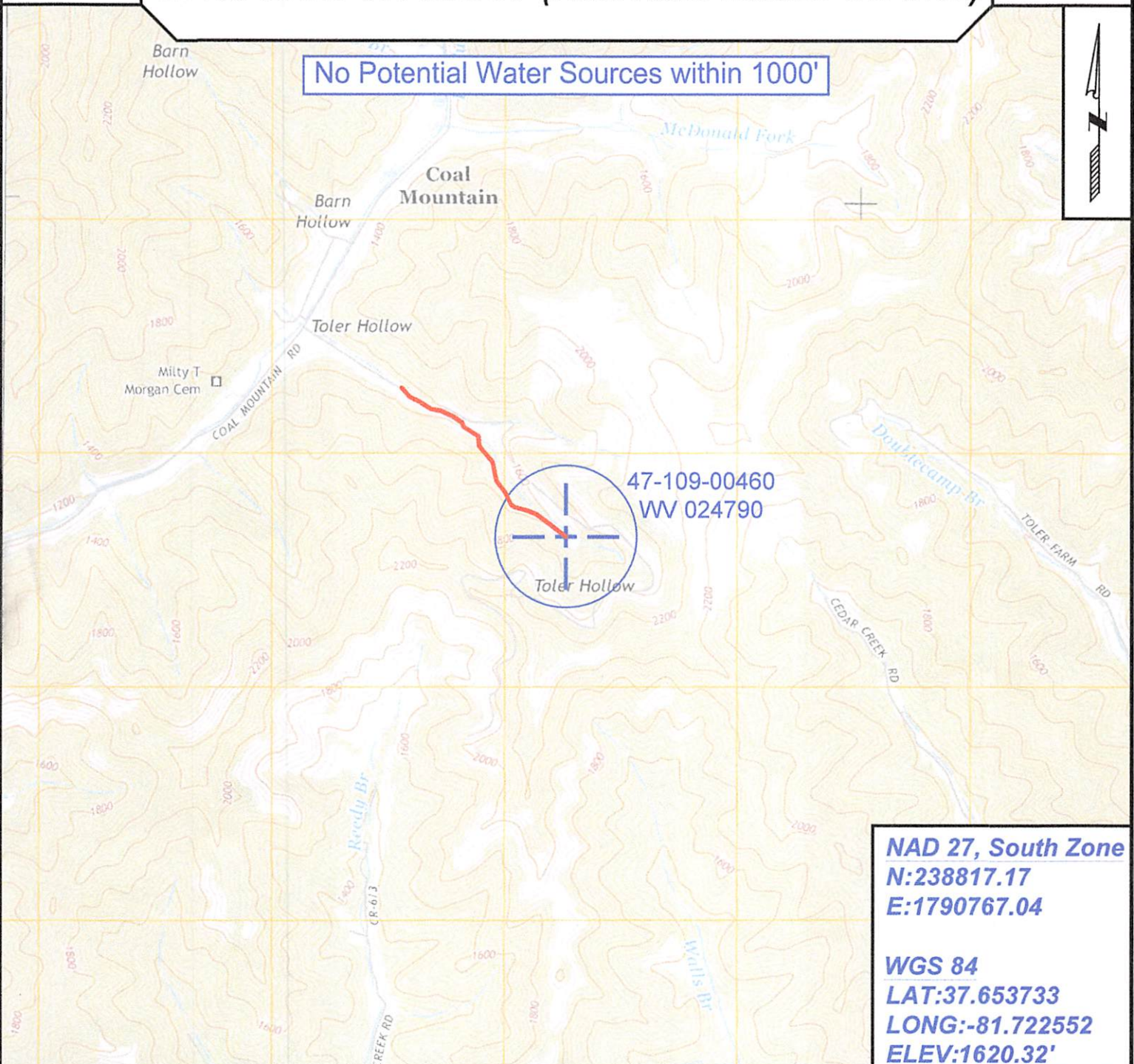
Project No: 22-22-00-08

WV Department of
Environmental Protection

Water

47-109-00460 WV 024790 (W.M. Ritter Lumber Co. #152)

No Potential Water Sources within 1000'



NAD 27, South Zone
N:238817.17
E:1790767.04

WGS 84
LAT:37.653733
LONG:-81.722552
ELEV:1620.32'



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PREPARED FOR:
EQT Production Company
P.O. Box 280
Bridgeport, WV 26330
06/16/2017

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WW-7
8-30-06

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Environmental Protection



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

API: 47-109-00460 WELL NO.: WV 024790 (W.M. Ritter Lumber Co. #152)

FARM NAME: W.M. Ritter Lumber Co.

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Wyoming DISTRICT: Clear Fork

QUADRANGLE: Oceana 7.5'

SURFACE OWNER: Heartwood Forestland Fund IV Limited Partnership

ROYALTY OWNER: Heartwood Forestland Fund IV Limited Partnership

UTM GPS NORTHING: 4167643

UTM GPS EASTING: 436264 GPS ELEVATION: 494m (1620ft)

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

PS # 2180
Title

5/16/17
Date

06/16/2017