



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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Monday, February 1, 2021
WELL WORK PLUGGING PERMIT
Vertical Plugging

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700
PITTSBURGH, PA 15222

Re: Permit approval for 597714 U S MORROW 222
47-091-01362-00-00

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.

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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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: 597714 U S MORROW 222
Farm Name: JUSTIN DARRAH AND ANNE
U.S. WELL NUMBER: 47-091-01362-00-00
Vertical Plugging
Date Issued: 2/1/2021

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.

1) Date January 14, 2021
 2) Operator's
 Well No. 597714 U S Morrow #222
 3) API Well No. 47-091 - 70029

STATE OF WEST VIRGINIA
 DEPARTMENT 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 ___ or Underground storage ___) Deep ___ / Shallow X
- 5) Location: Elevation 1321' Watershed Plummers Run
 District Booths Creek County Taylor Quadrangle Rosemont 7.5'
- 6) Well Operator EQT Production Company 7) Designated Agent Joseph C. Mallow
 Address 400 Woodcliff Drive Address 115 Professional Place
Canonsburg PA 15317 Bridgeport WV 26330
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
 Name Bryan Harris Name HydroCarbon Well Service
 Address PO Box 157 Address PO Box 995
Volga, WV 26238 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.

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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Bryan Harris Date 1-19-21

PLUGGING PROGNOSIS

Morrow, U.S.
597714
Taylor Co. WV
District; Booths Creek
API # 47-091-70029

BY: R. Green
DATE: 01/05/2021

CURRENT STATUS:

TD @ ????
Elevation @ 1321'

NO WELL RECORDS AVAILABLE

Fresh Water @?
Saltwater @?
Coal @?
Oil Show @?
Gas shows @?

*No plugging records found,
unforeseen variables to be
plugged to meet DEP Regs.
Bryan Harris
1-19-21*

1. Notify State Inspector, **Bryan Harris, cell 304-553-6087**, 48 hrs. prior to commencing operations.
2. TIH wireline collar locator find tubing packer and TD.
3. Cut tubing @ top of packer, TOO H tubing.
4. TIH to top of packer and spot 45 bbl. of 6% gel water followed by a 300' C1A cement plug.
5. WOC 8 hrs. Tag TOC add additional C1A cement if necessary.
6. TIH wireline, find casing seat on next string of casing, determine distance from top of 1st plug to casing seat.
7. TIH to top of 1st plug and spot 40 bbl. of 6% gel water,
8. TOO H to **halfway** between bottom plug and casing seat, then set a 300' C1A cement plug, WOC 8 hrs. TAG TOC, add additional C1A cement if necessary
9. TOO H to 100' below casing seat, set a 200' C1A cement plug, 100' below casing seat to 100' inside casing.
10. Free point casing, attempt to cut and pull casing, if unable to cut and pull casing, TIH and perforate casing(s). with 5 holes every 200' to surface. (* Note, Discuss this procedure with DEP inspector and EQT representative before proceeding.)
11. TIH to top of casing seat plug and set C1A cement plug to surface.
12. Erect monument with API#, company name, & date plugged

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4709101362P

13. Reclaim location and road to WV-DEP specifications.

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WW-4A
Revised 6-07

2021

1) Date: January 14, 2021
2) Operator's Well Number
597714 U S Morrow #222

3) API Well No.: 47 - 091 - 70029

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Justin & Andrea Darrah</u>	Name <u>N/A</u>
Address <u>34 Auburn Lane</u>	Address _____
<u>Flemington, WV 26347</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>C Terry Morrow & Patreiators of C Terry Morrow Trust</u>
_____	Address <u>2519 NW 82nd St</u>
_____	<u>Gainesville, FL 32606</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Bryan Harris</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 157</u>	Name <u>N/A</u>
<u>Volga, WV 26238</u>	Address _____
Telephone <u>304-553-6087</u>	_____

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.

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The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverse side. However, you are not required to take any action at all.

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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 Department 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.

Commonwealth of Pennsylvania - Notary Seal
Rebecca Shrum, Notary Public
Beaver County
My commission expires March 9, 2024
Commission number 1267706
Member, Pennsylvania Association of Notaries

Well Operator EQT Production Company
By: Erin Spine
Its: Supervisor - Subsurface Permitting
Address 400 Woodcliff Drive
Canonsburg PA 15317
Telephone (724) 271-7380

Subscribed and sworn before me this 14th day of January, 2021
Rebecca Shrum Notary Public
My Commission Expires March 9, 2024

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a 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.

7018 3090 0001 6709 5583

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Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 2.80
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$ 7.70
Total Postage and Fees	\$
Sent To	Justin & Andrea Darrah
Street and Apt. No., P.O. Box, or other address	34 Auburn Lane
City, State, ZIP+4®	Flemington, WV 26347
	597714 Morrow Notifications

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



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7018 3090 0001 6709 5576

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Certified Mail Fee	\$ 3.50
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<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 2.50
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$ 7.70
Total Postage and Fees	\$
Sent To	C Terry Morrow & Patreciators of
Street and Apt. No., P.O. Box, or other address	C Terry Morrow Trust
City, State, ZIP+4®	2519 NW 82nd St
	Gainesville, FL 32606
	597714 Morrow Notifications

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



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SURFACE OWNER WAIVER

Operator's Well
Number

597714 U S Morrow #222

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

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If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

_____	Date _____	Name _____	_____
Signature		By	_____
		Its	_____
			Date _____
		Signature	Date _____

WW-4B

API No.	<u>47-091-70029</u>
Farm Name	<u>U S Morrow</u>
Well No.	<u>597714 U S Morrow #222</u>

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator ____/ owner ____/ lessee ____/ of the coal under this well location has examined this proposed plugging work order. 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.

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Date: _____

JAN 21 2021

By: _____

WV Department of
Environmental Protection

Its _____

WW-9
(5/16)

API Number 47 - 091 - 70029
Operator's Well No. 597714 US Morrow #222

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

Operator Name EQT Production Company OP Code 306686

Watershed (HUC 10) Plummers Run Quadrangle Rosemont 7.5'

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

Will a pit be used? Yes No *ALL WELL EFFLUENT WILL BE CONTAINED IN TANKS BEFORE DISPOSING OFF-SITE. gwn*

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml? _____

Proposed Disposal Method For Treated Pit Wastes:

- _____ Land Application (if selected provide a completed form WW-9-GPP)
- _____ Underground Injection (UIC Permit Number _____)
- _____ Reuse (at API Number _____)
- _____ Off Site Disposal (Supply form WW-9 for disposal location)
- _____ 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, removed offsite, etc. _____

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? _____

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Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any Department of Environmental Protection 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 Department 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 submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Erin Spine*

Company Official (Typed Name) Erin Spine

Company Official Title Supervisor - Subsurface Permitting

Subscribed and sworn before me this 14th day of January, 2021

Rebecca Shrum

Notary Public

My commission expires March 9, 2024

Commonwealth of Pennsylvania - Notary Seal
Rebecca Shrum, Notary Public
Beaver County
My commission expires March 9, 2024
Commission number 1267706
Member, Pennsylvania Association of Notaries

Proposed Revegetation Treatment: Acres Disturbed 1± Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type (10-20-20) or equivalent

Fertilizer amount 1/3 ton lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Aslike Clover	5	Aslike Clover	5
Annual Rye	15		

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Bryan Harris

Comments: _____

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Title: Inspector Date: 1-19-21

Field Reviewed? (X) Yes () No

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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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Site Pictures
U. S. Morrow #222
WV 597714 47-091-70029



WV 597714 Well Pad Site



WV 597714 Well Pad Site

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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

CHARLESTON OFFICE

301 RHI. Boulevard - Suite 5
Charleston, WV 25309
phone: 304-756-2949 fax: 304-756-2948

Topo Quad: Rosemont 7.5'

Scale: 1" = 2000'

County: Taylor

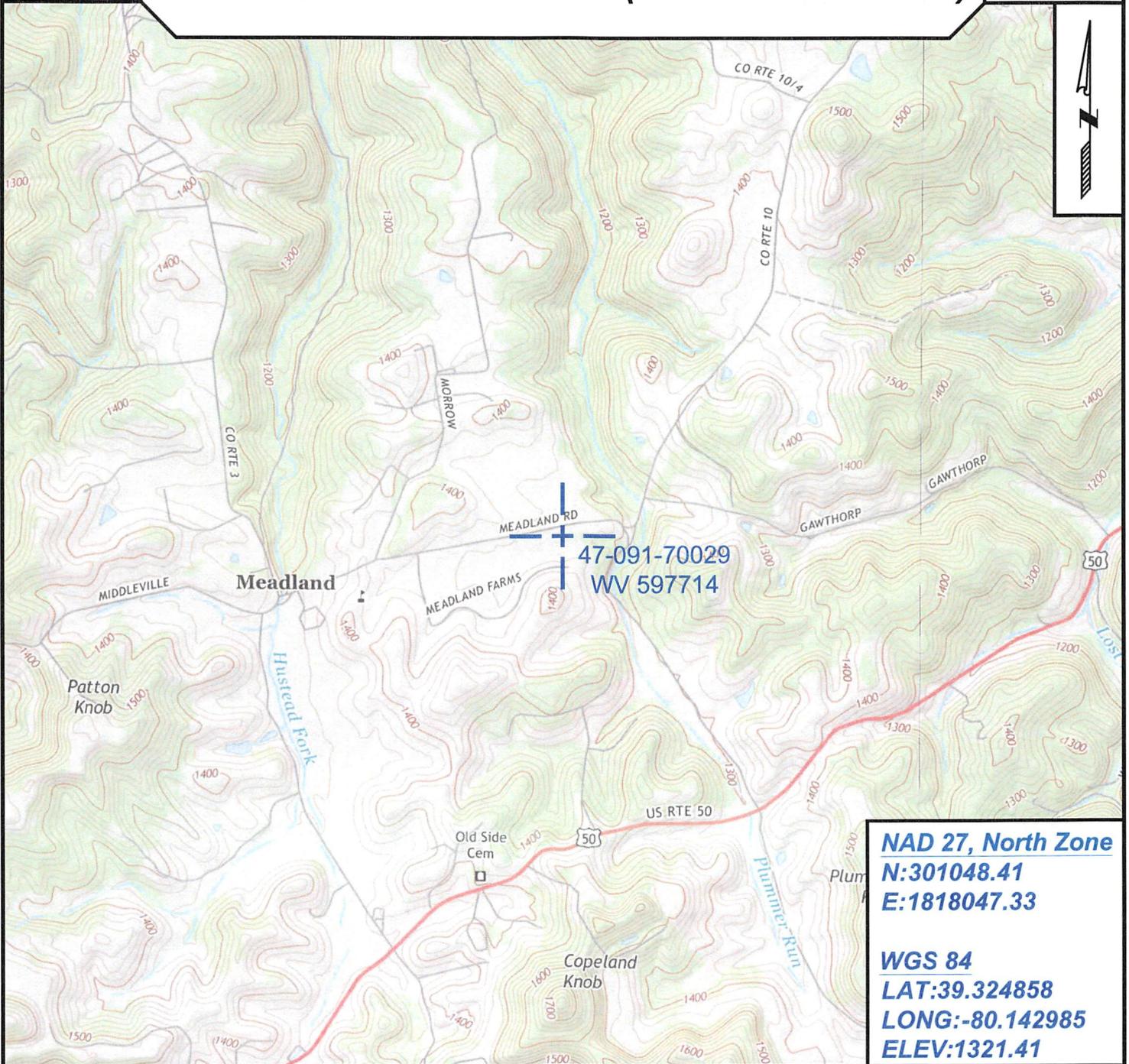
Date: January 11, 2021

District: Booths Creek

Project No: 206-13-00-16

47-091-70029 WV 597714 (U. S. Morrow #222)

Topo



NAD 27, North Zone
N:301048.41
E:1818047.33

WGS 84
LAT:39.324858
LONG:-80.142985
ELEV:1321.41



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

400 Woodcliff Drive
 Canonsburg, PA 15317

WW-7
8-30-06

4709101362P

PREVIOUS API 47-091-70029



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

API: 47-091-70029 WELL NO.: WV 597714 (U. S. Morrow #222)

FARM NAME: U. S. Morrow

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Taylor DISTRICT: Booths Creek

QUADRANGLE: Rosemont 7.5'

SURFACE OWNER: Justin Darrah and Andrea Darrah

ROYALTY OWNER: C. Terry Morrow and Patreciators of C. Terry Morrow Trust

UTM GPS NORTHING: 4353178

UTM GPS EASTING: 573870 GPS ELEVATION: 403 m (1321 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 X : Post Processed Differential X
 Real-Time Differential _____

- 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

1/11/2021
Date

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Via Email

January 20, 2021

West Virginia Department of Environmental Protection
Office of Oil and Gas
Attn: Jeff McLaughlin
601 57th Street, SE
Charleston, WV 25304

**RE: Application for a Permit to Plug & Abandon
 597714 U S Morrow #222
 API 47-091-70029
 Booths Creek District, Taylor County, WV**

WVDEP Recipient,

Attached is EQT Production Company's application for a permit to plug and abandon for the well referenced above.

EQT Production trusts that if any portion of the submitted documentation is found to be inadequate for processing the permit, notification will be made to our land department at your earliest convenience. It is EQT Production's intent to cooperate fully to provide any additional requested documentation and clarification in a timely manner such that permitting proceeds in a predictable and logical manner.

Sincerely,

Becky Shrum
Project Specialist – Permitting
bshrum@eqt.com
724-271-7314

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