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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, June 14, 2021  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

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

Re: Permit approval for 630  
47-103-00671-00-00

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

A blue ink signature of James A. Martin, written in a cursive style, is positioned above the printed name and title.

Operator's Well Number: 630  
Farm Name: HENTHORN, W.  
U.S. WELL NUMBER: 47-103-00671-00-00  
Vertical Plugging  
Date Issued: 6/14/2021

Promoting a healthy environment.

06/18/2021

## 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.

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### CONDITIONS

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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 within two years of the date of issuance of this permit.

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 \_\_\_\_/ ShallowX

5) Location: Elevation 1131' Watershed Fishing Creek  
District Grant County Wetzel Quadrangle Big Run 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 3/31/21

06/18/2021

## PLUGGING PROGNOSIS

Henthorn W-630 (452431)  
 Wetzel, WV  
 District, Grant  
 API # 47-103-00671

BY: Craig Duckworth  
 DATE : 8/27/18

**CURRENT STATUS:**

10" csg @ 534' (pulled)  
 8 1/4" csg @ 1395' (pulled)  
 6 5/8" csg @ 2004' 2005' }  
 5 3/16" csg @ 2353' 2348' } FROM REPAIR RECORD  
 2 3/8" tbg @ 2984' 3026' } DATED 2/11/17

Elevation @ ~~????~~ 1131'

TD: 2984'

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Fresh Water @ None Reported    Coal @ 745'-750'  
 Saltwater @ None Reported  
 Gas shows @ 2012', 2932', 2942'  
 Oil shows @ None Reported

1. Notify State Inspector, **Derek Haught 304-206-7613**, 48 hrs. prior to commencing operations.
2. Check TD w/wireline
3. Attempt to pull 2 3/8" if unable to pull. Run bond log to find freepoint of 2 3/8". (Gas shows 2012', 2932', 2950')
4. TIH w/tbg to 2980', set 300' C1A cement plug from 2980' to 2680'. (Gas show @ 2942', 2932')
5. TOOH w/tbg to 2680' gel hole 2680' to 2403'.
6. TOOH w/tbg, Free point 5 3/16" csg (@ 2353'), cut csg @ free point, TOOH w/csg
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. TIH w/tbg to 2303' gel hole 2303' to 2004'.
9. TOOH w/tbg, Free point 6 5/8" csg (@ 2004'), cut csg @ free point, TOOH w/csg.
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. TIH w/tbg to 2004' set 200' C1A cement plug from 2004' to 1804', (6 5/8" csg)

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- 12. TOOH w/tbg to 1804' gel hole 1804' to 1450'.
- 13. Set 200' C1A cement plug 1450' to 1250'. (Original 8 1/4" csg location @ 1395' before it was pulled).
- 14. TOOH w/tbg to 1250' gel hole from 1250' to 800'.
- 15. Set 100' C1A cement plug, 800' to 700'. (Coal @ 745'-750')
- 16. TOOH w/tbg to 700' gel hole from 700' to 535'. SET 100' C1A CEMENT PLUG FROM 535' - 435' 10" CASING SEAT.
- 17. TOOH w/tbg to 200', set 200' C1A cement plug, 200' to 0'
- 18. Erect monument with API#, Date plugged, EQT
- 19. Reclaim location and road to WV-DEP specifications.

★

★ SET 100' C1A CEMENT PLUG ACROSS 10" CASING SEAT.

g h m

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# Hope Natural Gas Company

4710300671P  
Pine Grove Dist.

Well No: 630

## REPAIR RECORD

Farm Name: W. O. Henthorn

N 8 S E 8 W

Repairs Commenced: June 3rd, 1946

Repairs Completed: 8/11/47

### CASING AND TUBING RECORD

Size	Before Repairs	Pulled	Put in Well	After Repairs	Disposition of Amount Pulled
6-5/8"	2005-0	none	none	2005-0	
5-3/16"	2353-0	2115-0	2110-0	2348-0	
8" Tubg	3005-0	3005-0			
2-3/8"			3026-0	3026-0	

### SHOOTING RECORD

Date	Quarts	Top of Shell	Bottom of Shell	Diameter	Sand	TEST BEFORE SHOT			TEST AFTER SHOT			Test Taken After Shot No. Hours	By Whom Shot	
						Reading	Liquid	Opening	Reading	Liquid	Opening			

### RECORD OF ANY DEEPER DRILLING

Formation	Top	Bottom	Names of Drillers		Time (Days)
			Top	Bottom	
			Robert E Bell		160
			John H Calvert		13
			Names of Tool Dressers		Time (Days)
			Charles U Henderson		160
			Millard R Wolfe		10
			James R. Homer		3

### PACKER RECORD

(ALSO NOTE BELOW IF ANY PACKERS ARE PULLED)

Size	Kind	Anchor	Am
5 7/8" x 5 7/8"	Cont Wall Anchor	one foot	17
5-3/16x2	Par Comb	78	29
5 3/16 x 2	Seed Bag Packer	74	29

### OIL AND GAS DISCOVERIES IN DEEPER DRILLING

Oil at	Well Book
Gas at	Lesson Book

### VOLUME AND PRESSURE REPORT

BEFORE REPAIRS				AFTER REPAIRS	
Date	Liquid	Opening	Rock or Minute Pressure	Line Map	Sheets
1-29-1947	Mercury	72.400	1" FM		
1-29-1947	Casing. Do	302.85	oil ft		

### VOLUME TEST

Date of Test	Flow Meter or Open Flow	Size of Opening	PITOT TUBE		OPEN FLOW	Sands Gas From
			Reading	Liquid Used		
1/29/1947	FM	1/4"	no test	water		
1/29/1947	FM	1"	5/10	water (16339cuft)		No record
1/29/1947	FM	1"	88/10	water		Gordon Stray

### PRESSURE TEST

Date of Test	Opening	1 Min.	2 Min.	3 Min.	4 Min.	5 Min.	6 Min.	7 Min.	8 Min.	9 Min.	10 Min.	30 Min.	60 Min.
1-29-47	6-5/8"	0	0	0	0	0	0	0	0	0	0	0	0
1-29-47	5-3/16"	0	1	2	3	3	4	5	6	7	8	21	40
1-29-47	2-3/8"	7	11	16	21	26	30	34	38	41	44	53	64

OIL: From NONE Sand

Estimated Production \_\_\_\_\_ Bbl. per Day

Remarks:

Office of Oil and Gas

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WV Department of Environmental Protection

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103-671



# WELL RECORD.

4720300671P  
 452431  
 4720300671P  
 4720300671P

W.C. Denthorn ..... Farm ..... Acres  
 Grant ..... District ..... Wetzel ..... County ..... W. Va. .... State  
 Well No. #1 .....  
 Rig Commenced ..... 190 ..... } Chas H. Smith ..... Contractor  
 Rig Completed ..... 190 ..... }  
 Drilling Commenced June 6 ..... 1904 ..... }  
 Drilling Completed Aug 12 ..... 1904 ..... } Simpson Bros + Chapin ..... Contractor

ROCK FORMATION.	TOP.	BOTTOM.	REMARKS.
Conductor		16	
Pak Coal	745	750	Steel line meas.
Dunkard Sand	1393	1423	
Salt	1620	1920	
Maxon	2000	2035	
Gas	2012		
Blg lime	2060	2125	
" Injyn	2125	2285	" " "
Fifty foot	2674		
Red Rock	2772	2812	
Stray	2919	2935	
Gas	2932		
Gordon	2935	2957	" " "
Gas	2942	2950	
Total Depth		2963	" "

CASING RECORD.

Else.	Charged to Well.		Put in Well.		Pulled Out.		Left in Well.		Transferred Before Completion.		Left at Well, Not in Use.	
	Feet	In	Feet	In	Feet	In	Feet	In	Feet	In	Feet	In
10			534		534							
8 1/4			1395		1395							
6 3/8			2004	8			2004	8				
5 1/16			2353				2353					
2'			2984									

Production First 24 Hours } ..... Bbls. Approved by R. F. McArthur ..... Sup't.

PROV. - Num of Three right hand columns equals First or "Charged to Well,"  
 Use as many sheets as necessary to make a complete record.

O.C.R.

API -103-0671

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Hope Natural Gas Co.

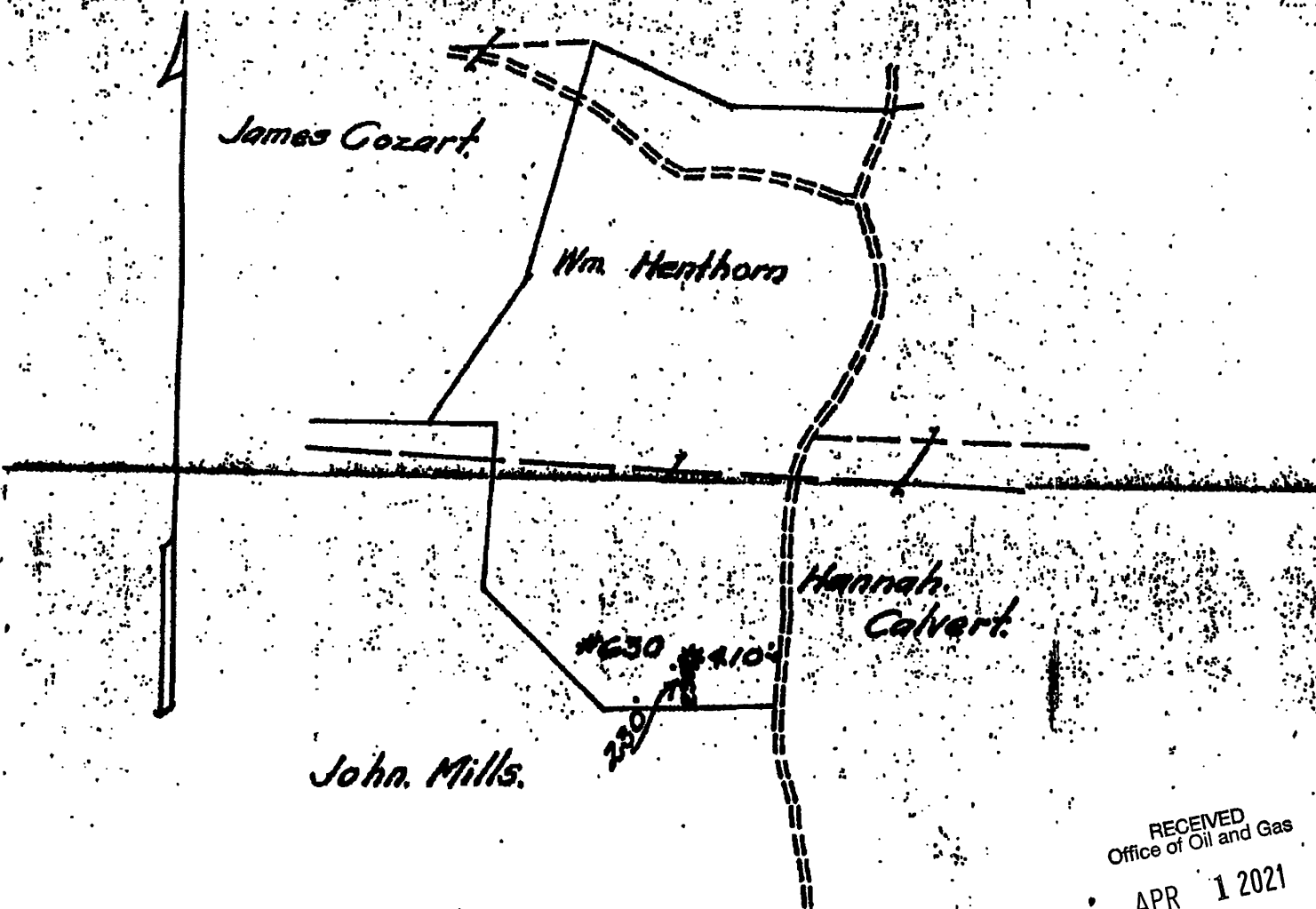
LOCATION FOR WELL No. 630

Pine Grove DISTRICT.

On W.C. Henthorn Farm, on waters of Richwood Run  
Grant District, Wetzel County, West Virginia.

Lease No. 22506 Acres 100 Range: N. 8 S. 2 E. W. 11

Scale: 1" = 800' Made: Feb 5 1909



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API-103-0471

ENTERED  
LINE MAP  
3-3-1909  
BY G.S.

LOCATION MADE 2-5-1909  
BY G.E. Blunt  
As per plat? Except as noted  
On Field Map  
Returned to burg 19

RESERVE:.....06/18/2021

SPECIAL INSTRUCTIONS:.....



WW-4A  
Revised 6-07

1) Date: March 30, 2021  
 2) Operator's Well Number  
452431 Henthom W-630  
 3) API Well No.: 47 - 103 - 00671

**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>Coastal Forest Resources Co</u>	Name _____
Address <u>PO Box 709</u>	Address _____
<u>Buckhannon, WV 26201</u>	
(b) Name <u>Ralph Dulaney</u>	(b) Coal Owner(s) with Declaration
Address <u>3223 Richwood Run Rd</u>	Name <u>Western Pocahontas Properties</u>
<u>Jacksonburg, WV 26377</u>	Address <u>1035 Third Ave, Suite 300</u>
	<u>Huntington, WV 25701</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>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.

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 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.

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

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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

Subscribed and sworn before me this 30th day of March, 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](mailto:depprivacyofficer@wv.gov).



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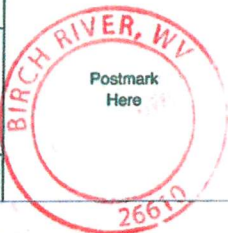
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COASTAL FOREST RESOURCES CO  
PO BOX 709  
BUCKHANNON WV 26201

40-09 452431 HENTHORN - NOTIFICATIONS

PS Form 3800, April 2019

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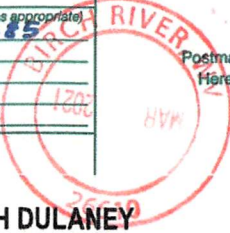
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RALPH DULANEY  
3223 RICHWOOD RUN RD  
JACKSONBURG WV 26377

40-09 452431 HENTHORN - NOTIFICATIONS

PS Form 3800, April 2019

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 Adult Signature Required \$ \_\_\_\_\_  
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Postage  
\$ **1.60**

Total Postage and  
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WESTERN POCAHONTAS PROPERTIES  
1035 THIRD AVE SUITE 300  
HUNTINGTON WV 25701

40-09 452431 HENTHORN - NOTIFICATIONS

PS Form 3800, April 2019

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**SURFACE OWNER WAIVER**

4710300671P

Operator's Well  
Number

452431 Henthorn W-630

**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 57<sup>th</sup> 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..."

**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	06/18/2021
			Date _____

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WW-4B

API No.	<u>47-103-00671</u>
Farm Name	<u>W C Henthorn</u>
Well No.	<u>452431 Henthorn W-630</u>

4710300671P

**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.

Date: \_\_\_\_\_

By: \_\_\_\_\_

Its \_\_\_\_\_

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06/18/2021



WW-9  
(5/16)

API Number 47 - 103 - 00671  
Operator's Well No. 452431 Henthorn W-630

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) Fishing Creek Quadrangle Big Run 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  *ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS BEFORE DISPOSING OFF-SITE g/w/m*

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 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 30th day of March, 20 21

*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

4710300671P

**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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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
Red Fescue	40
Aslike Clover	5
Annual Rye	15

Seed Type	lbs/acre
Red Fescue	15
Aslike Clover	5

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: 3/31/21

Field Reviewed? ( ) Yes (X ) No



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Topo Quad: Big Run 7.5'

Scale: 1" = 2000'

County: Wetzel

Date: March 29, 2021

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District: Grant

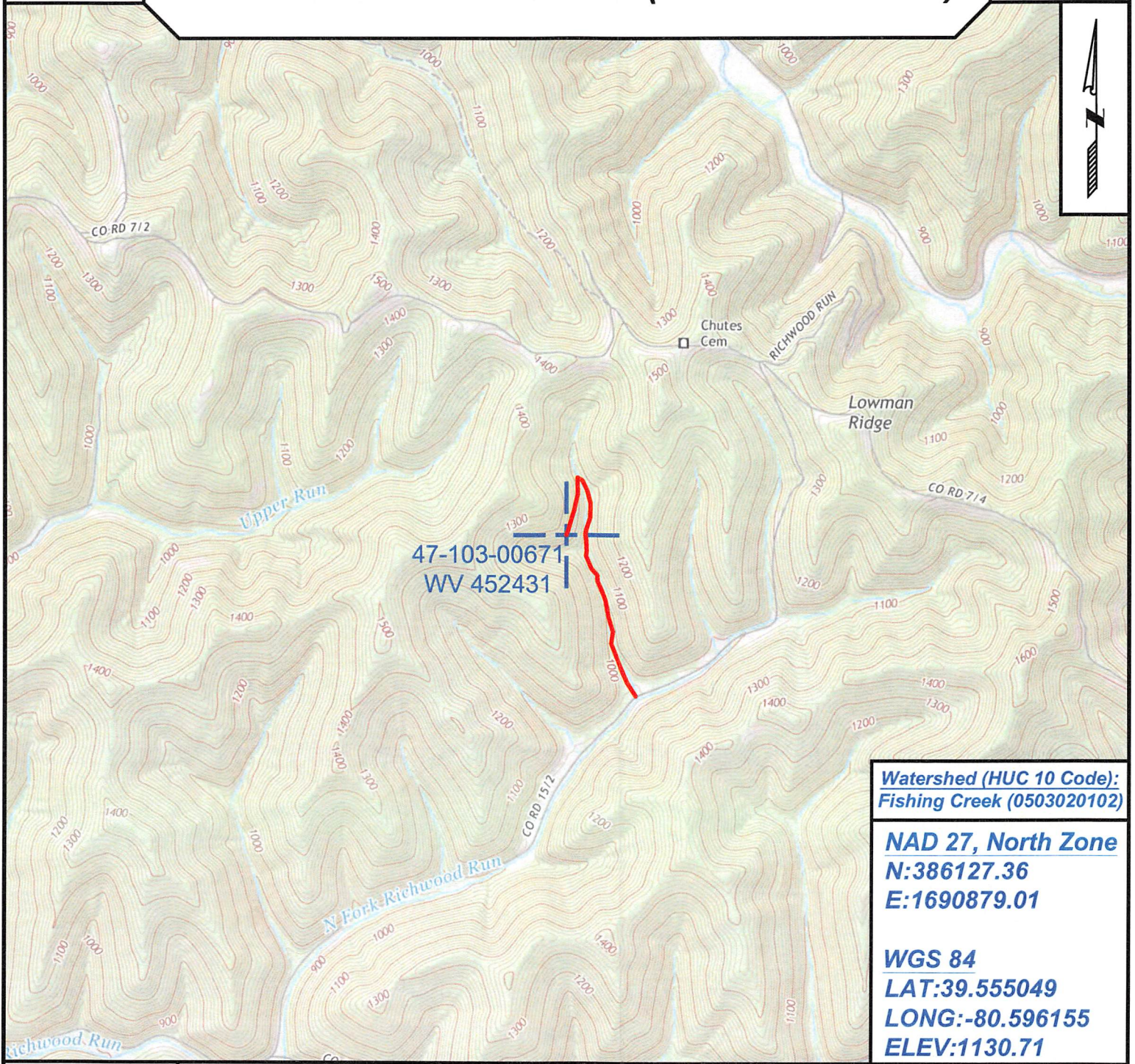
Project No: 40-34-00-09

APR 1 2021

WV Department of  
Environmental Protection

# 47-103-00671 WV 452431 (Henthorn W-630)

Topo



**Watershed (HUC 10 Code):**  
Fishing Creek (0503020102)

**NAD 27, North Zone**  
N:386127.36  
E:1690879.01

**WGS 84**  
LAT:39.555049  
LONG:-80.596155  
ELEV:1130.71



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

06/18/2021





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

API: 47-103-00671 WELL NO.: WV 452431 (Henthorn W-630)

FARM NAME: W. C. Henthorn

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Wetzel DISTRICT: Grant

QUADRANGLE: Big Run 7.5'

SURFACE OWNER: Trans-Allegheny Interstate Line Company

ROYALTY OWNER: Warren Baker, et al.

UTM GPS NORTHING: 4378452

UTM GPS EASTING: 534695 GPS ELEVATION: 344 m (1131 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 \_\_\_\_\_

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

3/29/2021  
Date

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**Site Pictures**  
**Henthorn W-630**  
**WV 452431 47-103-00671**



WV 452431 Well ID Sign



WV 452431 Well Pad Site



WV 452431 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 RHL Boulevard - Suite 5  
Charleston, WV 25309  
phone: 304-756-2949 fax: 304-756-2948



4710300671P



400 Woodcliff Dr | Canonsburg, PA 15317  
[www.eqt.com](http://www.eqt.com)

**Via Email**

March 31, 2021

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

**RE: Application for a Permit to Plug & Abandon  
452431 Henthorn W-630  
API 47-103-00671  
Grant District, Wetzel County, WV**

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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](mailto:bshrum@eqt.com)  
724-271-7314

06/18/2021