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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)

Thursday, August 18, 2022  
WELL WORK PLUGGING PERMIT  
Horizontal 6A Plugging

EQT PRODUCTION COMPANY  
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for MICHAEL 1H  
47-049-02278-00-00

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: MICHAEL 1H  
Farm Name: MICHAEL, WILLIAM J. & JUDY  
U.S. WELL NUMBER: 47-049-02278-00-00  
Horizontal 6A Plugging  
Date Issued: 8/18/2022

Promoting a healthy environment.

08/19/2022

# PERMIT CONDITIONS 47 0 4 9 0 2 2 7 8 P

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

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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.

47 0 4 9 0 2 2 7 8 9

- 1) Date \_\_\_\_\_, 2022
- 2) Operator's  
Well No. Michael 1H
- 3) API Well No. 47-049 - 02278

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 1,397' Watershed Dents Run & Bartholomew Fork  
District Mannington County Marion Quadrangle Glover Gap
- 6) Well Operator EQT Production Company 7) Designated Agent Joseph C. Mallow  
Address 400 Woodcliff Drive Address 427 Midstate Drive  
Canonsburg PA 15317 Clarksburg, WV 26301
- 8) Oil and Gas Inspector to be notified Name Kenneth Greynolds  
Address 613 Broad Run Road  
Jane Lew, WV 26378
- 9) Plugging Contractor Name R&J  
Address 1087 Raccoon Road  
Hueysville, KY 41640

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 Kenneth Greynolds

Digitally signed by: Kenneth Greynolds  
DN: CN = Kenneth Greynolds email = Kenneth.L.Greynolds@wv.gov C = AD O = WVDEP OU = Oil and Gas  
Date: 2022.07.18 10:47:53 -0400

Date \_\_\_\_\_

08/19/2022

47 0 4 9 0 2 2 7 8 P

Michael IH  
Marion Co., WV  
HZ Marcellus well  
API # 47-049-02278  
BY: Tyler Mizgorski  
DATE: 6/27/2022

**CURRENT STATUS:**

Elevation @ 1,390  
20" J-55 94 ppf conductor @ 110' No mention of cement  
13 3/8" J55 54.5 ppf casing @ 1,250' Type 1 Cement to Surface  
9 5/8" J55 - 33 ppf casing @ 3,008' Type 1 Cement to Surface  
5 1/2" P110 - 20 ppf casing @ 12,991' Cemented to Surface

Well Not Completed  
Fresh water @ 60', 150'  
Salt water @ 1,525'  
Coal Show @ 1200'

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- 1) Notify Inspector **Ken Greynolds, (304) 206-6613, [Kenneth.L.Greynolds@wv.gov](mailto:Kenneth.L.Greynolds@wv.gov)** prior to beginning operations.
- 2) Check and record pressure on all casings, notify Engineer of recorded pressures.
- 3) Install 10k wireline BOP. Test BOP's and stack to regs. P/U install 10k lubricator. (**Call 8hrs before, will need crane truck**)
- 4) Equalize lubricator, if necessary and RIH w/ wireline to top of marcellus at 7,778' and set a CIBP above the Marcellus @ 7,728' MD. If unable to get to set depth, EQT office will call DEP to discuss options.
- 5) Hook up pump truck and pressure test lines to 8000 psi. (**Call pump truck 8hrs before**)
- 6) POOH w/ wireline and load well with 6% gel if not full. Perform CIT with pump truck to 2000 psi. Ensure leak-off is not more than 10% in thirty minutes per regulation.
- 7) RIH and set second CIBP 10' above the first
- 8) POOH w/ wireline and load well with 6% gel if not full. Perform CIT with pump truck to 2000 psi. Ensure leak-off is not more than 10% in thirty minutes per regulation.
- 9) RIH with Renegade segmented bond log and pull log from CIBP to surface
- 10) TIH with tubing to CIBP.
- 11) Pump 1500' Class A cement plug. 7,718' to 6,218' Pump 500' of cement and pull 500' of tubing 2 times. Pump last 500' section and pull tubing 300' and reverse circulate full hole volume. TOOH 300'
- 12) Let cement dry for 8 hours and tag top of cement. If cement top is at 6,218' or close POOH to 3,150' and set a 500' C1A Cement plug from 3,150' to 2,650'. Pump 500' of cement and pull 500' of tubing. Pull tubing 300' and reverse circulate full hole volume. TOOH 300' (safety plug - 9 5/8" Casing Seat)
- 13) Let cement dry for 8 hours and tag top of cement. If cement top is at 2,650' POOH to 1,400'. Set a 400' C1A cement plug 1,400' to 1000'. TOOH 300' Reverse circulate full hole volume. TOOH 300' (13 3/8" casing seat - Coal Plug)
- 14) Let cement dry for 8 hours.
- 15) TIH with tubing and check TOC. IF at 1000' or close POOH to 350' and set C1A plug 350' to surface (Freshwater, and surface plug)
- 16) Reclaim location and Set Monument above ground to WV-DEP Specifications

Kenneth Greynolds

8/18/22 JQ

08/19/2022



March 9, 2016

John Kearney  
West Virginia Department of Environmental Protection  
Office of Oil and Gas  
601 57th Street, S.E.  
Charleston, WV 25304

RE: WR-35 Well Record Completion Report  
Marion County, West Virginia  
Well Drilled, Not Completed

Dear John:

Enclosed for your records is a WR-35 Well Record Completion Report for Michael 1H well, API# 47-049-02278. This report details the well completion in progress; the well has not been fractured to date.

Should you have any questions, please do not hesitate to contact Leslie Gearhart at (304) 684-7053.

Sincerely,

Carina L. Card  
Land Administrator

clc  
Enclosures

210 2<sup>nd</sup> Street, P.O. Box 393 St. Marys, WV 26170 304.684.7053 Fax 304.684.3658  
[www.transenergyinc.com](http://www.transenergyinc.com)

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State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API: 47-049-02278 County: MARION District: MANNINGTON  
 Quad: GLOVER GAP Pad: MICHAEL Field/Pool Name: MARCELLUS SHALE  
 Farm name: BLACKSHERE WELL NAME: MICHAEL 1H  
 Operator (as registered with the OOG): TRANS ENERGY, INC.  
 Address: P. O. BOX 393 City: ST. MARYS State: WV Zip: 26170

As Drilled Location NAD 83/UTM \*\*\* SEE ATTACHED AS-BUILT WELL LOCATION MAP \*\*\*

Top hole	Northing	<u>4376918</u>	Easting	<u>550369</u>
Landing Point of curve	Northing	<u>4378667</u>	Easting	<u>550540</u>
Bottom hole	Northing	<u>4376918</u>	Easting	<u>550920</u>

Elevation (ft): 1390' Type of Well: NEW Type of Report: INTERIM

Permit Type: HORIZONTAL 6A Depth Type: SHALLOW

Type of Operation: DRILL

Well Type: GAS

Type of Completion: SINGLE Fluids Produced: BRINE, GAS, NGL and OIL

Drilled With: ROTARY

Drilling Media: MUD Intermediate hole: MUD

Production hole: MUD

Mud Type(s) and Additive(s) MUD TYPE - SYNTHETIC BASE DRILLING MUD

ADDITIVES:	Calcium Carbonate	Hydrated Lime	Synvert Synthetic 1-L	Citric Acid	Drispac Low Vls
	Calcium Chloride	Cedar Fiber	Bentonite	Sodium Bicarbonate	L-20C
	Synvert LEM	Rubber Crumb	Soda Ash, dense	Glycerine	Blodclear
	Synvert Synthetic WA-L	Cottonseed Hulls	Lignite	Desco	
	Barite	Synvert Synthetic 11-L	Aluminum Sterate	Caustic Soda Beads	

Date permit issued: 03/13/2014 Date drilling commenced: 11/28/2014 Date drilling ceased: 1/20/2015

Date completion activities began: N/A Date completion activities ceased: N/A

Verbal plugging: N/A Date permission granted: N/A Granted by: N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug.

Fresh water depth (s) ft: 60', 150' Open mine(s) (Y/N) depths: N

Salt water depth(s) ft: 1525' Void(s) encountered (Y/N) depths: N/A

Coal Depth(s) ft: 1200' Cavern(s) encountered (Y/N) depths: N

Is coal being mined in area (Y/N) N

Reviewed by: \_\_\_\_\_

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API: 47-049-02278 WELL NAME: MICHAEL 1H

CASING STINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) Provide details below.
Conductor	24"	20"	110'	NEW	J-55 / 94	-	-
Surface	17 1/2"	13 3/8"	1250'	NEW	J-55 / 54.5	-	YES
Coal	-	-	-	-	-	-	-
Intermediate 1	12 1/4"	9 5/8"	3,008'	NEW	J-55 / 33	-	YES
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	8 3/4"	5 1/2"	12,991'	NEW	P-110 / 20	-	YES
Tubing	-	-	-	-	-	-	-
Packer type and Depth Set							

Comment Details:

CEMENT DATA	Class / type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	-	-	-	-	-	-	-
Surface	TYPE 1	930	15.2	1.2	-	SURFACE	12
Coal	-	-	-	-	-	-	-
Intermediate 1	TYPE 1	970	9.5	1.2	1300'	SURFACE	12
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	CLASS H	1380, 1130	13.5, 15.6	1.35, 1.19	1823, 1405	SURFACE	10
Tubing	-	-	-	-	-	-	-

Drillers TD (ft): 16,328' Loggers TD (ft): 16,327'  
 Deepest formation penetrated: MARCELLUS SHALE Plug back to (ft): 13,843'  
 Plug back procedure: LEFT FISH IN HOLE TOP @ 14,000'; RAN CASING TO 13,843' AND CEMENTED.

Kick off depth (ft) 3,101'  
 Check all wireline logs run:  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored? NO Were cuttings collected? NO  
 DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING

FRESH WATER STRING - 1 CENTRALIZER EVERY 160'  
INTERMEDIATE STRING - 1 CENTRALIZER EVERY 100' FROM 3300' TO 900'  
PRODUCTION STRING - 1 CENTRALIZER EVERY 80' FROM TD TO ABOVE ROP

WAS WELL COMPLETED AS SHOT HOLE? YES DETAILS: \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE? NO DETAILS: \_\_\_\_\_

WERE TRACERS USED? NO TYPE OF TRACER(S) USED: N/A

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API: 47-049-02278 WELL NAME : MICHAEL 1H

PRODUCING FORMATION(S) MARCELLUS SHALE DEPTHS 7850' TVD 13843' MD

GAS TEST: N/A OIL TEST: N/A

SHUT-IN Surface: \_\_\_\_\_ psi Bottom hole: \_\_\_\_\_ psi DURATION OF TEST: \_\_\_\_\_ hrs

OPEN FLOW  
 GAS: \_\_\_\_\_ mcfpd OIL: \_\_\_\_\_ bpd NGL: \_\_\_\_\_ bpd WATER: \_\_\_\_\_ bpd  
 GAS MEASURED BY: **ESTIMATED**

LITHOLOGY / FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC)
SAND	<u>1546'</u>	<u>1614'</u>			
MAXTON	<u>1958'</u>	<u>1993'</u>			
BIG INJUN	<u>2075'</u>	<u>2161'</u>			
BEREA	<u>2283'</u>	<u>2316'</u>			
GORDON	<u>2715'</u>	<u>2780'</u>			
BENSON	<u>4785'</u>	<u>4821'</u>			
MIDDLESEX	<u>7408'</u>	<u>4912'</u>			
BURKETT	<u>7612'</u>	<u>6884'</u>			
TULLY	<u>7650'</u>	<u>6988'</u>			
MARCELLUS	<u>7778'</u>	<u>7080'</u>			
ONONDAGA	<u>7842'</u>				

Please insert additional pages as applicable.

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API: 47-049-02278 WELL NAME: MICHAEL 1H

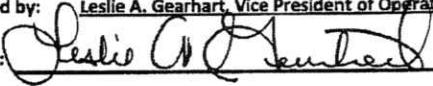
Drilling Contractor: HELMERICH & PAYNE DRILLING INC.  
Address: 912 N EAGLE VALLEY ROAD City: HOWARD State: PA Zip: 16841

Logging Contractor: BAKER HUGHES  
Address: P. O. BOX 301057 City: DALLAS State: TX Zip: 75303

Cementing Company: BAKER HUGHES  
Address: P. O. BOX 301057 City: DALLAS State: TX Zip: 75303

Stimulating Company: N/A  
Address: City: State Zip:

Completed by: Leslie A. Gearhart, Vice President of Operations Telephone: 304/684-7053

Signature:  DATE: 3-4-16

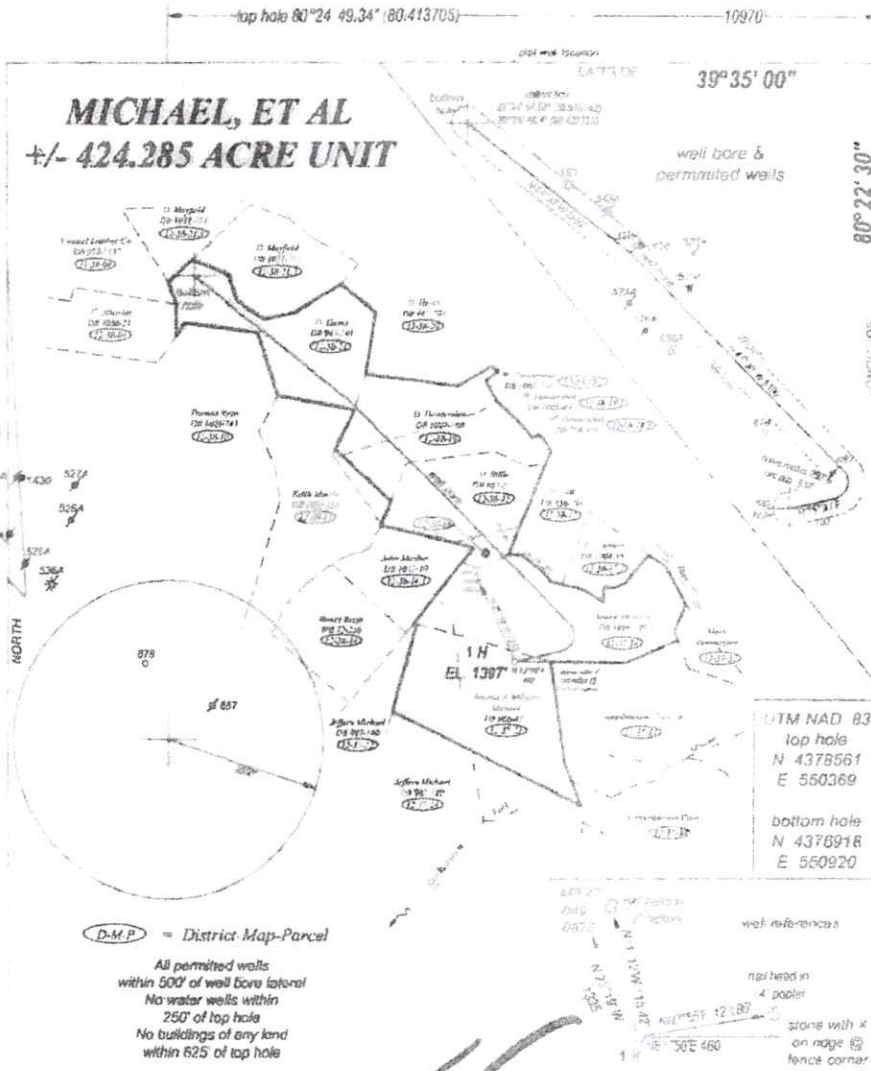
**\*\*NO ATTACHMENT FOR HYDRAULIC FRACTURING FLUID - WELL HAS NOT BEEN FRACTURED YET\*\***

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**D-M-P** = District Map-Parcel

All permitted walls  
within 500' of well bore lateral  
No water wells within  
250' of top hole  
No buildings of any kind  
within 625' of top hole

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 1500'  
MINIMUM DEGREE  
OF ACCURACY 1, 2500  
PROVEN SOURCE  
OF ELEVATION GPS  
OBSERVATION

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS  
PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE  
AND BELIEF AND SHOWS ALL THE INFORMATION  
REQUIRED BY ALL THE REGULATIONS ISSUED  
AND PRESCRIBED BY THE DEPARTMENT OF ENERGY  
(STATE OF WEST VIRGINIA)  
\_\_\_\_\_  
PROFESSIONAL SURVEYOR



STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
DIVISION OF OIL AND GAS

DATE DECEMBER 23TH 2018  
OPERATORS WELL NO. MICHAEL TH

API 47 - 049 -  
STATE COUNTY PERMIT

WELL TYPE OIL XX GAS XX LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
(IF GAS) PRODUCTION XX STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW XX

LOCATION ELEVATION 1387 WATER SHED DENTS RUN & BARTHOLOMEW FORK  
DISTRICT MANNINGTON COUNTY MARION QUADRANGLE GLOVER GAP

SURFACE OWNER JUANITA O. MICHAEL & WILLIAM J. MICHAEL ACREAGE 95  
OIL & GAS ROYALTY HAYES, ET AL. LEASE AC +/- 224.285

PROPOSED WORK DRILL XX CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_  
FRACTURE OR STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_  
PERFORATE NEW FORMATION \_\_\_\_\_  
OTHER PHYSICAL CHANGE IN WELL \_\_\_\_\_  
PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_

TARGET FORMATION MARCELLUS SHALE ESTIMATED DEPTH 7200'

WELL OPERATOR TRANS ENERGY, INC. DESIGNATED AGENT JOHN BAGLEY  
ADDRESS P. O. BOX 392 ADDRESS P. O. BOX 392  
ST. MARYS, WV 26170 ST. MARYS, WV 26170

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08/19/2022

1) Date: \_\_\_\_\_, 2022  
2) Operator's Well Number  
Michael 1H  
3) API Well No.: 47 - 049 - 02278

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

<b>4) Surface Owner(s) to be served:</b>	<b>5) (a) Coal Operator</b>
(a) Name <u>See Attached List</u>	Name <u>See Attached List</u>
Address _____	Address _____
(b) Name _____	<b>(b) Coal Owner(s) with Declaration</b>
Address _____	Name <u>See Attached List</u>
(c) Name _____	Address _____
Address _____	Name _____
<b>6) Inspector</b> <u>Kenneth Greynolds</u>	<b>(c) Coal Lessee with Declaration</b>
Address <u>613 Broad Run Road</u>	Name _____
<u>Jane Lew, WV 26378</u>	Address _____
Telephone <u>304-206-6613</u>	_____

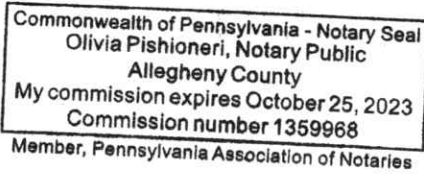
**TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:**

- (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	<u>EQT Production Company</u>
By:	<u>John Zavatchan</u>
Its:	<u>Project Specialist - Permitting</u>
Address	<u>400 Woodcliff Drive</u>
	<u>Canonsburg PA 15317</u>
Telephone	<u>412-584-3132</u>



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JUL 28 2022

Subscribed and sworn before me this 26<sup>th</sup> day of July, 2022  
 \_\_\_\_\_ Notary Public  
 My Commission Expires October, 25, 2023

WV Department of Environmental Protection

**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 [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).

08/19/2022

## Michaels Pad Owner Info

**Pad Owner:**

David J. Michael  
669 Colonial Drive  
Morgantown, WV 26505

John J. Michael  
10 Whispering Pine Drive  
White Hall, WV 26554

Christine L. Fragale, Ronald A. Fragle, Veronica C. Fragle.  
503 E Main St.  
Clarksburg, WV 26301

**Access Road Owner and Part of Pad:**

James D. Atkinson  
15 Smokey Valley Rd.  
Mannington, WV 26582

**Coal Owners:**

David J. Michael  
669 Colonial Drive  
Morgantown, WV 26505

John J. Michael  
10 Whispering Pine Drive  
White Hall, WV 26554

Christine L. Fragale, Ronald A. Fragle, Veronica C. Fragle.  
503 E Main St.  
Clarksburg, WV 26301

Cesar Atilio Brol Valencia & Melania Higginbotham Arevalo de Brol, his wife  
11136 Collett Ave.  
Granada Hills, CA 91344

WPP LLC  
5260 Irwin Road  
Huntington, WV 25705-3247

Harrison County Coal Resources Inc.  
46226 National Road  
Saint Clairsville, OH 43950

Consol Mining Company LLC  
275 Technology Drive, Suite 101  
Canonsburg, PA 15317-9565

**Coal Operator:**

ACNR Resources Inc.  
46226 National Rd.  
St. Clairsville, OH 43950

4704902278P

7021 2720 0000 9233 0132

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Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 3.25
<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	\$ 3.12
Total Postage and Fees	\$ 10.37



Sent To  
Street and Apt. No.  
City, State, ZIP+4®

DAVID J. MICHAEL  
669 COLONIAL DRIVE  
MORGANTOWN WV 26505

74-08 MICHAEL 1H & 2H - NOTIFICATIONS

PS Form 3800, A

7021 2720 0000 9233 0057

U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
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For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

OFFICIAL USE

Certified Mail Fee	\$ 4.00
Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 3.25
<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	\$ 3.12
Total Postage and Fees	\$ 10.37



Sent To  
Street and Apt. No.  
City, State, ZIP+4®

JOHN J. MICHAEL  
10 WHISPERING PINE DRIVE  
WHITE HALL WV 26554

74-08 MICHAEL 1H & 2H - NOTIFICATIONS

PS Form 3800, A

7021 2720 0000 9233 0064

U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
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For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$
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Total Postage and Fees	\$ 10.37



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CHRISTINE L. FRAGALE,  
RONALD A. FRAGLE,  
VERONICA C. FRAGLE  
503 E MAIN ST.  
CLARKSBURG WV 26301

74-08 MICHAEL 1H & 2H - NOTIFICATIONS

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$
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JAMES D. ATKINSON  
15 SMOKEY VALLEY RD.  
MANNINGTON WV 26582

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CESAR ATILIO BROL VALENCIA  
& MELANIA HIGGINBOTHAM  
AREVALO DE BROL  
11136 COLLETT AVE.  
GRANADA HILLS CA 91344

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WPP LLC  
5260 IRWIN ROAD  
HUNTINGTON WV 25705-3247

74-08 MICHAEL 1H & 2H - NOTIFICATIONS

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$
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**HARRISON COUNTY  
 COAL RESOURCES INC.  
 46226 NATIONAL ROAD  
 SAINT CLAIRSVILLE OH 43950**

74-08 MICHAEL 1H & 2H - NOTIFICATIONS

PS Form 3800, April 2015 PSN 7530-02-000-9047



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<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	\$ 3.12
<b>Total Postage and Fees</b>	<b>\$ 10.37</b>

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 City, State, ZIP+4®

**CONSOL MINING COMPANY LLC  
 275 TECHNOLOGY DRIVE, SUITE 101  
 CANONSBURG PA 15317-9565**

74-08 MICHAEL 1H & 2H - NOTIFICATIONS

PS Form 3800, April 2015 PSN 7530-02-000-9047



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<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	\$ 3.12
<b>Total Postage and Fees</b>	<b>\$ 10.37</b>

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**ACNR RESOURCES INC.  
 46226 NATIONAL RD.  
 ST. CLAIRSVILLE OH 43950**

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



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 JUL 28 2022  
 WV Department of  
 Environmental Protection

08/19/2022



**SURFACE OWNER WAIVER**

Operator's Well  
Number

Michael 1H

**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,

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JUL 28 2022

\_\_\_\_\_  
Signature Date \_\_\_\_\_ Name

By  
Its

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature WV Department of Environmental Protection Date

08/19/2022

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WW-4B

API No. 47-049-02278  
Farm Name MICHAEL  
Well No. 1H

**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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Environmental Protection

08/19/2022

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) Dents Run & Bartholomew Fork Quadrangle Glover Gap

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

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? \_\_\_\_\_

Permittee shall provide written notice to the Office of 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 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 [Signature]

Company Official (Typed Name) John Zavatchan

Company Official Title Project Specialist - Permitting

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Subscribed and sworn before me this 26<sup>th</sup> day of July, 2022

WV Department of Environmental Protection

[Signature] Notary Public

My commission expires October 25, 2023

Commonwealth of Pennsylvania - Notary Seal  
Olivia Pishioneri, Notary Public  
Allegheny County  
My commission expires 08/19/2022  
Commission number 1359968  
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: Kenneth Greynolds  
Digitally signed by Kenneth Greynolds  
DN: CN = Kenneth Greynolds email = Kenneth.L.Greynolds@wv.gov C  
= AD O = WVDEP OU = Oil and Gas  
Date: 2022.07.18 10:48:31 -0400

Comments: \_\_\_\_\_

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

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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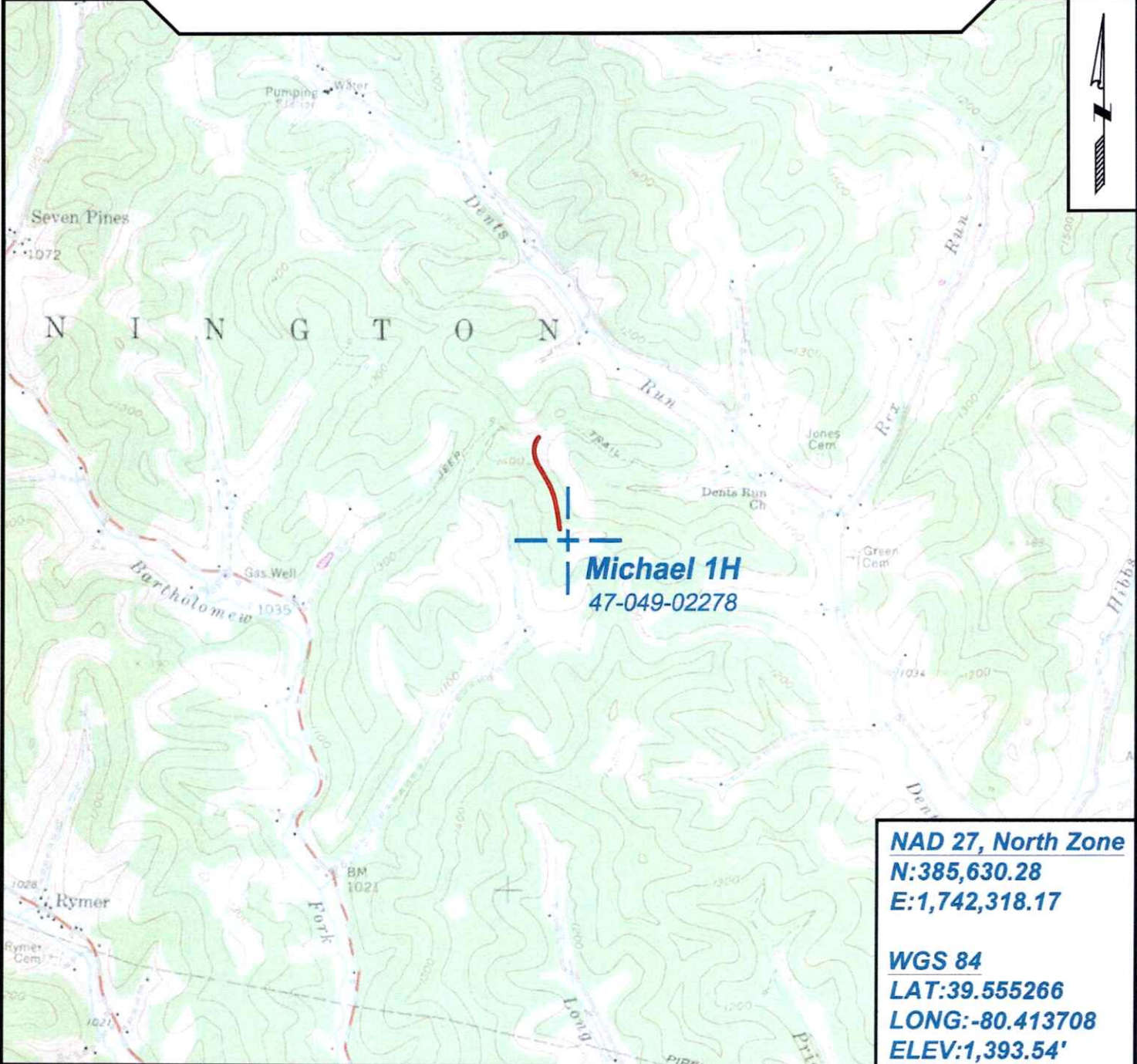
Topo Quad: Glover Gap 7.5' Scale: 1" = 2000'

County: Marion Date: January 04, 2022

District: Mannington Project No: 74-18-00-08

# Michael 1H - 47-049-02278

Topo



**NAD 27, North Zone**  
**N:385,630.28**  
**E:1,742,318.17**

**WGS 84**  
**LAT:39.555266**  
**LONG:-80.413708**  
**ELEV:1,393.54'**



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

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 Office of Oil and Gas  
 400 Woodcliff Drive  
 Canonsburg, PA 15317

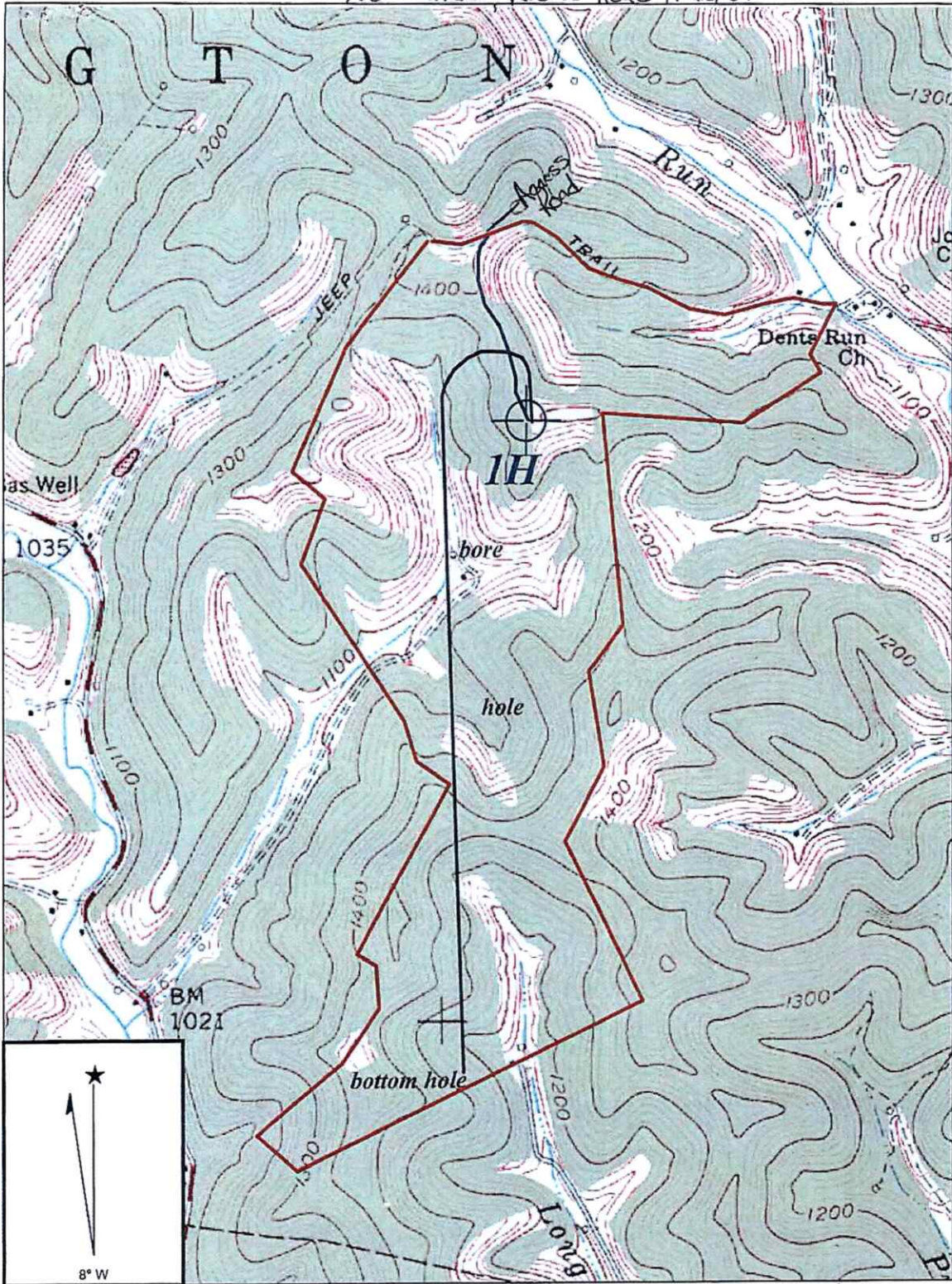
JUL 28 2022

08/19/2022

WV Department of Environmental Protection

4704902218T  
49-02278

No Water - Access Road Marked



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**GLOVER GAP QUADRANGLE**

SCALE 1" = 1000'

**TRANS ENERGY, INC.**

WELL: MICHAEL 1 H  
MICHAEL, ET AL +/- 386.5 ACRE UNIT

MANNINGTON DISTRICT MARION COUNTY WEST VIRGINIA

WRH  
10-17-13

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

API: 47-049-02278 WELL NO.: Michael 1H

FARM NAME: Michael

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Marion DISTRICT: Mannington

QUADRANGLE: Glover Gap 7.5'

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AUG 17 2022

SURFACE OWNER: Juanita O. Michael & William J. Michael

WV Department of  
Environmental Protection

ROYALTY OWNER: Hayes, et al.

UTM GPS NORTHING: 4378562

UTM GPS EASTING: 550369 GPS ELEVATION: 425 m (1394 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.

*Ben R. Stoltz*  
Signature

*P.S. 2092*  
Title

*8-17-22*  
Date



4704902278P

bottom hole 80°24' 26.7" (80.407417) 15600'  
top hole 80°24' 49.34" (80.413705) 10970'

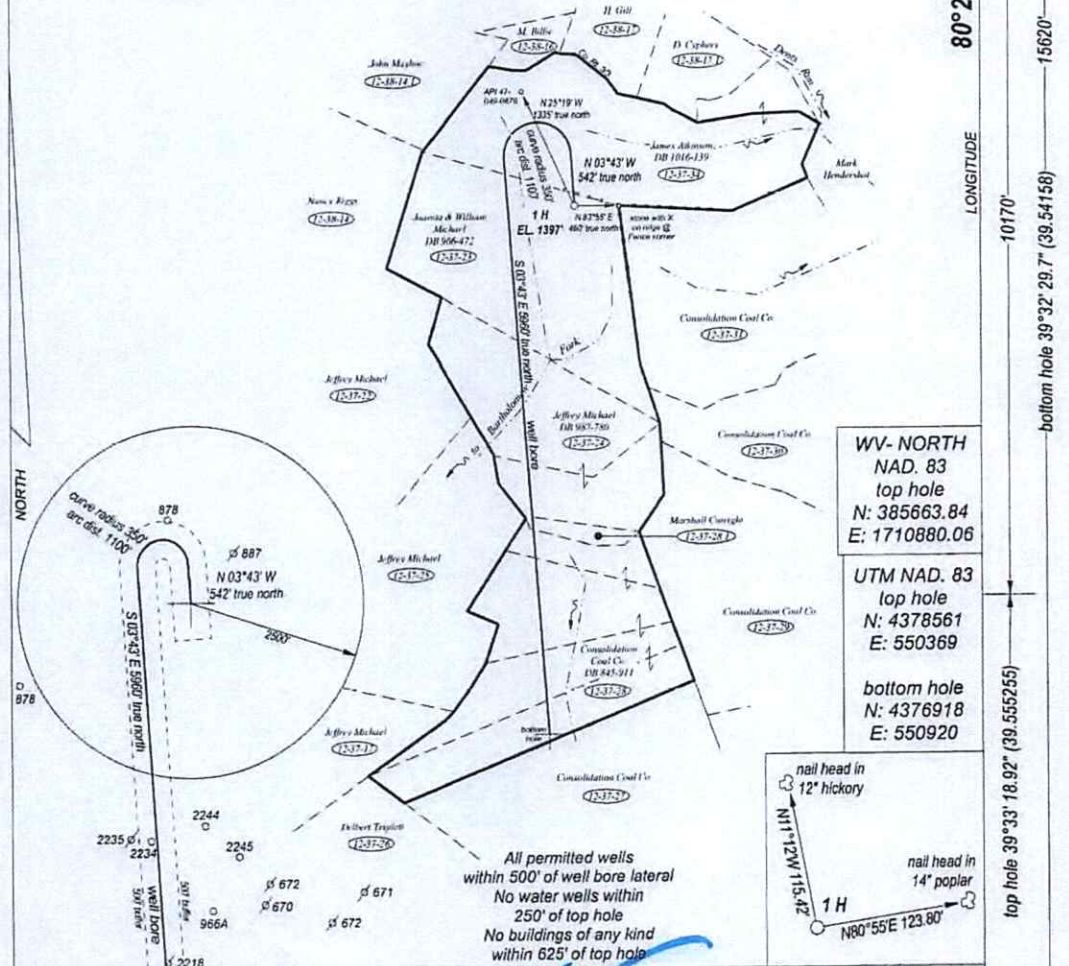
# MICHAEL, ET AL

+/- 386.5 ACRE UNIT

(D-M-P) = District-Map-Parcel

LATITUDE 39°35' 00"

LONGITUDE 80°22' 30"

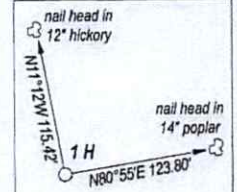


WV-NORTH  
NAD. 83  
top hole  
N: 385663.84  
E: 1710880.06

UTM NAD. 83  
top hole  
N: 4378561  
E: 550369

bottom hole  
N: 4376918  
E: 550920

All permitted wells  
within 500' of well bore lateral  
No water wells within  
250' of top hole  
No buildings of any kind  
within 625' of top hole



FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 1500'  
MINIMUM DEGREE OF ACCURACY 1 : 2500  
PROVEN SOURCE OF ELEVATION GPS  
OBSERVATION

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENERGY.

(SIGNED) \_\_\_\_\_  
PROFESSIONAL SURVEYOR: 551



WRH  
2-28-14

## STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY  
DIVISION OF OIL AND GAS

DATE FEBRUARY 24TH, 2014  
OPERATORS WELL NO. MICHAEL 1H

API 47 - 049 - 02278 HGA  
STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
(IF GAS) PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1397' WATER SHED DENTS RUN & BARTHOLOMEW FORK  
DISTRICT MANNINGTON COUNTY MARION QUADRANGLE GLOVER GAP

SURFACE OWNER JUANITA O. MICHAEL & WILLIAM J. MICHAEL ACREAGE 95  
OIL & GAS ROYALTY HAYES, ET AL LEASE AC +/- 386.5

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL   
FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION   
PERFORATE NEW FORMATION   
OTHER PHYSICAL CHANGE IN WELL   
PLUG AND ABANDON  CLEAN OUT AND REPLUG

TARGET FORMATION MARCELLUS SHALE ESTIMATED DEPTH 7200'

WELL OPERATOR TRANS ENERGY, INC. DESIGNATED AGENT LOREN BAGLEY  
ADDRESS P. O. BOX 393 ADDRESS P. O. BOX 393  
ST. MARYS, WV 26170 ST. MARYS, WV 26170

FORM WV - 6

COUNTY NAME  
PREMIT

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03/14/2014 08/19/2022



**Site Pictures**  
**Michael 1H**  
**47-049-02278**



Michael Well



Michael Well

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Environmental Protection

**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 R.H.L. Boulevard - Suite 5  
Charleston, WV 25309

phone: 304-756-2949 fax: 304-756-2948



Michael Pad Sign



Michael Pad

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Environmental Protection

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EQT PRODUCTION COMPANY  
400 Woodcliff Drive | Canonsburg, PA 15317  
P: 724-746-9073 | [www.eqt.com](http://www.eqt.com)

July 27, 2022

Via FedEx Overnight Delivery

West Virginia Department of Environmental Protection  
Office of Oil and Gas  
Attn: Mr. Jeff McLaughlin  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

RE: Notice of Application to Plug and Abandon a Well  
Michael 1H Well  
Permit Number 47-049-02278  
Mannington District  
Marion County, WV

Mr. McLaughlin:

Attached is EQT Production Company's application for a permit to plug and abandon for the well referenced above. Included with this application you will find the following documents:

- Form WW-4B - Application for a Permit to Plug and Abandon
- Plugging Prognosis
- Form WW-4A - Notice of Application to Plug and Abandon a Well
- Proof of Notification of Interested Parties
- Form WW-9 - Fluids/Cuttings Disposal & Reclamation Plan
- Site Photos
- Previously submitted Well Location Plat
- Completed Form WR-35 Well Operator's Report of Well Work

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.

Best Regards,

A handwritten signature in blue ink, appearing to read 'J. Zavatchan'.

John Zavatchan  
Project Specialist - Permitting  
[jzavatchan@eqt.com](mailto:jzavatchan@eqt.com)  
724-746-9073

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Office of Oil and Gas

JUL 28 2022

WV Department of  
Environmental Protection

08/19/2022



Kennedy, James P <james.p.kennedy@wv.gov>

---

**ATTN plugging permits have been issued for 4704902184, 04902278, 04902279, 04902283, 04902284**

1 message

---

**Kennedy, James P** <james.p.kennedy@wv.gov>

Thu, Aug 18, 2022 at 9:53 AM

To: Jeffrey W McLaughlin <jeffrey.w.mclaughlin@wv.gov>, Kenneth L Greynolds <kenneth.l.greynolds@wv.gov>, "Zavatchan, John" <jzavatchan@eqt.com>, BShrum@eqt.com, OPishioneri@eqt.com, mtrach@wvassessor.com







To whom it may concern, plugging permits have been issued for 4704902184, 04902278, 04902279, 04902283, 04902284.

James Kennedy

WVDEP OOG

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**6 attachments**

-  **4704902184.pdf**  
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