



---

west virginia department of environmental protection

---

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, December 9, 2024  
WELL WORK PERMIT  
Horizontal 6A / Fracture

EQT CHAP LLC  
400 WOODCLIFF DR.

CANONSBURG, PA 15317

Re: Permit approval for LONGWORTH M02H  
47-051-02079-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

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

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

James A. Martin  
Chief

Operator's Well Number: LONGWORTH M02H  
Farm Name: GRAHAM H. LONGWORTH #  
U.S. WELL NUMBER: 47-051-02079-00-00  
Horizontal 6A Fracture  
Date Issued: 12/9/2024

Promoting a healthy environment.

12/13/2024

# PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) 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. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 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. Also, 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

12/13/2024

WW-6B  
(04/15)

4705102079  
API NO. 47-051 - 02079  
OPERATOR WELL NO. M02H  
Well Pad Name: Longworth

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

1) Well Operator: EQT CHAP LLC      494525804      Marshall      Clay      Glen Easton  
Operator ID      County      District      Quadrangle

2) Operator's Well Number: M02H      Well Pad Name: Longworth

3) Farm Name/Surface Owner: Graham H. Longworth, Jr.      Public Road Access: Roberts Ridge Road/WV-21

4) Elevation, current ground: 1,270' (built)      Elevation, proposed post-construction: 1,270' (built)

5) Well Type    (a) Gas    X      Oil      \_\_\_\_\_      Underground Storage      \_\_\_\_\_  
Other      \_\_\_\_\_

(b) If Gas    Shallow    X      Deep      \_\_\_\_\_  
Horizontal    X      \_\_\_\_\_

6) Existing Pad: Yes or No    Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus, 6,544', 51', 0.64 psi/ft gradient (already drilled)

8) Proposed Total Vertical Depth: 6,544' - Well Drilled - See Attached WR-35

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 18,045' - Well Drilled - See Attached WR-35

11) Proposed Horizontal Leg Length: 10,282' - Well Drilled - See Attached WR-35

12) Approximate Fresh Water Strata Depths: 99', 605'

13) Method to Determine Fresh Water Depths: Well Drilled - See Attached WR-35

14) Approximate Saltwater Depths: 1,576', 1,998', 2,102', 2,139'

15) Approximate Coal Seam Depths: 583', 853'-858'

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine?    Yes    X      No      \_\_\_\_\_  
RECEIVED  
Office of Oil and Gas  
NOV 06 2024

(a) If Yes, provide Mine Info:    Name: Ireland Mine      WV Department of  
Depth: 853'-858'      Environmental Protection  
Seam: Pittsburgh  
Owner: Marshall County Coal Resources, Inc.

*Strader Gower*  
11/3/2024

18)

**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<b>Size (in)</b>	<b>New or Used</b>	<b>Grade</b>	<b>Weight per ft. (lb/ft)</b>	<b>FOOTAGE: For Drilling (ft)</b>	<b>INTERVALS: Left in Well (ft)</b>	<b>CEMENT: Fill-up (Cu. Ft.)/CTS</b>
Conductor	20	New	X-52	78.67	40	40 ✓	N/A
Fresh Water	13 3/8	New	J-55	54.5	630'	630' ✓	624
Coal							
Intermediate	9 5/8	New	L-80	40	2224	2224 ✓	882
Production	5 1/2	New	P-110	20	18010	18010 ✓	3533/1880
Tubing							
Liners							

<b>TYPE</b>	<b>Size (in)</b>	<b>Wellbore Diameter (in)</b>	<b>Wall Thickness (in)</b>	<b>Burst Pressure (psi)</b>	<b>Anticipated Max. Internal Pressure (psi)</b>	<b>Cement Type</b>	<b>Cement Yield (cu. ft./k)</b>
Conductor	20	30	0.312	1000	18		
Fresh Water	13 3/8	17 1/2	0.380	2730	1911	Class A	
Coal							
Intermediate	9 5/8	12 3/8	0.395	5750	2768	Class A	✓
Production	5 1/2	8 1/2	0.361	14360	9975	Class A	
Tubing							
Liners							

**PACKERS**

RECEIVED  
Office of Oil and Gas

Kind:					NOV 06 2024
Sizes:					WV Department of Environmental Protection
Depths Set:					

*Strader Gower*

11/3/2024

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Complete a horizontal well in the Marcellus Formation previously drilled by Chevron Appalachia.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.1%) of chemicals (including 15% Hydrochloric acid, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10,000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000-600,000 pounds of proppant per stage.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 38.9 (built)

22) Area to be disturbed for well pad only, less access road (acres): 19.3 (built)

23) Describe centralizer placement for each casing string:

Completed by Chevron:

- Surface: On Shoe Track and every 500' to surface
- Intermediate: On Shoe Track and every 500' to surface
- Production: On Shoe Track and every joint to TOC

24) Describe all cement additives associated with each cement type:

The cement was set by Chevron. For the water string the blend contains class A cement, 3% CaCl<sub>2</sub>, and flake. The intermediate contains class A cement, 3% CaCl<sub>2</sub>, salt, and flake. The production cement contains a lead and tail cement. The lead contains class A cement, KCl, dispersant, suspension agent, and retarded. The tail contains class A cement, calcium carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.

25) Proposed borehole conditioning procedures:

N/A - this well has been drilled and cased.

RECEIVED  
Office of Oil and Gas

NOV 06 2024

Department of  
Environmental Protection

\*Note: Attach additional sheets as needed.

Strader Gower  
11/3/2024

WW-9  
(4/16)

API Number 47 - 051 - 02079

Operator's Well No. Longworth M02H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT CHAP LLC OP Code 494525804

Watershed (HUC 10) Middle Grave Creek - Grave Creek Quadrangle Glen Easton

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: N/A

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? N/A

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number 0014, 8462, 4037 )
- Reuse (at API Number Various )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

Will closed loop system be used? If so, describe: N/A - Well Drilled

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A - Well Drilled

-If oil based, what type? Synthetic, petroleum, etc. N/A - Well Drilled

Additives to be used in drilling medium? N/A - Well Drilled

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A - Well Drilled

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

-Landfill or offsite name/permit number? See Attached List

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 August 1, 2005, 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 Regional Manager - Permitting

RECEIVED  
Office of Oil and Gas

NOV 06 2024

WV Department of  
Environmental Protection

Subscribed and sworn before me this 31<sup>st</sup> day of October, 20 24

[Signature] Notary Public

My commission expires March 9, 2028

Commonwealth of Pennsylvania - Notary Seal  
Rebecca Shrum, Notary Public  
Beaver County  
My commission expires March 9, 2028  
Commission number: 267706  
12/13/2024  
Member, Pennsylvania Association of Notaries

**EQT CHAP LLC**

Proposed Revegetation Treatment: Acres Disturbed No additional disturbance Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike 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, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Strader Gower

Comments: Pre-seed/mulch all disturbed areas as soon as reasonably possible, per regulation. Upgrade E&S as necessary per WV DEP E&S Manual.

RECEIVED  
Office of Oil and Gas

**NOV 06 2024**

WV Department of  
Environmental Protection

Title: Oil & Gas Inspector

Date: 11/3/2024

Field Reviewed? (  ) Yes (  ) No

**12/13/2024**



# SITE SAFETY AND ENVIRONMENTAL PLAN

## LONGWORTH A WELL SITE

### CLAY DISTRICT MARSHALL COUNTY WV

Longworth 1H	47-051-02078	Longworth 10H	47-051-02130
Longworth 2H	47-051-02079	Longworth 11H	47-051-02131
Longworth 3H	47-051-01903	Longworth 12H	47-051-02132
Longworth 4H	47-051-01904	Longworth 13H	47-051-02080
Longworth 5H	47-051-01914	Longworth 14H	47-051-02081
Longworth 6H	47-051-01916	Longworth 15H	47-051-02082
Longworth 7H	47-051-01917	Longworth 16H	47-051-02083
Longworth 8H	47-051-02128	Longworth 101H	New Well
Longworth 9H	47-051-02129	Longworth 103H	New Well

Prepared By: Donny Prater, CSP, Health and Safety Sciences, LLC

Approved By: Scott M. Held, Senior Safety Coordinator

Created Date: 17-Dec-20

---

John Zavatchan  
Permitting Specialist  
EQT CHAP LLC

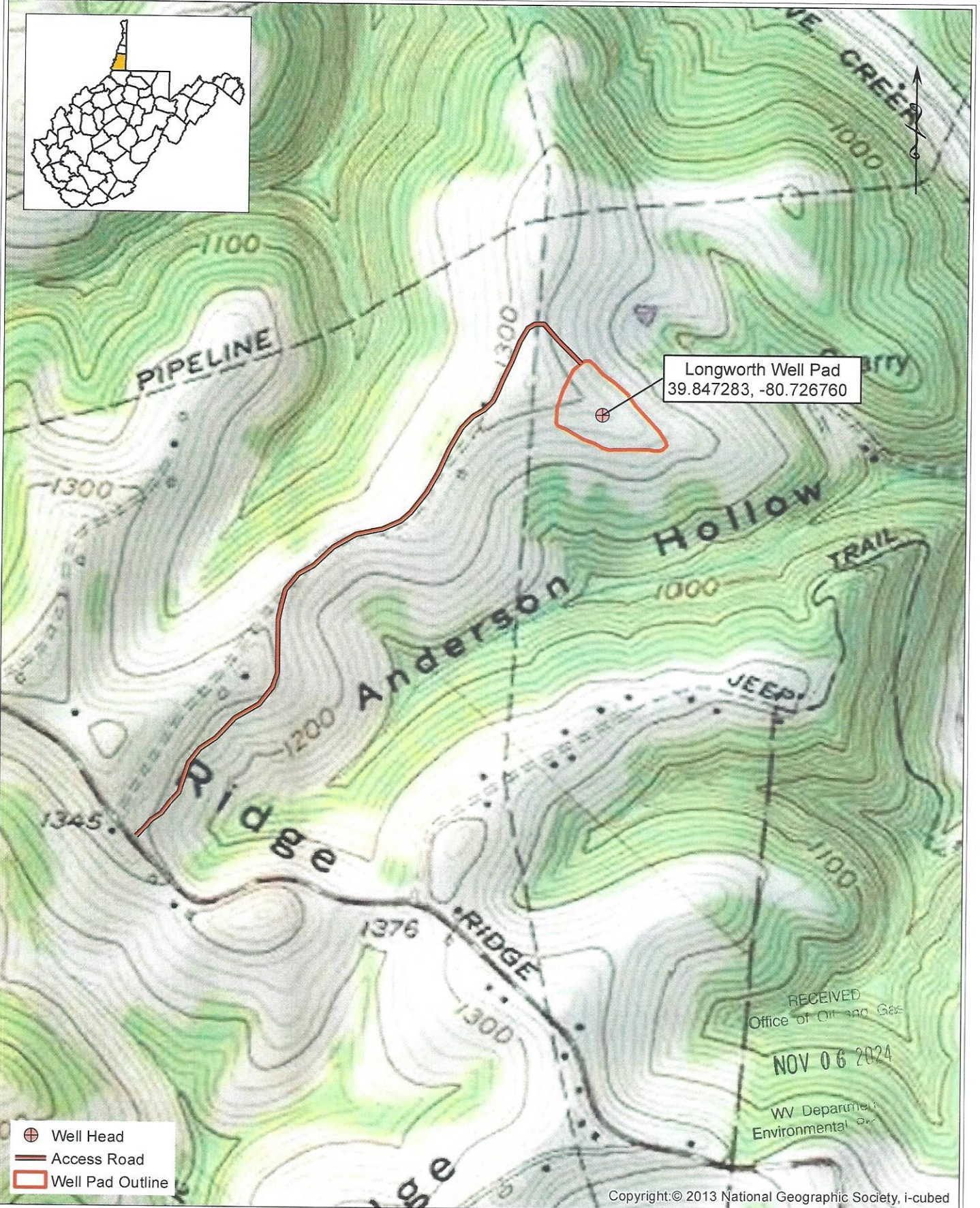
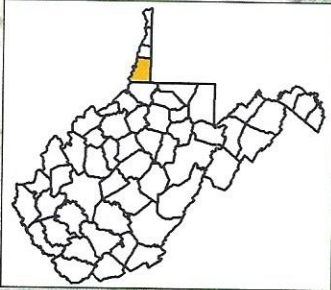
*Strader Gower*

---

Strader Gower  
Oil and Gas Inspector  
WVDEP Office of Oil and Gas

12/15/2024





- Well Head
- Access Road
- Well Pad Outline

Copyright: © 2013 National Geographic Society, i-cubed

Document Path: R:\070\070-10539-00-Longworth North Subsurface-EQT-IGIS\MXDs\USGS\_LONGWORTH\_8x11.mxd

By: egriflow



1 inch = 800 feet

USGS Location Map  
Longworth  
Marshall County - West Virginia



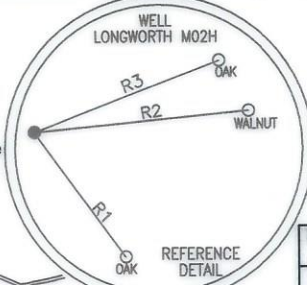
8/7/2024  
**12/13/2024**

LINE	BEARING	DISTANCE
R1	S 36°19'52" E	213.09'
R2	N 84°27'05" E	297.35'
R3	N 68°53'13" E	274.01'
R4	S 73°49'36" W	2269.38'
R5	N 86°31'43" W	1562.93'
R6	N 50°31'39" W	2213.27'

BHL is located on topo map 2,872 feet south of Latitude: 39° 52' 30"  
 SHL is located on topo map 10,097 feet south of Latitude: 39° 52' 30"

NOTES:

- There are no water wells or developed springs within 250' of proposed well.
- Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
- There are no native trout streams within 300' of proposed well.
- Proposed well is greater than 1000' from surface groundwater intake or public water supply.
- It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.
- There are no existing buildings within 625' of proposed well.



# AS-DRILLED PLAT

**SURFACE HOLE LOCATION (SHL)**  
 UTM 17-WD83(M)

**PERMITTED**  
 N:4410842.96  
 E:523378.15

**AS-DRILLED**  
 N:4410842.96  
 E:523378.15

**APPROX LANDING POINT (LP)**  
 UTM 17-WD83(M)

**PERMITTED**  
 N:4410595.50  
 E:522667.37

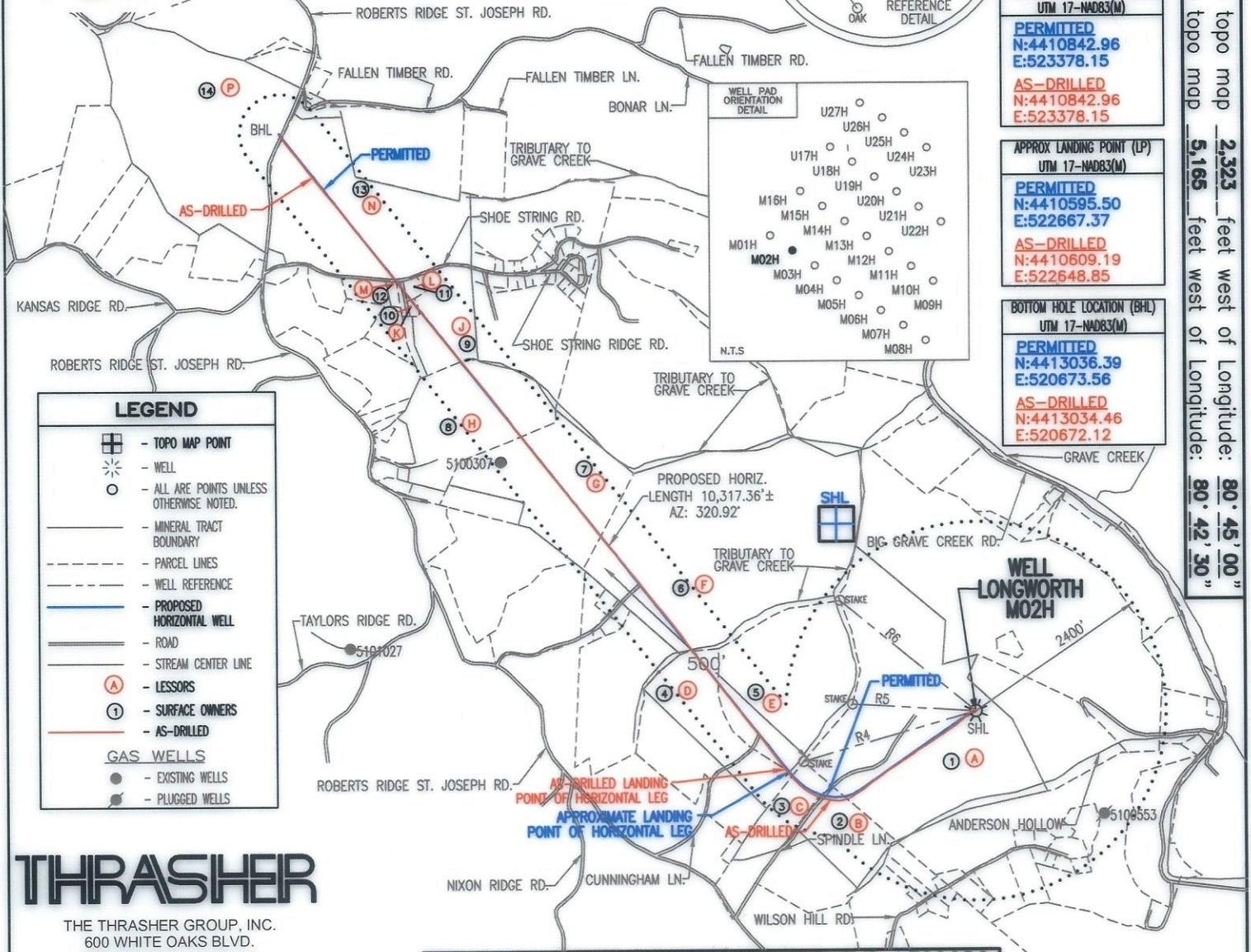
**AS-DRILLED**  
 N:4410609.19  
 E:522648.85

**BOTTOM HOLE LOCATION (BHL)**  
 UTM 17-WD83(M)

**PERMITTED**  
 N:4413036.39  
 E:520673.56

**AS-DRILLED**  
 N:4413034.46  
 E:520672.12

BHL is located on topo map 2,323 feet west of Longitude: 80° 45' 00"  
 SHL is located on topo map 5,165 feet west of Longitude: 80° 42' 30"



**LEGEND**

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS
- AS-DRILLED

**GAS WELLS**

- EXISTING WELLS
- PLUGGED WELLS

# THRASHER

THE THRASHER GROUP, INC.  
 600 WHITE OAKS BLVD.  
 BRIDGEPORT, WV 26330  
 PHONE 304-624-4108

**SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS**

FILE #: LONGWORTH M02H - AS-DRILLED  
 DRAWING #: LONGWORTH M02H - AS-DRILLED  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1/2500  
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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 ENVIRONMENTAL PROTECTION.

Signed: Joseph H. Lowther  
 R.P.E.: \_\_\_\_\_ L.L.S.: P.S. No. 2346



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
 OFFICE OF OIL & GAS  
 601 57TH STREET  
 CHARLESTON, WV 25304



DATE: OCTOBER 22, 2024  
 OPERATOR'S WELL #: LONGWORTH M02H - AS-DRILLED  
 API WELL #: 47 51 02079  
 STATE COUNTY PERMIT

Well Type:  Oil  Waste Disposal  Production  Deep  Gas  Liquid Injection  Storage  Shallow

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1270'  
 COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: GLEN EASTON, WV 7.5'  
 SURFACE OWNER: GRAHAM H. LONGWORTH JR. ACREAGE: 123.589±  
 OIL & GAS ROYALTY OWNER: GRAHAM H. LONGWORTH JR. ACREAGE: 709.816±  
 DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION   
 PERFORATE NEW FORMATION  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE   
 (SPECIFY): AS-DRILLED PLAT  
 TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,544'± TMD: 18,045'±  
 WELL OPERATOR EQT CHAP LLC DESIGNATED AGENT JOSEPH C. MALLOW  
 Address 400 WOODCLIFF DRIVE Address 427 MIDSTATE DRIVE  
 City CANONSBURG State PA Zip Code 15317 City CLARKBURG State WV Zip Code 26301

# LONGWORTH M02H PAGE 2 OF 2 AS-DRILLED

	LESSOR	DIST-TM/PAR
A	GRAHAM H. LONGWORTH JR. ET AL	4-11/1
B	HOLMES CWC LEGACY LLC	4-11/55
C	JEFFREY S. HOLMES ET UX	4-13/39.1
D	DALE CUNNINGHAM ET UX	4-13/34
E	DALE CUNNINGHAM ET UX	4-13/33
F	BRETT A. ANDREWS ET UX	4-12/19
G	RALPH E. WOOD	4-12/21
H	RALPH E. WOOD	4-12/22
J	KENNETH D. TUCKER ET UX	4-12/1
K	GARY L. ECKHARDT	4-13/14.1
L	RICHARD D. ARRUDA ET UX	4-12/1.1
M	*LIONEL SCHWING ET UX	4-13/13
N	BYRON C. FREELAND ET UX	4-7/28
P	JOSEPH L. FREELAND ET UX	4-7/21

	SURFACE OWNER	DIST-TM/PAR
1	GRAHAM H. LONGWORTH JR.	4-11/1
2	HOLMES-CWC-LEGACY LLC	4-11/55
3	JEFFREY SCOTT HOLMES ET AL	4-13/39.1
4	DALE & MARY CUNNINGHAM	4-13/34
5	DALE & MARY CUNNINGHAM	4-13/33
6	CODY M. JARRETT	4-12/19
7	RALPH E. WOOD	4-12/21
8	RALPH E. WOOD	4-12/22
9	KEITH J. GUZEK	4-12/1
10	GARY L. ECKHARDT	4-13/14.1
11	RICHARD DAVID & TAMMY D. ARRUDA	4-12/1.1
12	*LIONEL SCHWING ET UX	4-13/13
13	BYRON FREELAND	4-7/28
14	JOSEPH L. FREELAND ET UX	4-7/21

SURFACE HOLE LOCATION (SHL) UTM 17-NAD83(M)	APPROX LANDING POINT (LP) UTM 17-NAD83(M)	BOTTOM HOLE LOCATION (BHL) UTM 17-NAD83(M)
<b>PERMITTED</b> N:4410842.96 E:523378.15  <b>AS-DRILLED</b> N:4410842.96 E:523378.15	<b>PERMITTED</b> N:4410595.50 E:522667.37  <b>AS-DRILLED</b> N:4410609.19 E:522648.85	<b>PERMITTED</b> N:4413036.39 E:520673.56  <b>AS-DRILLED</b> N:4413034.46 E:520672.12

\* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

12/13/2024

OCTOBER 22, 2024

## THRASHER

THE THRASHER GROUP, INC.  
600 WHITE OAKS BLVD.  
BRIDGEPORT, WV 26330  
PHONE 304-624-4108

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6A, Section 5(a)(5)  
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
-------------------------	-----------------------	-----------------------	---------	-----------

See Attached

RECEIVED  
Office of Oil and Gas  
  
NOV 06 2024  
  
WV Department of  
Environmental Protection

**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: EQT CHAP LLC  
 By: John Zavatchan  
 Its: Regional Manager - Permitting

Parcel ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2
4-11-1.0	LONGWORTH GRAHAM H JR ET AL	Chevron U.S.A. Inc.	"at least 1/8th per WV Code 22-6-8"	BK 790 - PG 129	N/A	Chevron U.S.A. Inc. to EQT Aurora LLC, BK 47 - PG 1
4-11-55.0	HOLMES CWC LEGACY LLC	Chevron U.S.A. Inc.	"at least 1/8th per WV Code 22-6-8"	BK 790 - PG 120	N/A	Chevron U.S.A. Inc. to EQT Aurora LLC, BK 47 - PG 1
4-13-39.1	HOLMES JEFFREYS ET UX	Chesapeake Appalachia, LLC	"at least 1/8th per WV Code 22-6-8"	BK 681 - PG 520	Chesapeake Appalachia, LLC to Chevron U.S.A. Inc., BK 30 - PG 392	Chevron U.S.A. Inc. to EQT Aurora LLC, BK 47 - PG 1
4-13-34.0	CUNNINGHAM DALE ET UX	Chesapeake Appalachia, LLC	"at least 1/8th per WV Code 22-6-8"	BK 681 - PG 502	Chesapeake Appalachia, LLC to Chevron U.S.A. Inc., BK 30 - PG 392	Chevron U.S.A. Inc. to EQT Aurora LLC, BK 47 - PG 1
4-13-33.0	CUNNINGHAM DALE ET UX	Chesapeake Appalachia, LLC	"at least 1/8th per WV Code 22-6-8"	BK 681 - PG 502	Chesapeake Appalachia, LLC to Chevron U.S.A. Inc., BK 30 - PG 392	Chevron U.S.A. Inc. to EQT Aurora LLC, BK 47 - PG 1
4-12-19.0	ANDREWS BRETT A ET UX	Chevron U.S.A. Inc.	"at least 1/8th per WV Code 22-6-8"	BK 773 - PG 43	N/A	Chevron U.S.A. Inc. to EQT Aurora LLC, BK 47 - PG 1
4-12-21.0	WOOD RALPH E	Chevron U.S.A. Inc.	"at least 1/8th per WV Code 22-6-8"	BK 835 - PG 028	N/A	Chevron U.S.A. Inc. to EQT Aurora LLC, BK 47 - PG 1
4-12-22.0	WOOD RALPH E	Chevron U.S.A. Inc.	"at least 1/8th per WV Code 22-6-8"	BK 835 - PG 028	N/A	Chevron U.S.A. Inc. to EQT Aurora LLC, BK 47 - PG 1
4-12-1.0	TUCKER KENNETH D ET UX	NPAR, LLC	"at least 1/8th per WV Code 22-6-8"	BK 754 - PG 60	NPAR, LLC to Chevron U.S.A. Inc, BK 29 - PG 288	Chevron U.S.A. Inc. to EQT Aurora LLC, BK 47 - PG 1
4-13-14.1	ECKHARDT GARY L	Chevron U.S.A. Inc.	"at least 1/8th per WV Code 22-6-8"	BK 763 - PG 614	N/A	Chevron U.S.A. Inc. to EQT Aurora LLC, BK 47 - PG 1
4-12-1.1	ARRUDA RICHARD D ET UX	TriEnergy Holdings, LLC	"at least 1/8th per WV Code 22-6-8"	BK 752 - PG 403	TriEnergy Holdings, LLC to Chevron U.S.A. Inc., BK 28 - PG 348	Chevron U.S.A. Inc. to EQT Aurora LLC, BK 47 - PG 1
4-13-13.0	SCHWING LIONEL ET UX	Chevron U.S.A. Inc.	"at least 1/8th per WV Code 22-6-8"	BK 831 - PG 381	N/A	Chevron U.S.A. Inc. to EQT Aurora LLC, BK 47 - PG 1

RECEIVED  
 Office of Oil and Gas  
 NOV 06 2024  
 WV Department of  
 Environmental Protection

4-7-28.0	FREELAND BYRON C ET UX	Chevron U.S.A. Inc.	"at least 1/8th per WV Code 22-6-8"	BK 786 - PG 217	N/A	Chevron U.S.A. Inc. to EQT Aurora LLC, BK 47 - PG 1
4-7-21.0	FREELAND JOSEPH LET UX	Chevron U.S.A. Inc.	"at least 1/8th per WV Code 22-6-8"	BK 932 - PG 374	N/A	Chevron U.S.A. Inc. to EQT Aurora LLC, BK 47 - PG 1

RECEIVED  
Office of Oil and Gas  
NOV 06 2024  
WV Department of  
Environmental Protection



November 1, 2021

*Via Electronic Delivery*

West Virginia Department of Environmental Protection  
Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304

RE: EQT CHAP, LLC Relationship to EQT Aurora, LLC

WVDEP Recipient,

This letter serves as notification to WVDEP of the relationship between the two subject entities. EQT CHAP, LLC, a Pennsylvania corporation (EIN 20-8243540) having an address of 625 Liberty Ave., Suite 1700, Pittsburgh, PA 15222, is a wholly owned subsidiary of EQT CNEU, LLC, a Delaware limited liability company (EIN 51-0404430), also having an address of 625 Liberty Ave., Suite 1700, Pittsburgh, PA 15222. EQT CNEU is a wholly owned subsidiary of EQT Aurora LLC, a Pennsylvania limited liability corporation (EIN 85-3135326) also having an address of 625 Liberty Avenue, Suite 1700, Pittsburgh, PA 15222. All entities fall under the parent of EQT Corporation.

Because of this relationship, EQT CHAP, LLC has the right to to develop, extract, produce and market and natural resources allowed, including natural gas, from any lease in which EQT Aurora, LLC has that same right.

If you require any additional information, feel free to contact me at your earliest convenience.

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

12/13/2024



EQT CHAP LLC  
400 Woodcliff Drive | Canonsburg, PA 15317

October 17, 2024

Mr. Taylor Brewer  
West Virginia Department of Environmental Protection  
Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304

Re: Longworth MozH Gas Well  
Clay District, Marshall County, WV

Dear Mr. Brewer,

EQT CHAP LLC is applying for a new well work permit for the well referenced above. Upon information and belief, the Operator's lease and/or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

Please note that this lateral was previously drilled by Chevron Appalachia, LLC. EQT CHAP is proposing to return to this well, complete it and turn it in line.

Sincerely,

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

John Zavatchan  
Regional Manger - Permitting

RECEIVED  
Office of Oil and Gas

NOV 06 2024

WV Department of  
Environmental Protection

12/13/2024



## Horizontal Natural Gas Well Work Permit Application Notice By Publication

**Notice is hereby given:**

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

**Paper:** Moundsville Daily Echo

**Public Notice Date:** 8/8/2024 and 8/15/2024

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period.

**Applicant:** EQT CHAP LLC **Well Number:** Longworth M02H

**Address:** 400 Woodcliff Drive  
Canonsburg, PA 15317

**Business Conducted:** Natural gas production.

**Location –**

State:	<u>West Virginia</u>	County:	<u>Marshall</u>
District:	<u>Clay</u>	Quadrangle:	<u>Glen Easton</u>
UTM Coordinate NAD83 Northing:	<u>4,410,842.96</u>		
UTM coordinate NAD83 Easting:	<u>523,378.15</u>		
Watershed:	<u>Middle Grave Creek-Grave Creek</u>		

RECEIVED  
Office of Oil and Gas  
NOV 06 2024  
WV Department of  
Environmental Protection

**Coordinate Conversion:**

To convert the coordinates above into longitude and latitude, visit: [http://tagis.dep.wv.gov/convert/llutm\\_conus.php](http://tagis.dep.wv.gov/convert/llutm_conus.php)

**Electronic notification:**

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit <http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx> to sign up.

**Reviewing Applications:**

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to [DEP.comments@wv.gov](mailto:DEP.comments@wv.gov).

**Submitting Comments:**

Comments may be submitted online at <https://apps.dep.wv.gov/oog/comments/comments.cfm>, or by letter to Permit Review, Office of Oil and Gas, 601 57<sup>th</sup> Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx)

12/13/2024

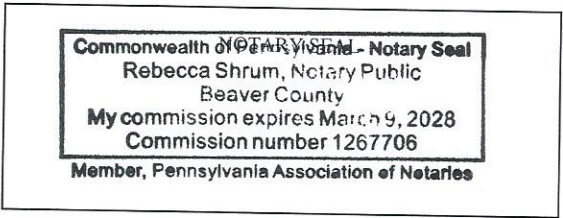


**Certification of Notice is hereby given:**

THEREFORE, I John Zavatchan, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

Well Operator: EQT CHAP LLC  
By: John Zavatchan  
Its: Regional Manager - Permitting  
Telephone: 412-584-3132

Address: 400 Woodcliff Drive  
Canonsburg, PA 15317  
Facsimile: 412-395-2974  
Email: jzavatchan@eqt.com



Subscribed and sworn before me this 31<sup>st</sup> day of October, 2024.  
Rebecca Shrum Notary Public  
My Commission Expires March 9, 2028

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at [deprivacyofficer@wv.gov](mailto:deprivacyofficer@wv.gov).

RECEIVED  
Office of Oil and Gas  
NOV 06 2024  
Department of  
Environmental Protection

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF APPLICATION

**Notice Time Requirement:** notice shall be provided no later than the **filing date of permit application.**

**Date of Notice:** 10/30 **Date Permit Application Filed:** 10/11/2024

**Notice of:** 2024

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

**Delivery method pursuant to West Virginia Code § 22-6A-10(b)**

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice  WSSP Notice  E&S Plan Notice  Well Plat Notice is hereby provided to:

SURFACE OWNER(s)  
Name: See Attached List  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Road and/or Other Disturbance)  
Name: See Attached List  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE  
Name: See Attached List  
Address: \_\_\_\_\_

COAL OPERATOR  
Name: See Attached List  
Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
Name: See Attached List  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

RECEIVED  
Office of Oil and Gas  
NOV 06 2024

WV Department of  
Environmental Protection

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

**This Notice Shall Include:**

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

RECEIVED  
Office of Oil and Gas

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dew.gov/office-and-gas/pages/default.aspx](http://www.dew.gov/office-and-gas/pages/default.aspx).

NOV 06 2024  
WV Department of  
Environmental Protection

**Well Location Restrictions**

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

12/13/2024

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

**Water Well Testing:**

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

**Water Testing Laboratories:**

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

**Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:**

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

**Written Comment:**

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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

RECEIVED  
Office of Oil and Gas  
NOV 06 2024  
WV Department of  
Environmental Protection

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

12/13/2024

**Time Limits and Methods for Filing Comments.**

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) 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.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

**Comment Requirements**

Your comments must be in writing and 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.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

**Permit Denial or Condition**

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

RECEIVED  
Office of Oil and Gas  
NOV 06 2024  
Department of Environmental Protection

WW-6A  
(8-13)

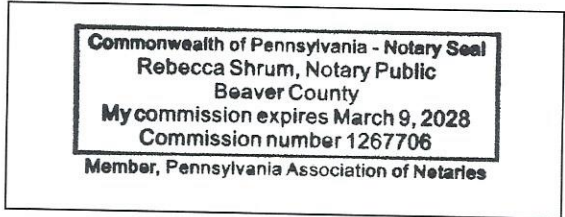
API NO. 47-051 - 02079  
OPERATOR WELL NO. M02H  
Well Pad Name: Longworth

Notice is hereby given by:  
Well Operator: EQT CHAP LLC  
Telephone: 412-584-3132  
Email: jzavatchan@eqt.com

Address: 400 Woodcliff Drive  
Canonsburg, PA 15317  
Facsimile: 412-395-2974

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).



Subscribed and sworn before me this 31<sup>st</sup> day of October, 2024.

Rebecca Shrum Notary Public

My Commission Expires March 9, 2028

RECEIVED  
Office of Oil and Gas  
NOV 06 2024  
WV Department of  
Environmental Protection



**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF INTENT TO DRILL**

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

**Notice Time Requirement:** Notice shall be provided at least TEN (10) days prior to filing a permit application.

**Date of Notice:** 08/07/2024      **Date Permit Application Filed:** 11/4/2024

**Delivery method pursuant to West Virginia Code § 22-6A-16(b)**

HAND DELIVERY       CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

**Notice is hereby provided to the SURFACE OWNER(s):**

Name: See attached list  
Address: \_\_\_\_\_  
\_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

RECEIVED  
Office of Oil and Gas  
NOV 06 2024

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an **intention to enter upon** the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>523,378.15</u>
County:	<u>Marshall</u>	Northing:	<u>4,410,842.96</u>
District:	<u>Clay</u>	Public Road Access:	<u>Roberts Ridge Road/WV-21</u>
Quadrangle:	<u>Glen Easton</u>	Generally used farm name:	<u>Longworth</u>
Watershed:	<u>Middle Grave Creek - Grave Creek</u>		

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: EQT CHAP LLC  
Address: 400 Woodcliff Drive  
Canonsburg, PA 15317  
Telephone: 412-584-3132  
Email: JZavatchan@eqt.com  
Facsimile: 412-395-2974

Authorized Representative: John Zavatchan  
Address: 400 Woodcliff Drive  
Canonsburg, PA 15317  
Telephone: 412-584-3132  
Email: JZavatchan@eqt.com  
Facsimile: 412-395-2974

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).





WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
**Division of Highways**

Office of the District Engineer/Manager  
District Four

Post Office Box 4220 · Clarksburg, West Virginia 26302 · (304) 842-1500

Alanna J. Keller, P.E.  
Deputy Secretary of Transportation  
Deputy Commissioner of Highways

Jimmy Wriston, P. E.  
Secretary of Transportation  
Commissioner of Highways

August 7, 2024

James A. Martin, Chief  
Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304

Subject: DOH Permit for the Longworth Well Pad, Marshall County  
Longworth M02H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2016-0411 which has been transferred to EQT CHAP LLC for access to the State Road for a well site located off Marshall County Route 21 SLS MP 15.04.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Lacy D. Pratt  
Central Office O&G Coordinator

RECEIVED  
Office of Oil and Gas

NOV 06 2024

WV Department of  
Environmental Protection

Cc: John Zavatchan  
EQT Production Company  
OM, D-6  
File

**Anticipated Frac Additives  
Chemical Names and CAS Numbers**


<u>Material</u>	<u>Ingredient</u>	<u>CAS Number</u>
Sand (Proppant)	Silica Substrate	14808-60-7
Water	Water	7732-18-5
Hydrochloric Acid (HCl)	Hydrogen Chloride	7647-01-0
Friction Reducer	<b>Copolymer of 2-propenamide</b>	<b>Proprietary</b>
	Petroleum Distillate	64742-47-8
	Oleic Acid Diethanolamide	93-83-4
	Alcohols, C12-16, ethoxylated	68551-12-2
	Ammonium chloride ((NH4)Cl)	12125-02-9
Biocide	<b>Glutaraldehyde</b>	<b>111-30-8</b>
	Alkyl dimethyl benzyl ammonium chloride	68391-01-5
	Didecyl dimethyl ammonium chloride	7173-51-5
	Non-hazardous substances	Proprietary
	<b>Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid)(BHMT)</b>	<b>34690-00-1</b>
	Non-hazardous substances	Proprietary
Scale Control		
Acid Chelating Agent	<b>Ferriplex 66</b>	
	Citric Acid	77-92-9
	Acetic Acid	64-19-7
Corrosion Inhibitor	<b>PLEXHIB 166</b>	
	Methanol	67-56-1
	Alcohols, C14-15, ethoxylated	68951-67-7

RECEIVED  
Office of Oil and Gas

**NOV 06 2024**

WV Department of  
Environmental Protection

**12/13/2024**

OPERATOR: EQT CHAP LLC WELL NO: M02H  
PAD NAME: Longworth  
REVIEWED BY: John Zavatchan SIGNATURE: 

## WELL RESTRICTIONS CHECKLIST

### HORIZONTAL 6A WELL

#### Well Restrictions

- At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR  
 DEP Waiver and Permit Conditions
- At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR  
 DEP Waiver and Permit Conditions
- At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR  
 DEP Waiver and Permit Conditions
- At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR  
 Surface Owner Waiver and Recorded with County Clerk, OR  
 DEP Variance and Permit Conditions
- At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR  
 Surface Owner Waiver and Recorded with County Clerk, OR  
 DEP Variance and Permit Conditions
- At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR  
 Surface Owner Waiver and Recorded with County Clerk, OR  
 DEP Variance and Permit Conditions

12/13/2024