



west virginia department of environmental protection

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

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

Wednesday, November 19, 2025
WELL WORK PERMIT
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY
2200 ENERGY DRIVE

CANONSBURG, PA 15317

Re: Permit approval for ELMER 4H
47-103-03778-00-00

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.

H. Jason Harmon
Acting Chief

Operator's Well Number: ELMER 4H
Farm Name: SANDRA MURRINER ET AL & RANDY TUTTLE-L/E
U.S. WELL NUMBER: 47-103-03778-00-00
Horizontal 6A New Drill
Date Issued: 11/19/2025

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.

11/21/2025

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

1) Well Operator:	EQT Production Company	306686	Wetzel	Proctor	Wileyville
		Operator ID	County	District	Quadrangle

2) Operator's Well Number: 4H Well Pad Name: Elmer

3) Farm Name/Surface Owner: Sandra Murriner et. al and Life Estate of Randy Tuttle Public Road Access: Proctor Creek Rd - CR 89

4) Elevation, current ground: 1,276.5' (built) Elevation, proposed post-construction: 1,276.5' (built)

5) Well Type (a) Gas X Oil Underground Storage
Other
(b) If Gas Shallow X Deep
Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 6,895', 52' 2,620 psi

8) Proposed Total Vertical Depth: 6,895'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 8,514'

11) Proposed Horizontal Leg Length: 1,619'

12) Approximate Fresh Water Strata Depths: 1,017'

13) Method to Determine Fresh Water Depths: Offset wells

14) Approximate Saltwater Depths: None reported on offset wells

15) Approximate Coal Seam Depths: 576' - 578', 919' - 923', 1,012' - 1,017'

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 No X

(a) If Yes, provide Mine Info: Name:
Depth:
Seam:
Owner:

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WW-6B
(04/15)

4710303778
API NO. 47- -
OPERATOR WELL NO. 4H
Well Pad Name: Elmer

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	A252	85.6	53	53	45 ft ³ / CTS
Fresh Water	13 3/8	New	J-55	54.5	1125 1240	1125 1240	981 ft ³ / CTS
Coal							1125
Intermediate	9 5/8	New	J-55	36	2535	2535	975 ft ³ / CTS
Production	5 1/2	New	P-110	20	8514	8514	500' above intermediate casing
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	0.312	1000	18	Class A/L	1.04 - 1.20
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A/L	1.04 - 1.20
Coal							
Intermediate	9 5/8	12 3/8	0.352	3520	2816	Class A/H/L	1.04 - 1.20
Production	5 1/2	8 1/2	0.361	14360	11488	Class A/H/L	1.04 - 2.10
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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Digitally signed by Stephen McCoy
Date: 2025.08.15 11:07:06 -04'00'

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

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

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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): 26.11

22) Area to be disturbed for well pad only, less access road (acres): 7.63

23) Describe centralizer placement for each casing string:

- Surface: Bow spring centralizers – One centralizer at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers– One centralizer at the shoe and one spaced every 500'.
- Production: One solid body centralizer spaced every other joint from production casing shoe to landing point. One solid body centralizer spaced every joint from landing point to planned top of cement.

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

Conductor: No additives

Surface: Calcium Chloride. Used to speed the setting of cement slurries

Intermediate: Calcium Chloride. Used to speed the setting of cement slurries.

Production: Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent

25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.

Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.

Production: Perform a cleanup cycle by pumping 3-8 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

*Note: Attach additional sheets as needed.

WEST VIRGINIA GEOLOGICAL PROGNOSIS

Elmer

Elmer South

S-001784

Drilling Objectives:

Marcellus

County:

Wezel

Elevation:

1290 KB

Recommended Azimuth

337 Degrees

1277 GL

Proposed Logging Suite:

Quand combo pilot hole log planned to be collected with the horizontal rig

Coal Requirements:

Not determined

ESTIMATED FORMATION TOPS Derived From:

4710302973

4710300645

Formation

Top (TVD)

Base (TVD)

Lithology

Comments

FW @ none reported on offsets,

Top RR Base RR
Rock rock seen on Elmer Unica toph

Fresh Water Zone

1

1017

Washington Coal

576

578 Coal

Sewickley Coal

919

923 Coal

Pittsburgh Coal

1012

1017 Coal

Maxton

2081

2211 Sandstone

SW @ none reported on offsets,

Big Lime

2211

2336 Limestone

Big Injun

2336

2485 Sandstone

Int. csg pt

2535

Weir

2565

2659 Silty Sand

Oil show reported @ 3000

Berea

2659

3066 Silty Sand

Offset wells completed in the Gordon

Gantz

3066

3220 Sandstone

Base of Offset Well Perforations at 3033' TVD

Gordon

3220

3292 Sandstone

Fifty Foot

3292

3327 Sandstone

Thirty Foot

3327

3368 Silty Sand

Bayard

3368

3770 Silty Sand

Upper Speechley

3770

3824 Silty Sand

Speechley

3824

3880 Sandstone

Balltown

3880

4320 Sandstone

Bradford

4320

5332 Silty Sand

Benson

5332

5584 Silty Sand

Alexander

5584

5959 Silty Sand

Elk

5959

6570 Gray Shales and Silts

Sonyea

6570

6685 Gray shale

Middlesex

6685

6713 Black Shale

Genesee

6713

6772 Gray shale interbedded with black shale

Tully

6772

6794 Black Shale

Hamilton

6794

6813 Limestone

Marcellus

6813

6873 Gray shale with some calcareous shales

Purcell

6873

6925 Black Shale

-Lateral Zone

6888

6893 Limestone

Cherry Valley

6895

6914 Limestone

Onondaga

6913

6925 Limestone

Pilot Hole TD

7025

100 feet below Onondaga in WV. Will need to split up wireline logs into 2 runs

Target Thickness	52 feet
Max Anticipated Rock Pressure	2620 PSI

Comments:

Intermediate casing point is recommended beneath the Big Injun to shut off any water production from the Upper Devonian sands. Intermediate casing should be cemented into the surface string, per WV regulations.

LATERAL DRILLING TOLERANCES

Mapview - Lateral:

Mapview - TD:

Deviate as little as possible to the left or right of the planned wellbore.
DO NOT EXTEND beyond recommended wellbore to avoid lease line.

RECOMMENDED CASING POINTS

Conductor:
Fresh Water/Coal
Intermediate 1:
Production:

CSG OD
CSG OD
CSG OD
CSG OD

26"
13 3/8"
9 5/8"
5 1/2"

CSG DEPTH:
CSG DEPTH:
CSG DEPTH:
CSG DEPTH:

13' KB
Planned Depth KB
Planned Depth GL
Comments
Competent Rock
Depth selected to cover red rock zone seen on 13HU
50 ft below base of Big Injun

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EQT Production**Wellbore Diagram**

Well: Elmer 4H

County:

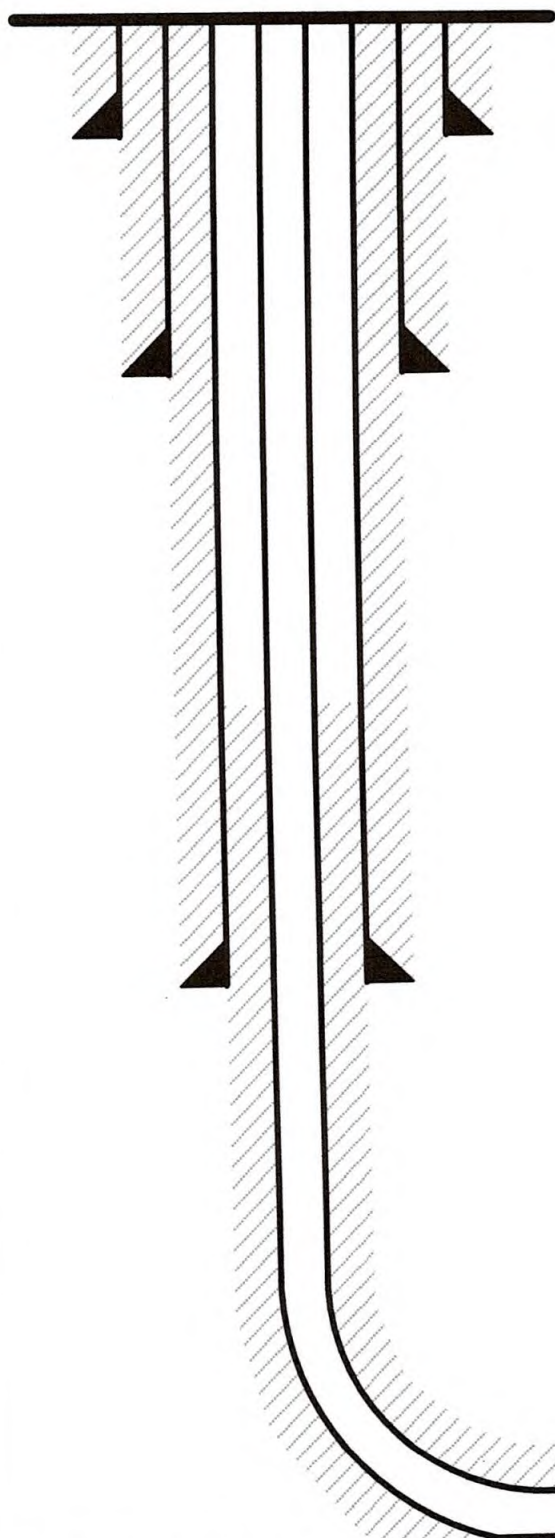
Wetzel

Pad: Elmer

State:

West Virginia

Elevation: 1277' GL 1290' KB

**Conductor @ 53'**

26", 85.6#, A252, cement to surface w/ Class A/L

Surface @ 1,240'

13-3/8", 54.5#, J-55, cement to surface w/ Class A/L

Intermediate @ 2,535'

9-5/8", 36#, J-55, cement to surface w/ Class A/H/L

Production @ 8,514' MD / 6,895' TVD

5-1/2", 20#, P-110, cement to 500' inside 9-5/8" w/ Class A/H/L

Formation: MarcellusNOT TO SCALE
11/21/2023

EQT Production
Hydraulic Fracturing Monitoring
Plan Pad ID: Elmer
County: Wetzel

October 9, 2025

Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Wetzel County, WV prior to hydraulic fracturing at the following EQT wells on the Sizemore pad: 2H, 4H, 6H, 8H, 10H, 12H and 14H.

Due to the requirements under 35CSR8 5.11, the permittee is required to review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation.

A report is required to be submitted along with a well work permit application.

The plan is being implemented as an additional safety measure to be utilized in conjunction with existing best management practices and emergency action plans for the site. These additional measures include coordination with well operators of the timing and location of the hydraulic fracturing, establishment of measures well operators should implement, and assurance that the OOG is notified of the timeline, as well as any issues that may arise during fracturing.

1. Communications with Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known wells and well operators within 500 feet of this pad and the lateral sections that are known or could reasonably be expected to be within range of the fracture propagation. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

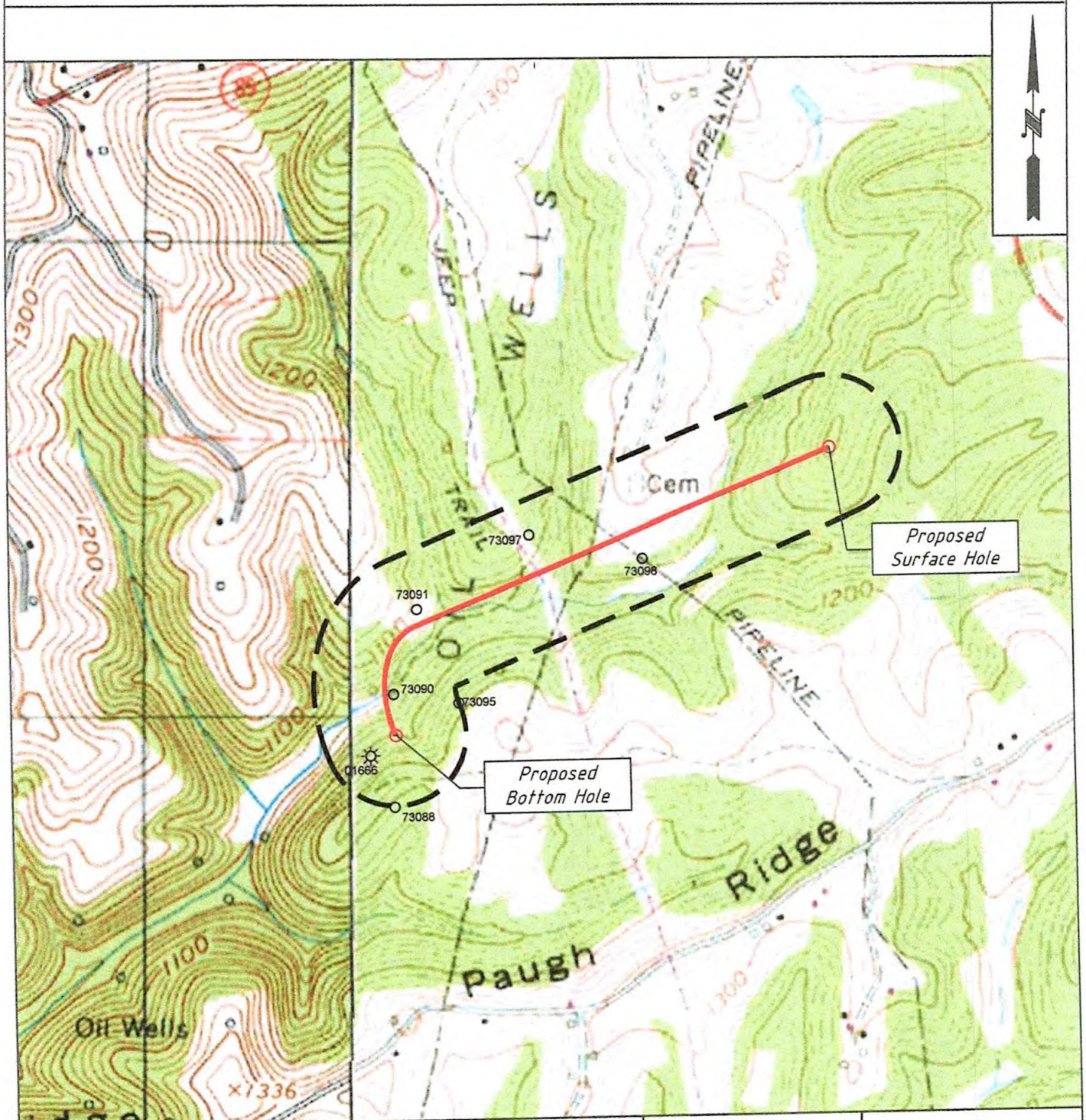
EQT will recommend to these operators at a minimum to:

1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
3. Inspect or install master valves or other necessary equipment for wellhead integrity capable of a pressure recommended by EQT
4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

2. Reporting

EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

Elmer 4H Area of Review



OPERATOR

EQT PRODUCTION COMPANY
2200 Energy Drive
Canonsburg, PA 15317

TOPO SECTION

WILEYVILLE 7.5'

SCALE:

1" = 1000'

WELL NAME

Elmer 4H

DATE:

DATE: 10-06-2025

11/21/2025

API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
		Unknown	***	***	***	Unknown	N/A
103-73088	Unknown	Unknown	***	***	2776'	Gordon	N/A
103-73090	Unknown	Unknown	***	***	***	Unknown	N/A
103-73091	Unknown	Unknown	***	***	***	Unknown	N/A
103-73095	Unknown	Unknown	***	***	***	Unknown	N/A
103-73096	Unknown	Unknown	***	***	***	Unknown	N/A
103-73098	Unknown	Unknown	***	***	***	Unknown	N/A
103-01666	Perkins Oil & Gas, Inc.	Unknown	***	***	2950'	Gordon	N/A



EQT Production Company
400 Woodcliff Drive | Canonsburg, PA 15317

October 9, 2025

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

Re: Class L Cement Variance Request
Elmer 4H Well
Proctor District, Wetzel County

Dear Mr. Brewer,

EQT Production Company (EQT) has been notified by our cement providers that they will no longer be providing Class A cement. As a result of this, EQT is requesting the option to utilize Class L cement, if necessary, in place of Class A cement for its cement jobs.

The variance request from Legislative Rule 35CSR8, Section 9.2.h.8, related to the use of Class L Cement, was approved by the Office of Oil and Gas on September 13, 2022. A copy of the variance is included with this request.

If you have any questions, please do not hesitate to contact me at 412-239-1645.

Sincerely,

A handwritten signature in blue ink that reads 'Nikolai G. Softcheck'.

Nikolai Softcheck
Permitting Specialist III

Enc.

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601 57th Street, SE
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Phone (304) 926-0450

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

**BEFORE THE OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA**

**IN THE MATTER OF A VARIANCE FROM)
LEGISLATIVE RULE 35CSR4)
SECTION 11.5 AND LEGISLATIVE RULE)
35CSR8 SECTION 9.2.h.8.,)
RELATING TO THE CEMENTING)
OF OIL AND GAS WELLS)**

ORDER NO. 2022-14

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REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well construction.

FINDINGS OF FACT

1. On July 14, 2022, Northeast Natural Energy (NNE) submitted a variance request from Legislative Rule 35CSR8 Section 9.2.h.8., for the use of API Class L cement in place of API Class A cement, relating to the construction of horizontal wells.
2. Laboratory analysis submitted by NNE on July 14, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR4 Section 11.5., for the use of API Class L cement in place of API Class A cement, relating to the construction of vertical wells.

Promoting a healthy environment.

11/21/2025

4. On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

ORDER

It is ordered that the Class L cement product approved and monogrammed by API is approved for use in place of API Class A cement for well construction subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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


James Martin, Chief
Office of Oil and Gas

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**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) Proctor Creek of French Creek - Ohio River (HUC10) Quadrangle Wileyville

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 _____

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Will closed loop system be used? If so, describe: Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.

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

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud

Additives to be used in drilling medium? See Attached

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill

-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) Branden Weimer

Company Official Title Regional Manager - Permitting

Subscribed and sworn before me this 8th day of October, 2025, 20

Kristen Brooks

Notary Public

Commonwealth of Pennsylvania - Notary S
Kristen Brooks, Notary Public
Fayette County
My commission expires February 17, 2029
Commission number 1285524

My commission expires

Feb. 17, 2029

Member, Pennsylvania Association of Notaries

11/21/2025

WW-9 Attachment

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

- Air is used to drill the top-hole sections of the wellbore (surface, intermediate, and pilot). Water based mud may be necessary depending on hole conditions to stabilize and drill the intermediate section. The pilot hole, curve, and lateral sections will be drilled with either air, water based mud, or synthetic mud.

Additives to be used in drilling medium?

- Air - biodegradable oil lubricant, detergent, defoaming, water.
- Water based mud – Barite, viscosifier, alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates.
- Synthetic mud – synthetic base oil, emulsifier, salt, lime, viscosifier, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

EQT Production Company

Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH _____

Lime 3 _____ Tons/acre or to correct to pH 6.5 _____Fertilizer type Granular 10-20-20 _____Fertilizer amount 500 _____ lbs/acreMulch 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.

Stephen MccoyDigitally signed by Stephen Mccoy
Date: 2025.08.15 11:05:10 -04'00'

Plan Approved by: _____

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.

Title: _____

Date: _____

Field Reviewed?

() Yes

() No

11/21/2025

Topo Quad: Wileyville 7.5' USGS Quad

Scale: 1" = 1,000'

County: Wetzel

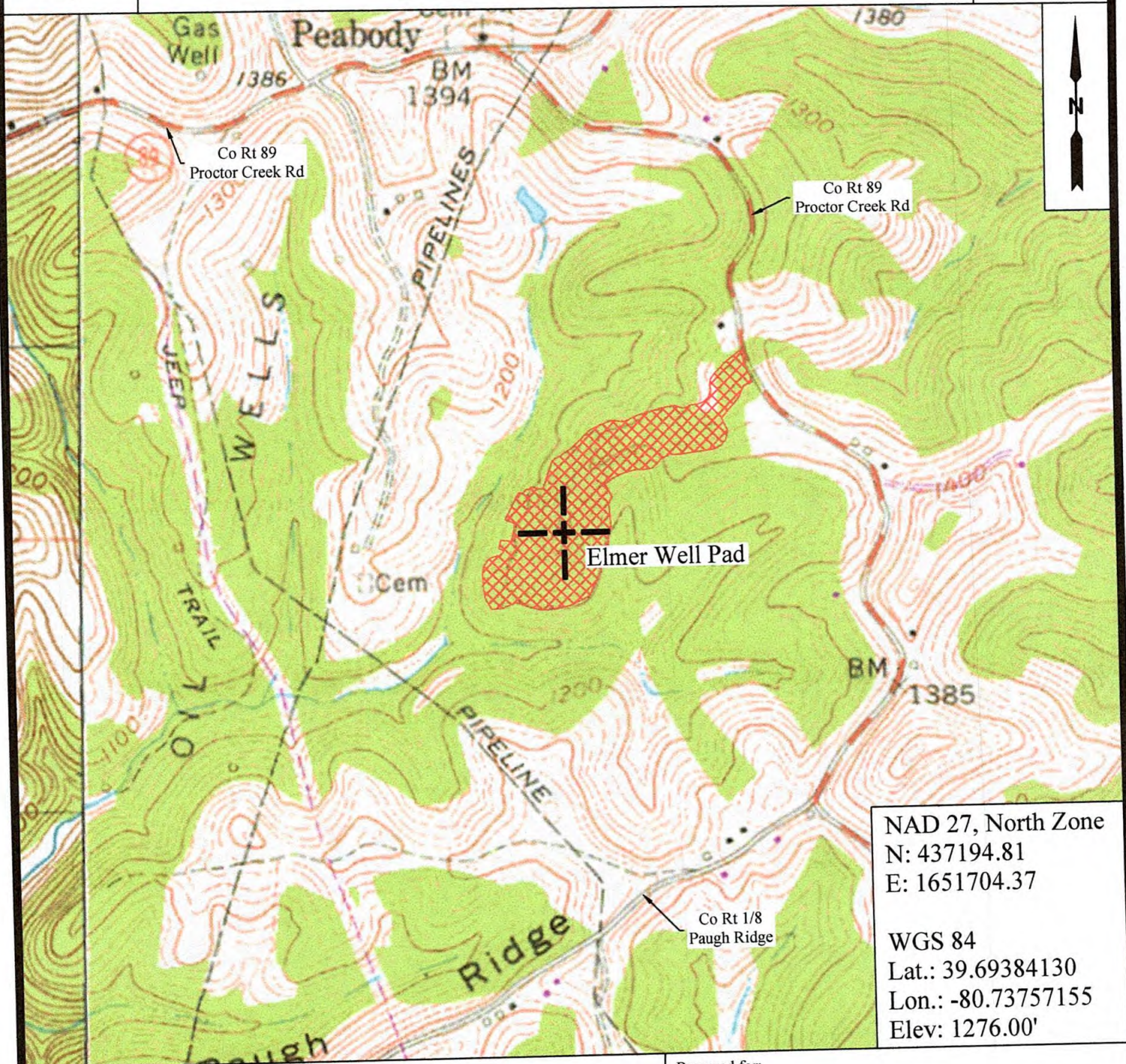
Date: August 12, 2025

District: Proctor

Project No.: 00347681

Topo

Elmer Well Pad



Kelly Surveying
P.O. Box 254
Dolley, WV 26039
(304) 336-6985

Prepared for:

EQT Production Company

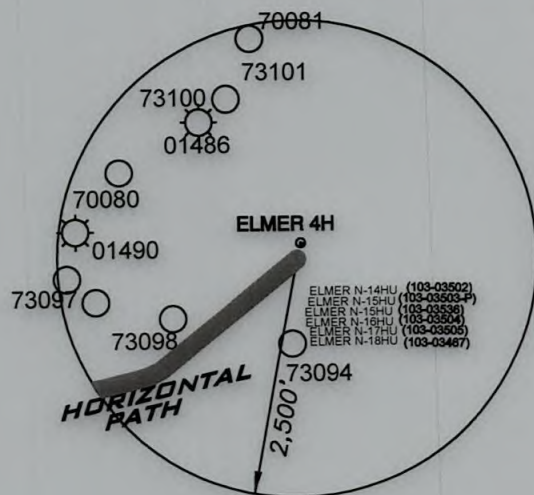
400 Woodcliff Drive
Canonsburg, PA 15317



11/21/2025

ELMER 4H
EQT PRODUCTION COMPANY**SURFACE HOLE**UTM. NAD83, ZONE 17
IN METERSN) 4,393,777.44
E) 522,486.81**SURFACE HOLE**

GEOGRAPHIC NAD27

LAT 39.693466
LONG -80.737919**SURFACE HOLE**STATE PLANE
NAD27, FEETN) 437,087.38
E) 1,651,657.49(BH) BOTTOM HOLE LONGITUDE: 80°45'00"
(TH) TOP HOLE LONGITUDE: 80°42'30"

(LH) 7,425' (TH) 5,422'

**BOTTOM HOLE**UTM. NAD83, ZONE 17
IN METERSN) 4,393,163.65
E) 521,522.99**BOTTOM HOLE**

GEOGRAPHIC NAD27

LAT 39.687960
LONG -80.748829**BOTTOM HOLE**STATE PLANE
NAD27, FEETN) 435,124.52
E) 1,648,559.68

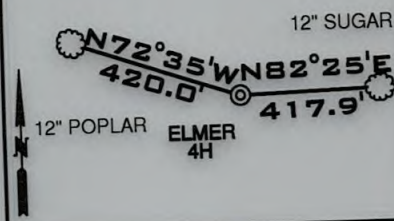
ELMER 4H

N.T.S.

ELMER N-14HU (103-03502)
ELMER N-15HU (103-03503)
ELMER N-16HU (103-03504)
ELMER N-17HU (103-03505)
ELMER N-18HU (103-03506)
ELMER 18H
ELMER 16H
ELMER 14H
ELMER 12H
ELMER 10H
ELMER 8H
ELMER 6H
ELMER 4H
ELMER 2H

DETAIL**SKETCH "A"****REFERENCES**

SCALE 1"=500'

(*) DENOTES LOCATION
ON UNITED STATES
TOPOGRAPHIC MAPS

LINE	BEARING	DISTANCE
L1	N40°30'E	1,979.33'
L2	N63°17'E	1,505.14'
L3	S67°43'W	3,192.73'

CURVE	CHORD	BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 51°37' W	162.51'	297.58'	420.65'	164.60'
C2	S 25°43' W	151.94'	623.91'	173.24'	173.24'
C3	S 07°39' W	172.69'	829.37'	190.37'	190.37'
C4	S 06°42' E	189.95'	941.36'	163.38'	163.38'
C5	S 18°05' E	163.18'			

NOTES

1. BORE PATH BASED ON GRID NORTH.
2. NO WATER WELLS WITHIN 250' OF WELL WERE FOUND. NO DWELLINGS WITHIN 625' OF PAD CENTER WERE FOUND.
3. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF WETZEL COUNTY, WV IN JULY, 2022.
4. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
5. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
6. ALL WELLS WITHIN 2,500' OF CENTER OF PAD & 500' OF THE WELLBORE ARE SHOWN ON PLAT.
7. BOUNDARIES ALONG ROADWAYS ARE BASED UPON MEMORANDUM BY DICKIE, MCCAMEY & CHILCOTE, P.C. FILE 0058304.0401147

FILE NUMBER

DRAWING NUMBER ELMER_4H

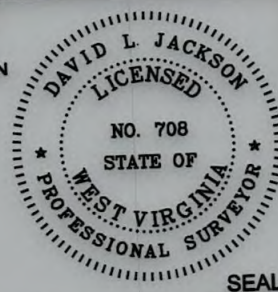
SCALE 1" = 1000'

MINIMUM DEGREE
OF ACCURACY 1/200PROVEN SOURCE
OF ELEVATION SUBMETER MAPPING
GRADE GPS

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 RULES ISSUED AND
PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.S.
708*David L Jackson*

JACKSON SURVEYING INC.
P.O. Box 1480
Clarksburg, WV 26302
304-623-5851



SEAL

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET, SE
CHARLESTON, WV 25304

DATE: SEPTEMBER 23, 2025

OPERATORS WELL NO. ELMER 4H

API WELL NO.

47-103-03778

STATE COUNTY

PERMIT

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

LOCATION ELEVATION 1,276.50' WATERSHED (HUC 10) PROCTOR CREEK OF FRENCH CREEK - OHIO RIVER (HUC-10)

DISTRICT PROCTOR

COUNTY

WETZEL

QUADRANGLE WILEYVILLE 7.5'

LEASE NUMBER

SEE WW-6A1 FORM

SURFACE OWNER SANDRA MURRINER ET AL & RANDY TUTTLE - L/E

ACREAGE

11/21/2025

ROYALTY OWNER ROBERT SHANE & KATHRYN RAMONA GODDARD
REVOCABLE LIVING TRUST, ET AL

LEASE NO. 136061000 LEASE ACREAGE 1496

PROPOSED WORK: DRILL ☒ CONVERT ___ DRILL DEEPER ___ REDRILL ___
PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) ___

FRACTURE OR STIMULATE ☒ PLUG OFF OLD FORMATION ___

PLUG & ABANDON ___ CLEAN OUT & REPLUG ___

TARGET FORMATION MARCELLUS

ESTIMATED DEPTH TVD: 6,895' TMD: 8,514.3'

WELL OPERATOR EQT PRODUCTION COMPANY

DESIGNATED AGENT JOSEPH C. MALLOW

ADDRESS 2200 ENERGY DRIVE
CANONSBURG, PA 15317

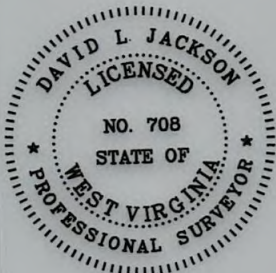
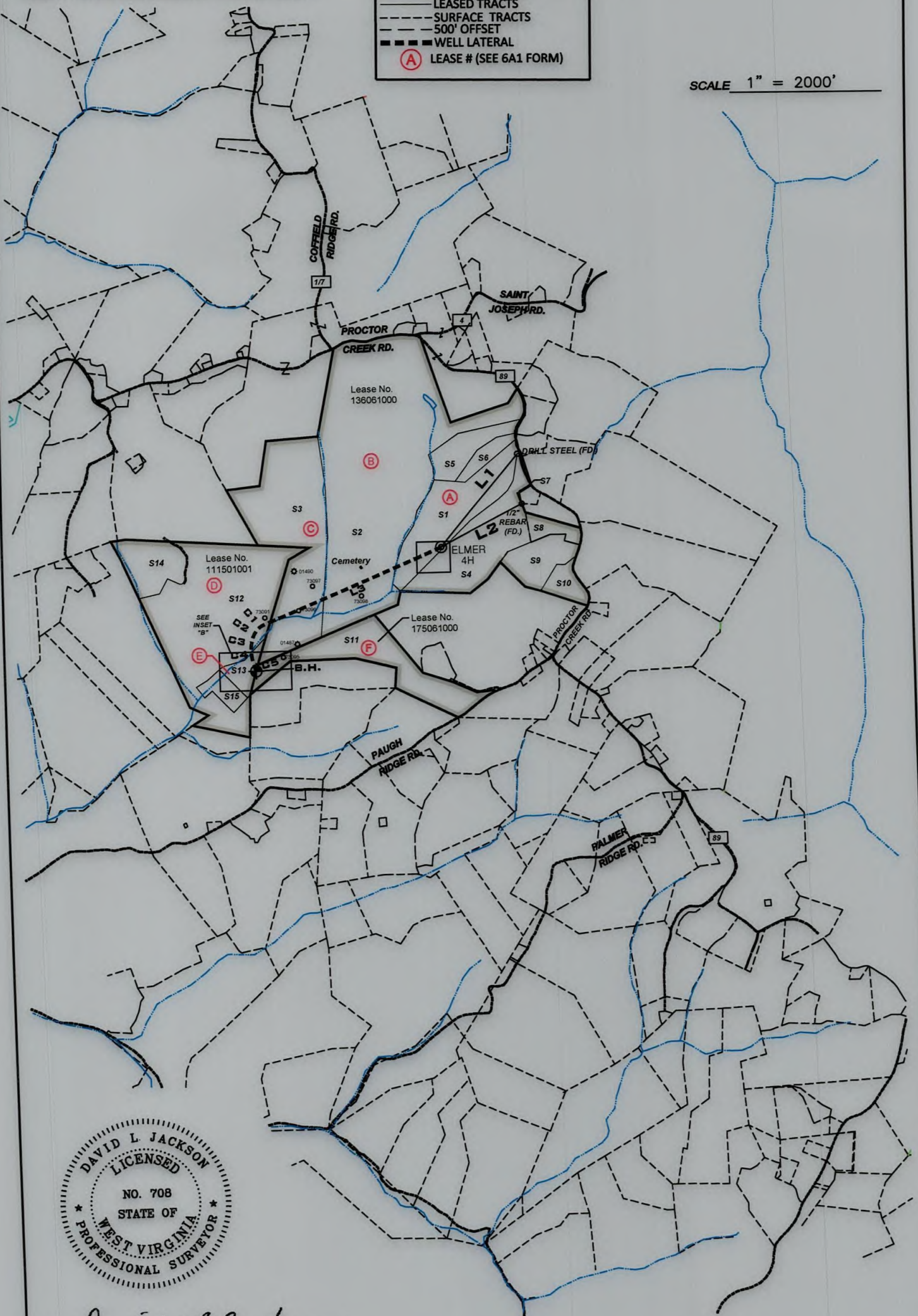
ADDRESS 427 MIDSTATE DRIVE
CLARKSBURG, WV 25301

form wv6

ELMER 4H
EQT PRODUCTION COMPANY

LEGEND	
	UNIT BOUNDARY
	LEASED TRACTS
	SURFACE TRACTS
	500' OFFSET
	WELL LATERAL
	LEASE # (SEE 6A1 FORM)

SCALE 1" = 2000'



P.S.
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David L Jackson



OPERATOR'S
WELL #: ELMER 4H
DISTRICT: Proctor
COUNTY: Wetzel
STATE: WV
API #: 47-103-03178

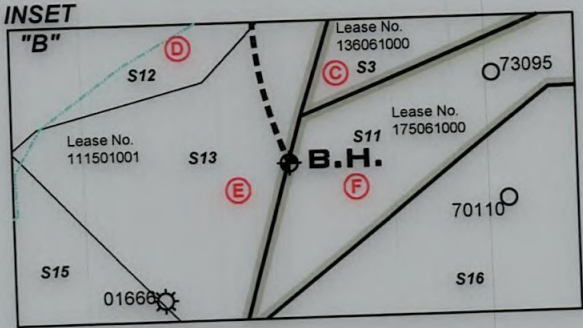
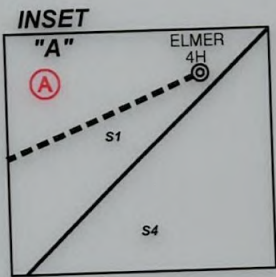
11/21/2025
WELL PLAT
PAGE 2 OF 3
DATE: 09/23/2025

form ww6

ELMER 4H
EQT PRODUCTION COMPANY

Tags	Number	Tax Map -Parcel	Surface Owner	Acres
A	S1	12-8-15	SANDRA MURRINER, ET AL -RANDY TUTTLE L/E	39.19
B	S2	12-8-2	R. SHANE & KATHRYN GODDARD REVOCABLE LIVING TRUST	178
C	S3	12-8-1	R. SHANE & KATHRYN GODDARD REVOCABLE LIVING TRUST	77
D	S12	12-7-32	CHARLES D. ROSE JR., ET AL; 2024 JUDITH ROSE IRREV TRUST	95.40
E	S13	12-8-18	CHARLES D. ROSE JR., ET AL; 2024 JUDITH ROSE IRREV TRUST	6.4
F	S11	12-8-20.5	JOE B. MILLER (1/2 INT.) & GERALD & SUE YEATER (1/2 INT.)	44.85
	S4	12-8-16	BETTY HUGGINS	39.149
	S5	12-8-13	EDWARD C. & SANDRA K. MURRINER	15
	S6	12-8-14	EDWARD C. & SANDRA K. MURRINER	5.33
	S7	12-8-16.1	BRENT A. & KIMBERLY J. EDDY	0.06
	S8	12-8-21	EDUARDO C. & SONYA R. DEGUZMAN	11.51
	S9	12-8-21.1	LINDA M. STOUT	15.26
	S10	12-8-22.1	BARRY C. KIRKLAND	7.401
	S14	12-7-32.1	CHARLES D. ROSE JR., ET AL; 2024 JUDITH ROSE IRREV TRUST	18
	S15	12-7-33	CHARLES D. ROSE JR., ET AL; 2024 JUDITH ROSE IRREV TRUST	5.75
	S16	12-18-19	JOE B. MILLER (1/2 INT.) & GERALD & SUE YEATER (1/2 INT.)	29

Lease No	Owner	Acres
136061000	Robert Shane & Kathryn Ramona Goddard Revocable Living Trust, et al	1,496
175061000	OXY USA, Inc. et al	44.85 of 31,151.585
111501001	Appalachian Royalties, Inc. et al	100



P.S.
708

David L Jackson



OPERATOR'S
WELL #: ELMER 4H
DISTRICT: Proctor
COUNTY: Wetzel
STATE: WV
API #: 47-103-03778

11/21/2025
WELL PLAT
PAGE 3 OF 3
DATE: 09/23/2025

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				

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Office Of Oil and Gas
OCT 14 2025
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 Production Company
By: Branden Weimer 
Its: Regional Manager - Permitting

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
135051000	<u>Robert Shane and Kathryn Ramona Goddard Revocable Living Trust, et al.</u> Henry Garner and Nancy Garner, his wife J.A. Phillips South Penn Oil Company Hope Natural Gas Company Dallis Snyder and Sam Beren, db/a Snyder and Beren John H. Robinson, Blanche Eagon, as Executrix of the Estate of George F. Eagon, deceased, Blanche Eagon, in her own right, Mildren M. Larigue and Carl L. Eagon, by Paul J. Shiben and Joseph V. DeMarco, Jr. AIF and Elva Robinson, Executrix of the Estate of John H. Robinson, Elva Robinson and Mary Ellen Davis Elva Robinson and Mary Ellen Davis Katherine A. Henry and Harry R. Cronin, Jr. Katherine C. Reed, widow Carl Perkins and Dorothy Louise Perkins, his wife Perkins Oil and Gas, Inc. Stone Energy Corporation	1.496 ac	J.A. Phillips South Penn Oil Company Hope Natural Gas Company Dallis Snyder and Sam Beren John H. Robinson and George F. Eagon Elva Robinson and Mary Ellen Davis Andrew L. Henry, Charles E. Reed and Harry R. Cronin Charles E. Reed and Katherine C. Reed Carl Perkins Perkins Oil and Gas, Inc. Stone Energy Corporation EQT Production Company	*at least 1/8th per WV Code 22-6-8*	DB 55/354 DB 55/284 OG 138A/641 OG 39A/29 OG 39A/38 OG 43A/440 OG 44A/92 OG 51A/241 OG 55A/54 OG 84A/9 OG 126A/658 OG 183A/305
175051000	<u>OXY USA, Inc., et al</u> BRC Minerals LP, et al BRC Appalachian Minerals I, LLC BRC Minerals LP BRC Working Interest Company, LLC Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. SWN Production Company, LLC SWN Exchange Titleholder, LLC SWN Production Company, LLC Statoil USA Onshore Properties, Inc. Antero Exchange Properties, LLC Antero Exchange Properties, LLC Antero Resources Corporation	44.85 ac of 31,151.581 ac	BRC Working Interest Company BRC Working Interest Company, LLC Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. SWN Production Company, LLC SWN Exchange Titleholder, LLC SWN Production Company, LLC Antero Exchange Properties, LLC Antero Exchange Properties, LLC Antero Resources Corporation EQT Production Company	*at least 1/8th per WV Code 22-6-8*	OG 102A/505 OG 103A/220 OG 103A/470 OG 120A/109 OG 157A/540 OG 158A/801 Corp. Book 13/296 OG 177A/533 OG 177A/738 Corp. Book 13/311 OG 32A/748
111501001	<u>Appalachian Royalties, Inc., et al.</u> J.R. Huggins J.C. Trees J.C. Trees M.L. Benedum, D.C. Harkins, Alvin C. Spindler, Charles Gibbs Carter and J.C. Trees, by E. J. Thompson, AIF John W. Dorman	100 ac	J.C. Trees Alvin C. Spindler and Charles Gibbs Carter D.C. Harkins David Iseman John H. Dorman, Sydney B. Dorman, Alvan E. Dorman and Smith N. Whitworth, as Trustees of the John W. Dorman Trust Ambrose Bradley Ambrose Bradley John H. Robinson and George F. Eagon Elva Robinson and Mary Ellen Davis Andrew L. Henry, Charles E. Reed and Harry R. Cronin Charles E. Reed and Katherine C. Reed Carl Perkins Perkins Oil and Gas, Inc. Stone Energy Corporation EQT Production Company	*at least 1/8th per WV Code 22-6-8*	DB 56/465 DB 59/1 OG 138A/641 OG 39A/29 OG 31A/431 OG 32A/153 OG 41A/240 OG 43A/440 OG 44A/92 OG 51A/241 OG 55A/54 OG 84A/9 OG 126A/658 OG 183A/305

Amended and Restated Memorandum of Paid Up Oil and Gas Lease



EQT PRODUCTION COMPANY
400 Woodcliff Drive | Canonsburg, PA 15317

October 9, 2025

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

Re: Elmer 4H Gas Well
Proctor District, Wetzel County, WV

Dear Mr. Brewer,

EQT Production Company 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.

Sincerely,

A handwritten signature in blue ink that reads 'Nikolai G. Softcheck'.

Nikolai Softcheck
Project Specialist - Permitting

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Office Of Oil and Gas

OCT 14 2025

WV Department of
Environmental Protection

11/21/2025

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

Date of Notice Certification: 10/8/25

API No. 47- _____
Operator's Well No. 4H
Well Pad Name: Elmer

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: West Virginia
County: Wetzel
District: Proctor
Quadrangle: Wileyville
Watershed: Proctor Creek of French Creek - Ohio River (HUC-10)

UTM NAD 83 Easting: 522486.811
Northing: 4393777.441
Public Road Access: Proctor Creek Rd - CR 89
Generally used farm name: Elnora Tuttle

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:

*PLEASE CHECK ALL THAT APPLY

- ☐ 1. NOTICE OF SEISMIC ACTIVITY or ☒ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED
- ☐ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ☒ NO PLAT SURVEY WAS CONDUCTED
- ☒ 3. NOTICE OF INTENT TO DRILL or ☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or
- ☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
- ☒ 4. NOTICE OF PLANNED OPERATION
- ☒ 5. PUBLIC NOTICE
- ☒ 6. NOTICE OF APPLICATION

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OCT 14 2025

WV Department of
Environmental Protection

**OOG OFFICE USE
ONLY**

- ☐ RECEIVED/
NOT REQUIRED
- ☐ RECEIVED
- ☒ RECEIVED/
NOT REQUIRED
- ☒ RECEIVED
- ☒ RECEIVED
- ☒ RECEIVED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

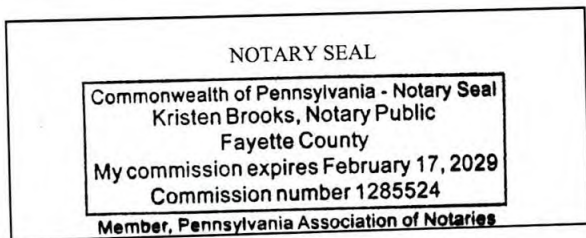
11/21/2025

Certification of Notice is hereby given:

THEREFORE, I Branden Weimer, 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 Production Company
By: Branden Weimer 
Its: Regional Manager - Permitting
Telephone: 412-997-7940

Address: 2200 Energy Drive
Canonsburg, PA 15317
Facsimile: 412-395-2974
Email: Branden.Weimer@eqt.com



Subscribed and sworn before me this 8th day of October, 2025
Kristen Brooks Notary Public
My Commission Expires Feb. 17, 2029

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.

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Office Of Oil and Gas
OCT 14 2025
WV Department of
Environmental Protection

11/21/2025

**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: 10/8/25 **Date Permit Application Filed:** 10/9/25

Notice of:

- ☒ 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

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Office Of Oil and Gas
OCT 14 2025
WV Department of
Environmental Protection

11/21/2025

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.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

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 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

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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 57th St. SE
Charleston, WV 25304
(304) 926-0450

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.**

11/21/2025

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.

WW-6A
(8-13)

API NO. 47- _____
OPERATOR WELL NO. 4H _____
Well Pad Name: Elmer _____

Notice is hereby given by:

Well Operator: EQT Production Company

Telephone: 412-997-7940

Email: Branden.Weimer@eqt.com



Address: 2200 Energy 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.

Commonwealth of Pennsylvania - Notary Seal
Kristen Brooks, Notary Public
Fayette County
My commission expires February 17, 2029
Commission number 1285524
Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 8th day of Oct. 2025.

Kristen Brooks Notary Public

My Commission Expires Feb. 17, 2029

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Office Of Oil and Gas
OCT 14 2025
WV Department of
Environmental Protection

11/21/2025

Elmer Landowner List

12-8-15: Sandra Murriner
1086 Spite Rd., Hurricane, WV 25526
Angela Lynn Harlan
118 Kirchner St., Middlebourne, WV 26149
Randy Tuttle
6768 Proctor Creek Rd., Proctor, WV 26055
Thomas Tuttle
7605 Rines Ridge Rd., Proctor, WV 26055

12-8-16: Charles & Betty Huggins
5352 Palmer Ridge Rd., Proctor, WV 26055

Coal Owners

Consol Energy, Inc.
Attn: Casey Saunders
275 Technology Drive, Suite 101
Canonsburg, PA 15317

Water Supply Owners within 1,500':

N/A

11/21/2025

MEMO

EQT: ELMER

(WELLS: 2H, 4H, 6H, 8H, 10H, 12H, 14H, 16H & 18H)

RE: PACKETS ON 10-7-2025

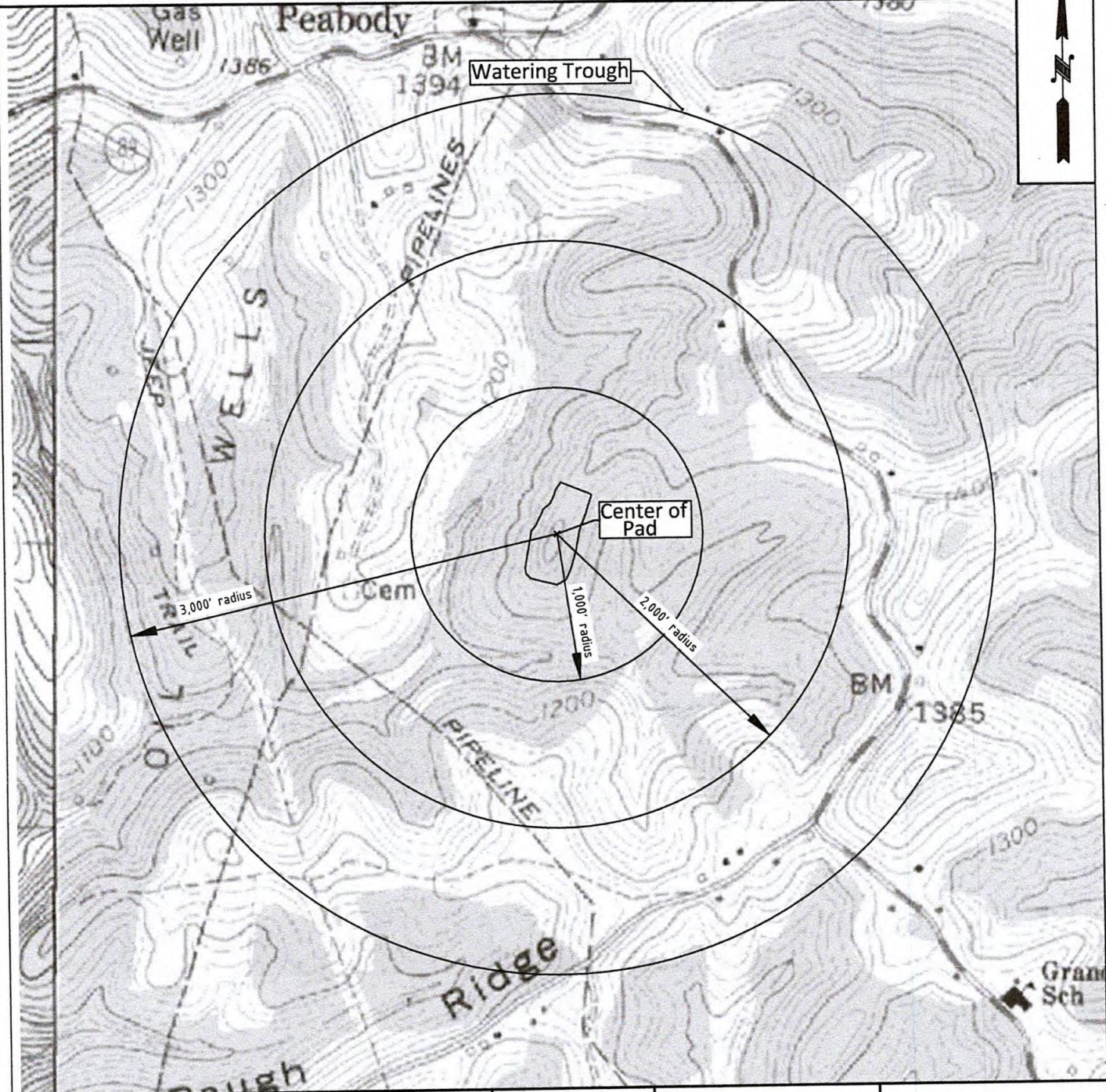
The Post Office was unable to send the packets by Certified Mail due to their weight - anything over 1 pound must be sent by Ground Advantage. Unlike certified mail which provides individual certified mail receipts, Ground Advantage provides no receipts other than the Domestic Return Receipt after the packet has been signed for by the recipient. I did, however, take photographs of each packet showing the name of the recipient as well as the tracking number associated with each which can be tracked online using the USPS website.

9534 9109 4872 5280 3465 39 ✓	Charles & Betty Huggins
9534 9109 4872 5280 3465 15 ✓	Sandra Murriner
9534 9109 4872 5280 3464 92 ✓	Angela Lynn Harlan
9534 9109 4872 5280 3464 54 ✓	Thomas Tuttle
9534 9109 4872 5280 3464 30 ✓	Randy Tuttle
9534 9109 4872 5280 3464 16 ✓	Consol Energy

11/21/2025

Elmer Water Well Exhibit

Center of pad to Watering Trough distance -- 3,013'



OPERATOR

EQT PRODUCTION COMPANY
2200 Energy Drive
Canonsburg, PA 15317

TOPO SECTION

WILEYVILLE 7.5'

SCALE:

1" = 1000'

WELL NAME

Elmer

DATE:

DATE: 10-03-2025

11/21/2025

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: 08/12/2025

Date Permit Application Filed: 10/9/25

RECEIVED
Office Of Oil and Gas

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

☐ HAND
DELIVERY

☒ CERTIFIED MAIL
RETURN RECEIPT REQUESTED

OCT 14 2025

WV Department of
Environmental Protection

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: See Attached List

Address: _____

Notice is hereby given:

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

State: West Virginia
County: Wetzel
District: Proctor
Quadrangle: Wileyville
Watershed: Proctor Creek of French Creek - Ohio River (HUC-10)

UTM NAD 83 Easting: 522486.811
Northing: 4393777.441
Public Road Access: Proctor Creek Rd - CR 89
Generally used farm name: Elnora Tuttle

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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: EQT Production Company
Address: 2200 Energy Drive
Canonsburg, PA 15317
Telephone: 412-239-1645
Email: nikolai.softcheck@eqt.com
Facsimile: 412-584-3132

Authorized Representative: Nikolai Softcheck
Address: 2200 Energy Drive
Canonsburg, PA 15317
Telephone: 412-239-1645
Email: nikolai.softcheck@eqt.com
Facsimile: 412-582-3132

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.

11/21/2025

Elmer Landowner List

12-8-15: Sandra Murriner ✓
1086 Spite Rd., Hurricane, WV 25526
Angela Lynn Harlan ✓
118 Kirchner St., Middlebourne, WV 26149
Randy Tuttle ✓
6768 Proctor Creek Rd., Proctor, WV 26055
Thomas Tuttle ✓
7605 Rines Ridge Rd., Proctor, WV 26055

12-8-16: Charles & Betty Huggins ✓
5352 Palmer Ridge Rd., Proctor, WV 26055

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OCT 14 2025
WV Department of
Environmental Protection

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Environmental Protection

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5352 Palmer Ridge Rd., Proctor, WV 26055

11/21/2025

MEMO

EQT: ELMER

(WELLS: 2H, 4H,6H,8H,10H,12H,14H,16H &18H)

RE: PACKETS ON 10-7-2025

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Charles & Betty Huggins

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Angela Lynn Harlan

9534 9109 4872 5280 3464 54

Thomas Tuttle

9534 9109 4872 5280 3464 30

Randy Tuttle

9534 9109 4872 5280 3464 16

Consol Energy

11/21/2025



**WEST VIRGINIA
DEPARTMENT OF TRANSPORTATION**

1900 Kanawha Boulevard East • Building Five • Room 109
Charleston, West Virginia 25305-0440 • (304) 558-0444

Michael J. DeMers
Deputy Secretary of Transportation

Stephen T. Rumbaugh, P.E.
Secretary of Transportation
Commissioner of Highways

August 20, 2025

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

Subject: DOH Permit for the Elmer Well Pad, Wetzel County
Elmer 2H Well Site Elmer 4H Well Site Elmer 6H Well Site Elmer 8H Well Site
Elmer 10H Well Site Elmer 12H Well Site Elmer 14H Well Site
Elmer 16H Well Site Elmer 18H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2021-0381 which has been issued to EQT Production Company for access to the State Road for a well site located off Wetzel County Route 89 SLS MP 6.84.

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.

RECEIVED
Office Of Oil and Gas
OCT 14 2025
WV Department of
Environmental Protection

Very Truly Yours,

Lacy D. Pratt
Central Office O&G Coordinator

Cc: Nikolai Softcheck
EQT Production Company
OM, D-6
File

OPERATOR: EQT Production Company WELL NO: 4H
PAD NAME: Elmer
REVIEWED BY: Branden Weimer SIGNATURE: 

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

RECEIVED
Office Of Oil and Gas
OCT 14 2025
WV Department of
Environmental Protection

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 A waiver was previously approved and the site has been constructed
- ☒ 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

11/21/2025

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	Copolymer of 2-propenamide	Proprietary
	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	Glutaraldehyde	111-30-8
	Alkyl dimethyl benzyl ammonium chloride	68391-01-5
	Didecyl dimethyl ammonium chloride	7173-51-5
	Non-hazardous substances	Proprietary
Scale Control	Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid))(BHMT)	34690-00-1
	Non-hazardous substances	Proprietary
Acid Chelating Agent	Ferriplex 66	
	Citric Acid	
	Acetic Acid	
Corrosion Inhibitor	PLEXHIB 166	77-92-9
	Methanol	64-19-7
	Alcohols, C14-15, ethoxylated	
		67-56-1
		68951-67-7