

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

Friday, September 27, 2024 WELL WORK PERMIT Horizontal 6A / New Drill

EQT CHAP LLC 400 WOODCLIFF DR.

CANONSBURG, PA 15317

Re:

Permit approval for Longworth 101H

47-051-02519-00-00

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.

Operator's Well Number: Longworth 101H

Farm Name:

Graham H Longworth Jr.

U.S. WELL NUMBER: 47-051-02519-00-00

Horizontal 6A New Drill

Date Issued: 9/27/2024

API Number: 47-051-02519

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.

4705102519

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API NO. 4	·7							
OPER	ATOR W	ELL	NC). <u>10</u>	н			

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: 101	H	Well Pa	d Name: Longy	vorth		
3) Farm Name/Surface Owner: _	Graham H. Long	worth, Jr. Public Roa	ad Access: Rob	erts Ridge I	Road/WV-21	
4) Elevation, current ground: 1	,270' (built)	Elevation, proposed	post-construct	ion: 1,270'	(built)	
5) Well Type (a) Gas X Other	Oil	Und	erground Stora	ge		
(b)If Gas Shal	low X	Deep				
Hori	zontal X					
6) Existing Pad: Yes or No Yes			_			
7) Proposed Target Formation(s). Marcellus, 6,518', 51', 0.64	• '	-	and Expected P	ressure(s):		
8) Proposed Total Vertical Depth	6,518'					
9) Formation at Total Vertical De		us				
10) Proposed Total Measured De	pth: 13,303'					
11) Proposed Horizontal Leg Ler	ngth: 6,041'			Offic	RECEIVED e of Oil and Gas	
12) Approximate Fresh Water Str	rata Depths:	112', 618'		AUG 2 3 2024		
13) Method to Determine Fresh \	Water Depths:	Offset Wells - 51-00	307, 51-00553			
14) Approximate Saltwater Deptl	hs: 1,589', 2,0	11', 2,152', 2,115'		Environ	Deparement of Mental Protection	
15) Approximate Coal Seam Dep	oths: 583', 853	3'-858'				
16) Approximate Depth to Possib	ole Void (coal	mine, karst, other):	N/A			
17) Does Proposed well location directly overlying or adjacent to			No	·		
(a) If Yes, provide Mine Info:	Name: Ire	land Mine				
	Depth: 85	3'-858'				
	Seam: Pit	tsburgh				
	Owner: Ma	rshall County Coal Re	sources, Inc.			

WW-6B (04/15)

API NO. 27-05102519

OPERATOR WELL	NO
Well Pad Name:	Longworth

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	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	1240	1240	1100 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2233	2233	850 ft^3 / CTS
Production	5 1/2	New	P-110	20	13303	13303	500' above intermediate casing
Tubing							
Liners							

ТҮРЕ	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> (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/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							

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PACKERS

AUG 2 3 2024

Kind:		WV Department of Environmental Protects
Sizes:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Depths Set:		



OPERATOR WELL NO. 101H
Well Pad Name: Longworth

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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WV Department of

Environmental Protection 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:

- 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.

Strader Gower
08/19/2024

^{*}Note: Attach additional sheets as needed.

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EQT CHAP LLC

Hydraulic Fracturing Monitoring Plan

Pad ID: Longworth

County: Marshall

August 15, 2024

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Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Marshall County, WV prior to hydraulic fracturing at the following EQT wells on the Longworth well pad: 101H and 103H.

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:

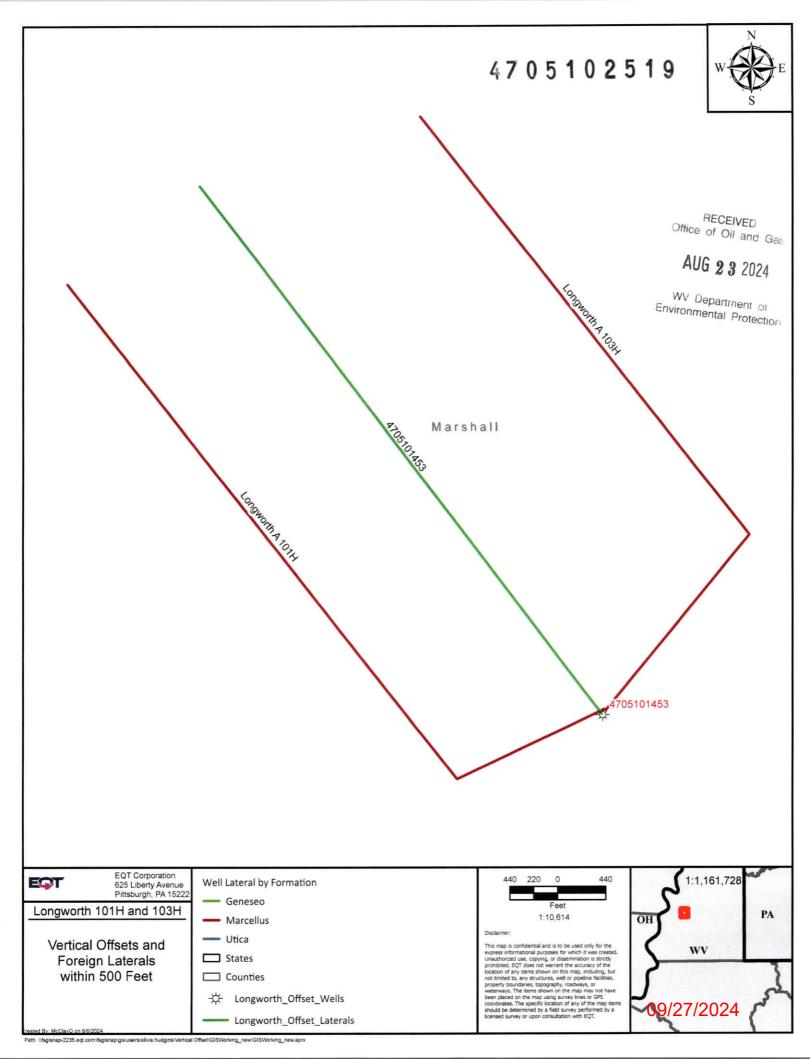
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Office of Oil and Gar

- 1. Inspect their surface equipment prior to fracturing to establish integrity and establish protection fracturing to establish protection fracturing to establish protection fracturing to establish protection fractured by the establi
- 2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
- 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.



API_UWI_Un API_UWI_12	ENVOperato	ENVWellSta	ENVWellTyp	InitialOpe	Latitude	Longitude	ElevationG Ele	evationK M	D_FT_TVD_F	Г WellName	WellSymbol
4705101453 47-051-01453-00	AB RESOURCES PA, LLC	PERMIT EXPIRED	OTHER	AB RESOURCES	39.847322	-80.72 6 916	1295	1318	0	0 LONGWORTH 1H	OTHER-PERMIT EXPIRED
Lateral											
API_UWI_Un API_UWI_12	ENVOperato	ENVWellSta	ENVWellTyp	InitialOpe	Latitude	Longitude	ElevationG Ele	evationK M	D_FT TVD_FI	Γ WellName	WellSymbol
4705101453 47-051-01453-00	AB RESOURCES PA, LLC	PERMIT EXPIRED	OTHER	AB RESOURCES	39.847322	-80.726916	1295	1318	D	0 LONGWORTH 1H	OTHER-PERMIT EXPIRED

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August 15, 2024

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

Longworth 101H Well

Clay District, Marshall County

Dear Mr. Brewer,

EQT CHAP LLC (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 724-746-9073.

Office of Oil and Gas

AUG 23 2024

WV Department of Environmental Protection

Sincerely,

John Zavatchan Permitting Specialist

Enc.



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 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)	ORDER NO. 2022-14
SECTION 11.5 AND LEGISLATIVE RULE)	
35CSR8 SECTION 9.2.h.8.,)	Office RECEIVED
RELATING TO THE CEMENTING)	Office of Oil and Ga
OF OIL AND GAS WELLS)	AUG 2 3 2024
		WV Department of Environmental Protection

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

- 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.
- 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.

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 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 monogramed 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 AUG 2 3 2024

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WEST VIRGINIA GEOLOGICAL PROGNOSIS

Longworth S-001479

Drilling Objectives:

Marcellus

County:

Marshall

Quad:

Glen Easton

Elevation: Recommended Azimuth 1282 KB

330 Degrees

1269 GL

ESTIMATED FORMATION TOPS Formation tops as determined from pilots 4705101599 and 4705101166

ESTIMATED FORMATION TOPS	го	imation tops as dete	ermined from phots 4705101	399 and 4703101166		
Formation	Top (TVD)	Base (TVD)	Lithology	Comments	Top RR	Base RR
Fresh Water Zone	1	618		FW @ 112,618,	1737	
Waynesburg Coal	583	583 Co	oal		1865	
Pittsburgh Coal	853	858 Co	oal	In unminded out section of the Pittsburgh	2557	
Big Lime	1873	2101 Lii	mestone	SW @ 1589,2011,2152,2115	3090	3090
Big Injun	2101	2183 Sa	indstone			
Int. csg pt	2233					
Gantz	2820	2881 Sa	indstone	Not near storage		
Gordon	2881	2961 Sil	lty Sand			
50F	2961	3010 Sil	lty Sand			
Bayard	3089	3454 Sil	lty Sand	Base of Offset Well Perforations at 1449' TVD		
Alexander	5256	5693 Sil	lty Sand			
Elks	5693	6192 Gr	ray Shales and Silts			
Sonyea	6192	6286 Gr	ray shale			
Middlesex	6286	6312 Sh	nale			
Genesee	6312	6359 Gr	ray shale interbedded		1	
Geneseo	6359	6385 Bla	ack Shale			
Tully	6385	6416 Lii	mestone			
Hamilton	6416	6487 Gr	ray shale with some			
Marcellus	6487	6537 Bl	ack Shale			
Purcell	6508	6510 Lii	mestone			
-Lateral Zone	6518			Start Lateral at 6518'		
Cherry Valley	6530	6532 Lii	mestone			
Onondaga	6537	Lin	mestone			

Target Thickness		51 feet	
RECOMMENDED CASI	ING POINTS		m
Fresh Water/Coal	CSG OD	13 3/8	₹ ₹
Intermediate 1:	CSG OD	9 5/8	<u>۲</u>
Production:	CSG OD	5 1/2	Depara Imental
			nent of Protection

AUG	Office of
200	(Oil '
202	and
24	G A

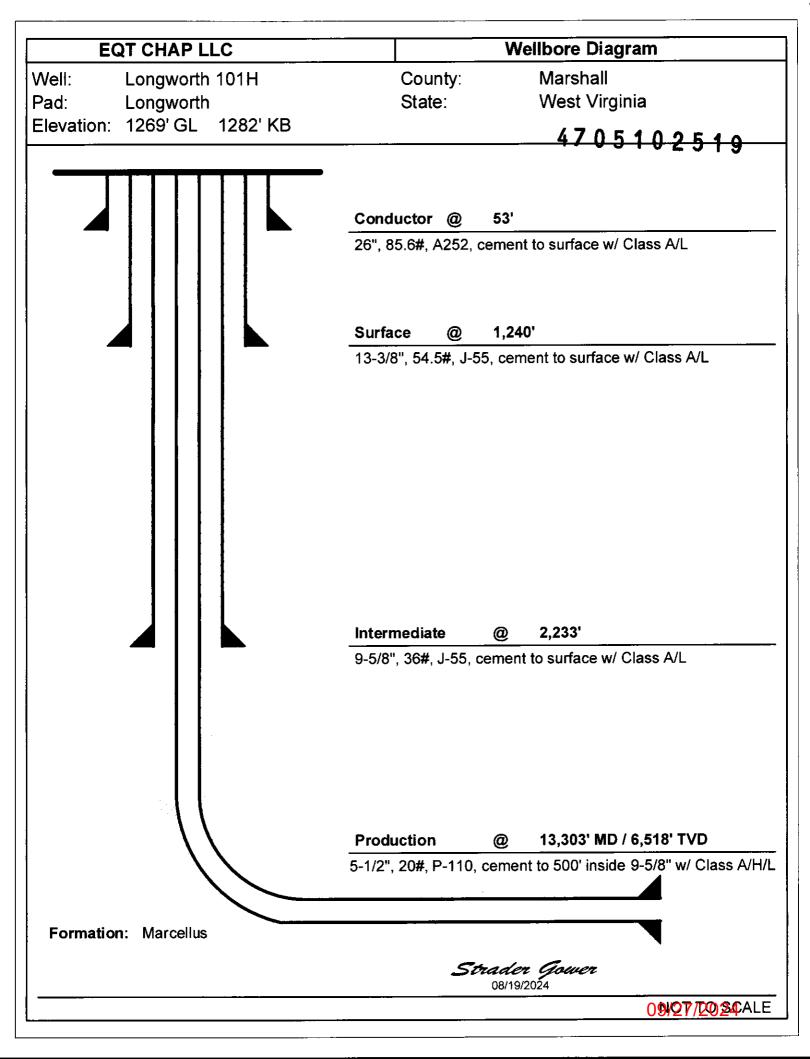
Depth GL CSG DEPTH: 1240 CSG DEPTH: 2233 CSG DEPTH: @ TD

5 0 N S

9

3090

Base of Red Rock





E Q T C H A P L L C 400 Woodcliff Drive | Canonsburg, PA 15317 P: 724-746-9073 | www.eqt.com

August 15, 2024

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

Re: Casing on Longworth 101H

Dear Mr. Brewer,

The 13-3/8" surface casing will be set at 1,240' KB, 382' below the deepest workable coal seam and 622' below the deepest fresh water. EQT is requesting a variance from 35CSR9.2.d.1 to mitigate red rock issues on these wells. Specifically, EQT is requesting to set casing to elevation. By setting this casing the additional footage requested we would put the red rock behind casing and avoid possible significant operational delays and further well complications.

By setting casing as requested we would be able to successfully case off any freshwater zones as well as put any possible red rock issues behind casing as well. Based on offset data, the shallowest saltwater zone on this pad came in at 1,589' TVD so by setting 13 3/8" casing at 1,250' we case off all freshwater while also still setting casing 339' before the nearest saltwater depth.

It is for these reasons mentioned above that it is requested to set 13 3/8" surface to elevation. This will allow EQT to successfully drill the well in the most efficient manner possible while also ensuring a competent wellbore for drilling, casing, and cementing the intermediate section.

The 9-5/8" intermediate casing string is proposed to be set at 2,239' KB. Based on the drilling of previous wells at this site, this will adequately cover any potential water production from sands.

If you have any questions, please do not hesitate to contact me at 724-746-9073.

Sincerely,

John Zavatchan Permitting Specialist

Enc.

PRECIONAL Protection

4705102519

Commission number 1359968

Vember, Pennsylvania Association of Notaries

API Number 47 - ____ - ___ Operator's Well No. Longworth 103H

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 Vo
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
Other (Explain_
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 RECEIVED Office of Oil and Gas
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 WV Department of
-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 Company Official Title Permitting Specialist Company Official Title Permitting Specialist
Subscribed and sworn before me this day of August, 20 24
Notary Public Commonwealth of Pennsylvania - Notary Sea
My commission expires Olivia Wilson, Notary Public Allegheny County My commission expires Olivia Wilson, Notary Public Allegheny County My commission expires Olivia Wilson, Notary Public Allegheny County

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 or synthetic 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, viscosifer, alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates.
- Synthetic mud synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

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Proposed Revegetation Trea	tment: Acres Disturbed N	lo additional disturbance Prevegetation pH	I	
Lime 3	Tons/acre or to corre	ct to pH 6.5		
Fertilizer type Gra	anular 10-20-20			
Fertilizer amount_	500	lbs/acre		
Mulch 2		_Tons/acre		
		Seed Mixtures		
T	emporary	Perma	nent	
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, pprovided). If water from the acreage, of the land applicat	pit will be land applied, incion area	d application (unless engineered plans included limensions (L x W x D) of the pit, and	ling this info have been dimensions (L x W), a	nd area in
Attach: Maps(s) of road, location, p provided). If water from the acreage, of the land applicat Photocopied section of invo	pit will be land applied, incion area lved 7.5' topographic sheet.	clude dimensions (L x W x D) of the pit, and	dimensions (L x W), a	nd area in
Attach: Maps(s) of road, location, p provided). If water from the acreage, of the land applicat Photocopied section of invo	pit will be land applied, incion area lved 7.5' topographic sheet.	clude dimensions (L x W x D) of the pit, and	dimensions (L x W), a	nd area in
Attach: Maps(s) of road, location, p provided). If water from the acreage, of the land applicat Photocopied section of invo Plan Approved by: Comments: Pre-seed	pit will be land applied, incion area lved 7.5' topographic sheet. Adex Journ mulch all disturbe	clude dimensions (L x W x D) of the pit, and	ably possible,	nd area in
Attach: Maps(s) of road, location, p provided). If water from the acreage, of the land applicat Photocopied section of invo Plan Approved by: Comments: Pre-seed	pit will be land applied, incion area lved 7.5' topographic sheet. Adex Journ mulch all disturbe	elude dimensions (L x W x D) of the pit, and	ably possible, Manual.	nd area in
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Attach: Maps(s) of road, location, p provided). If water from the acreage, of the land applicat Photocopied section of invo Plan Approved by: Comments: Pre-seed	pit will be land applied, incion area lved 7.5' topographic sheet. Adex Journ mulch all disturbe	elude dimensions (L x W x D) of the pit, and	ably possible, Manual. RE Office of	nd area in



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

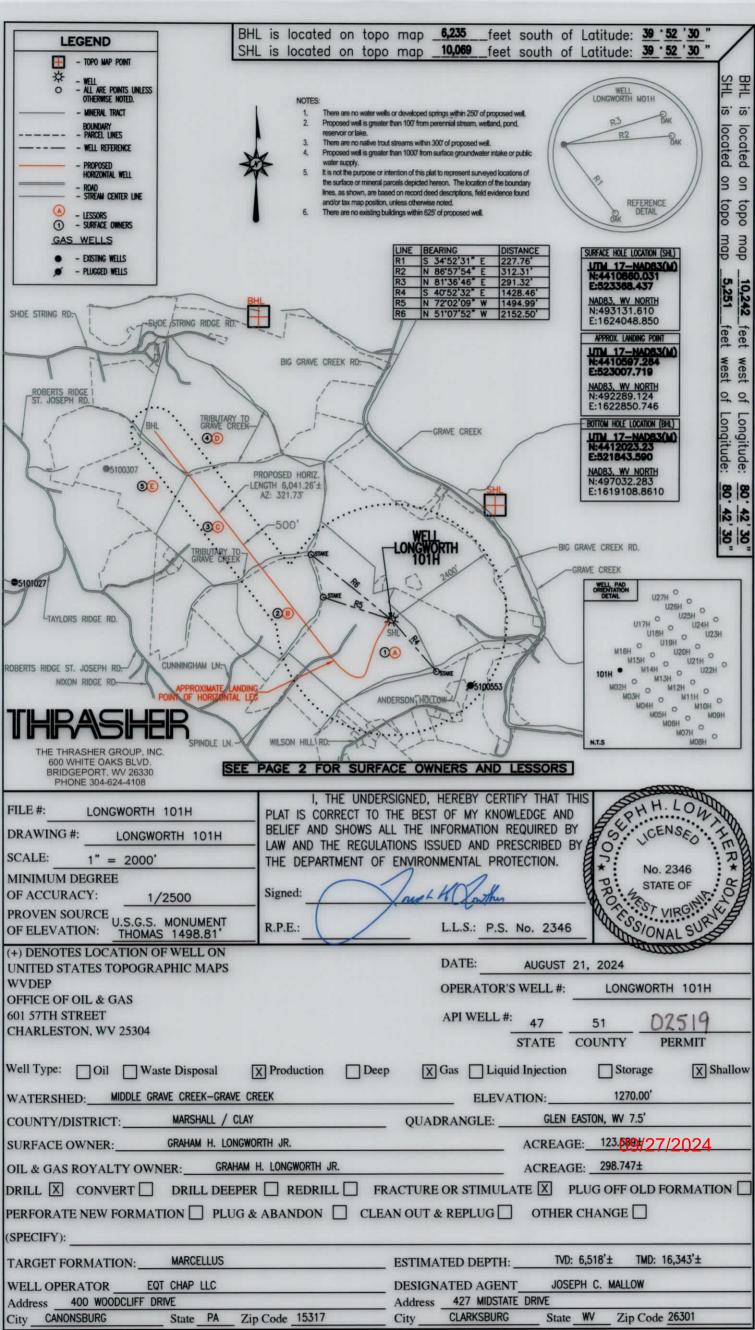
Approved By: Scott M. Held, Senior Safety Coordinator

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



LONGWORTH 101H PAGE 2 OF 2

	LESSOR	DIST-TM/PAR
Α.	GRAHAM H. LONGWORTH JR. ET AL	4-11/1
B	DALE CUMNINGHAM ET UX	4-13/33
o	BRETT A. ANDREWS ET UX	4-12/19
۵	JMK IREV TRST	4-12/4
	PURPLEBURGH VENTURES LLC	
	MARCELLUS TX MINERAL PRINTS LTD	
ш	JMK IREV TRST	4-12/21

<u> </u>	SURFACE OWNER	DIST-TM/PAR
1	GRAHAM H. LONGWORTH JR.	4-11/1
2	DALE & MARY CUNNINGHAM	4-13/33
3	CODY M. JARRETT	4-12/19
4	MERLE L. CHAPLIN ET UX	4-12/4
5	RALPH E. WOOD	A=12/21

SUFFACE HOLE LOCATION (SAL)

NADB3. WV NORTH N:493131.610 E:1624048.850

APPROX. LANCING PONT UTM 17-N408304) N-4410507.284 E-523007.719

NAD63. WV NORTH N:492289.124 E:1622650.746 BOTTON HOLE (COUNCIL BAL)

N:497032.283 E:1619108.8610

09/27/2024

AUGUST 21, 2024



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

47-051-02519

WW-6A1 (5/13)

Operator's	Well No	Longworth 101H	
Operator's	well No.	Longworth Total	

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

AUG 2 3 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:

Permitting Specialist

⊘

	TTT-OAT attachment		Operator's view No.	Longworth 10111			
_	Parcel ID	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page		
				"at least 1/8th per			
A	04-11-1.0	Graham H. Longworth Jr., et al.	Chevron U.S.A. Inc.	WV Code 22-6-8"	DB 790/129		
,,		Chevron U.S.A. Inc.	EQT Aurora LLC		AB 47/1		
0				"at least 1/8th per			
B	04-13-33.0	Dale Cunningham, et ux.	Chesapeake Appalachia, L.L.C.	WV Code 22-6-8"	DB 681/502		
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.		AB 22/235		
		Chesapeake Appalachia, L.L.C.	Chevron U.S.A Inc.		AB 30/392		
		Statoil USA Onshore Properties Inc.	Chevron U.S.A Inc.		AB 30/404		
		Chevron U.S.A. Inc.	EQT Aurora LLC		AB 47/1		
Λ				"at least 1/8th per			
C	04-12-19.0	Brett A. Andrews, et ux.	Chevron U.S.A. Inc.	WV Code 22-6-8"	DB 773/43		
		Chevron U.S.A. Inc.	EQT Aurora LLC		AB 47/1		
				"at least 1/8th per			
U	04-12-4.0	JMK Irrevocable Trust	Chevron U.S.A. Inc.	WV Code 22-6-8"	DB 797/336		
		Chevron U.S.A. Inc.	EQT Aurora LLC		AB 47/1		
				"at least 1/8th per			
	04-12-4.0	Purpleburgh Ventures, LLC	Chevron U.S.A. Inc.	WV Code 22-6-8"	DB 1034/464		
		Chevron U.S.A. Inc.	EQT Aurora LLC		DB 1100/493		
				"at least 1/8th per			
	04-12-4.0	Marcellus TX Mineral Partners, Ltd.	Chevron U.S.A. Inc.	WV Code 22-6-8"	DB 794/561		
		Chevron U.S.A. Inc.	EQT Aurora LLC		AB 47/1		
		RECEIVED Office of Oil and Gas AUG 2 3 2024 Why Department of Environmental Protection					
		RE Hice of AUG AUG					
		of Contract of Con					
		ttrne					
		ECEIVED of Oil and G 2 3 2024 Partment of ental Protection					
		# Gas					



EQT CHAP LLC

400 Woodcliff Drive | Canonsburg, PA 15317

August 15, 2024

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

Re: Longworth 101H

Dear Mr. Brewer,

This letter and supporting documentation serve as EQT CHAP LLC's addendum to the WW-6A1 form associated with this well. The lease included on this addendum is a lease in which EQT "claims the right to extract, produce or market the oil or gas", but does not propose to encounter the lease with the proposed wellbore. EQT would like to report this lease as part of our Well Work Permit Application, as it is located within 50' of our proposed permitted wellbore.

If EQT does encounter this lease, an application for a permit modification will be filed with the West Virginia DEP, Office of Oil and Gas.

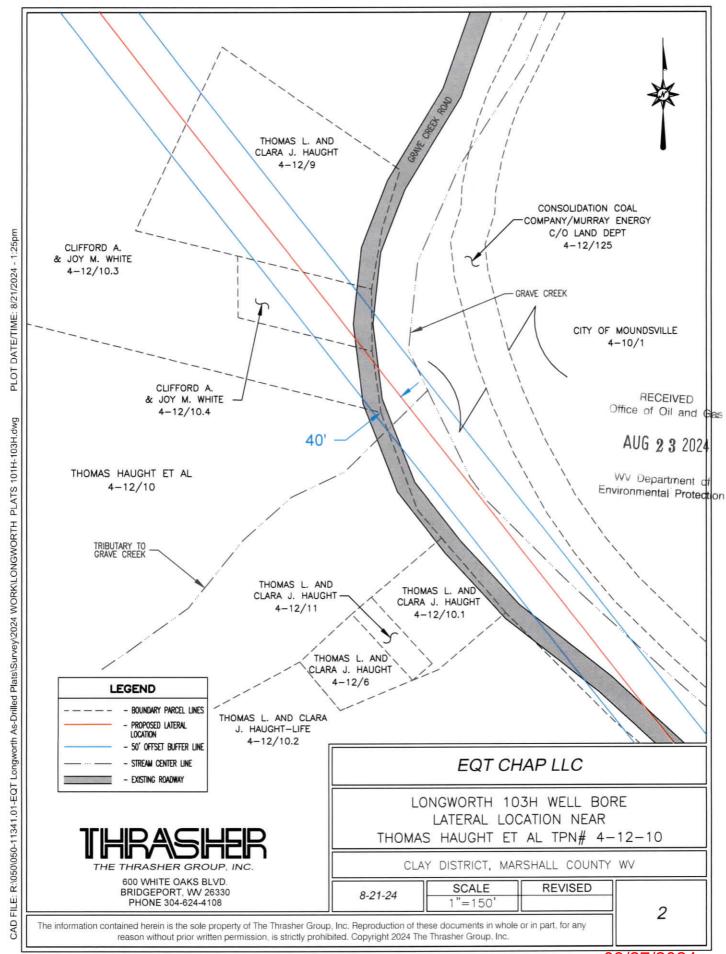
If you have any questions, please do not hesitate to contact me at 724-746-9073.

Sincerely,

John Zavatchan Permitting Specialist RECEIVED
Office of Oil and Gas

AUG 2 3 2024

Enc.



Operator's Well No.

Longworth 101H Addendum

	Parcel ID	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	
<u>_</u>	04-12-21.0	Ralph E. Wood	Chauran II C A Inn	"at least 1/8th per	DD 005/00	
Ε.	04-12-21.0	Chevron U.S.A. Inc.	Chevron U.S.A. Inc. EQT Aurora LLC	WV Code 22-6-8"	DB 835/28 AB 47/1	

RECEIVED
Office of Oil and Gas

4705102519



EQT CHAP LLC

400 Woodcliff Drive | Canonsburg, PA 15317

August 16, 2024

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

Re:

Longworth 101H 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.

Sincerely,

John Zavatchan Permitting Specialist

> RECEIVED Office of Oil and Gas

> > AUG 2 3 2024

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

			211	
Date of Noti	ce Certification: 8122124		API No. 47-	
	 		Operator's Well No.	
			Well Pad Name: Longw	orth -
Notice has	been given:	·	vven i ad ivame.	-
Pursuant to th	ne provisions in West Virginia Code	§ 22-6A, the Operator has provi	ded the required parties	with the Notice Forms listed
below for the	tract of land as follows:	g, operator mas provi	aca me required parties	with the Notice Forms fisted
State:	West Virginia	LITANIAD 02 I	Easting: 523,372.25	
County:	Marshall		Northing: 4,410,857.50	
District:	Clay	Public Road Acces	SS: Roberts Ridge Roa	d/WV-21
Quadrangle:	Glen Easton	Generally used far	m name: Longworth	
Watershed:	Middle Grave Creek-Grave Creek			
of giving the requirements Virginia Code	equired by subsections (b) and (c), so surface owner notice of entry to su of subsection (b), section sixteen o e § 22-6A-11(b), the applicant shall t have been completed by the applican	rvey pursuant to subsection (a) f this article were waived in we ender proof of and certify to the), section ten of this ar	ticle six-a; or (iii) the notice
Pursuant to that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the require	perator has attached proof to this d parties with the following:	s Notice Certification	
	ECK ALL THAT APPLY			OOG OFFICE USE ONLY
☐ 1. NO	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS		RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or I NO PLAT SURVEY	Y WAS CONDUCTED	□ RECEIVED
■ 3. NO?	FICE OF INTENT TO DRILL or	NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PL		RECEIVED/ NOT REQUIRED
		WRITTEN WAIVER BY (PLEASE ATTACH)	Y SURFACE OWNER	
■ 4. NOT	TICE OF PLANNED OPERATION	Offic	RECEIVED be of Oil and Gas	T RECEIVED
■ 5. PUB	LIC NOTICE	A	AUG 2 3 2024	☐ RECEIVED

Required Attachments:

■ 6. NOTICE OF APPLICATION

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.

wv Department of Environmental Protection RECEIVED

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 Address: 400 Woodcliff Drive By: John Zavatchan Canonsburg, PA 15317 Facsimile: 412-395-2974 Its: Permitting Specialist Telephone: 724-746-9073 Email: jzavatchan@eqt.com

NOTARY SEAL

Commonwealth of Pennsylvania - Notary Seal Olivia Wilson, Notary Public Allegheny County My commission expires October 25, 2027 Commission number 1359968

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this

, ,

My Commission Expires

Notary Public

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.

RECEIVED
Office of Oil and Gas

AUG 2 3 2024

WW-6A (9-13) API NO 447- 0 5- 1 0 2 5 1 9
OPERATOR WELL NO.
Well Pad Name: Longworth

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: 8122124 Date Permit Application Filed: 8122124 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) PERSONAL REGISTERED ☑ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL 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) COAL OWNER OR LESSEE RECEIVED Name: See Attached List Name: See Attached List Office of Oil and Gas Address: Address: AUG 2 3 2024 Name: COAL OPERATOR Name: See Attached List Address: Name: See Attached List

Address: Environmental Protection ☑ SURFACE OWNER(s) (Road and/or Other Disturbance) Name: See Attached List ☑ SURFACE OWNER OF WATER WELL Address: AND/OR WATER PURVEYOR(s) Name: See Attached List Address: ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Address: Address: *Please attach additional forms if necessary

WW-6A	
(8-13)	

API NO. 47-	1	0	2	5	1	9
OPERATOR WELL NO Well Pad Name: Longworth).		-		_	

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 that the persons may request, at the time of submitting written comments, notice of the and Gas AUG 2 3 2024 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.

Environmental. Protection

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/oiland-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 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

4705102519

WW-6A (8-13)

API NO. 47	
OPERATOR WELL NO.	
Well Pad Name: Longworth	

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: location or construction of the applicant's proposed well work to the Secretary at: Office of Oil and Gas

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

AUG 23 2024

WV Department of

(304) 926-0450

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.

WW-6A (8-13)

47.0 API NO. 47-	5	1	0	2	5	1	9
OPERATOR W							
Well Pad Name	: Lo	ongwo	rth				

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)

API467.40 5 1-0 2 5 1 9
OPERATOR WELL NO. 103H
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 deprivacyofficer@wv.gov.

Commonwealth of Pennsylvania - Notary Seal Olivia Wilson, Notary Public Allegheny County My commission expires October 25, 2027 Commission number 1359968

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this

day of August

Notary Public

My Commission Expires

RECEIVED
Office of Oil and Gas

AUG 2 3 2021

Longworth Ownership Information

Surface Owners:

Well Pad:

Graham H. Longworth Jr. 2527 Fork Ridge Road Moundsville, WV 26041

Other Disturbance:

Michael W. Derrow
6247 Roberts Ridge Road
Moundsville, WV 26041

Douglas G. Derrow

387 Sunset Lane
Glen Dale, WV 26041

Madalyn Grace Derrow 211 Washington Avenue Apt 2 Moundsville, WV 26041

Charles D. Derrow 46 Center Avenue
Wheeling WV 26003

Haden Derrow

1 Francine Court

Moundsville, WV 26041

Cody Derrow 6039 Roberts Ridge Road Moundsville, WV 26041

Mary Holmes, life estate (Holmes-CWC-Legacy LLC, remainderman) 197 Spindle Lane Moundsville, WV 26041 RECEIVED
Office of Oil and Gas

AUG 23 2024

Coal Owners:

CONSOL Mining Company LLC /

Attn: Casey Saunders 275 Technology Drive Canonsburg, PA 15317

Coal Operator:

Marshall County Coal Resources, Inc.

46226 National Road West Saint Clairsville, Ohio 43950

Water Supply Owners within 1,500'

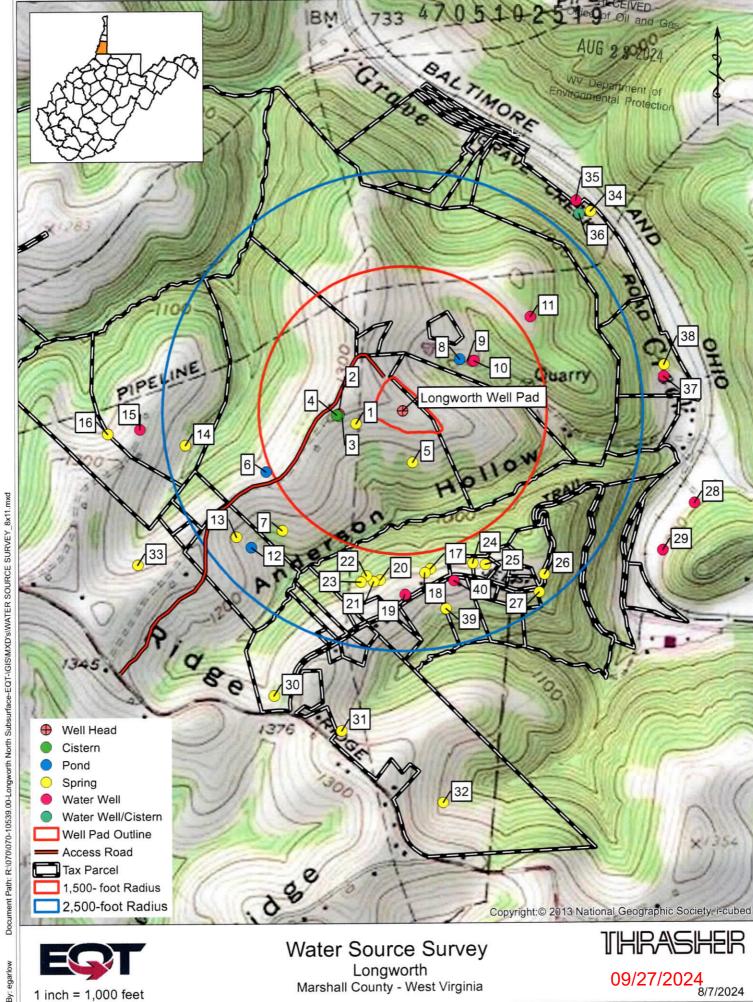
Graham H. Longworth, Jr. 2527 Fork Ridge Rd.
Moundsville, WV 26041

Daniel C. Longworth $\sqrt{}$ PO Box 1111 Moundsville, WV 26041

Mary Holmes, life estate (Holmes-CWC-Legacy LLC, remainderman) < 197 Spindle Lane
Moundsville, WV 26041

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WW-6A4 (1/12)

Operator Well No. Longworth 101H

4705102519

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 Date of Notic		vided at least TEN (10) days prior to filing a ate Permit Application Filed: _8/22/3	permit application.				
Delivery met	hod pursuant to West Virginia C	ode § 22-6A-16(b)					
☐ HAND DELIVE		CERTIFIED MAIL Y RETURN RECEIPT REQUESTED					
receipt reques drilling a hori of this subsec subsection ma and if availab	sted or hand delivery, give the surfational well: <i>Provided</i> , That notice tion as of the date the notice was pray be waived in writing by the surfate, facsimile number and electronic	ten days prior to filing a permit application, ace owner notice of its intent to enter upon the given pursuant to subsection (a), section te rovided to the surface owner: <i>Provided, how</i> ace owner. The notice, if required, shall include mail address of the operator and the operator	ne surface owner's land for the purpose of n of this article satisfies the requirements never, That the notice requirements of this add the name, address, telephone number,				
Name: See attache	reby provided to the SURFAC	Name	AUG 23 2024				
	ad list						
		-	WV Department of Environmental Protection				
the surface ov State: County: District: Quadrangle: Watershed:	wner's land for the purpose of drilling West Virginia Marshall Clay Glen Easton Middle Grave Creek - Grave Creek	notice is hereby given that the undersigned ng a horizontal well on the tract of land as fo UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	llows: 523,368.44 4,410,860.03 Roberts Ridge Road/WV-21 Longworth				
Pursuant to V facsimile nur related to hor	nber and electronic mail address or rizontal drilling may be obtained fi	o), this notice shall include the name, addr of the operator and the operator's authorize from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.de	ed representative. Additional information f Environmental Protection headquarters,				
Notice is he	reby given by:						
Well Operato	r: EQT CHAP LLC	Authorized Representative:	John Zavatchan				
Address:	400 Woodcliff Drive	Address:	400 Woodcliff Drive				
	Canonsburg, PA 15317		Canonsburg, PA 15317				
Telephone:	412-584-3132	Telephone:	412-584-3132				
Email:	JZavatchan@eqt.com	Email:	JZavatchan@eqt.com				
Facsimile:	412-395-2974	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.

Longworth Ownership Information

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Well Pad:

Graham H. Longworth Jr. 2527 Fork Ridge Road Moundsville, WV 26041

Other Disturbance:

Michael W. Derrow
6247 Roberts Ridge Road
Moundsville, WV 26041

Douglas G. Derrow / 387 Sunset Lane Glen Dale, WV 26041

Madalyn Grace Derrow

211 Washington Avenue Apt 2

Moundsville, WV 26041

Charles D. Derrow 46 Center Avenue Wheeling WV 26003

Haden Derrow

1 Francine Court

Moundsville, WV 26041

Cody Derrow ✓ 6039 Roberts Ridge Road Moundsville, WV 26041

Mary Holmes, life estate (Holmes-CWC-Legacy LLC, remainderman) 197 Spindle Lane
Moundsville, WV 26041

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WW-6A5 (1/12)

Operator Well No. Longworth 101H

4705102519

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

	e: 8177171 Date Permit Applicat	ion Filed:	122124				
Delivery met	hod pursuant to West Virginia Code § 22-6A-	16(c)					
	FIED MAIL HAND AN RECEIPT REQUESTED DELI	D IVERY					
return receipt the planned of required to be drilling of a hadamages to the (d) The notice	7. Va. Code § 22-6A-16(c), no later than the darequested or hand delivery, give the surface own peration. The notice required by this subsection provided by subsection (b), section ten of this a norizontal well; and (3) A proposed surface use e surface affected by oil and gas operations to the serequired by this section shall be given to the section.	ner whose land on shall include rticle to a surface and compensate extent the da	will be used for le: (1) A copy of ace owner whose ation agreement mages are comp	of this code section; (2) The information the land will be used in conjunction with the containing an offer of compensation for the sense be under article six-b of this chapter.			
of notice.	eby provided to the SURFACE OWNER(s)			RECEIVED Office of Oil and Gas			
(at the address	s listed in the records of the sheriff at the time of	Name:					
Address:		Address		WV Department of Environmental Protection			
Notice is here Pursuant to Woperation on State: County:	eby given: Vest Virginia Code § 22-6A-16(c), notice is herely the surface owner's land for the purpose of drillia West Virginia Marshall	by given that thing a horizonta UTM NAD 8	l well on the trac	vell operator has developed a planned et of land as follows: 523,368.44 4,410,860.03			
District:	Clay	Public Road	Access:	Roberts Ridge Road/WV-21			
Quadrangle:	Glen Easton	Generally use	ed farm name:	Longworth			
Watershed: Middle Grave Creek - Grave Creek This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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 Operator	EQT CHAP LLC	Address:	400 Woodcliff Drive				
Telephone:	412-584-3132		Canonsburg, PA 153	117			
Email:	jzavatchan@eqt.com	Facsimile:	412-395-2974				

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Douglas G. Derrow 387 Sunset Lane Glen Dale, WV 26041

Madalyn Grace Derrow 211 Washington Avenue Apt 2 Moundsville, WV 26041

Charles D. Derrow 46 Center Avenue Wheeling WV 26003

Haden Derrow
1 Francine Court
Moundsville, WV 26041

Cody Derrow 6039 Roberts Ridge Road Moundsville, WV 26041

Mary Holmes, life estate (Holmes-CWC-Legacy LLC, remainderman) 197 Spindle Lane Moundsville, WV 26041 RECEIVED Office of Oil and Gas

AUG 23 2024



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 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Longworth Well Pad, Marshall County Longworth 101H 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,

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Office of Oil and Grant

Sacy D. Prott WV Department.

WV Departition
Environmental Protection

Lacy D. Pratt

Central Office O&G Coordinator

Cc: John Zavatchan

EQT Production Company

OM, D-6

File

Anticipated Frac Additives Chemical Names and CAS Numbers

<u>Material</u>	Ingredient	CAS Number
Sand (Proppant)	Silica Substrate	14808-60-7
Water	Water	7732-18-5
Hydrochloric Acid (HCl)	Hydrogen Chloride	7 6 47-01-0
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	77-92-9
	Acetic Acid	64-19-7
Corrosion Inhibitor	PLEXHIB 166	
	Methanol	67-56-1
	Alcohols, C14-15, ethoxylated	68951-67-7

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AUG 23 2024

OPERATOR:	EQT CHAP LLC	WELL NO: 101H				
PAD NAME:_	Longworth		VXD.			
REVIEWED BY: John Zavatchan		SIGNATURE:				
WELL RESTRICTIONS CHECKLIST RECEIVED Office of Oil and Ga						
	AUG 2 3 2024					
Well Restri	ctions		Environmental Protection			
✓	At Least 100 Feet from Pad and LOD (in Perennial Stream, Lake, Pond, Reservoir	or Wetland; OR	ntrol Feature) to any			
✓	DEP Waiver and Permit Condition At Least 300 Feet from Pad and LOD (in Naturally Producing Trout Stream; OR DEP Waiver and Permit Condition	ncluding any E&S Cor	ntrol Feature) to any			
✓	At Least 1000 Feet from Pad and LOD (Groundwater Intake or Public Water Sup DEP Waiver and Permit Condition	including any E&S Copply; OR	ontrol Feature) to any			
✓	At Least 250 Feet from an Existing Water Drilled; OR	er Well or Developed	Spring to Well Being			
	Surface Owner Waiver and Reco		rk, OR			
✓	At Least 625 Feet from an Occupied Dw	velling Structure to Ce	nter of the Pad; OR			
	Surface Owner Waiver and Reco		rk, OR			
✓	DEP Variance and Permit Condi At Least 625 Feet from Agricultural But of the Pad; OR		00 Square Feet to the Center			
	Surface Owner Waiver and Reco		rk, OR			
	DEP Variance and Permit Condi	lions				