

west virginia department of environmental protection

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

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

Tuesday, May 4, 2021 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

# EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700

#### PITTSBURGH, PA 15222

Re: Permit Modification Approval for ELLIOTT 15H 47-049-02505-00-00

Lateral Extension +10,062'

#### EQT PRODUCTION COMPANY

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin Chief

Operator's Well Number: ELLIOTT 15H Farm Name: CONSOLIDATION COAL COMPANY U.S. WELL NUMBER: 47-049-02505-00-00 Horizontal 6A New Drill Date Modification Issued: May 4, 2021

Promoting a healthy environment.



EQT PRODUCTION COMPANY 400 Woodcliff Drive | Canonsburg, PA 15317 P: 724-746-9073 | www.eqt.com

April 27, 2021

Via FedEx Overnight

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

RE: Well Work Permit Modification Application Elliott 15H Well Permit Number 47-049-02505 Center District Wetzel County, WV

#### EXPEDITED REVIEW REQUESTED

#### WVDEP Recipient,

Attached please find following information to modify the existing Well Work Permit for this well:

- Check in the amount of \$5,000.00, payable to "West Virginia Department of Environmental Protection," for the expedited review fee
- Completed Form WW-6B and supporting documents, approved by the Oil and Gas Inspector
- Revised Well Bore Diagram
- Well Location Plat
- Completed Form WW-6A1 and supporting documentation

EQT is proposing to extend the lateral from the previously permitted length.

The Marion County Mine has been added to the WW-6B form. This mine was not listed on the original permit applications. The mine operator, however, had been notified prior to submittal of the original application.

The 13 3/8" casing string for this well has been set approximately 10' shallower than what had been proposed on the original well work permit application. This action was field approved, and confirmation of that approval has been included with this modification application.

EQT Production trusts that if any portion of the submitted documentation is found to be inadequate for processing the permit, notification will be made to our Permitting department at your earliest convenience. It is EQT Production's intent to cooperate fully to provide any additional requested documentation and clarification in a timely manner such that permitting proceeds in a predictable and logical manner.

Best Regards,

John Zavatchan Project Specialist – Permitting jzavatchan@eqt.com 724-746-9073

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WV Department of Environmental Protection

05/07/2021

API NO. 47-049 \_ 02505

OPERATOR WELL NO. 15H Well Pad Name: Elliott

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

Chuck # 581889 41912021

5,000,00

WW-6B

(04/15)

1) Well Operator: EQT Production Com	pany	306686	Marion	Mannington	Glover Gap
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: 15H		Well	Pad Name: Elli	ott	
3) Farm Name/Surface Owner: Consolidation	Coal C	ompany Public R	Road Access: C	R 5	
4) Elevation, current ground:	uilt) E	levation, propos	ed post-constru	ction: 1,343'	4
5) Well Type (a) Gas X Other	Dil	U	nderground Sto	rage	
(b)If Gas Shallow X Horizontal X		Deep			
6) Existing Pad: Yes or No Yes					
7) Proposed Target Formation(s), Depth(s)	, Antic	cipated Thicknes	s and Expected	Pressure(s):	
Marcellus, 7,770', 101', 2,593 psi				ECEIVED	
8) Proposed Total Vertical Depth: 7,770'			Office	of Oil and Gas	
	rcellus	3	AP	R 2 9 2021	
10) Proposed Total Measured Depth: 23,	866'			Department of	
11) Proposed Horizontal Leg Length: 14,	918'		Environ	mental Protection	
12) Approximate Fresh Water Strata Depth	IS:	202', 287'		_	
<ul><li>13) Method to Determine Fresh Water Dep</li><li>14) Approximate Saltwater Depths: 1,797</li></ul>		Offset Wells - 4	7-049-02251, 4	17-049-00878	
15) Approximate Coal Seam Depths: 435	1		.975'		
16) Approximate Depth to Possible Void (			1000		
17) Does Proposed well location contain contain contain contain contain contain contain contain contain active r	bal sea			No	
(a) If Yes, provide Mine Info: Name:	Mari	on County Mine			
Depth:	967'	-975'			
Seam:	Pitts	burgh			
Owner:	Con	solidation Coal	Company		

API NO. 47-049 - 02505

OPERATOR WELL NO. <u>15H</u> Well Pad Name: Elliott

WW-6B (04/15)

18)

### CASING AND TUBING PROGRAM

ТҮРЕ	<u>Size</u> (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	<u>Weight per ft.</u> (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> <u>(Cu. Ft.)/CTS</u>
Conductor	26	New	A-500	85.6	40	40	60 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1015	1015	900 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	2488	2488	1000 ft^3 / CTS
Production	5 1/2	New	P-110	20	23866	23866	500' above intermediate casing
Tubing							
Liners							

Bryan Harris 4/26/21

ТҮРЕ	Size (in)	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	26	30	0.312	1050	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A	1.13
Coal							
Intermediate	9 5/8	12 3/8	0.395	3950	3160	Class A	1.18
Production	5 1/2	8 1/2	0.361	14360	11488	Class A/H	1.04 - 2.098
Tubing							
Liners							
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## APR 29 2021

## PACKERS

WV Department of

	Environmental Protection								
Kind:									
Sizes:									
Depths Set:									

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

Continue drilling and complete a new horizontal well in the Marcellus Formation. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

This well has been drilled vertically and the conductor, fresh water casing and intermediate casing have been set. The depths shown for these casing strings indicate actual depths.

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): 27.35 acres (pad built)

22) Area to be disturbed for well pad only, less access road (acres): 10.47 Acres

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 joint from production casing shoe to KOP

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

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 Conductor: Class A no additives

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

 WV Department of

 Production: Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Borrelivig Agentta Retension

 Anti-Settling/Suspension Agent

25) Proposed borehole conditioning procedures:

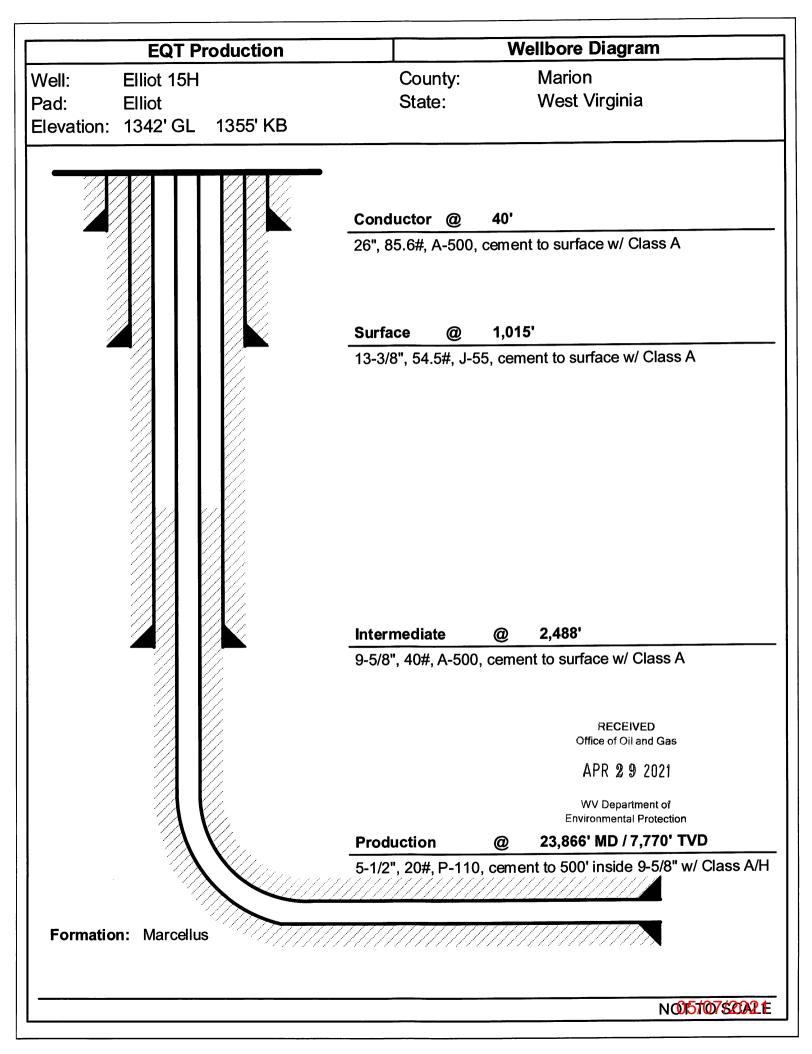
Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.

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.





#### Zavatchan, John

From: Sent: To: Cc: Subject: Harris, Bryan O <Bryan.O.Harris@wv.gov> Thursday, April 15, 2021 8:13 AM Stahl, Evan R. Ridgway, Derek RE: [External] Elliott 17H, 15H, & 13H 13-3/8" Set Depths

We spoke verbally of setting the 13 3/8" casing 10' short of permitted casing depth and I gave approval of this action. The only requirements are to make sure the actual casing depth set is reflected on the WR-35's when it is submitted to Charleston. No modification is required.

Thanks Bryan Harris Oil and Gas Inspector 304-553-6087

From: Stahl, Evan R. <EStahl@eqt.com>
Sent: Wednesday, April 14, 2021 3:13 PM
To: Harris, Bryan O <Bryan.O.Harris@wv.gov>
Cc: Ridgway, Derek <Derek.Ridgway@eqt.com>
Subject: [External] Elliott 17H, 15H, & 13H 13-3/8" Set Depths

CAUTION: External email. Do not click links or open attachments unless you verify sender.

Bryan,

I'm sending this email in an effort to follow up with documentation to our previous conversation regarding the Elliott 13-3/8" strings on the 17H, 15H, and 13H wells. As we discussed, these strings are set shallower than the depth listed on the currently issued permit (Each set at 1,015' vs the permitted 1,025'), however, they still fulfill the requirements for minimum depth past fresh water, competently seated past coal, and shallower than ground elevation requirements as laid out in the regulations. At the end of our discussion we had come to agreement of your approval for these items and planned to set at permitted depth or 30-40' deeper beginning with the 11H to avoid inconsistency with the permit. Could you please reply with confirmation of the conversation above and your approval?

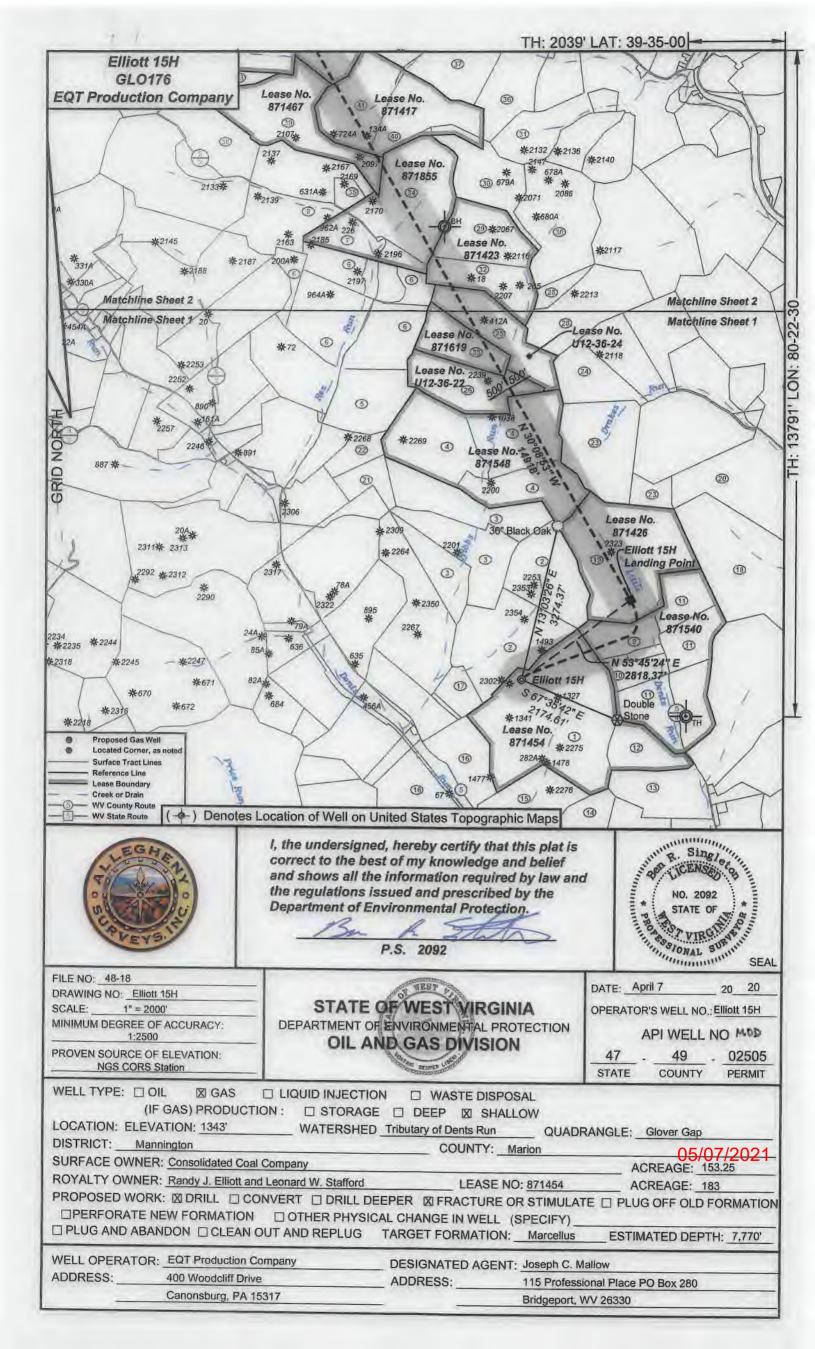
Thanks, **Evan Stahl** Drilling Engineer EQT Production M: 412-215-8360

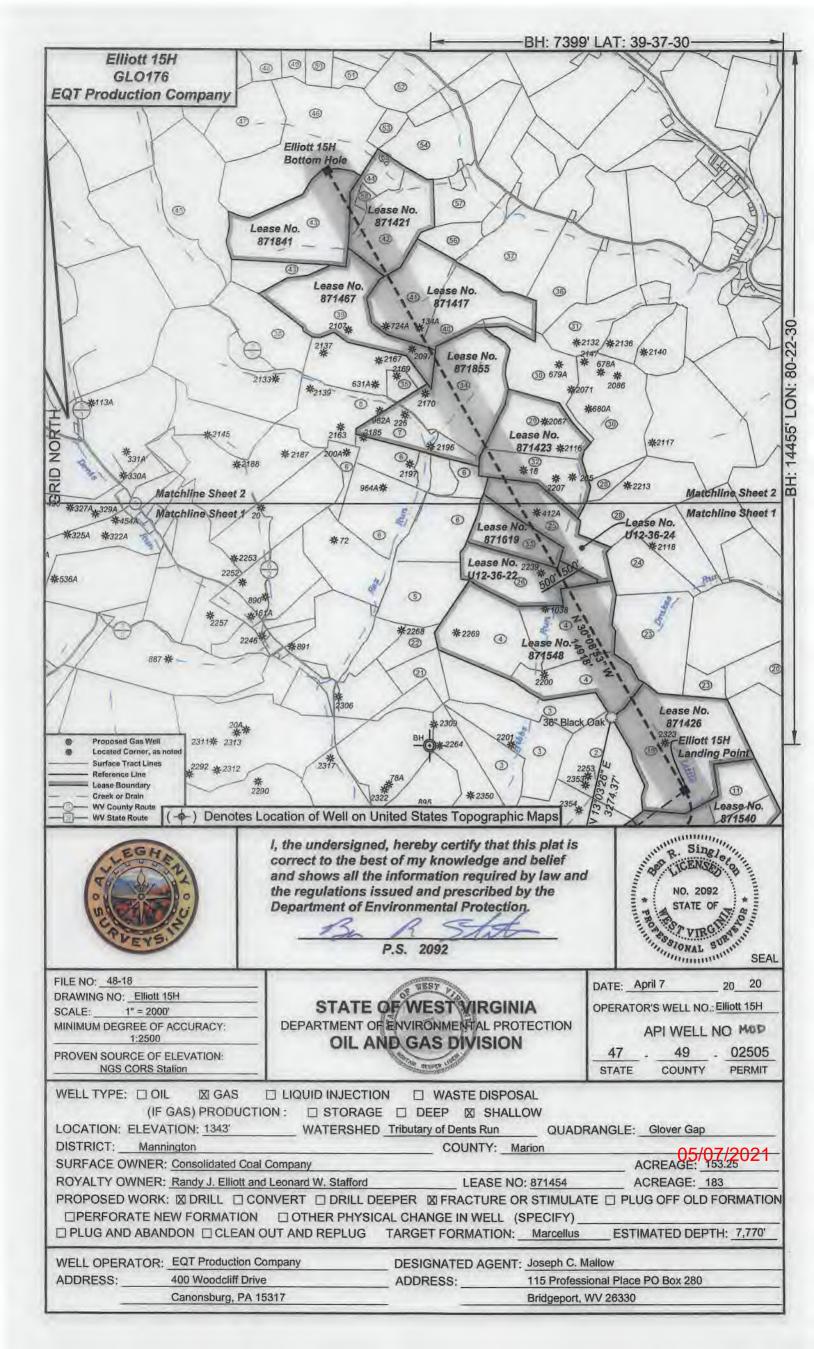
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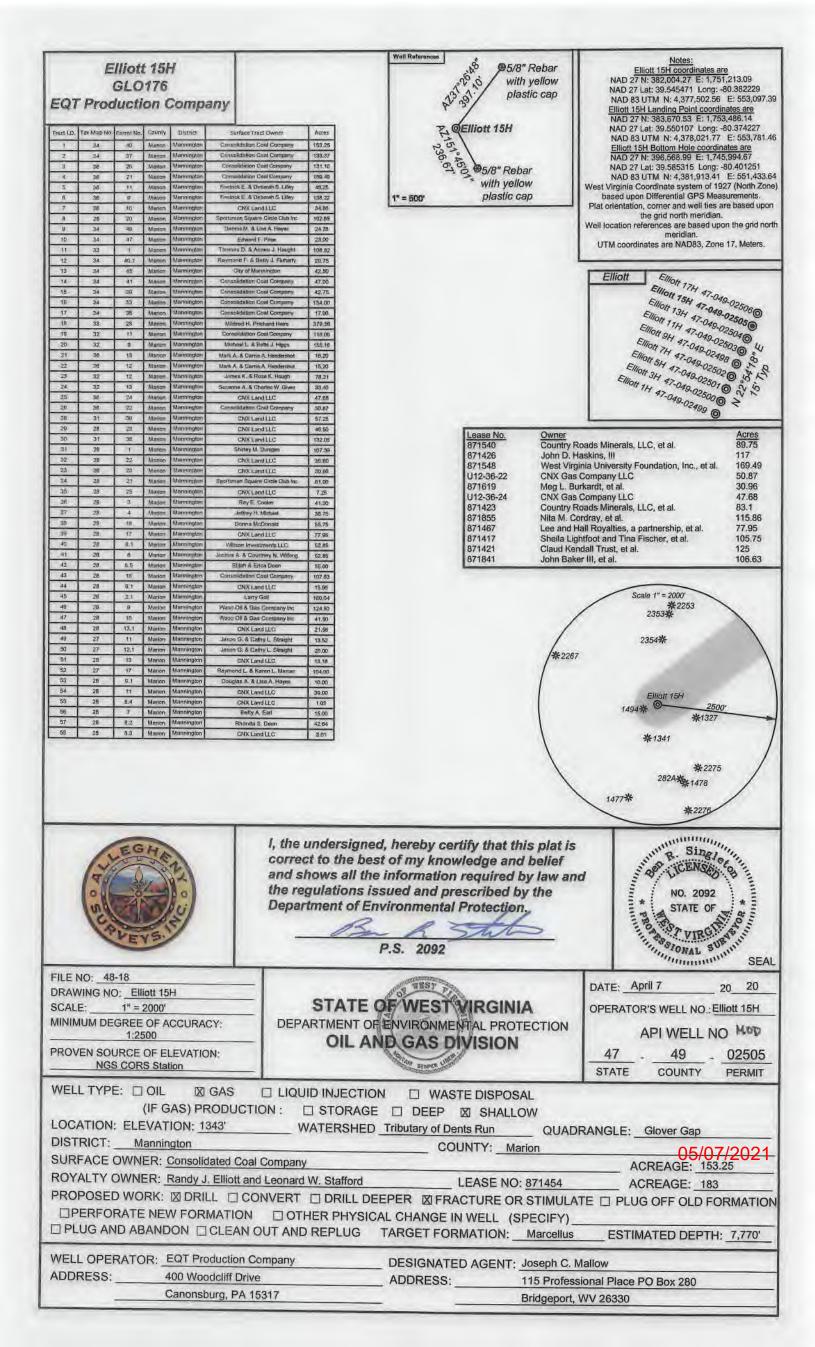
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To learn about EQT's environmental, social and governance efforts visit: https://esq.eqt.com

WV Department of Environmental Protection







WW-6A1 (5/13) Operator's Well No. Elliott 15H

#### 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

#### 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 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:	John Zavatchan John F Zavatchan Jr.	_
Its:	Project Specialist - Permitting	_

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# APR 29 2021

WV Department of Environmental Protection

WW-6A1 attachment			Operator's Well No.	Elliott 15H		
Lease No.	Grantor, Lessor, etc.		Grantee, Lessee, etc.	Royalty	Book/Page	
<u>871454</u>	Randy J. Elliott and Leonard W. Stafford Randy J. Elliott, a married man dealing in his sole/sep. property	183 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DR 1213/441	
<u>871540</u>	Country Roads Minerals, LLC, et al. Byron W. Davis, a married man dealing with his sole and sep. property American Shale Development, Inc. Republic Energy Ventures, LLC, Republic Partners VIII, LLC, et al Trans Energy, Inc. and American Shale Development, Inc.	89.75 ac	American Shale Development, Inc., (50%) and Republic Energy Ventures, LLC, (50%) Republic Partners VIII, LLC EQT Production Company EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DR 1148/27 AB 47/469 AB 51/525 DR 1228/1	
<u>871426</u>	John D. Haskins, III John D. Haskins, III, married, dealing in his sole and separate property	117 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DR 1254/532	
<u>871548</u>	West Virginia University Foundation, Inc., et al.	169.49 ac		"at least 1/8th per WV Code 22-6-8"		
	West Virginia University Foundation, Inc., for the benefit of West Virginia University		American Shale Development, Inc., (50%) and Republic Energy Ventures, LLC, (50%)		DR 1159/217	
	American Shale Development, Inc.		Republic Partners VIII, LLC		AB 47/469	
	Republic Energy Ventures, LLC, Republic Partners VIII, LLC, et al		EQT Production Company		AB 51/525	
	Trans Energy, Inc. and American Shale Development, Inc.		EQT Production Company		DR 1228/1	
<u>U12-36-22</u>	CNX Gas Company LLC	50.87 ac		"at least 1/8th per WV Code 22-6-8"		
	Consolidation Coal Company, et al. RECEIVED Office of Oil and Gas WV Department of Environmental Protection		CNX Gas Company LLC See Attached Letter		DR 1005/246	

<u>871619</u>	Meg L. Burkardt, et al. Meg L. Burkardt, single Republic Energy Ventures, LLC, Republic Partners VIII, LLC, et al Trans Energy, Inc. and American Shale Development, Inc.	30.96 ac	Republic Energy Ventures EQT Production Company EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DR 1167/663 AB 51/525 DR 1228/1
<u>U12-36-24</u>	<u>CNX Gas Company LLC</u> Consolidation Coal Company, et al.	47.68 ac	CNX Gas Company LLC See Attached Letter	"at least 1/8th per WV Code 22-6-8" "at least 1/8th per	DR 1005/246
<u>871423</u>	Country Roads Minerals, LLC, et al. Robert L. Jones and Faye H. Jones, husband and wife Trans Energy, Inc., 50%, and Republic Energy Ventures, LLC, 50% Trans Energy, Inc. American Shale Development, Inc. Republic Energy Ventures, LLC, Republic Partners VIII, LLC, et al Trans Energy, Inc. and American Shale Development, Inc.	83.1 ac	Trans Energy, Inc., 50%, and Republic Energy Ventures, LLC, 50% Tenmile Land,LLC American Shale Development, Inc. Republic Partners VIII, LLC EQT Production Company EQT Production Company	WV Code 22-6-8"	DR 1097/226 AB 42/601 AB 43/420 AB 47/469 AB 51/525 DR 1228/1
<u>871855</u>	<u>Nita M. Cordray, et al.</u> Nita M. Cordray, widow	115.86 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DR 1258/1002
<u>871467</u>	Lee and Hall Royalties, a partnership, et al. Reita Jane Hall, widow American Shale Development, Inc. Republic Energy Ventures, LLC, Republic Partners VIII, LLC, et al Trans Energy, Inc. and American Shale Development, Inc.	77.95 ac	American Shale Development, Inc., (50%) and Republic Energy Ventures, LLC, (50%) Republic Partners VIII, LLC EQT Production Company EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DR 1118/277 AB 47/469 AB 51/525 DR 1228/1
<u>871417</u>	Sheila Lightfoot and Tina Fischer, et al. Sheila Lightfoot, Individually, and Tina Fischer by Sheila Lightfoot, Attorney- in-Fact Republic Energy Ventures, LLC Proceeding of Oil and Qas Proceeding Proceeding	105.75 ac	Republic Energy Ventures, LLC EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DR 1199/971 AB 52/189

				at least 1/8th per	
<u>871421</u>	<u>Claud Kendall Trust, et al.</u>	125 ac		WV Code 22-6-8"	
	Claud Kendall		Tenmile Land, LLC		DR 1100/327 & DR1092/802
			Trans Energy, Inc., 50%, and Republic Energy		
	Tenmile Land, LLC		Ventures, LLC, 50%		DR 1102/58
	Trans Energy, Inc.		American Shale Development, Inc.		AB 43/420
	American Shale Development, Inc.		Republic Partners VIII, LLC		AB 47/469
	Republic Energy Ventures, LLC, Republic Partners VIII, LLC, et al		EQT Production Company		AB 51/525
	Trans Energy, Inc. and American Shale Development, Inc.		EQT Production Company		DR 1228/1
				"at least 1/8th per	
<u>871841</u>	<u>John Baker III, et al.</u>	106.63 ac		WV Code 22-6-8"	
	John Baker III, (married dealing in his sole and serarate property)		EQT Production Company		DR 1276/283

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#### DRILLING LETTER AGREEMENT

March 4, 2021

CNX Gas Company LLC Attn: Peter Binotto 1000 CONSOL Energy Drive Canonsburg, PA 15317 Phone: (724) 485-3206 e-mail: PeterBinotto(a/cnx.com

#### RE: Drilling Letter Issued Pursuant to Acreage Trade Agreement

Dear Mr. Binotto:

1. Reference is made to that certain Acreage Trade Agreement dated February 12, 2021 (the "*Trade Agreement*") between EQT Production Company, a Pennsylvania corporation, and Rice Drilling B LLC, a Delaware limited liability company (collectively "*EQT*"), and CNX Gas Company LLC, a Virginia limited liability company ("*CNX*"), governing an exchange of certain oil and gas leases in Armstrong, Greene, and Washington Counties, Pennsylvania and Doddridge, Marion, Marshall, Monongalia, Tyler, and Wetzel Counties, West Virginia (the "*Exchange*"). All capitalized terms used but not otherwise defined herein shall have the meanings (if any) ascribed to them in the Trade Agreement.

2. Pursuant to Section V.C of the Trade Agreement, EQT ("*Drilling Party*") issued a Drilling Letter Request to CNX ("*Assignor*") identifying its need to drill, complete and produce wells upon those certain Oil and Gas Leases of Assignor set forth on <u>Exhibit A</u> hereto (the "*Drilling Leases*") prior to the Closing. This letter is the Drilling Letter resulting from the aforementioned Drilling Letter Request. Assignor will assign the Drilling Leases as to the Target Formation to Drilling Party on or before June 17. 2021, subject to the terms of the Trade Agreement.

Subject to Section V.C of the Trade Agreement, Assignor hereby grants Drilling Party and/or its designated affiliates the rights to make regulatory permit applications and, upon receipt of all necessary permits and government approvals, to horizontally drill, complete and produce one (1) or more wellbore laterals ("Wells") through and in the Target Formation of the lands covered by the Drilling Leases and to extract, produce and market the hydrocarbons therefrom; provided, however, that Assignor hereby expressly withholds to itself and its successors and assigns, and does not grant Drilling Party and or its designated affiliates, the right to access the surface of or to conduct surface operations on the lands covered by the Drilling Leases. Drilling Party hereby agrees to indemnify, defend and hold harmless Assignor for, from and against any and all Claims (as defined below) sustained by Assignor or its affiliates or related from and against any and all Claims (as defined octory) sustained by Larger the respect to the Drilling office of Oil and Gas RECEIVED Leases, including, without limitation, the drilling of the Wells and Drilling Party's development and Leases, including, without limitation, the drining of the webs and trend and trends operation of the Drilling Leases, that arise on or after the date of this Drilling Letter. "Claims" shall mean APR 29 2021 fines, fees, charges, assessments, liabilities (including environmental liabilities), damages (including environmental and natural resources damages), claims, judgments, executions, costs and expenses of any Department of kind (including, without limitation, attorney's fees, expert's fees, court costs and other out-of-pocket lees and disbursements), taxes, and interest, whether existing or incurred or asserted in the future, in connection with (a) any such claim or the defense thereof, (b) amounts paid in settlement, orders, liens, or decrees, or (c) any injury or damage of any kind and nature to persons (including sickness, illness and/or death), mines.

wells or property claims or to the Drilling Leases or natural resources and with respect to any of the foregoing, whether sustained or brought by or against Assignor or any third purty. Notwithstanding any of the foregoing in the event that any Claims arise from the joint or concurrent needbeenes of Assignor, the less shall be borne by Drilling Party and Assignor propertionately to their degree of needbeenes, and Drilling Party shall have no obligation to indemnity Assignor against Assignor is negligence or will full susconduct.

1. This Drilling Letter is specifically made subject to the terms and conditions of the Trade Agreement. In the event of any conflict between the terms of this Drilling Letter and the terms of the Trade Agreement, the terms of the Trade Agreement shall control.

5. This Drilling E etter shall be governed by, construed, interpreted and applied in a conduct with the laws of the State or Commonwealth in which the Drilling Leases are located, excluding any choice of law rules which would refer the matter to the laws of another jurisdiction.

6 This Drilling Letter may be executed in any number of counterparts, each of which shall be considered an original for all purposes, and all of which, when taken together shall constitute one and the same instrument, provided that this Drilling Letter but shall not be binding upon either of Drilling Party or Assigner until fully executed by both of them.

If the above meets your approval, please execute in the space provided below and return one signed sopy to my attention. Should you have any questions, please contact John Zavaichan at (112) 384-3132 or (zavatchan / eqt con-

#### Sincerely.

#### **FQT Production Company**

By (mg Perk By Corev C Peck Tate - Authorized Agent

#### **Rice Drilling B LLC**

By Constanting Name Corey ( Peck Title Authorized Agent

 $T^{*}$ 

1.1

Acknowledged, Accepted and Agreed to this 577° day of March, 2021.

CNX Gas Company LLC

Name: PETER J DINOTO Lille: ASSUIDE SILL MESIDENT

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#### EXHIBIT A TO DRILLING LETTER

#### DRILLING LEASES

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