



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

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 17H
47-049-02506-00-00

Lateral Extension +9889'

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 17H
Farm Name: CONSOLIDATION COAL COMPANY
U.S. WELL NUMBER: 47-049-02506-00-00
Horizontal 6A New Drill
Date Modification Issued: May 4, 2021

Promoting a healthy environment.

05/07/2021



4704902506

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 57th Street, S.E.
Charleston, WV 25304

RE: Well Work Permit Modification Application
Elliott 17H Well
Permit Number 47-049-02506
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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Office of Oil and Gas
APR 29 2021
WV Department of
Environmental Protection

05/07/2021

WW-6B
(04/15)

Check # 587890
4/9/2021
\$5,000.00

API NO. 47-049 - 02506

OPERATOR WELL NO. 17H

Well Pad Name: Elliott

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

1) Well Operator: EQT Production Company 306686 Marion Mannington Glover Gap
Operator ID County District Quadrangle

2) Operator's Well Number: 17H Well Pad Name: Elliott

3) Farm Name/Surface Owner: Consolidation Coal Company Public Road Access: CR 5

4) Elevation, current ground: 1,343' (as-built) Elevation, proposed post-construction: 1,343'

5) Well Type (a) Gas Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow Deep _____

Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 7,770', 101', 2,593 psi

8) Proposed Total Vertical Depth: 7,770'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 24,007'

11) Proposed Horizontal Leg Length: 14,670'

12) Approximate Fresh Water Strata Depths: 202', 287'

13) Method to Determine Fresh Water Depths: Offset Wells - 47-049-02251, 47-049-00878

14) Approximate Saltwater Depths: 1,797', 1,895', 2,412'

15) Approximate Coal Seam Depths: 435'-437', 870'-875', 967'-975'

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

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No _____

(a) If Yes, provide Mine Info: Name: Marion County Mine
Depth: 967'-975'
Seam: Pittsburgh Seam
Owner: Consolidation Coal Company

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18) **CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	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	2492	2492	1000 ft ³ / CTS
Production	5 1/2	New	P-110	20	24007	24007	500' above intermediate casing
Tubing							
Liners							

Bryan Harris 4/26/21

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	0.312	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							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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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

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

Conductor: Class A 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.

Office of Oil and Gas

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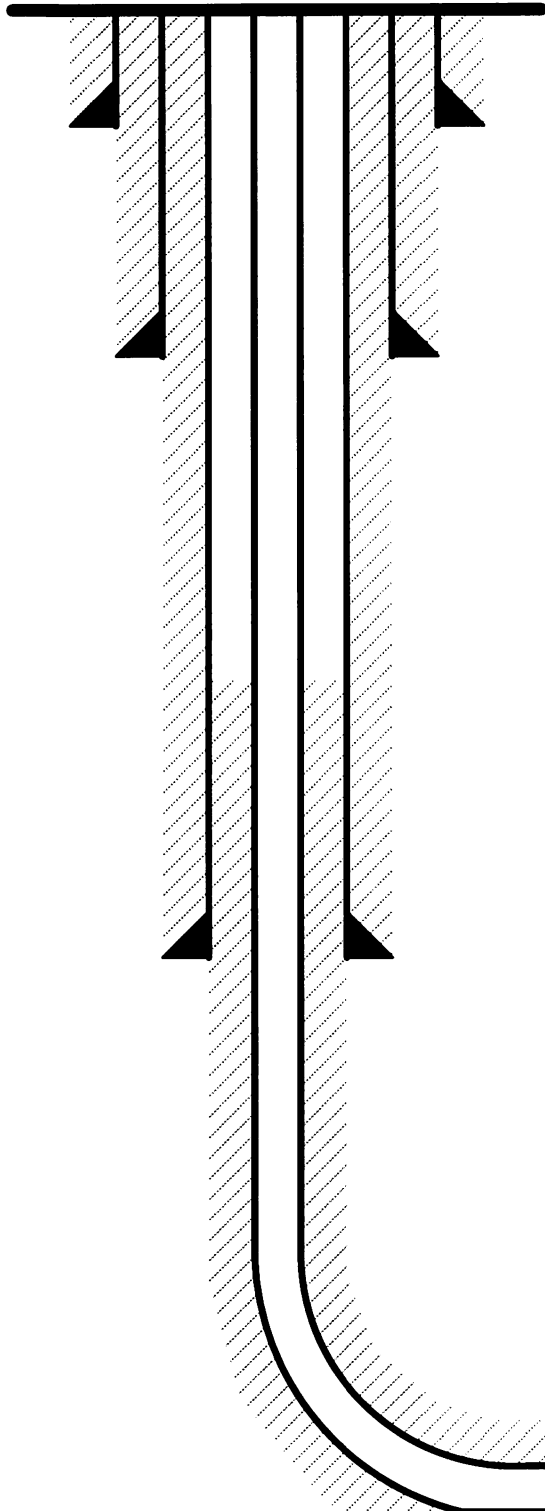
*Note: Attach additional sheets as needed.

EQT Production

Wellbore Diagram

Well: Elliot 17H
Pad: Elliot
Elevation: 1342' GL 1355' KB

County: Marion
State: West Virginia



Conductor @ 40'

26", 85.6#, A-500, cement to surface w/ Class A

Surface @ 1,015'

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

Intermediate @ 2,492'

9-5/8", 40#, A-500, cement to surface w/ Class A

Production @ 24,007' MD / 7,770' TVD

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

Formation: Marcellus

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APR 29 2021

WV Department of
Environmental Protection

NO SCALE

Zavatchan, John

From: Harris, Bryan O <Bryan.O.Harris@wv.gov>
Sent: Thursday, April 15, 2021 8:13 AM
To: Stahl, Evan R.
Cc: Ridgway, Derek
Subject: 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?

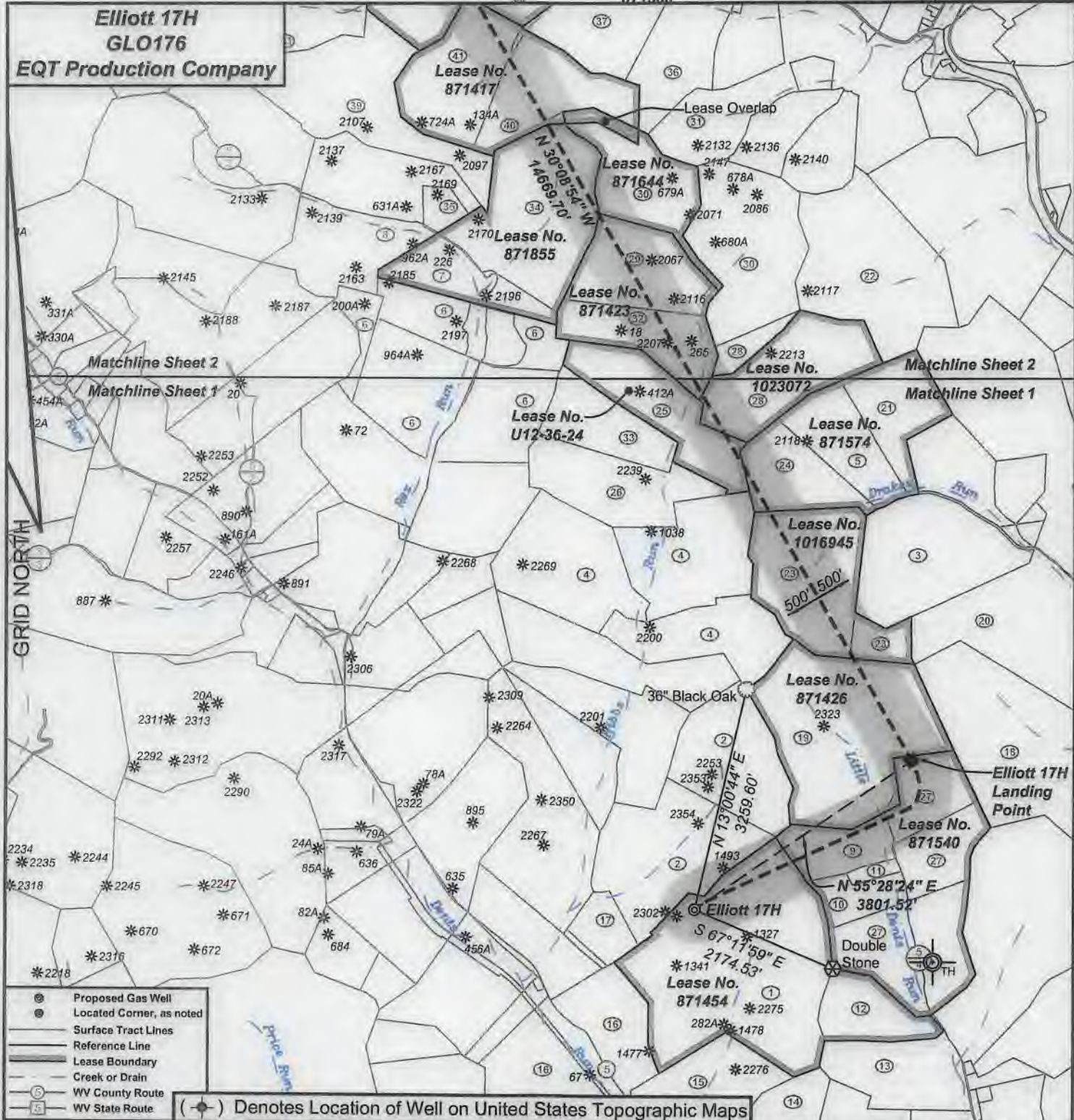
Thanks,

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

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

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Office of Oil and Gas
APR 29 2021
WV Department of
Environmental Protection

**Elliott 17H
GLO176
EQT Production Company**



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Ben R. Singleton

P.S. 2092



SEAL

FILE NO: 48-18
DRAWING NO: Elliott 17H
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: April 7 20 21
OPERATOR'S WELL NO.: Elliott 17H
API WELL NO **MD**
47 - 49 - 02506
STATE COUNTY PERMIT

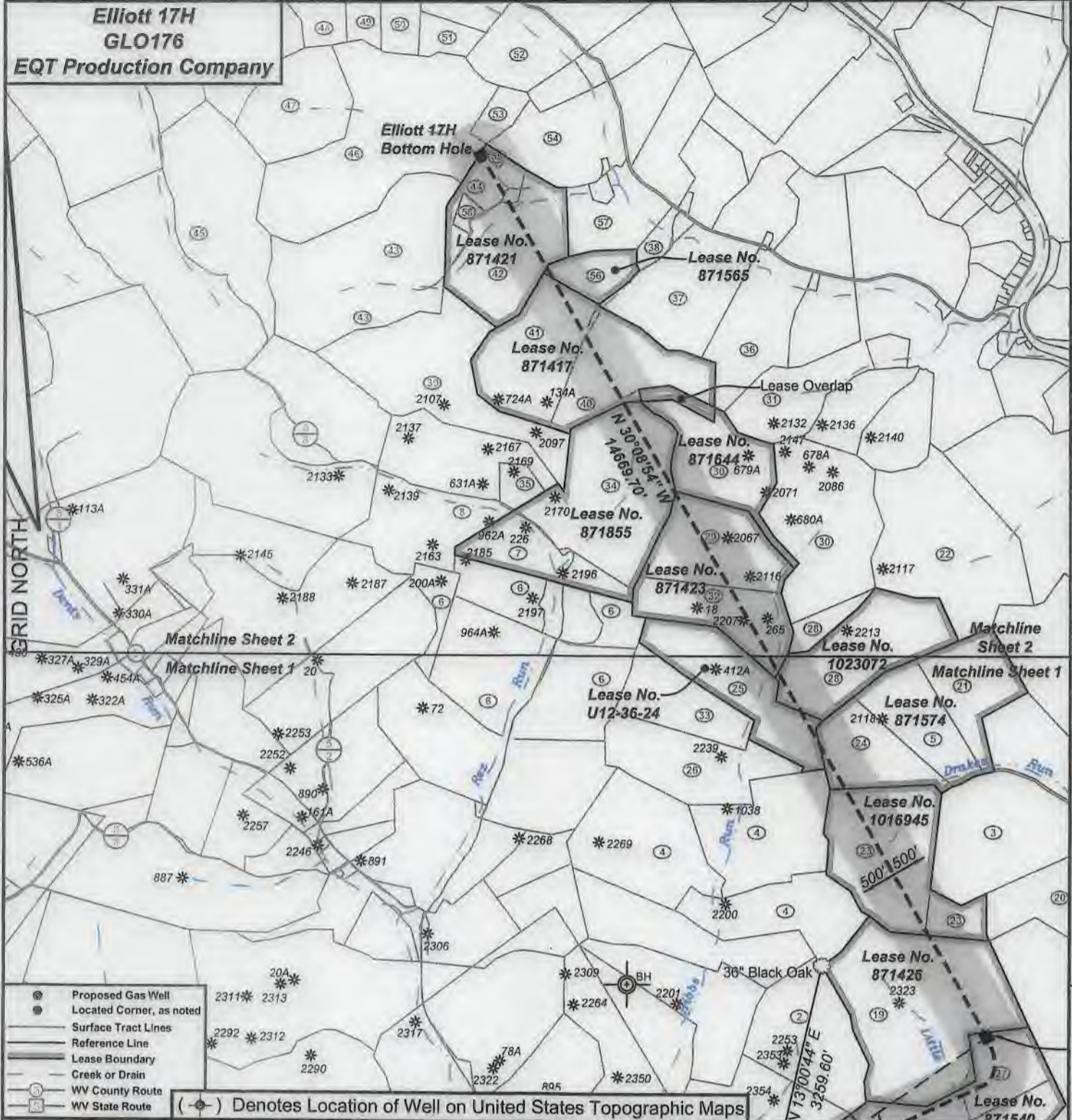
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1343' WATERSHED Tributary of Dents Run QUADRANGLE: Glover Gap
DISTRICT: Mannington COUNTY: Marion
SURFACE OWNER: Consolidated Coal Company ACREAGE: 153.25
ROYALTY OWNER: Randy J. Elliott and Leonard W. Stafford LEASE NO: 871454 ACREAGE: 183
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,770'

05/07/2021

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280
Canonsburg, PA 15317 Bridgeport, WV 26330

BH: 6413' LAT: 39-37-30

**Elliott 17H
GLO176
EQT Production Company**



BH: 14156' LON: 80-22-30

- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- Ⓢ WV County Route
- Ⓡ WV State Route

(⊙) Denotes Location of Well on United States Topographic Maps



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Ben R. Singleton
P.S. 2092



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DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

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API WELL NO **MDD**
47 - 49 - 02506
STATE COUNTY PERMIT

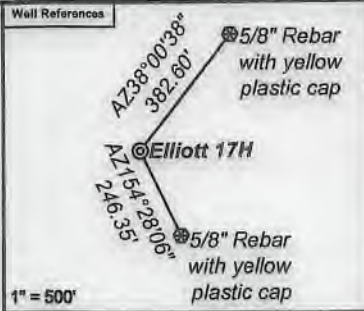
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05/07/2021

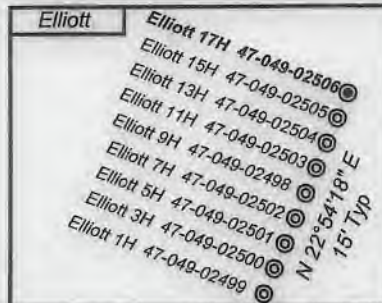
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**Elliott 17H
GLO176
EQT Production Company**

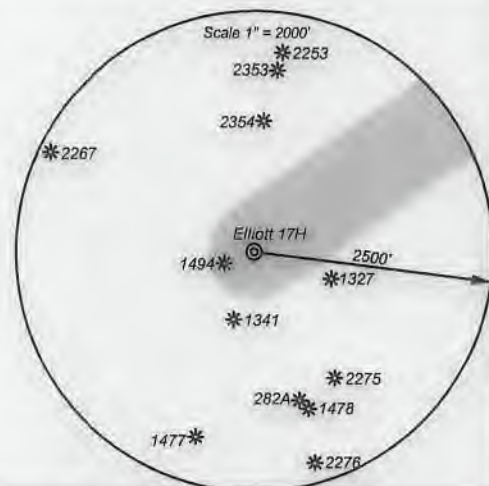
Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	34	40	Marion	Mannington	Consolidation Coal Company	153.25
2	34	37	Marion	Mannington	Consolidation Coal Company	133.37
3	32	10	Marion	Mannington	Anna M. Mite, et al.	73.51
4	36	21	Marion	Mannington	Consolidation Coal Company	169.48
5	32	13.1	Marion	Mannington	Willis E. Anderson	33.40
6	36	9	Marion	Mannington	Fredrick E. & Deborah S. Lilley	138.22
7	36	10	Marion	Mannington	CNX Land LLC	34.86
8	28	20	Marion	Mannington	Sportsman Square Circle Club Inc	162.85
9	34	49	Marion	Mannington	Dennis M. & Lisa A. Hayes	24.78
10	34	47	Marion	Mannington	Edward F. Price	23.00
11	34	48	Marion	Mannington	Edward F. Price	3.00
12	34	40.1	Marion	Mannington	Raymond F. & Betty J. Fluharty	29.75
13	34	45	Marion	Mannington	City of Mannington	42.50
14	34	41	Marion	Mannington	Consolidation Coal Company	47.00
15	34	38	Marion	Mannington	Consolidation Coal Company	42.75
16	34	33	Marion	Mannington	Consolidation Coal Company	134.00
17	34	29	Marion	Mannington	Consolidation Coal Company	17.00
18	33	26	Marion	Mannington	Mildred H. Pritchard Here	979.56
19	32	11	Marion	Mannington	Consolidation Coal Company	116.00
20	32	9	Marion	Mannington	Michael L. & Belle J. Hoge	155.18
21	32	13.2	Marion	Mannington	Susanne A. & Charles W. Given	33.40
22	31	34.1	Marion	Mannington	Consolidation Coal Company	88.05
23	32	12	Marion	Mannington	James K. & Rose K. Haugh	78.21
24	32	13	Marion	Mannington	Susanne A. & Charles W. Given	33.40
25	36	24	Marion	Mannington	CNX Land LLC	47.68
26	36	22	Marion	Mannington	Consolidation Coal Company	56.87
27	33	1	Marion	Mannington	Thomas D. & Aimee J. Haight	166.82
28	31	38	Marion	Mannington	CNX Land LLC	57.25
29	28	23	Marion	Mannington	CNX Land LLC	46.50
30	31	38	Marion	Mannington	CNX Land LLC	132.05
31	28	1	Marion	Mannington	Shirley M. Durigan	107.39
32	28	22	Marion	Mannington	CNX Land LLC	36.80
33	36	23	Marion	Mannington	CNX Land LLC	30.98
34	28	21	Marion	Mannington	Sportsman Square Circle Club Inc	81.00
35	28	26	Marion	Mannington	CNX Land LLC	7.25
36	28	3	Marion	Mannington	Ray E. Cooker	41.30
37	28	4	Marion	Mannington	Jeffrey H. McNeal	38.75
38	28	5	Marion	Mannington	Betty A. Earl	9.00
39	28	17	Marion	Mannington	CNX Land LLC	77.95
40	28	6.1	Marion	Mannington	Wilkon Investments LLC	52.85
41	28	6	Marion	Mannington	Joshua A. & Courtney N. Willong	52.85
42	28	6.5	Marion	Mannington	Elijah & Erica Dean	55.00
43	28	18	Marion	Mannington	Consolidation Coal Company	107.83
44	28	8.1	Marion	Mannington	CNX Land LLC	15.95
45	28	2.1	Marion	Mannington	Larry Galt	190.04
46	28	9	Marion	Mannington	Waco Oil & Gas Company Inc	124.50
47	28	10	Marion	Mannington	Waco Oil & Gas Company Inc	41.50
48	28	13.1	Marion	Mannington	CNX Land LLC	21.58
49	27	11	Marion	Mannington	Jason G. & Cathy L. Straight	13.52
50	27	12.1	Marion	Mannington	Jason G. & Cathy L. Straight	20.00
51	28	13	Marion	Mannington	CNX Land LLC	13.16
52	27	17	Marion	Mannington	Raymond L. & Karen L. Mercer	104.00
53	28	9.1	Marion	Mannington	Douglas A. & Lisa A. Hayes	10.00
54	28	11	Marion	Mannington	CNX Land LLC	30.00
55	28	8.4	Marion	Mannington	CNX Land LLC	1.03
56	28	7	Marion	Mannington	Betty A. Earl	15.00
57	28	8.2	Marion	Mannington	Rhonda S. Dean	42.64
58	28	8.3	Marion	Mannington	CNX Land LLC	3.91



Notes:
 Elliott 17H coordinates are
 NAD 27 N: 382,018.08 E: 1,751,218.93
 NAD 27 Lat: 39.545509 Long: -80.382209
 NAD 83 UTM N: 4,377,506.80 E: 553,099.10
 Elliott 17H Landing Point coordinates are
 NAD 27 N: 384,172.75 E: 1,754,350.86
 NAD 27 Lat: 39.551509 Long: -80.371177
 NAD 83 UTM N: 4,378,179.17 E: 554,042.37
 Elliott 17H Bottom Hole coordinates are
 NAD 27 N: 396,858.07 E: 1,746,983.17
 NAD 27 Lat: 39.586136 Long: -80.397754
 NAD 83 UTM N: 4,382,006.51 E: 551,733.33
 West Virginia Coordinate system of 1927 (North Zone)
 based upon Differential GPS Measurements.
 Plat orientation, corner and well ties are based upon
 the grid north meridian.
 Well location references are based upon the grid north
 meridian.
 UTM coordinates are NAD83, Zone 17, Meters.



Lease No.	Owner	Acres
871540	Country Roads Minerals, LLC, et al.	89.75
871426	John D. Haskins, III	117
1016945	Ferrari VI OG, LLC, Bradley W. Thomas, Robert F. Horner & Jacob G. Ford, et al.	78.21
871574	Robert J. Gunter, Jr., et al.	100.209
U12-36-24	CNX Land LLC	47.68
1023072	WV Minerals Inc., et al.	56.25
871423	Country Roads Minerals, LLC, et al.	83.1
871855	Nita M. Cordray, et al.	115.86
871644	J & N Management Enterprises, LLC	48.75
871417	Sheila Lightfoot and Tina Fischer, et al.	105.75
871565	Lora L. Rinehart, et al.	15
871421	Claud Kendall Trust, et al.	125



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Ben R. Singleton

P.S. 2092



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05/07/2021

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
 ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280
 Canonsburg, PA 15317 Bridgeport, WV 26330

WW-6A1
(5/13)

Operator's Well No. Elliott 17H

**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 the 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

RECEIVED
Office of Oil and Gas

APR 29 2021

WV Department of
Environmental Protection

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

WW-6A1 attachment

Operator's Well No.

Elliott 17H

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>871454</u>	<u>Randy J. Elliott and Leonard W. Stafford</u> 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>	<u>Country Roads Minerals, LLC, et al.</u> 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>	<u>John D. Haskins, III</u> 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>1016945</u>	<u>Ferrari VI OG, LLC, Bradley W. Thomas, Robert F. Horner & Jacob G. Ford, et al.</u> Ferrari VI OG, LLC, Bradley W. Thomas, a married man dealing in his sole and separate property, Robert F. Horner, a married man dealing in his sole and separate, and Jacob G. Ford, a married man dealing in his sole and separate property	78.21 ac EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DR 1203/339
<u>871574</u>	<u>Robert L. Gunter, Jr., et al.</u> Robert L. Gunter, Jr., a married man dealing in his sole and separate property Republic Energy Ventures, LLC, Republic Partners VIII, LLC, et al Trans Energy, Inc. and American Shale Development, Inc.	100.209 ac Republic Energy Ventures, LLC EQT Production Company EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DR 1167/87 AB 51/525 DR 1228/1

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<u>U12-36-24</u>	<u>CNX Gas Company LLC</u>	47.68 ac	"at least 1/8th per WV Code 22-6-8"
	Consolidation Coal Company, et al.	CNX Gas Company LLC	DR 1005/246
		See Attached Letter	
<u>1023072</u>	<u>WV Minerals Inc., et al.</u>	56.25 ac	"at least 1/8th per WV Code 22-6-8"
	WV Minerals, Inc.	EQT Production Company	DR 1119/98
<u>871423</u>	<u>Country Roads Minerals, LLC, et al.</u>	83.1 ac	"at least 1/8th per WV Code 22-6-8"
	Robert L. Jones and Faye H. Jones, husband and wife	Trans Energy, Inc., 50%, and Republic Energy Ventures, LLC, 50%	DR 1097/226
	Trans Energy, Inc., 50%, and Republic Energy Ventures, LLC, 50%	Tenmile Land, LLC	AB 42/601
	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
<u>871855</u>	<u>Nita M. Cordray, et al.</u>	115.86 ac	"at least 1/8th per WV Code 22-6-8"
	Nita M. Cordray, widow	EQT Production Company	DR 1258/1002
<u>871644</u>	<u>J & N Management Enterprises, LLC</u>	48.75 ac	"at least 1/8th per WV Code 22-6-8"
	Nancy Fout and John Fout, wife and husband	Republic Energy Ventures	DR 1188/289
Buffer	Republic Energy Ventures, LLC, et al	EQT Production Company	AB 51/525
<u>871417</u>	<u>Sheila Lightfoot and Tina Fischer, et al.</u>	105.75 ac	"at least 1/8th per WV Code 22-6-8"
	Sheila Lightfoot, Individually, and Tina Fischer by Sheila Lightfoot, Attorney- in-Fact	Republic Energy Ventures, LLC	DR 1199/971
	Republic Energy Ventures, LLC	EQT Production Company	AB 52/189

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<u>871565</u>	<u>Lora L. Rinehart, et al.</u>	15 ac	"at least 1/8th per WV Code 22-6-8"
	Lora L. Rinehart and Jack Rinehart, her husband American Shale Development, Inc. Republic Energy Ventures, LLC, Republic Partners VIII, LLC, et al Trans Energy, Inc. and American Shale Development, Inc.		American Shale Development, Inc., (50%) and Republic Energy Ventures, LLC, (50%) Republic Partners VIII, LLC EQT Production Company EQT Production Company DR 1153/447 AB 47/469 AB 51/525 DR 1228/1
<u>871421</u>	<u>Claud Kendall Trust, et al.</u>	125 ac	"at least 1/8th per WV Code 22-6-8"
	Claud Kendall Tenmile Land, LLC 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.		Tenmile Land, LLC Trans Energy, Inc., 50%, and Republic Energy Ventures, LLC, 50% American Shale Development, Inc. Republic Partners VIII, LLC EQT Production Company EQT Production Company DR 1100/327 & DR1092/802 DR 1102/58 AB 43/420 AB 47/469 AB 51/525 DR 1228/1

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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@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 L.L.C. a Delaware limited liability company (collectively "**EQT**"), and CNX Gas Company L.L.C. 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 Exhibit A 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.

3. 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 companies resulting from or in connection with Drilling Party's activities with respect to the Drilling Leases, including, without limitation, the drilling of the Wells and Drilling Party's development and operation of the Drilling Leases, that arise on or after the date of this Drilling Letter. "**Claims**" shall mean any and all losses, suits, proceedings, actions, causes of action, in law or at equity, demands, penalties, fines, fees, charges, assessments, liabilities (including environmental liabilities), damages (including environmental and natural resources damages), claims, judgments, executions, costs and expenses of any kind (including, without limitation, attorney's fees, expert's fees, court costs and other out-of-pocket fees 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), mine

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well, 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 party. Notwithstanding any of the foregoing, in the event that any Claims arise from the joint or concurrent negligence of Assignor, the loss shall be borne by Drilling Party and Assignor proportionately to their degree of negligence, and Drilling Party shall have no obligation to indemnify Assignor against Assignor's negligence or willful misconduct.

4. 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 Letter shall be governed by, construed, interpreted and applied in accordance 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 Assignor until fully executed by both of them.

If the above meets your approval, please execute in the space provided below and return one signed copy to my attention. Should you have any questions, please contact John Zavaichan at (177) 584-3132 or zavaichan@eqp.com.

Sincerely,

EQP Production Company

By: *Corey C. Peck* /s/ _____
Name: Corey C. Peck
Title: Authorized Agent

Rice Drilling B.L.L.C.

By: *Corey C. Peck* /s/ _____
Name: Corey C. Peck
Title: Authorized Agent

Acknowledged, Accepted and Agreed to this 5th day of March, 2021.

CNX Gas Company LLC

By: *[Signature]*
Name: *YETER J. JENNIFER*
Title: *Assistant Vice President*

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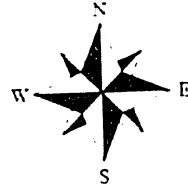
EXHIBIT A
TO DRILLING LETTER

DRILLING LEASES

Property Type	Agreement #	Original Lessee/Owner	Original Lease/Contract	Effective Date	Gross Acres	Net Acres to be Covered	Net Acres	Accounting Book/Page	Wellhead Number	State	County	Township	Tax Parcel Number(s)	State Tract
Lease	28637000	ELMS BROTHERS & COMPANY LTD	ROE DRILLING LLC	10/9/2014	30.5223	31.1422	31.144	475/104	2014000006	PENNSYLVANIA	Greene	Barth	15M22 04 0101 A 05 22 04 0101 15M22 04 0178 A 22 04 0101 B 22 04 0101 C 01 22 04 0101 D 01 22 04	Yes, covering the portion of the Lease # 1
Lease	29111000	THREE RIVERS ENERGY COMPANY	ROYALTY LLC	12/18/2014	73.4000	86.7000	82.0949	714/788	2019000004	PENNSYLVANIA	Greene	Barth	15M22 04 0101 A 05 22 04 0101 15M22 04 0178 A 22 04 0101 B 22 04 0101 C 01 22 04 0101 D 01 22 04	Yes, covering the portion of the Lease # 1
Lease	29284200	THREE RIVERS ENERGY COMPANY	APPROACH LLC	12/17/2014	126.4000	14.0535	11.5219	533/190	21180000412	PENNSYLVANIA	Greene	Barth	15M22 04 0101 A 05 22 04 0101 15M22 04 0178 A 22 04 0101 B 22 04 0101 C 01 22 04 0101 D 01 22 04	Yes, covering the portion of the Lease # 1
Lease	27142000	RONALD ROBERT M TON	ENK HAS COMPANY	4/22/2015	88.0000	88.0000	71.0500	482/1554	20150000490	PENNSYLVANIA	Greene	Alpen	01 02 0104 01 02 0104 22 04	No
Deed	27126700	ETON PENNSYLVANIA COAL COMPANY	CONVEYANCE	4/2/2005	141.4000	8.6190	7.9676	381/204	20050000757	PENNSYLVANIA	Greene	Alpen, Barth	01 02 0104 01 02 0104 22 04	No
Deed	28107000	JOHN CHARTER	CONVEYANCE	6/8/2015	1.0000	0.9340	0.2731	430/2734	20150000783	PENNSYLVANIA	Greene	Alpen	01 02 0104	No
Deed	22181000	NATIONAL BANK TRUSTEE & BANK	THOMAS	2/5/1960	47.2500	12.1250	34.5425	225/1034		WEST VIRGINIA	Mason	Martinsburg	11 14 11	No
Deed	18722000	NATIONAL BANK TRUSTEE & BANK	THOMAS	5/2/1967	141.6000	53.4000	43.7880	583/191		WEST VIRGINIA	Mason	Martinsburg	11 14 11	No
Deed	N/A	SAWYER AND PAUL T GREEN	TRUSTEE	6/30/1961	3	3	1.230	583/192		WEST VIRGINIA	Mason	Martinsburg	11 14 11	No
Deed	N/A	AND MARY WALTER D STRAIGHT JR	NATIONAL BANK AS TRUSTEE	5/10/1962	48.85	12.2125	10.0544	584/193/190		WEST VIRGINIA	Mason	Martinsburg	11 14 11	No
Deed		EDWARD EDWARDS AND	CONVEYANCE	8/9/1960	50.84	19.87	11.7235	619/186		WEST VIRGINIA	Mason	Martinsburg	11 14 11	No
Deed	28980000	EDWARD EDWARDS AND	CONVEYANCE	10/13/1972	41.64	47.34	34.693	607/212		WEST VIRGINIA	Mason	Martinsburg	11 14 11	No
Deed	28945000	HENDERSON AND KENNETH HENDERSON	CONVEYANCE	9/18/1979	18.69	0.6122	0.5019	622/174		WEST VIRGINIA	Mason	Martinsburg	11 14 11	No

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Exhibit A-1



Agreement Nos. 296373001
TMP: p/o 22-04-0101, 22-04-0101-A
90.522 Gross Acres

LAT: 39°52'17.1136"
LON 80°30'53.8314"

LAT: 39°52'16.7214"
LON 80°30'53.8308"

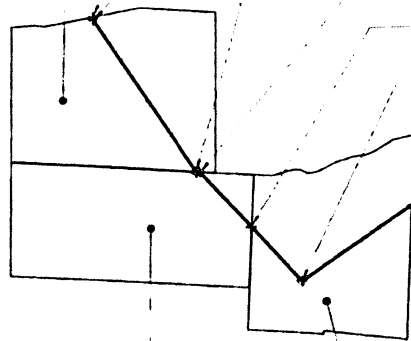
LAT: 39°51'55.0830"
LON 80°30'34.4808"

LAT: 39°51'55.0582"
LON 80°30'33.7713"

LAT: 39°51'47.2133"
LON 80°30'24.0615"

LAT: 39°51'39.6075"
LON 80°30'14.6486"

LAT: 39°51'50.6406"
LON 80°29'54.0387"



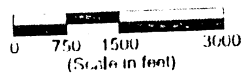
Agreement No. 282842004
TMP: p/o 22-04-0102
126,480 Gross Acres

Agreement No. 297151001
TMP: p/o 22-04-0108,
22-04-0108-A,
22-04-0108-B,
p/o 22-04-0108-C,
22-04-0108-D
p/o 22-04-0108-E,
p/o 22-04-0108-F
73,400 Gross Acres

CNX to EQT - Split Tracts

CNX to EQT

CNX Retained



Date: 02/09/2021

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