



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 13H
47-049-02504-00-00

Lateral Extension + 9752'

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.

A handwritten signature in blue ink, appearing to read 'J. Martin', is positioned above the name and title of the signatory.

James A. Martin
Chief

Operator's Well Number: ELLIOTT 13H
Farm Name: CONSOLIDATION COAL COMPANY
U.S. WELL NUMBER: 47-049-02504-00-00
Horizontal 6A New Drill
Date Modification Issued: May 4, 2021

Promoting a healthy environment.

05/07/2021



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 13H Well
Permit Number 47-049-02504
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

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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

05/07/2021

Check # 587888
4/9/2021
\$5,000.00

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: 13H Well Pad Name: Elliott

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

4) Elevation, current ground: 1,343' (pad 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: 23,265'

11) Proposed Horizontal Leg Length: 14,749'

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 _____

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

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18)

CASING AND TUBING PROGRAM

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (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	23265	23265	500' above intermediate casing
Tubing							
Liners							

Bryan Harris 4/26/21

TYPE	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
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:				RECEIVED Office of Oil and Gas
Sizes:				APR 29 2021
Depths Set:				WV Department of Environmental Protection

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

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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.

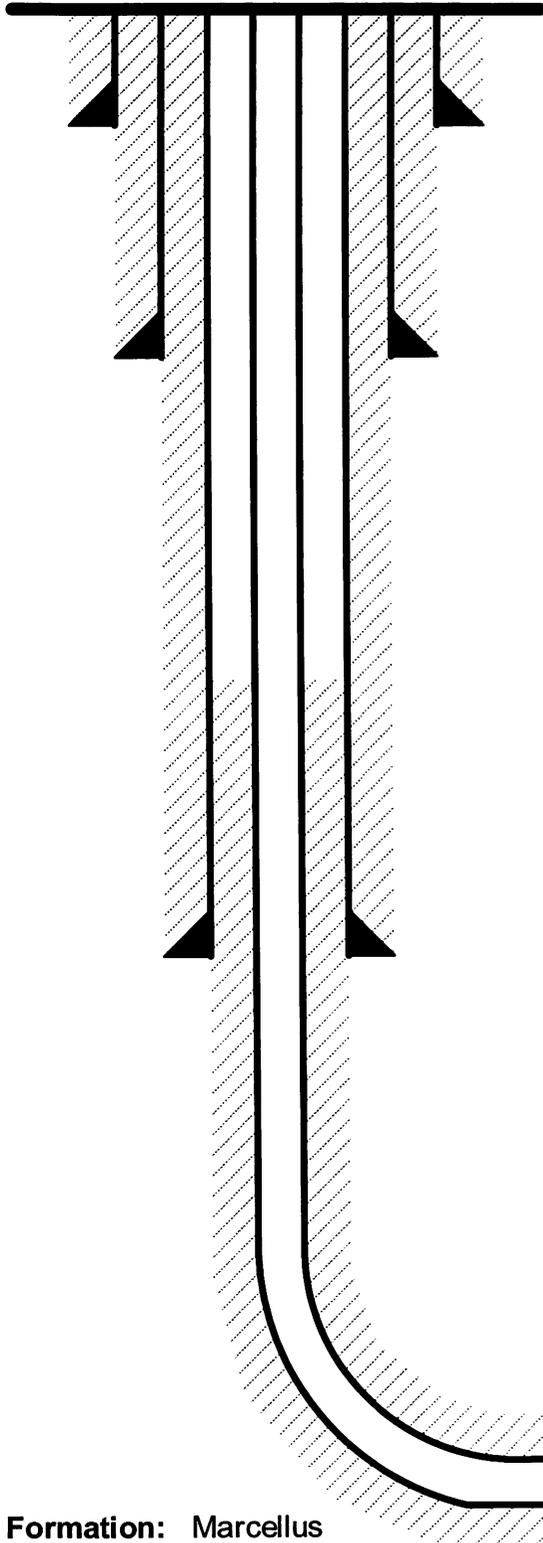
*Note: Attach additional sheets as needed.

EQT Production

Wellbore Diagram

Well: Elliot 13H
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 @ 2,488'

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

Production @ 23,265' 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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Office of Oil and Gas

APR 29 2021

WV Department of
Environmental Protection

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?

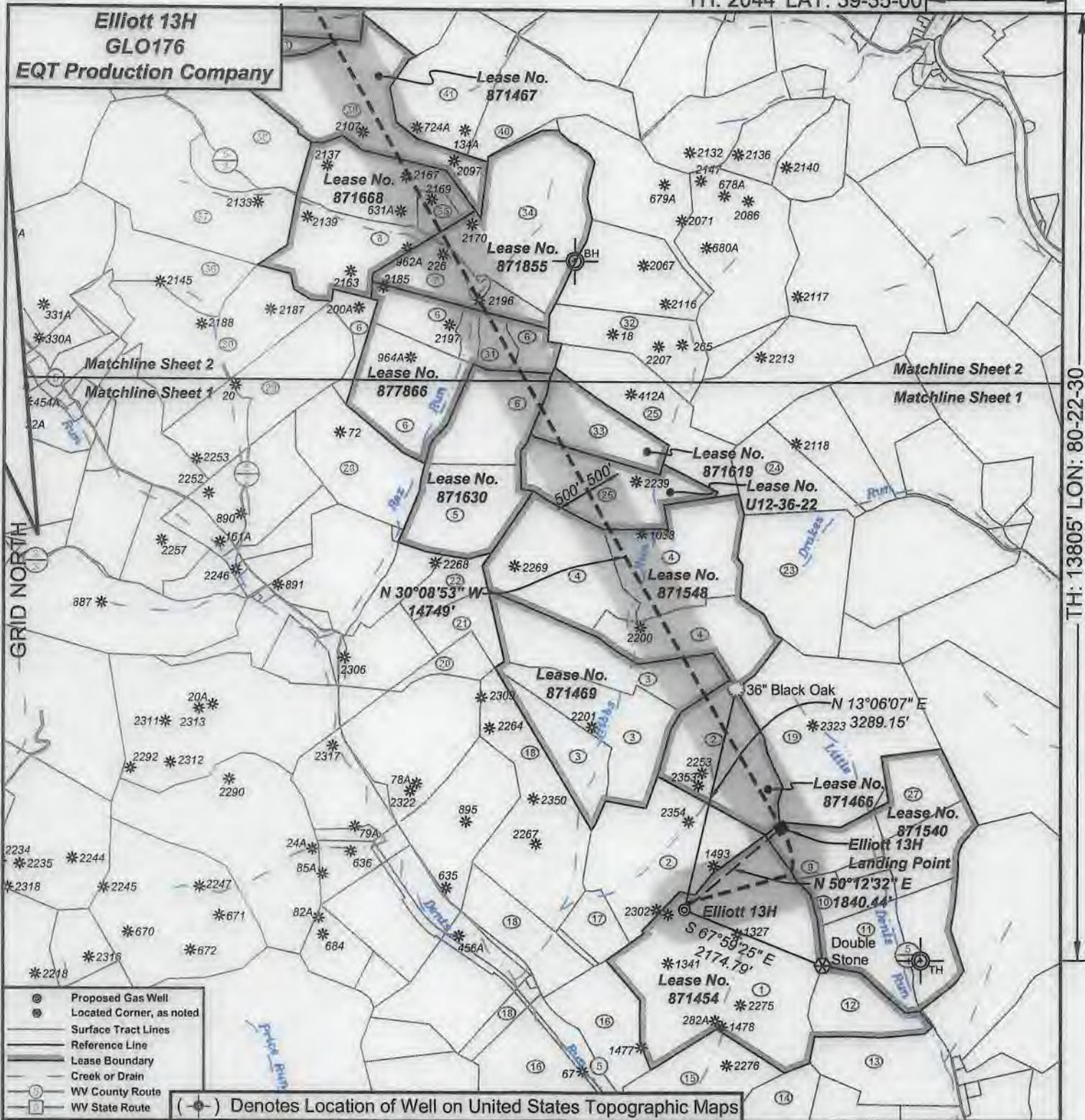
Thanks,

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

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APR 29 2021
WV Department of
Environmental Protection

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

Elliott 13H
GLO176
EQT Production Company



- 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



SEAL

FILE NO: 48-18
 DRAWING NO: Elliott 13H
 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

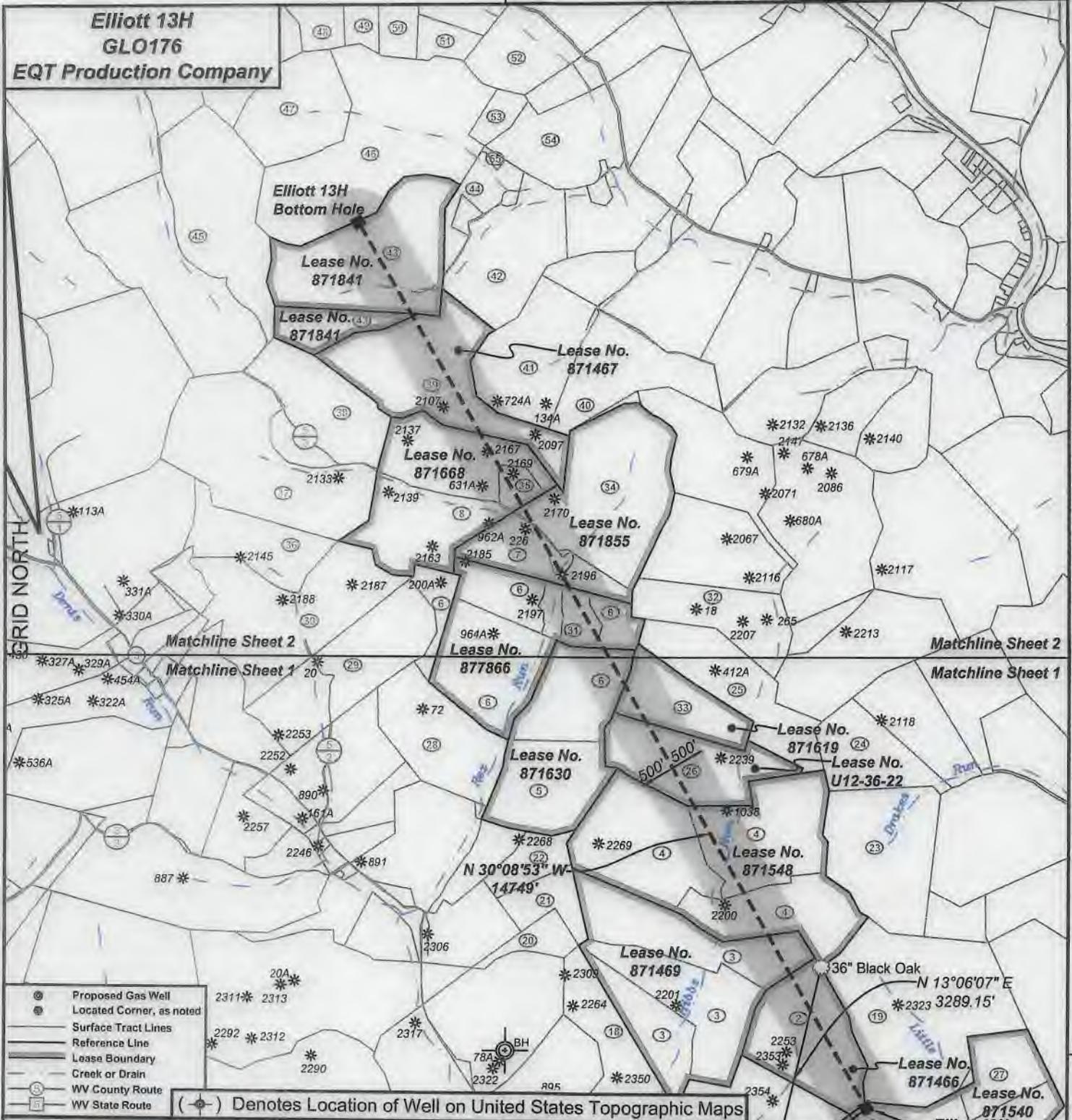
DATE: April 7 20 21
 OPERATOR'S WELL NO.: Elliott 13H
API WELL NO MOD
 47 - 49 - 02504
 STATE COUNTY PERMIT

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 05/07/2021
 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'

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: 8173' LAT: 39-37-30

**Elliott 13H
GLO176
EQT Production Company**



- Proposed Gas Well
- Located Corner, as noted
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- Reference Line
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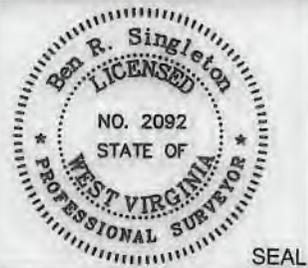
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Ben R. Singleton

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 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: April 7 20 21
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 STATE COUNTY PERMIT

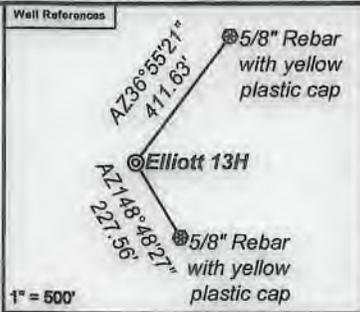
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05/07/2021

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 ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280
 Canonsburg, PA 15317 Bridgeport, WV 26330

**Elliott 13H
GLO176
EQT Production Company**

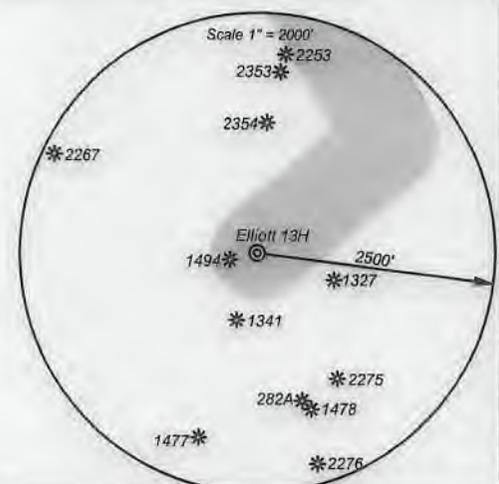
Trect I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	34	40	Marion	Mannington	Consolidation Coal Company	153.25
2	34	37	Marion	Mannington	Consolidation Coal Company	133.37
3	36	20	Marion	Mannington	Consolidation Coal Company	131.10
4	36	21	Marion	Mannington	Consolidation Coal Company	109.49
5	36	11	Marion	Mannington	Frederick E. & Deborah S. Lilley	46.25
6	38	9	Marion	Mannington	Frederick E. & Deborah S. Lilley	136.22
7	38	10	Marion	Mannington	CNX Land LLC	34.85
8	28	20	Marion	Mannington	Spotsman Square Circle Club Inc	102.65
9	34	49	Marion	Mannington	Dennis M. & Lisa A. Hayes	24.73
10	34	47	Marion	Mannington	Edward F. Price	23.09
11	33	1	Marion	Mannington	Thomas D. & Arnee J. Haight	106.82
12	34	40.1	Marion	Mannington	Raymond F. & Baily 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	39	Marion	Mannington	Consolidation Coal Company	42.75
16	34	33	Marion	Mannington	Consolidation Coal Company	134.00
17	34	38	Marion	Mannington	Consolidation Coal Company	57.00
18	34	36	Marion	Mannington	Consolidation Coal Company	120.00
19	32	11	Marion	Mannington	Consolidation Coal Company	116.00
20	38	14	Marion	Mannington	Mark A. & Carrie A. Hendershot	11.04
21	38	13	Marion	Mannington	Mark A. & Carrie A. Hendershot	16.20
22	38	12	Marion	Mannington	Mark A. & Carrie A. Hendershot	15.20
23	32	12	Marion	Mannington	Jamie K. & Rose K. Haugh	78.21
24	32	13	Marion	Mannington	Suzanna A. & Charles W. Given	33.40
25	36	24	Marion	Mannington	CNX Land LLC	47.68
26	36	22	Marion	Mannington	Consolidation Coal Company	50.67
27	33	1	Marion	Mannington	Thomas D. & Arnee J. Haight	106.82
28	36	8	Marion	Mannington	Frederick E. & Deborah S. Lilley	52.12
29	36	1	Marion	Mannington	Lee R. & Sherri L. Taylor	67.35
30	39	13	Marion	Mannington	Lee R. & Sherri L. Taylor	66.46
31	36	9.1	Marion	Mannington	Matthew D. Stiles	13.83
32	28	22	Marion	Mannington	CNX Land LLC	36.60
33	36	23	Marion	Mannington	CNX Land LLC	30.98
34	28	21	Marion	Mannington	Spotsman Square Circle Club Inc	81.00
35	28	25	Marion	Mannington	CNX Land LLC	7.25
36	39	14	Marion	Mannington	Lee R. & Sherri L. Taylor	36.09
37	28	49	Marion	Mannington	Rickey G. Bennett	94.12
38	28	18	Marion	Mannington	Donna McDonald	55.75
39	28	17	Marion	Mannington	CNX Land LLC	77.05
40	28	6.1	Marion	Mannington	Wilson Investments LLC	52.85
41	28	6	Marion	Mannington	Joshua A. & Courtney N. Willong	52.85
42	28	8.5	Marion	Mannington	Blair & Erica Deem	55.00
43	28	16	Marion	Mannington	Consolidation Coal Company	107.63
44	28	8.1	Marion	Mannington	CNX Land LLC	15.95
45	28	2.1	Marion	Mannington	Larry Goll	180.04
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	13.62
50	27	12.1	Marion	Mannington	Jason G. & Cathy L. Straight	20.00
51	28	13	Marion	Mannington	CNX Land LLC	13.15
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	36.00
55	28	8.4	Marion	Mannington	CNX Land LLC	1.83



Notes:
Elliott 13H coordinates are
NAD 27 N: 381,990.45 E: 1,751,207.25
NAD 27 Lat: 39.545433 Long: -80.382249
NAD 83 UTM N: 4,377,498.32 E: 553,095.69
Elliott 13H Landing Point coordinates are
NAD 27 N: 383,168.32 E: 1,752,621.42
NAD 27 Lat: 39.548705 Long: -80.377276
NAD 83 UTM N: 4,377,864.37 E: 553,520.56
Elliott 13H Bottom Hole coordinates are
NAD 27 N: 395,921.45 E: 1,745,214.36
NAD 27 Lat: 39.583516 Long: -80.403997
NAD 83 UTM N: 4,381,712.16 E: 551,199.19
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.

Elliott
Elliott 17H 47-049-02506
Elliott 15H 47-049-02505
Elliott 13H 47-049-02504
Elliott 11H 47-049-02504
Elliott 9H 47-049-02503
Elliott 7H 47-049-02498
Elliott 5H 47-049-02502
Elliott 3H 47-049-02501
Elliott 1H 47-049-02499
N 22° 54' 16" W
15' Typ

Lease No.	Owner	Acres
871540	Country Roads Minerals, LLC, et al.	89.75
871466	Lee and Hall Royalties	53.63
871469	Newton S. Beatty Families Trust, Philip A. Prichard, Trustee, et al.	131.1
871548	West Virginia University Foundation, Inc. et al.	169.49
U12-36-22	CNX Gas Company LLC	50.87
871619	Meg L. Burkardt, et al.	30.96
871630	Ruth Edna Ryan Teeter, et al.	130.534
877866	AMP Fund IV, LP	95
871855	Nita M. Cordray, et al.	115.86
871668	Denise L. Bissett, et al.	110.1
871467	Lee and Hall Royalties, a partnership, et al.	77.95
871841	John Baker III, et al.	106.63



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

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DRAWING NO: Elliott 13H
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 13H
API WELL NO. **MAD**
47 - 49 - 02504
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
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 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,770'

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

05/07/2021

WW-6A1
(5/13)

Operator's Well No. Elliott 13H

**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

APR 29 2021

WV Department of
Environmental Protection

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

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

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

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

Well Operator: EQT Production Company

By: John Zavatchan *John F. Zavatchan Jr.*

Its: Project Specialist - Permitting

WW-6A1 attachment

Operator's Well No.

Elliott 13H

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
871454	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
871540	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
871466	Lee and Hall Royalties Lee and Hall Royalties, a Partnership	53.63 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DR 1253/31
871469	Newton S. Beatty Families Trust, Philip A. Prichard, Trustee, et al. Philip A. Prichard, acting as Att-in-Fact for Jackson T. Beatty and Rebecca Beatty, h/w, et al, (referred to as the "Lida Cochrane Heirs") American Shale Development, Inc. Republic Energy Ventures, LLC, Republic Partners VIII, LLC, et al Trans Energy, Inc. and American Shale Development, Inc.	131.1 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 1129/821 AB 47/469 AB 51/525 DR 1228/1
871548	West Virginia University Foundation, Inc., et al. West Virginia University Foundation, Inc., for the benefit of West Virginia University American Shale Development, Inc. Republic Energy Ventures, LLC, Republic Partners VIII, LLC, et al Trans Energy, Inc. and American Shale Development, Inc.	169.49 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 1159/217 AB 47/469 AB 51/525 DR 1228/1

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 APR 29 2021
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<u>U12-36-22</u>	<u>CNX Gas Company LLC</u>	50.87 ac	CNX Gas Company LLC	"at least 1/8th per WV Code 22-6-8"	DR 1005/246
	Consolidation Coal Company, et al.		See attached letter		
<u>871619</u>	<u>Meg L. Burkardt, et al.</u>	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
	Meg L. Burkardt , single Republic Energy Ventures, LLC, Republic Partners VIII, LLC, et al Trans Energy, Inc. and American Shale Development, Inc.				
<u>871630</u>	<u>Ruth Edna Ryan Teeter et al</u>	130.534 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DR 1253/97
	Ruth Edna Ryan Teeter				
<u>877866</u>	<u>AMP Fund IV, LP</u>	95 ac	Republic Energy Ventures, LLC EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DR 1202/129 AB 52/189
	Dennis Straight, a married man dealing in his sole & separate property Republic Energy Ventures, LLC, et al				
<u>871855</u>	<u>Nita M. Cordray, et al.</u>	115.86 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DR 1258/1002
	Nita M. Cordray, widow				
<u>871668</u>	<u>Denise L. Bissett, et al.</u>	110.1 ac	Republic Energy Ventures, LLC EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DR 1165/227 AB 51/525
	Denise L. Bissett Republic Energy Ventures, LLC, Republic Partners VIII, LLC, et al				
<u>871467</u>	<u>Lee and Hall Royalties, a partnership, et al.</u>	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
	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.				

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 APR 29 2021
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4704902504

871841

John Baker III, et al

John Baker III, (married dealing in his sole and serarate property)

106.63 ac

EQT Production Company

"at least 1/8th per
WV Code 22-6-8"

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@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 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) or mines,

Office of Oil and Gas

APR 29 2021

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 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 Zavatchan at (412) 584-3132 or jzavatchan@eqt.com.

Sincerely,

EQT Production Company

DocuSigned by:
By: Corey Peck DS ME
Name: Corey C. Peck
Title: Authorized Agent

Rice Drilling B LLC

DocuSigned by:
By: Corey Peck DS ME
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: PETER J SINATO
Title: ASSISTANT VICE PRESIDENT

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APR 29 2021

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**EXHIBIT A
TO DRILLING LETTER
DRILLING LEASES**

Property Type	Agreement #	Original Lessor/Grantor	Original Lessee/Grantee	Effective Date	Gross Acres	Net Acres to be Conveyed	NRI Acres	Recording Book/Page	Instrument Number	State	County	Township	Tax Parcel Number(s)	Split Tract
Lease	296373001	ELMS BROTHERS & COMPANY LTD	RICE DRILLING B LLC	10/9/2014	90.5220	11.1422	9.1366	475/1004	201400008068	PENNSYLVANIA	Greene	Richhill	TMP 22-04-0101-A, PO 22-04-0101	Yes, conveying the portion of the Lease identified on Exhibit A-1.
Lease	297151001	THREE RIVERS ROYALTY LLC	CNX GAS COMPANY LLC	12/18/2019	73.4000	36.7000	30.0940	533/388	201900008454	PENNSYLVANIA	Greene	Richhill	TMP 22-04-0108-A, 22-04-0108-B, 22-04-0108-D, PO 22-04-0108, PO 22-04-0108-C, PO 22-04-	Yes, conveying the portion of the Lease identified on Exhibit A-1.
Lease	282842004	THREE RIVERS ROYALTY LLC	RANGE RESOURCES APPALACHIA LLC	12/17/2019	126.4800	14.0535	11.5239	533/190	201900008412	PENNSYLVANIA	Greene	Richhill	TMP PO 22-04-0102	Yes, conveying the portion of the Lease identified on Exhibit A-1.
Lease	271626000	RONALD	CNX GAS COMPANY	6/22/2015	88.0000	88.0000	73.0400	482/1554	201500004980	PENNSYLVANIA	Greene	Aleppo	01-02-0104	No
Deed	275267000	ROBERT M FOX ET UX	CONSOL PENNSYLVANIA COAL	9/7/2005	161.4300	8.6190	7.0676	331/106	200500003757	PENNSYLVANIA	Greene	Aleppo; Richhill	01-02-0115, 22-04-0126-A	No
Deed	281026001	EVELYN	CONRRHEIN COAL	6/8/2011	1.0000	0.3330	0.2731	439/2794	201100002783	PENNSYLVANIA	Greene	Aleppo	01-02-0116	No
Deed	225835000	CHARLESTON NATIONAL BANK, TRUSTEE & PENN	CONSOLIDATION COAL COMPANY	2/5/1980	47.2500	42.1250	34.5425	825/1034		WEST VIRGINIA	Marion	Mannington	12-34-31	No
Deed	267225001	THOMAS VANGLIDER ET HELEN M.	THE CHARLESTON NATIONAL BANK	5/2/1957	133.6300	53.4000	43.7880	584/191		WEST VIRGINIA	Marion	Mannington	12-34-37	No
Deed	N/A	HELEN M. ABERGOLD SWISHER AND	THE CHARLESTON NATIONAL BANK, AS TRUSTEE	3/30/1957	3	1.5	1.2300	583/152		WEST VIRGINIA	Marion	Mannington	12-34-30	No
Deed	N/A	PAUL T. GREEN AND MARY	THE CHARLESTON NATIONAL BANK, AS TRUSTEE	5/31/1957	48.85	12.2125	10.0143	584/183587/409		WEST VIRGINIA	Marion	Mannington	12-34-34	No
Deed		WALTER D. STRAIGHT, JR. AND GENEVA	THE CHARLESTON NATIONAL BANK, AS TRUSTEE	4/9/1960	50.87	50.87	41.7134	619/486		WEST VIRGINIA	Marion	Mannington	12-36-22	No
Deed	289890000	EDWARD E. VANGILDER AND FANNIE LEE HENDERSHOT	CONSOLIDATION COAL COMPANY	10/13/1977	47.68	47.68	39.0976	807/917		WEST VIRGINIA	Marion	Mannington	12-36-24	No
Deed	289432000	FANNIE LEE HENDERSHOT AND ELVIN F. HENDERSHOT,	CONSOLIDATION COAL COMPANY	9/14/1979	14.69	0.6121323	0.5019	822/578		WEST VIRGINIA	Marion	Mannington	12-37-32.2	No

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