



west virginia department of environmental protection

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

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

Wednesday, June 30, 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

Extend Lateral from previous length

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 'James A. Martin', is written over a faint circular stamp.

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: 06/30/2021

Promoting a healthy environment.

07/02/2021

Check # 588570
6/3/2021
\$ 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: 17H 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: 24,063' ✓

11) Proposed Horizontal Leg Length: 14,727' ✓

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
Owner: Consolidation Coal Company

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WW-6B
(04/15)

API NO. 47- 049 - 02506
 OPERATOR WELL NO. 17H
 Well Pad Name: Elliott

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	J-55	36	2492	2492 ✓	1000 ft ³ / CTS
Production	5 1/2	New	P-110	20	24063	24063 /	500' above intermediate casing
Tubing							
Liners							

Bryan Harris 6/4/21

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	0.352	3520	2816	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:				RECEIVED #100 of Oil and Gas
Depths Set:				JUN 23 2021

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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

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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.

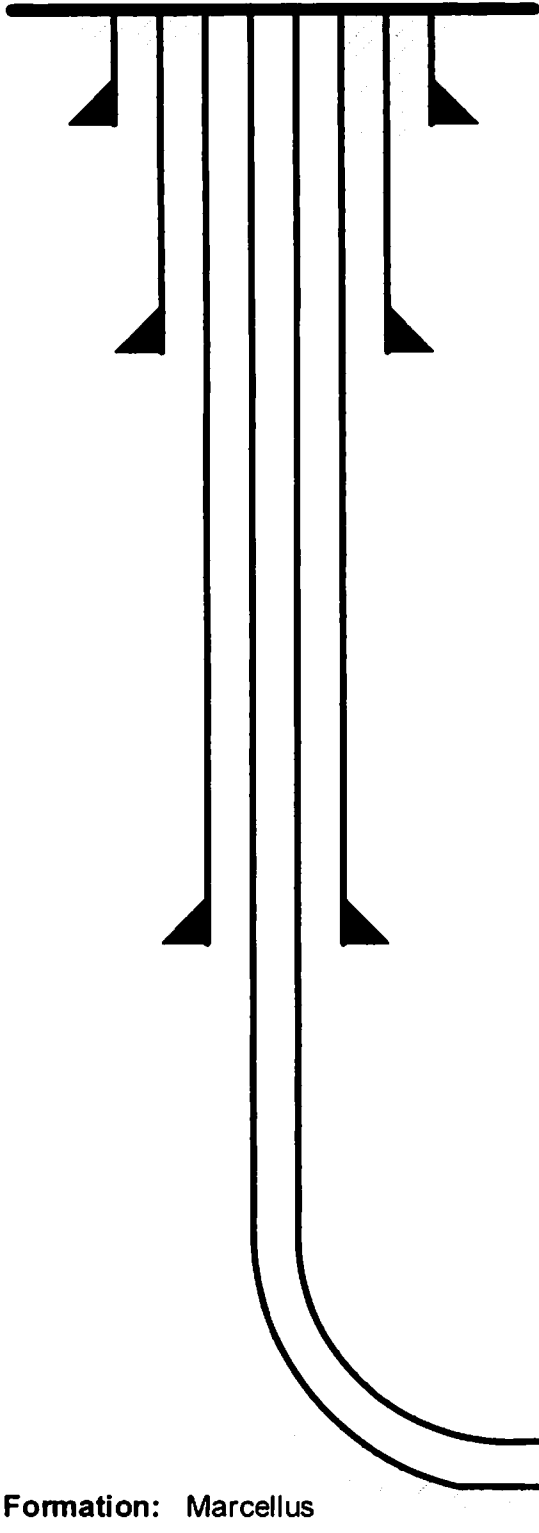
*Note: Attach additional sheets as needed.

EQT Production

Wellbore Diagram

Well: Elliot 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", 36#, J-55, cement to surface w/ Class A

Production @ 24,063' 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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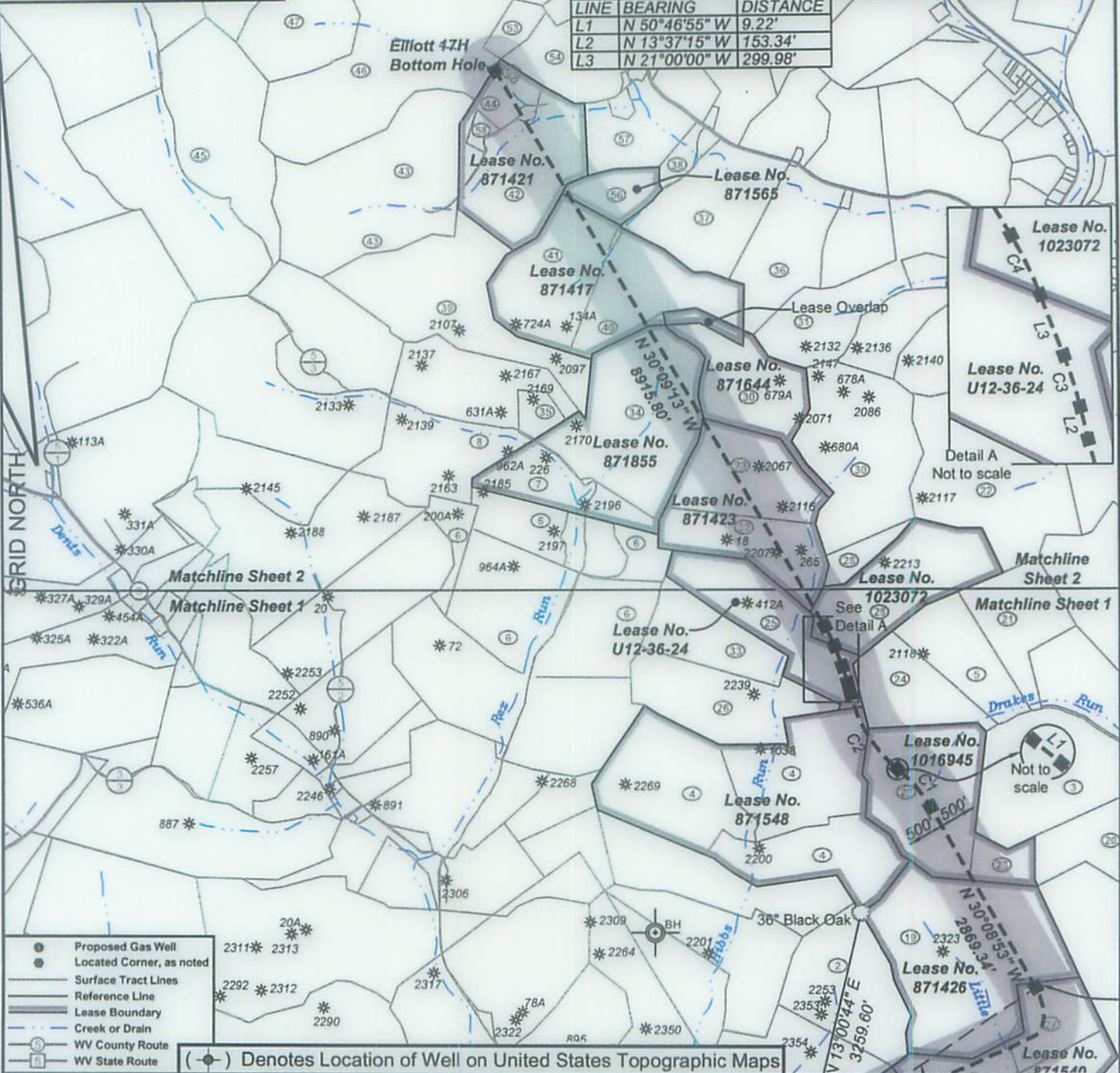
NOT TO SCALE
07/02/2011

BH: 6413' LAT: 39-37-30

**Elliott 17H
GLO176
EQT Production Company**

CURVE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C1	1909.74'	687.80'	N 40°27'57" W	684.09'
C2	1909.75'	1238.68'	N 32°12'08" W	1217.08'
C3	1909.61'	245.96'	N 17°18'38" W	245.79'
C4	1909.65'	305.10'	N 25°34'36" W	304.78'

LINE	BEARING	DISTANCE
L1	N 50°46'55" W	9.22'
L2	N 13°37'15" W	153.34'
L3	N 21°00'00" W	299.98'



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: June 21 20 21
OPERATOR'S WELL NO.: Elliott 17H
API WELL NO. **E1110D**
47 - 49 - 02506
STATE COUNTY PERMIT

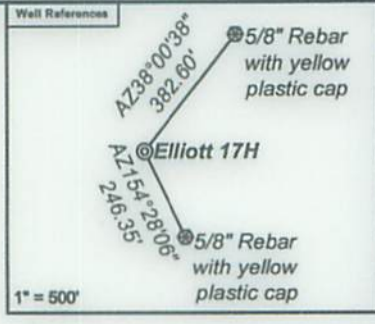
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1343' WATERSHED Tributary of Dents Run QUADRANGLE: Glover Gap
DISTRICT: Mannington COUNTY: Marion
SURFACE OWNER: Consolidated Coal Company ACREAGE: 153.25
ROYALTY OWNER: Randy J. Elliott 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'

07/02/2021

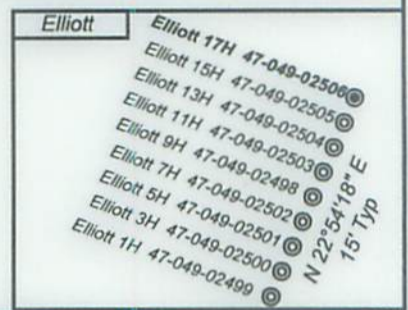
WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280
Canonsburg, PA 15317 Bridgeport, WV 26330

**Elliott 17H
GLO176
EQT Production Company**

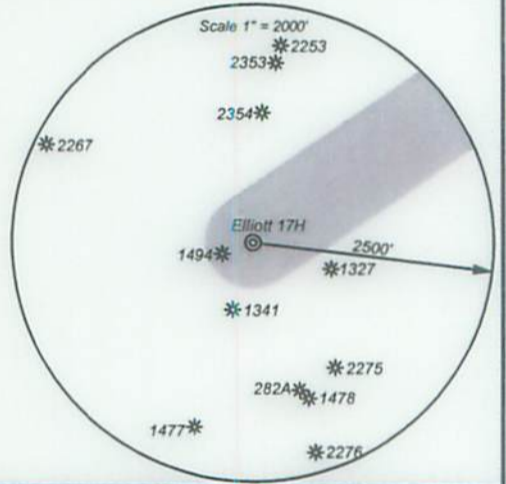
Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	34	40	Marion	Mannington	Consolidation Coal Company	153.25
2	34	37	Marion	Mannington	Consolidation Coal Company	133.37
3	32	10	Marion	Mannington	Anna M. Mike, et al	73.51
4	36	21	Marion	Mannington	Consolidation Coal Company	169.49
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	102.85
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	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	17.00
18	33	28	Marion	Mannington	Mildred H. Prichard Heirs	379.56
19	32	11	Marion	Mannington	Consolidation Coal Company	118.00
20	32	9	Marion	Mannington	Michael L. & Belle J. Higgs	155.18
21	32	13.2	Marion	Mannington	Suzanne A. & Charles W. Given	33.40
22	31	34.1	Marion	Mannington	Consolidation Coal Company	88.05
23	32	12	Marion	Mannington	James K. & Rosa K. Haugh	78.21
24	32	13	Marion	Mannington	Suzanne A. & Charles W. Given	33.40
25	36	24	Marion	Mannington	CNX Land LLC	47.68
26	36	22	Marion	Mannington	Consolidation Coal Company	50.87
27	33	1	Marion	Mannington	Thomas D. & Aimee J. Haight	106.82
28	31	39	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. Dunigan	107.39
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	Sportsman Square Circle Club Inc	81.00
35	28	25	Marion	Mannington	CNX Land LLC	7.25
36	28	3	Marion	Mannington	Ray E. Cooker	41.30
37	28	4	Marion	Mannington	Jeffrey H. Michael	36.75
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	Wilson Investments LLC	52.85
41	28	6	Marion	Mannington	Joshua A. & Courtney N. Wilfong	52.85
42	28	8.5	Marion	Mannington	Elijah & Erica Dean	55.00
43	28	16	Marion	Mannington	Consolidation Coal Company	107.83
44	28	8.1	Marion	Mannington	CNX Land LLC	15.96
45	28	2.1	Marion	Mannington	Larry Goll	160.04
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	39.00
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	42.94
58	28	8.3	Marion	Mannington	CNX Land LLC	3.01



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: 1,754,350.87
 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
871548	West Virginia University Foundation, Inc., et al.	169.49
U12-36-24	CNX Gas Company 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



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: June 21 20 21
 OPERATOR'S WELL NO.: Elliott 17H
 API WELL NO: EXH09
 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'

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

07/02/2021

WEST VIRGINIA GEOLOGICAL PROGNOSIS

Horizontal Well
ELLIOT (GLO187)

v 217.4

Drilling Objectives: MARCELLUS
County: Marion
Quad: Glover Gap
Elevation: 1355 KB 1342 GL
Recommended Azimuth Degrees **TVD: 7770**

ESTIMATED FORMATION TOPS from wells 4704902251, 4704900878

Formation	Top (TVD)	Base (TVD)	Lithology	Comments	Top RR	Base RR
Fresh Water Zone	1	287		FW @ 202,287		
Coal	435	437	Coal			
Sewickley	870	875	Coal			
Pittsburgh	967	975	Coal			
Big Lime	2182	2308	Limestone	SW @ 1797,1895,2412		
Big Injun	2308	2435	Sandstone			
Int csg pt	2485					
Berea	2583	3007	Sandstone	Gas shows @ 2412,2932,3026,3085,3164,3360,4755		
Gantz	3007	3026	Silty Sand	Outside of Storage		
50ft	3114	3128	Silty Sand			
Bayard	3254	3624	Silty Sand			
Alexander	5742	6135	Silty Sand			
Elks	6135	7166	Gray Shales and Silts			
Sonyea	7166	7373	Gray shale			
Middlesex	7373	7437	Shale			
Genesee	7437	7545	Gray shale interbedded			
Genesee	7545	7582	Black Shale			
Tully	7582	7613	Limestone			
Hamilton	7613	7719	Gray shale with some			
Marcellus	7719	7820	Black Shale			
Purcell	7785	7787	Limestone			
-Lateral Zone	7770					
Cherry Valley	7801	7803	Limestone			
Onondaga	7820		Limestone			

Target Thickness	101 feet
Max Anticipated Rock Pressure	2593 PSI

Comments:
 Note that this is a TVD prog for a horizontal well (azimuth of degrees; target formation = MARCELLUS). All measurements taken from estimated KB elevation. Water and coal information estimated from surrounding well data.
 Intermediate casing point is recommended beneath the Big Injun to shut off any water production from the Upper Devonian sands. Intermediate casing should be cemented into the surface string, per WV regulations.

LATERAL DRILLING TOLERANCES

Mapview - Lateral: Deviate as little as possible to the left or right of the planned wellbore
Mapview - TD: DO NOT EXTEND beyond recommended wellbore to avoid lease line

RECOMMENDED CASING POINTS

Fresh Water/Coal	CSG OD	13 3/8	CSG DEPTH	1025	50' below Pittsburgh
Intermediate 1:	CSG OD	9 5/8	CSG DEPTH	2485	Beneath the Big Injun formation
Production:	CSG OD	5 1/2	CSG DEPTH	@ TD	

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**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 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: Erin Spine 
 Its: Supervisor - Subsurface Permitting
 Office of Oil and Gas

JUN 23 2021

Page 1 of 4

Lease No.	Grantor, Lessor, etc.	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
871426	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
1016945	Ferrari VI OG, LLC, Bradley W. Thomas, Robert F. Horner & Jacob G. Ford, et al. 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
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
U12-36-24	CNX Gas Company LLC	47.68 ac	*at least 1/8th per WV Code 22-6-8*	

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Office of Oil & Gas

JUN 23 2011

WV Dept. of Environmental Protection

	Consolidation Coal Company, et al.		CNX Gas Company LLC See attachment	DR 1005/246
1023072	<u>WV Minerals Inc., et al.</u> WV Minerals, Inc.	56.25 ac	EQT Production Company	*at least 1/8th per WV Code 22-6-8* DR 1119/98
871423	<u>Country Roads Minerals, LLC, et al.</u> 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	*at least 1/8th per WV Code 22-6-8* DR 1097/226 AB 42/601 AB 43/420 AB 47/469 AB 51/525 DR 1228/1
871855	<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
871644	<u>J & N Management Enterprises, LLC</u> Nancy Fout and John Fout, wife and husband Buffer Republic Energy Ventures, LLC, et al	48.75 ac	Republic Energy Ventures EQT Production Company	*at least 1/8th per WV Code 22-6-8* DR 1188/289 AB 51/525
871417	<u>Sheila Lightfoot and Tina Fischer, et al.</u> Sheila Lightfoot, Individually, and Tina Fischer by Sheila Lightfoot, Attorney- in-Fact Republic Energy Ventures, LLC	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
871565	<u>Lora L. Rinehart, et al.</u> 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.	15 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 1153/447 AB 47/469 AB 51/525 DR 1228/1

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871421 **Claud Kendall Trust, et al.**

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 51/526

DR 12280

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SECOND AMENDMENT TO ACREAGE TRADE AGREEMENT

THIS SECOND AMENDMENT TO ACREAGE TRADE AGREEMENT (this "Amendment") is entered into this 14th day of June, 2021, by and among **EQT Production Company**, a Pennsylvania corporation, and **Rice Drilling B LLC**, a Delaware limited liability company, whose addresses are 625 Liberty Avenue, Suite 1700, Pittsburgh, PA 15222 (collectively, "EQT"), and **CNX Gas Company LLC**, a Virginia limited liability company, whose address is 1000 CONSOL Energy Drive, Canonsburg, PA 15317 ("CNX").

WHEREAS, EQT and CNX are parties to that certain Acreage Trade Agreement entered into as of February 12, 2021, as amended by that certain First Amendment to Acreage Trade Agreement dated March 5, 2021 (the "Trade Agreement"); and

WHEREAS, EQT and CNX desire to amend the Trade Agreement to extend the Closing established in the Trade Agreement as set forth herein;

NOW, THEREFORE, in consideration of the mutual promises and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and with the intent to be legally bound, EQT and CNX hereby agree to amend the Trade Agreement as follows:

1. **Definitions.** Capitalized terms used and not otherwise defined herein shall have the meanings given to such terms in the Trade Agreement.

2. **Extension of Closing.** Unless otherwise agreed to by the Parties, the Closing under the Trade Agreement and any Drilling Letters executed pursuant to the Trade Agreement shall occur on or before July 9, 2021 (the "Closing Date"). Except as otherwise provided herein, the term "Closing Date" when used in the Trade Agreement and any dates for assignment set forth in any Drilling Letters executed pursuant to the Trade Agreement shall mean the Closing Date as amended hereby.

3. **Entire Agreement.** The Trade Agreement, as amended hereby, all closing documentation referenced in the Trade Agreement and all other documents contemplated by the Trade Agreement constitute the entire agreement between the Parties in respect to the subject matter thereof, and there are no other agreements, understandings, warranties or representations except as set forth herein and therein. In the event of a conflict between the terms of this Amendment and the terms of the Trade Agreement, the terms of the Trade Agreement will control.

4. **Ratification.** EQT and CNX hereby adopt, ratify, and confirm the Trade Agreement, as amended hereby, and declare the Trade Agreement, as amended hereby, to be in full force and effect. All references to the Trade Agreement shall be considered to be references to the Trade Agreement as modified by this Amendment, and except as modified hereby, the Trade Agreement shall remain in full force and effect.

5. **Counterparts: Execution and Delivery.** This Amendment may be executed in multiple counterparts, each of which will be an original instrument, but all of which will constitute one agreement. The execution and delivery of this Amendment by any Party may be evidenced by

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facsimile or other electronic transmission (including scanned documents delivered by email), which shall be binding upon all Parties.

[signature page follows]


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ACCEPTED AND AGREED TO this _____ day of June, 2021.


EQT PRODUCTION COMPANY

DocuSigned by:
By: Corey Peck 
Name: Corey C. Peck
Its: Authorized Agent

RICE DRILLING B LLC

DocuSigned by:
By: Corey Peck 
Name: Corey C. Peck
Its: Authorized Agent

CNX GAS COMPANY LLC

By: 
Name: Peter J. Binotto
Its: Assistant Vice President

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Certificate Of Completion

Envelope Id: D901B35AD9574C1C85CFC038F6C15275

Status: Completed

Subject: Please DocuSign: CNX-EQT Exchange Agreement - Determine Trade - Second Amendment.pdf

Source Envelope:

Document Pages: 3

Signatures: 2

Envelope Originator:

Certificate Pages: 2

Initials: 4

Jarred Detweiler

AutoNav: Enabled

625 Liberty Ave Ste 1700

Envelope Stamping: Enabled

Pittsburgh, PA 15222

Time Zone: (UTC-05:00) Eastern Time (US & Canada)

jdetweiler@eqt.com

IP Address: 100.6.120.87

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Status: Original

6/14/2021 8:07:37 AM

Holder: Jarred Detweiler

jdetweiler@eqt.com

Location: DocuSign

Signer Events

Corey Peck

cpeck@eqt.com

Managing Director - Land Ops

EQT Corporation

Security Level: Email, Account Authentication (None)

Signature

DocuSigned by:
Corey Peck
D88F1A8A4E0C8A5A

Signature Adoption: Pre-selected Style

Using IP Address: 174.241.232.136

Signed using mobile

Timestamp

Sent: 6/14/2021 8:09:17 AM

Viewed: 6/14/2021 8:10:06 AM

Signed: 6/15/2021 1:20:36 PM

Electronic Record and Signature Disclosure:
Not Offered via DocuSign

Jarred Detweiler
jdetweiler@eqt.com

Landman IV

EQT Corporation

Security Level: Email, Account Authentication (None)

DS
JD

Signature Adoption: Pre-selected Style

Using IP Address: 165.225.8.238

Sent: 6/14/2021 8:09:16 AM

Viewed: 6/14/2021 8:09:38 AM

Signed: 6/14/2021 8:09:46 AM

Electronic Record and Signature Disclosure:
Not Offered via DocuSign

Matt Eller
meller@eqt.com

Land BD Director

EQT Corporation

Security Level: Email, Account Authentication (None)

DS
ME

Signature Adoption: Drawn on Device

Using IP Address: 165.225.9.20

Sent: 6/14/2021 8:09:17 AM

Viewed: 6/14/2021 8:09:37 AM

Signed: 6/14/2021 8:26:04 AM

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In Person Signer Events

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Editor Delivery Events

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Agent Delivery Events

Status

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Intermediary Delivery Events

Status

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Certified Delivery Events

Status

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Carbon Copy Events

Status

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Witness Events

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Notary Events

Signature

Timestamp

Envelope Summary Events

Status

Timestamps

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6/14/2021 8:09:17 AM

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6/14/2021 8:09:37 AM

Signing Complete

Security Checked

6/14/2021 8:26:04 AM

Completed

Security Checked

6/15/2021 1:20:36 PM

Payment Events

Status

Timestamps

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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), mines,

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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

By: Corey C. Peck 4/1/21
Name: Corey C. Peck
Title: Authorized Agent

Rice Drilling B.L.L.C

By: Corey C. Peck 4/1/21
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: PATRICK J. SIMON
Title: ASSISTANT VICE PRESIDENT

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**EXHIBIT A
TO DRILLING LETTER
DRILLING LEASES**

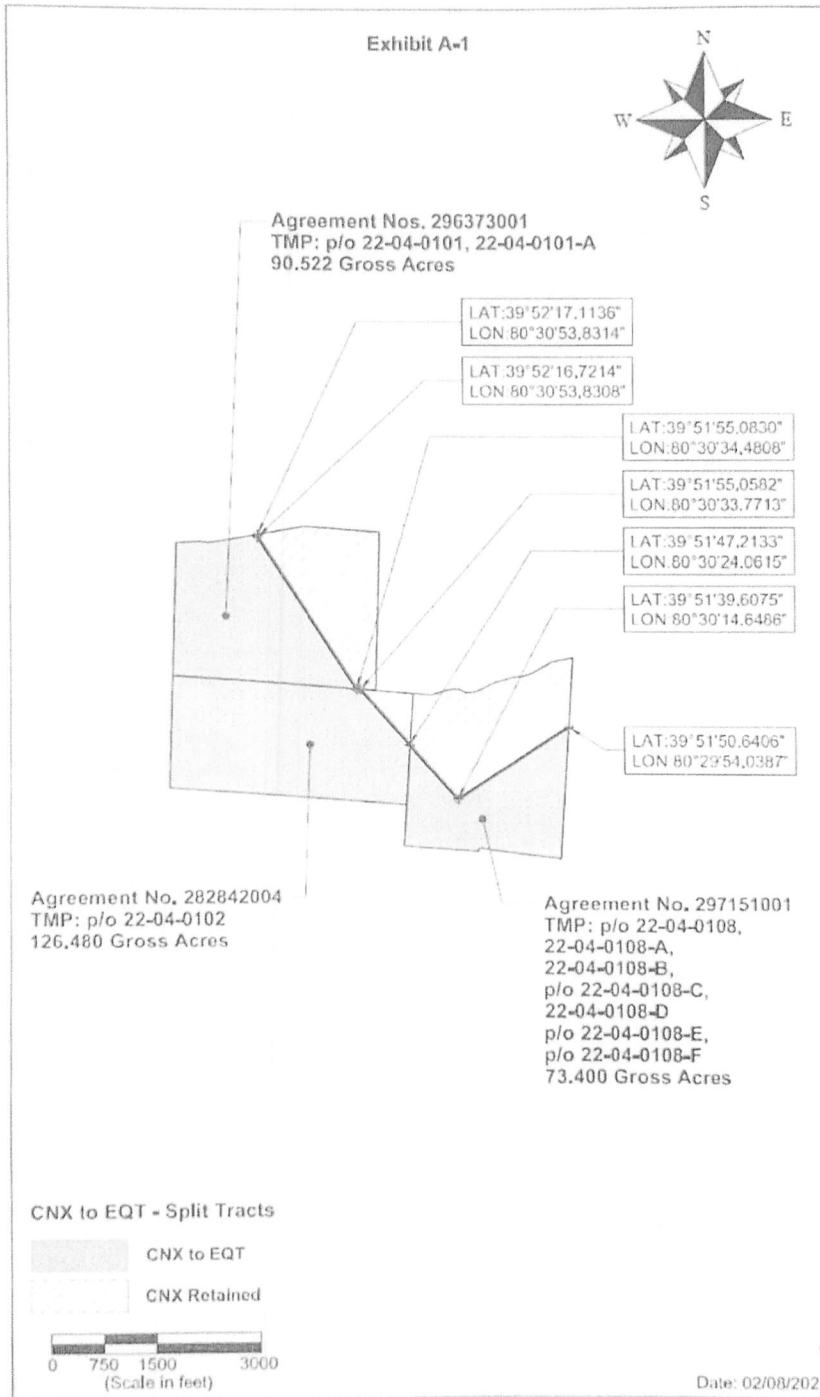
Platbook Type	Agreement #	Original Lessor/Grantor	Original Lessee/Grantee	Effective Date	Gross Acres	Net Acres to be Conveyed	ARI Acres	Resurvey Book/Page	Instrument Number	State	County	Township	Tax Parcel Number(s)	Split Tract
Lease	29637801	ELMS BROTHERS & COMPANY LTD	RICE DRILLING B LLC	10/9/2014	90.5220	41.1472	9.1364	475/1004	20140000806	PENNSYLVANIA	Greene	Rushell	FMP 22 04 0101 A PO 22 04 0101	Yes, conveying the portion of the lease identified on Exhibit A.1.
Lease	297551001	THREE RIVERS ROYALTY LLC	ONE GAS COMPANY LLC	12/18/2019	73.4000	36.7000	30.0940	533/384	201900004254	PENNSYLVANIA	Greene	Rushell	FMP 22 04 0108 A 22 04 0108 B 22 04 0108 C 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	222841024	THREE RIVERS ROYALTY LLC	RANGE RESOURCES APPALACHIAN LLC	12/17/2019	126.4800	14.0535	11.5219	513/190	201900008412	PENNSYLVANIA	Greene	Rushell	FMP PO 22 04 0102	Yes, conveying the portion of the lease identified on Exhibit A.1.
Lease	271629000	RONALD ROBERT M FOX	ONE GAS COMPANY CONSOL PENNSYLVANIA COAL	6/22/2015	86.0000	88.0000	73.6000	482/1154	201500000380	PENNSYLVANIA	Greene	Alleppo	01 02 0104	No
Deed	275267000	ETIEN EVELYN	CONFIDENTIAL	3/7/2005	16.1400	8.1200	7.0674	331/106	200400003757	PENNSYLVANIA	Greene	Alleppo, Rushell	01 02 0115, 22 04 0126 A	No
Deed	281629001	EVELYN CHARLESTON NATIONAL BANK TRUSTEE & PENN	CONFIDENTIAL COAL COMPANY THE CHARLESTON	6/8/2011	1.0000	0.3140	0.2731	413/2234	201100002783	PENNSYLVANIA	Greene	Alleppo	01 02 0116	No
Deed	225831000	THOMAS WALTER M	CONFIDENTIAL COAL COMPANY THE CHARLESTON	2/3/1980	47.2500	42.1250	44.5425	825/1013		WEST VIRGINIA	Marion	Mansington	12 14 31	No
Deed	267225001	WALTER M BERNARD DUBNER AND	THE CHARLESTON NATIONAL BANK AS TRUSTEE	5/2/1957	113.6300	51.4000	43.7880	583/191		WEST VIRGINIA	Marion	Mansington	12 14 37	No
Deed	N/A	PAUL T GREEN AND MARY	THE CHARLESTON NATIONAL BANK AS TRUSTEE	8/10/1957	3	1.5	1.2300	583/112		WEST VIRGINIA	Marion	Mansington	12 14 30	No
Deed	N/A	WALTER D STRAIGHT JR AND CONVA EDWARD E	THE CHARLESTON NATIONAL BANK AS TRUSTEE	5/11/1957	48.93	32.2125	10.0743	584/18 158/7409		WEST VIRGINIA	Marion	Mansington	12 14 34	No
Deed	281629001	WALTER D STRAIGHT JR AND CONVA EDWARD E	THE CHARLESTON NATIONAL BANK AS TRUSTEE	4/9/1960	50.87	50.87	41.7134	613/386		WEST VIRGINIA	Marion	Mansington	12 16 22	No
Deed	281629000	YANGLINER AND GENEVIEVE FANGLER HENDERSON AND VINCE	CONFIDENTIAL COAL COMPANY	10/13/1977	47.54	47.54	39.0976	407/517		WEST VIRGINIA	Marion	Mansington	12 16 24	No
Deed	299610990	HENDERSON AND VINCE	CONFIDENTIAL COAL COMPANY	9/10/2019	18.63	14.121121	0.4014	422/179		WEST VIRGINIA	Marion	Mansington	12 17 42.1	No

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EQT Production
Hydraulic Fracturing Monitoring Plan
Pad ID: Elliott
County: Marion

June 21, 2021

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Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Marion County, WV prior to hydraulic fracturing at the following EQT wells on the Elliott pad: 1H, 3H, 5H, 7H, 9H, 11H, 13H, 15H & 17H

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

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

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

1. Communications with Well Operators

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

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

EQT will recommend to these operators at a minimum to:

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

2. Reporting

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

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*Plat ✓
6/28/21

June 22, 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
Mannington District
Marion 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
- Check in the amount of \$2,500.00, payable to "West Virginia Department of Environmental Protection," for the well work permit modification 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
- Updated Hydraulic Fracturing Monitoring Plan

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.

This well has been drilled vertically. The conductor, fresh water casing and intermediate casing have been set to the depths shown on the WW-6B form and wellbore diagram.

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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