



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, October 21, 2025
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Snook Unit 1H
47-033-06122-00-00

Extended lateral

ANTERO RESOURCES CORPORATION

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 black ink, reading "H. Jason Harmon".

H. Jason Harmon
Acting Chief

Operator's Well Number: Snook Unit 1H
Farm Name: Robert G & Christine E Flanigan etal
U.S. WELL NUMBER: 47-033-06122-00-00
Horizontal 6A New Drill
Date Modification Issued: 10/21/2025

Promoting a healthy environment.

10/24/2025

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

1) Well Operator: Antero Resources Corporation 494507062 033 - Harris Eagle Wolf Summit 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Snook Unit 1H MOD Well Pad Name: Flanigan Pad

3) Farm Name/Surface Owner: Robert G. & Christine Flanigan, et al Public Road Access: Gregorys Run Road

4) Elevation, current ground: 1,161' Elevation, proposed post-construction: 1,154'

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

(b) If Gas Shallow X Deep _____
Horizontal X

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6) Existing Pad: Yes or No Yes

OCT 02 2025

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):

Marcellus Shale: 7700' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

WV Department of
Environmental Protection

8) Proposed Total Vertical Depth: 7700' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 25800' MD

11) Proposed Horizontal Leg Length: 15562' *Open to modification at a later date

12) Approximate Fresh Water Strata Depths: 424'

13) Method to Determine Fresh Water Depths: From 47033009510000

14) Approximate Saltwater Depths: 1176'

15) Approximate Coal Seam Depths: N/A

16) Approximate Depth to Possible Void (coal mine, karst, other): Yes

17) Does Proposed well location contain coal seams

directly overlying or adjacent to an active mine?

Yes _____

No X

(a) If Yes, provide Mine Info: Name: _____

Depth: _____

Seam: _____

Owner: _____

Jeff A Propat

9-30-2025

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

Drill a new horizontal shallow well into the Marcellus Shale.

*Antero will be air drilling the fresh water string which makes it difficult to determine when fresh water is encountered. Therefore, we have built in a buffer for the casing setting depth which helps to ensure that all fresh water zones are covered.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs
Anticipated Max Rate - 80 bpm

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21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 12.63 acres

22) Area to be disturbed for well pad only, less access road (acres): 7.64 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.

Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.

Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

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

Conductor: no additives, Class A/L cement.

Surface: Class A/L cement with 2-3% calcium chloride and 1/4 lb of flake

Intermediate: Class A/L cement with 1/4 lb of flake, 5 gallons of clay treat

Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51

Production: Tail cement- Class G/H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

*Note: Attach additional sheets as needed.

Jeff A Probst

9-30-2025

Page 3 of 3
10/24/2025

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47033038960000	COFFMAN A W	K-11	DEVONIAN GAS PRODUCTION INC	KRISCOTT INC	4,681	2346-4490	Fifth, Speechley, Balltown, Benson	Weir, Alexander
47033038330000	COFFMAN A W	COFFMANK-7	DEVONIAN GAS PRODUCTION INC	KRISCOTT INC	4,660	3010 - 4587	Speechley, Balltown, Benson	Weir, Alexander
47033010880000	DENNIS C BATES	12379	DIVERSIFIED PRODUCTION LLC	CONSOL GAS SUPPLY CRP	3,373	1320 - 3160	Big Injun, Fifty foot, Fifth	Weir, Alexander
47033038350000	ATKINSON B	ATKINSONK-	DEVONIAN GAS PRODUCTION INC	KRISCOTT INC	3,460	2944 - 3288	Up Speechley, Speechley, Balltown	Weir, Alexander
47033012860000	A CAIN	1169	DIVERSIFIED PRODUCTION LLC	CONSOL GAS SUPPLY CRP	2,009		Fifty foot, thirty foot, Fifth, Fifth	Weir, Alexander
47033013170000	S ELLIOTT	1887	DIVERSIFIED PRODUCTION LLC	CONSOL GAS SUPPLY CRP	2,069			
47033010900000	COFFMAN E L	2362	DIVERSIFIED PRODUCTION LLC	EQUITABLE GAS CO	3,434			
47033039720000	ATKINSON B	4	DEVONIAN GAS PRODUCTION INC	KRISCOTT INC	4,667	3327 - 4498		
47033012310000	A G SWIGER	12469	DIVERSIFIED PRODUCTION LLC	CONSOL GAS SUPPLY CRP	3,400	3311 - 3332		
47033030090000	BARTLETT J C	538	CNG DEVELOPMENT CO	CNG DEVELOPMENT CO	5,290	3159 - 4671		

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LEGEND

- ⊙ Proposed gas well
- ⊛ Existing Well, as noted
- ⊛ Digitized Well, as noted



The orientation of this survey is Grid North, and its coordinate base is the West Virginia Coordinate System of 1927, North Zone

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47-033-03009

47-033-01231

Snook 1H

47-033-03972

500'
Buffer

47-033-01090

47-033-01317

47-033-01286

47-033-03835

47-033-01088

47-033-03833

47-033-03896

Bridgeport Office
Phone: (304) 848-5035
Fax: (304) 848-5037

172 Thompson Drive
Bridgeport, WV 26330



PARTY CHIEF: C. Lynch

DRAWN BY: C. Robinson

RESEARCH: J. Miller

PREPARED: September 11, 2025

SURVEYED: Dec. 2016

PROJECT NO: 126-36-EO-25

FIELD CREW: C.L., K.M.

Sheet 1 of 1

DRAWING NO: Snook 1H BHL MOD AOR



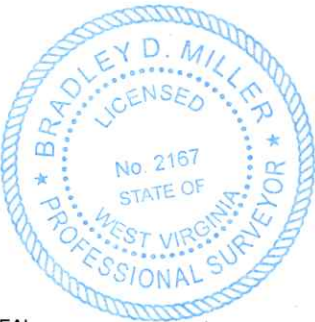
Scale: 1 inch = 2000 feet

10/24/2025

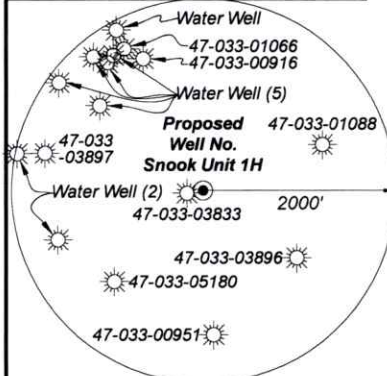


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller
Bradley D. Miller, P.S. 2167



SEAL



Note: Eight (8) water wells were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

FILE NO: 126-36-EO-25
DRAWING NO: Snook Unit 1H BHL-MOD Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

DATE: September 11 20 25
OPERATOR'S WELL NO. Snook Unit 1H
API WELL NO
47 - 033 - 06122
STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL
(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW

LOCATION: ELEVATION: Proposed 1,154.4' WATERSHED: Tenmile Creek QUADRANGLE: Wolf Summit
DISTRICT: Eagle COUNTY: Harrison
SURFACE OWNER: Robert G. & Christine E. Flanigan, et al ACREAGE: 129.00

ROYALTY OWNER: A.W. & Susan C. Coffman LEASE NO: ACREAGE: 129.00
PROPOSED WORK: ☐ DRILL ☐ CONVERT ☒ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL-MOD 7,700' TVD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,800' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Conrad Baston
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
Denver, CO 80202 Bridgeport, WV 26330

9,245' to Bottom Hole

5,813' to Top Hole

TOP LATITUDE 39 - 22 - 30
BTM LATITUDE 39 - 25 - 00

Tag	Bearing	Dist.	Description
L1	S 75°40' E	1,916.2'	47-033-03897
L2	S 61°17' W	1,174.5'	47-033-01088
L3	N 51°08' W	980.7'	47-033-03896
L4	N 52°41' E	1,426.7'	47-033-05180
L5	N 79°22' E	1,429.4'	Pt. of Entry

TOP HOLE LONGITUDE 80 - 22 - 30
BTM HOLE LONGITUDE 80 - 22 - 30

10,612' to Top Hole

10,719' to Bottom Hole

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Environmental Protection

Btm Hole
7.5' Spot

Top Hole
7.5' Spot

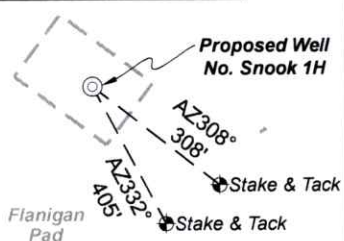
See Detail 1

Proposed Well No.
Snook 1H

POE



Well Location References



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Notes:

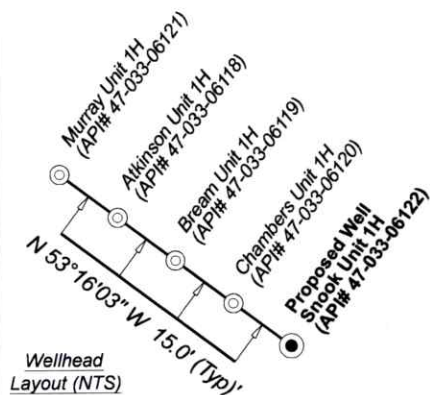
Well No. Snook Unit 1H
UTM Zone 17, NAD 1927
Top Hole Coordinates
N: 14,288,436.76'
E: 1,811,301.72'
Point of Entry Coordinates
N: 14,288,723.78'
E: 1,812,701.53'
Bottom Hole Coordinates
N: 14,303,477.36'
E: 1,807,766.11'

Notes

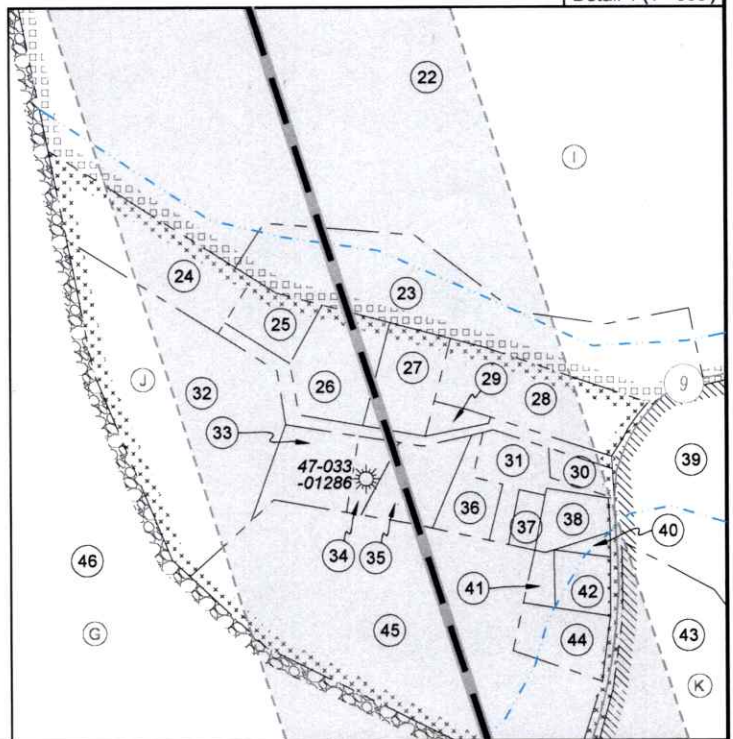
West Virginia Coordinate System
of 1927, North Zone
based upon Differential GPS Measurements.
Well No. Snook Unit 1H Top Hole coordinates are
N: 309,343.51' Latitude: 39°20'45.11"
E: 1,746,731.09' Longitude: 80°23'43.99"
Bottom Hole coordinates are
N: 324,445.73' Latitude: 39°23'14.05"
E: 1,743,445.50' Longitude: 80°24'27.76"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,355,342.785m N: 4,359,927.152m
E: 552,100.615m E: 551,022.998m
Plat orientation and corner and well references
are based upon the grid north meridian.
Well location references are based upon the magnetic
meridian.

Legend

- Proposed gas well
- Well Reference, as noted
- Monument, as noted
- Existing Well, as noted
- Digitized Well, as noted
- Creek or Drain
- Existing road
- Surface boundary (approx.)
- District line (approx.)



Detail 1 (1"=500')



FILE NO: 126-36-EO-25

DRAWING NO: Snook Unit 1H BHL-MOD Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

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WVDOT, Harrisville, WV

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

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47 - 033 - 06122
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ACREAGE: 129.00

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☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,800' MD

WELL OPERATOR: Antero Resources Corporation

DESIGNATED AGENT: Conrad Baston

ADDRESS: 1615 Wynkoop Street
Denver, CO 80202

ADDRESS: 535 White Oaks Blvd.
Bridgeport, WV 26330



Harrison County				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	185 / 56	James M. & Barbara A. Plybon	1685 / 534	69.75
2	205 / 11	Tenmile Ranch, LLC	1754 / 249	81.35
3	205 / 12	Romona A. & Richard P. Swiger, Jr.	1184 / 420	21.80
4	205 / 13	Maxine K. & James G. Ice, II	1234 / 770	29.98
5	185 / 62	Gregory S. Plybon	1411 / 293	21.79
6	205 / 14	James M. Plybon	1411 / 289	39.28
7	205 / 38	Maxine K. & James G. Ice, II	1234 / 770	40.42
8	205 / 14.1	James M. Plybon	1398 / 1023	27.58
9	205 / 38.1	David E. & Rebecca L. Nay	1741 / 767	17.58
10	205 / 39	Michael S. & Vickie L. Holt	1663 / 1159	87.07
11	205 / 39.3	Dennis D. & Joyce E. Southern	1318 / 195	5.00
12	205 / 39.2	Keith R. & Brenda K. Fortney	1070 / 499	5.00
13	205 / 61	David E. & Rebecca L. Nay	1208 / 843	89.26
14	205 / 79.1	David E. & Rebecca L. Nay	1741 / 762	88.00
15	205 / 79.2	Larry Hood	1789 / 1268	0.57
16	205 / 79	Larry Hood	1784 / 1193	4.82
17	225 / 22	Christopher J. Deem	1782 / 126	2.12
18	225 / 21	Patrick H. & Frank O. Cunningham	W203 / 413	64.00
19	225 / 23	Lyndon Holdings, LLC, et al	1613 / 135,152	35.82
20	225 / 36	Jason C. & Kristin A. Cunningham	1610 / 1185	18.47
21	226 / 14	Charles J. Nay	W184 / 59	61.70
22	226 / 36	Julia F. Zirkle	W167 / 267	53.50
23	226 / 54	Marie Z. & John Q. Clemens	1287 / 659	5.50
24	226 / 56.9	Drayke A. Martin & Jacye D. Laxton	1776 / 1001	2.07
25	226 / 56.15	R. Michelle & Harold Q. Frye, II	1244 / 585	2.00
26	226 / 56.6	R. Michelle & Harold Q. Frye, II	1244 / 585	1.33
27	226 / 56.10	Danny J. & Tammie J. Heflin	1151 / 571	1.02
28	226 / 55	Bobby L. Ash, II	1372 / 1032	2.00
29	226 / 56.17	James E. Darway	1260 / 835	0.20
30	226 / 56.4	Clifford A. & James H. Powers	999 / 195	0.44
31	226 / 56	Michael A. Tharp	1734 / 1338	0.76
32	226 / 56.13	Corey J. & Tara A. Wright	1625 / 1225	5.80
33	226 / 56.12	Harold Q. & Ronda M. Frye	1582 / 246	1.00
34	226 / 56.19	Michael A. Tharp	1734 / 1338	0.34
35	226 / 56.7	Jason W. Melinda J. Hurst	1390 / 265	1.00
36	226 / 56.11	Michael A. Tharp	1623 / 156	0.55
37	226 / 56.18	Janet Sayers	1485 / 533	0.23
38	226 / 56.14	Janet S. Sayers	1128 / 247	0.49
39	226 / 90	Gary & Susan Ross	1432 / 964	14.06
40	226 / 56.8	Travis Baney	1555 / 1132	0.11
41	226 / 56.2	Travis Baney	1555 / 1132	0.22
42	226 / 56.3	Travis Baney	1555 / 1132	0.50
43	226 / 90.1	Branch Banking & Trust Co.	1665 / 1203	7.19
44	226 / 56.1	Judy S. & John D. Maxwell, Jr.	1465 / 836	0.80
45	226 / 56.5	Gary & Susan Ross	1234 / 645	9.59
46	226 / 57	Jason C. & Kristin A. Cunningham	1610 / 1185	67.52
47	226 / 57.1	Andria L. Williams	1628 / 98	0.60
48	226 / 90.2	David E. Robey	1555 / 1136	5.35
49	226 / 88	Jason C. & Kristin A. Cunningham	1610 / 1185	9.98
50	226 / 89	David J. Robey	1444 / 1293	12.35
51	226 / 90.4	Logan D. Robey	1780 / 917	1.00
52	226 / 90.3	David J. Robey	1444 / 1293	83.98
53	246 / 30	James A. Varner	1261 / 957	397.42
54	245 / 26	Robert G. & Christine E. Flanigan, et al	W216 / 842	129.00

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Tag	Lease
A	James A. & Alice Griffin
B	Louisa C. Robinson & D.D. Robinson, her husband
C	J. Ashvill & Matilda J. Swiger
D	J.N. Swiger & H.J. Swiger
E	J.C. & Mandora V. Bartlett
F	A.G. Swiger
G	Blanche R. Atkinson
H	E.L. Coffman & F.O. Coffman, his wife
I	Samuel A. Elliott & Bashie A. Elliott
J	Anson Cain & Ida S. Cain, his wife
K	Marguerite Mason, et al
L	C. Garnett Ritter, et al
M	Dennis C. Bates, et al
N	A.W. & Susan C. Coffman

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DESIGNATED AGENT: Conrad Baston

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ADDRESS: 535 White Oaks Blvd.
Bridgeport, WV 26330

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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>N: A.W. & Susan C. Coffman Lease</u>			
A.W. Coffman & Susan Coffman	Hope Natural Gas	1/8	0143/0420
Hope Natural Gas	Consolidated Gas Supply Corporation	Conveyed	0903/0179
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Conveyed	1136/0250
Consolidated Gas Transmission Corporation	CNG Development Company	Conveyed	1143/0921
CNG Development Company	CNG Producing Company	Name Change	WVSOS
CNG Producing Company	Dominion Exploration & Production, Inc	Name Change	0058/0366
Dominion Exploration & Production, Inc	Antero Resources Appalachian Corporation	Assignment	1423/1068
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914
<u>M: Dennis C. Bates, et al Lease</u>			
Dennis C. Bates, et al	Consolidated Gas Supply Corporation	1/8	1018/0344
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Conveyed	1136/0250
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	0051/0795
CNG Transmission Corporation	UMC Petroleum Corporation	Assignment	1230/1194
UMC Petroleum Corporation	Ashland Exploration, Inc.	Assignment	1263/0494
Ashland Exploration, Inc.	Blazer Energy Corporation	Assignment	1294/0299
Blazer Energy Corporation	Eastern State Oil & Gas, Inc.	Name Change	0058/0093
Eastern State Oil & Gas, Inc.	Equitable Production - Eastern States Oil & Gas, Inc.	Name Change	0059/0854
Equitable Production - Eastern States Oil & Gas, Inc.	Appalachian Natural Gas Trust	Assignment	1326/0527
Appalachian Natural Gas Trust	EQT Production Company	Merger	0036/1328
EQT Production Company	Antero Resources Appalachian Corporation	Assignment	1481/1159
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914
<u>L: C. Garnett Ritter, et al Lease</u>			
C. Garnett Ritter, et al	Consolidated Gas Supply Corporation	1/8	1027/0731
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Conveyed	1136/0250
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	0051/0795
CNG Transmission Corporation	UMC Petroleum Corporation	Assignment	1230/1194
UMC Petroleum Corporation	Ashland Exploration, Inc.	Assignment	1263/0494
Ashland Exploration, Inc.	Blazer Energy Corporation	Assignment	1294/0299
Blazer Energy Corporation	Eastern State Oil & Gas, Inc.	Name Change	0058/0093
Eastern State Oil & Gas, Inc.	Equitable Production - Eastern States Oil & Gas, Inc.	Name Change	0059/0854
Equitable Production - Eastern States Oil & Gas, Inc.	Appalachian Natural Gas Trust	Assignment	1326/0527
Appalachian Natural Gas Trust	EQT Production Company	Merger	0036/1328
EQT Production Company	Antero Resources Appalachian Corporation	Assignment	1481/1280
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914
<u>K: Marguerite Mason, et al Lease</u>			
Marguerite Mason, et al	J.A. Flinn d/b/a Chrisman Drilling Company	1/8	1061/0040
J.A. Flinn d/b/a Chrisman Drilling Company	Appalachian Royalties, Inc.	Assignment	1072/0760
Appalachian Royalties, Inc.	Antero Resources Appalachian Corporation	Assignment	0051/0795
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914

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Operator's Well Number Snook Unit 1H MOD

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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)

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>G: Blanche R. Atkinson Lease</u>			
Blanche R. Atkinson	Consolidated Gas Supply Corporation	1/8	1017/0388
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Conveyed	1136/0250
Consolidated Gas Transmission Corporation	CNG Development Company	Conveyed	1143/0921
CNG Development Company	CNG Producing Company	Name Change	WVSOS
CNG Producing Company	Dominion Exploration & Production, Inc.	Name Change	0058/0366
Dominion Exploration & Production, Inc.	Dominion Transmission, Inc.	Assignment	1458/0299
Dominion Transmission, Inc.	CONSOL Energy Holdings, LLC VI	Merger	0036/0913
CONSOL Energy Holdings, LLC VI	Consol Gas Company	Merger	0059/1019
Consol Gas Company	CNX Gas Company, LLC	Merger	1472/0294
CNX Gas Company, LLC	Antero Resources Appalachian Corporation	Assignment	1479/0628
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914
<u>J: Anson Cain & Ida S. Cain, his wife Lease</u>			
Anson Cain and Ida S. Cain, his wife	South Penn Oil Company	1/8	0105/0178
South Penn Oil Company	Consolidated Gas Supply Corporation	Assignment	0903/0179
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Conveyed	1136/0250
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	0051/0795
CNG Transmission Corporation	Dominion Transmission, Inc.	Name Change	0058/0362
Dominion Transmission, Inc.	CONSOL Energy Holdings, LLC VI	Merger	0036/0913
CONSOL Energy Holdings, LLC VI	CNX Gas Company, LLC	Merger	1472/0294
CNX Gas Company, LLC	Antero Resources Appalachian Corporation	Assignment	1479/0628
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914
<u>I: Samuel A. Elliott & Bashie A. Elliott Lease</u>			
Samuel A. Elliott and Bashie A. Elliott	Sheridan R. Griffin	1/8	0194/0420
Sheridan R. Griffin	W. R. Truby	Assignment	0207/0471
W. R. Truby	The Wheeling Natural Gas Company	Assignment	0210/0063
The Wheeling Natural Gas Company	Hope Natural Gas Company	Assignment	0202/0375
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0903/0179
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Conveyed	1136/0250
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	0051/0795
Dominion Transmission, Inc.	Dominion Transmission, Inc.	Name Change	0058/0362
CONSOL Energy Holdings, LLC VI	CONSOL Energy Holdings, LLC VI	Merger	0036/0913
CNX Gas Company LLC	CNX Gas Company LLC	Merger	1472/0294
Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation	Assignment	1479/0628
	Antero Resources Corporation	Name Change	0002/0914
<u>H: E.L. Coffman & F.O. Coffman, his wife Lease</u>			
E.L. Coffman and F.O. Coffman, his wife	The Philadelphia Company Of West Virginia	1/8	0161/0075
The Philadelphia Company Of West Virginia	Pittsburgh and West Virginia Gas Company	Assignment	0236/0111
Pittsburgh and West Virginia Gas Company	Equitable Gas Company	Assignment	0715/0048
Equitable Gas Company	Equitrans, Inc.	Assignment	1189/0619
Equitrans, Inc.	Equitable Production-Eastern States, Inc.	Assignment	1342/1028
Equitable Production-Eastern States, Inc.	EQT Production Company	Name Change	0059/0854
EQT Production Company	Antero Resources Appalachian Corporation	Assignment	1481/1168
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914

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Operator's Well Number Snook Unit 1H MOD

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
G: Blanche R. Atkinson Lease			
Blanche R. Atkinson	Consolidated Gas Supply Corporation	1/8	1017/0388
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Conveyed	1136/0250
Consolidated Gas Transmission Corporation	CNG Development Company	Conveyed	1143/0921
CNG Development Company	CNG Producing Company	Name Change	WVSOS
CNG Producing Company	Dominion Exploration & Production, Inc.	Name Change	0058/0366
Dominion Exploration & Production, Inc.	Dominion Transmission, Inc.	Assignment	1458/0299
Dominion Transmission, Inc.	CONSOL Energy Holdings, LLC VI	Merger	0036/0913
CONSOL Energy Holdings, LLC VI	Consol Gas Company	Merger	0059/1019
Consol Gas Company	CNX Gas Company, LLC	Merger	1472/0294
CNX Gas Company, LLC	Antero Resources Appalachian Corporation	Assignment	1479/0628
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914
F: A.G. Swiger Lease			
A.G. Swiger	Hope Natural Gas Company	1/8	0176/0162
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Conveyed	0903/0179
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Conveyed	1136/0250
Consolidated Gas Transmission Corporation	CNG Transmission Company	Conveyed	0060/0117
CNG Transmission Company	Dominion Transmission, Inc.	Name Change	0060/0117
Dominion Transmission, Inc.	CONSOL Energy Holdings, LLC VI	Merger	0036/0913
CONSOL Energy Holdings, LLC VI	CNX Gas Company, LLC	Merger	1472/0294
CNX Gas Company, LLC	Antero Resources Appalachian Corporation	Assignment	1479/0628
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914
E: J.C. & Mandora V. Bartlett Lease			
J. C. & Mandora V. Bartlett	Hope Natural Gas Company	1/8	0184/0378
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Conveyed	0903/0179
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Conveyed	1136/0250
Consolidated Gas Transmission Corporation	CNG Transmission Company	Name Change	0051/0795
CNG Transmission Company	Dominion Transmission, Inc.	Name Change	0059/1227
Dominion Transmission, Inc.	CONSOL Energy Holdings, LLC XVI	Merger	1458/0299
CONSOL Energy Holdings, LLC XVI	CNX Gas Company, LLC	Merger	0059/1019
CNX Gas Company, LLC	Antero Resources Appalachian Corporation	Assignment	1479/0628
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914
Antero Resources Corporation	XTO Energy, Inc.	Assignment	1535/0456
XTO Energy, Inc.	Antero Resources Corporation	Assignment	Pooled Tract
D: J.N. Swiger & H.J. Swiger Lease			
J. N. Swiger and H. J. Swiger	Hope Natural Gas Company	1/8	0176/0216
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Conveyed	0903/0179
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Conveyed	1136/0250
Consolidated Gas Transmission Corporation	CNG Transmission Company	Name Change	0051/0795
CNG Transmission Company	Dominion Transmission, Inc.	Name Change	0058/0362
Dominion Transmission, Inc.	CONSOL Energy Holdings, LLC XVI	Merger	1458/0299
CONSOL Energy Holdings, LLC XVI	CNX Gas Company, LLC	Merger	0036/0913
CNX Gas Company, LLC	Antero Resources Appalachian Corporation	Assignment	1479/0628
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>B: Louisa C. Robinson & D.D. Robinson, her husband Lease</u>			
Louisa C. Robinson & D.D. Robinson, her husband	Hope Natural Gas Company	1/8	0180/0381
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Conveyed	0903/0179
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Conveyed	1136/0250
Consolidated Gas Transmission Corporation	CNG Transmission Company	Name Change	0051/0795
CNG Transmission Company	Dominion Transmission Inc.	Name Change	0058/0362
Dominion Transmission Inc.	CONSOL Energy Holdings, LLC XVI	Merger	1458/0299
CONSOL Energy Holdings, LLC XVI	Consol Gas Company	Merger	0059/1019
Consol Gas Company	CNX Gas Company, LLC	Merger	1472/0294
CNX Gas Company, LLC	Antero Resources Appalachian Corporation	Assignment	1479/0628
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914

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*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

*Co-tenancy utilization – Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with development of certain royalty owners' interests in this tract.

**Pooling/Unitization – Antero has filed a horizontal well unitization application with the West Virginia Oil and Gas Conservation Commission that seeks to pool certain owners in this tract.

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
A: James A. & Alice Griffin Lease				
	James A. & Alice Griffin	Hope Natural Gas Company	1/8	0172/0156
	Hope Natural Gas Company	Consolidated Gas Supply Corporation	Conveyed	0903/0179
	Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Conveyed	1136/0250
	Consolidated Gas Transmission Corporation	CNG Transmission Company	Name Change	0051/0795
	CNG Transmission Company	Dominion Transmission Inc.	Name Change	0058/0362
	Dominion Transmission Inc.	CONSOL Energy Holdings LLC XVI	Merger	1458/0299
	CONSOL Energy Holdings LLC XVI	Consol Gas Company	Merger	0059/1019
	Consol Gas Company	CNX Gas Company, LLC	Merger	1472/0294
	CNX Gas Company LLC	Antero Resources Appalachian Corporation	Assignment	1479/0628
	Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914
	Antero Resources Corporation	XTO Energy, Inc.	Assignment	1575/1298
	XTO Energy, Inc.	Antero Resources Corporation	Assignment	Pooled Tract

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**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: Antero Resources Corporation
By: Tim Rady
Its: Senior Vice President of Land

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