



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

Monday, March 15, 2021
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

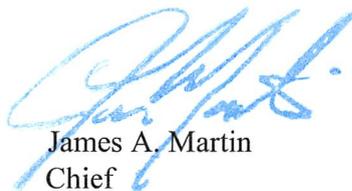
Re: Permit Modification Approval for TAPEATS UNIT 1H
47-095-02713-00-00

Lateral Extension

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 blue ink, appearing to read 'James A. Martin', is positioned above the printed name and title.

James A. Martin
Chief

Operator's Well Number: TAPEATS UNIT 1H
Farm Name: KENNETH TOMBLIN ET AL
U.S. WELL NUMBER: 47-095-02713-00-00
Horizontal 6A New Drill
Date Modification Issued: 3/15/2021

Promoting a healthy environment.

03/19/2021

WW-6B
(04/15)

API NO. 47-095 - 02713
 OPERATOR WELL NO. Tapeats Unit 1H
 Well Pad Name: Grand Pad

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

1) Well Operator: Antero Resources Corpora 494507062 095-Tyler Ellsworth Porter Falls 7.5'
 Operator ID County District Quadrangle

2) Operator's Well Number: Tapeats Unit 1H Well Pad Name: Grand Pad

3) Farm Name/Surface Owner: Kenneth Tomblin et al Public Road Access: Gorrells Run Road

4) Elevation, current ground: 1268' Elevation, proposed post-construction: ~1243'

5) Well Type (a) Gas Oil Underground Storage

Other _____

(b) If Gas Shallow Deep

Horizontal _____

6) Existing Pad: Yes or No Yes

Dmit
3-10-21

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 7300' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

8) Proposed Total Vertical Depth: 7300' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 25600' MD

11) Proposed Horizontal Leg Length: 16116'

12) Approximate Fresh Water Strata Depths: 25'

13) Method to Determine Fresh Water Depths: 47-095-02267

14) Approximate Saltwater Depths: 2305'

15) Approximate Coal Seam Depths: 431'

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

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: _____
 Depth: _____
 Seam: _____
 Owner: _____

WW-6B
(04/15)

API NO. 47-095 - 02713
OPERATOR WELL NO. Tapeats Unit 1H
Well Pad Name: Grand Pad

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	20"	New	H-40	94#	80	80	CTS, 218 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	300	300	CTS, 417 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	25600	25600	6631 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

DMH
3-10-21

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	20"	24"	0.438"	1530	50	Class A	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	2500	Lead-H/POZ & Tail-H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A			

WW-6B
(10/14)

API NO. 47-095 - 02713
 OPERATOR WELL NO. Tapeats Unit 1H
 Well Pad Name: Grand Pad

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

Drill, perforate, fracture a new horizontal shallow well and complete Marcellus Shale.

DMH
3-10-21

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): Existing 44.34 acres

22) Area to be disturbed for well pad only, less access road (acres): Existing 13.72 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 cement.
 Surface: Class A cement with 2-3% calcium chloride and 1/4 lb of flake
 Intermediate: Class A 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 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.

PERMIT MODIFICATION API # 47-095-02713



47095001650000
47095001600000

Tapeats Unit 1H

RECEIVED
Office of Oil and Gas

MAR 03 2021

WY Department of
Environmental Protection



Antero Resources Corporation

Tapeats Unit 1H - AOR



WELL SYMBOLS
Gas Well
Oil & Gas Well

September 28, 2020

03/19/2021

UWI (APINum)	Well Name	Well Number	Operator	Hist Oper	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47095001650000	WILEY MIDCAP	1	METZ OIL CO	METZ OIL CO	2,070	N/A	Salt Sands	Weir, Alexander, Benson
47095001600000	G MIDCAP/WHARTON/DOAK	1	METZ OIL CO	METZ OIL CO	2,047	N/A	Big Lime, Keener	Weir, Alexander, Benson

RECEIVED
Office of Oil and Gas
MAR 03 2011
WV Department of
Environmental Protection

]

LATITUDE 39°32'30"

5,354'

LATITUDE 39°35'00"

8,849' TO BOTTOM HOLE

Antero Resources Corporation Well No. Tapeats Unit 1H

NOTES: WELL 1H TOP HOLE INFORMATION: N: 369,500ft E: 1,630,205ft LAT: 39°30'25.52" LON: 80°48'38.31" BOTTOM HOLE INFORMATION: N: 385,496ft E: 1,626,940ft LAT: 39°33'03.13" LON: 80°49'22.97" WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS: WELL 1H TOP HOLE INFORMATION: N: 4,373,077m E: 516,294m BOTTOM HOLE INFORMATION: N: 4,377,934m E: 515,218m

(NAD) 27 (UTM) ZONE 17 COORDS: WELL 1H TOP HOLE INFORMATION: N: 14,346,623ft E: 1,693,828ft POINT OF ENTRY INFORMATION: N: 14,347,314ft E: 1,695,515ft BOTTOM HOLE INFORMATION: N: 14,362,556ft E: 1,690,297ft

WV NORTH ZONE GRID NORTH

Table listing landowners in Ellsworth District - Tyler County, including names like Josh Amos, Albert Rice Est., Wash Beatty Et Al, etc.

NOTE: NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.

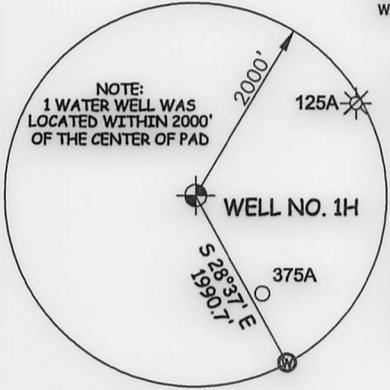
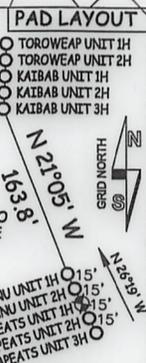
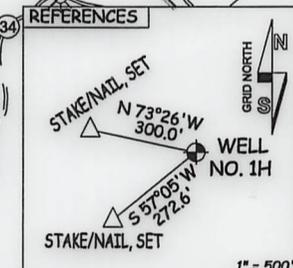
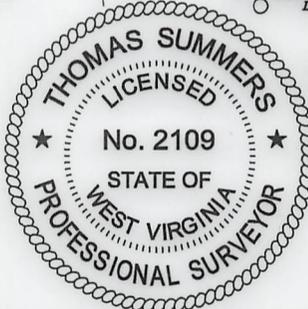


Table listing landowners in Ellsworth District - Tyler County, including names like Michael Martin, Darrell Sole, Jean Neel Et Al, etc.



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 PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION. STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS. WILLOW LAND SURVEYING PLLC 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415



Form containing Job # 20-009WA, Drawing # TAPEATS1H, Scale 1" = 2000', and other project details.

Form containing well type (Oil/Gas), location (Porter Falls 7.5' Quadrangle), surface owner (Kenneth Tomblin Et Al), and proposed work details.

COUNTY NAME TYLER PERMIT

LATITUDE 39°32'30"

5,354'

LATITUDE 39°35'00"

8,849' TO BOTTOM HOLE

Antero Resources Corporation
Well No. Tapeats Unit 1H

NOTES:
WELL 1H TOP HOLE INFORMATION:
N: 369,500ft E: 1,630,205ft
LAT: 39°30'25.52" LON: 80°48'38.31"
BOTTOM HOLE INFORMATION:
N: 385,496ft E: 1,626,940ft
LAT: 39°33'03.13" LON: 80°49'22.97"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

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POINT OF ENTRY INFORMATION:
N: 14,347,314ft E: 1,695,515ft
BOTTOM HOLE INFORMATION:
N: 14,362,556ft E: 1,690,297ft

Ellsworth District - Tyler County	
07-05	Josh Amos
07-19	Albert Rice Est.
07-20	Wash Beauty Et Al
07-21	Gladys Conley
07-22	Glenn Simmons
07-22.1	Charles Gump
07-23	Harold Vost
07-24	BB Farm Investments LLC
07-25	BB Farm Investments LLC
07-35	Hezekiah Fliuharty
11-08	EQT Production Co.
11-09	Maurice Carlisle Et Al
11-10	Maurice Carlisle Et Al
11-11	Maurice Carlisle Et Al
11-12	BB Farm Investments LLC
11-13	BB Farm Investments LLC
11-14	Paul Thomas
11-15	BB Farm Investments LLC
11-18.1	Sarah Sine
11-19	Eizle Hall
11-20	Edward Quirk
11-22	Nile Harris
11-23	Darrell Sole Et Al
11-24	Stanley Satkowski
11-25	William Murner
11-26	Gary Sole
11-27	Gary Sole
11-28	Florence Leek
11-52	Nile Harris
11-53	Roger Eddy Jr.
11-54	Ronnie Eddy
11-55	Donald Harris
11-56	Richard Neff
11-56.1	Richard Neff
11-56.2	Richard Neff
11-57	Edward Quirk
11-58	Edward Quirk
11-59	Edward Quirk
11-59.1	Edward Quirk
11-60	Michael Martin

WV NORTH ZONE
GRID NORTH

11,825' TO BOTTOM HOLE

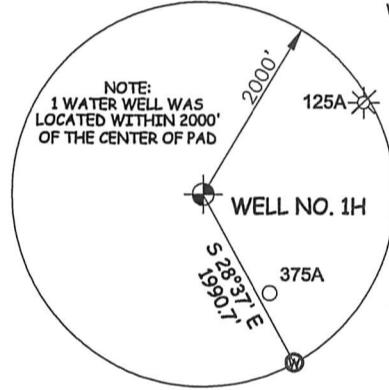
12,595'

LONGITUDE 80°47'30"

LONGITUDE 80°47'30"

NOTE:
NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.

Ellsworth District - Tyler County	
11-60	Michael Martin
16-01	Darrell Sole
16-11	Jean Neel Et Al
16-12	Richard Neff
16-13	Gail Neff
16-13.1	Gail Neff
16-14	James Barnhart
16-15	Harvey Miller Et Al
16-16	Harvey Miller Et Al
16-28	Kenneth Tomblin
16-29	Michael Tomblin
16-30	Christopher Investments Inc.
17-01	Richard Neff
17-58	Christopher Investments Inc.
17-59	Michael Beegle
17-63	Edna Roberts

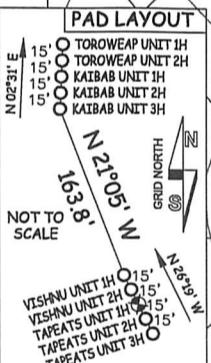


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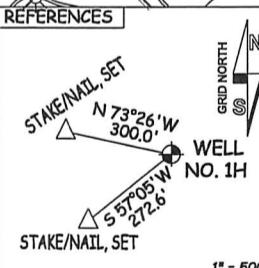
STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC
220 MASONIC AVE. PENNSBORO
WEST VIRGINIA 26415



JOB # 20-009WA
DRAWING # TAPEATS1H
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

LEGEND
— Surface Owner Boundary Lines +/-
--- Adjoining Surface Tracts +/-
⊕ Found monument, as noted
THOMAS SUMMERS P.S. 2109
DATE 02/18/21
OPERATOR'S WELL# TAPEATS UNIT #1H



WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 ___ 095 ___ 02713 MOD
 (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X STATE COUNTY PERMIT
 LOCATION: ELEVATION 1,268'-ORIGINAL 1,243'-PROPOSED WATERSHED OUTLET MIDDLE ISLAND CREEK
 QUADRANGLE PORTER FALLS 7.5' DISTRICT ELLSWORTH COUNTY TYLER
 SURFACE OWNER KENNETH TOMBLIN ET AL ACREAGE 290.32 ACRES +/- **03/19/2021**
 OIL & GAS ANTERO OWNER S. A. SMITH AND C. B. MORRIS HEIRS TRUST; MICHAEL LEE TOMBLIN; WALTER R. MYERS; JAMES C. BARNHART LEASE ACREAGE 290.32 AC +/-; 55 AC +/-; 40 AC +/-; 40 AC +/-;
BRC APPALACHIAN MINERALS I LLC; ANTERO MINERALS; PAMELA DOREEN BURLINGAME; BRC APPALACHIAN MINERALS I LLC; ROGER EDDY JR.; NILE DEAN HARRIS; RONNIE E. EDDY; 51.5 AC +/-; 57.75 AC +/-; 44 AC +/-; 33.38 AC +/-; 43.75 AC +/-; 99.88 AC +/-; 6.13 AC +/-;
GARY A. SOLE; MERCER MINERALS LLC; J. MAURICE CARLISLE JR.; MERCER MINERALS LLC; J. MAURICE CARLISLE JR.; RICHARD MOORE; EVA GENE TAYLOR; BRC APPALACHIAN MINERALS I LLC 45.34 AC +/-; 158 AC +/-; 28.5 AC +/-; 34.75 AC +/-; 25 AC +/-; 34 AC +/-; 52 AC +/-; 33 AC +/-
 PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER X REDRILL ___ FRACTURE OR STIMULATE X
 PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL
 (SPECIFY) MOD-BHL PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,300' TVD 25,600' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
 ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD
 FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

WW-6A1

Operator's Well Number Tapeats Unit 1H

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>S.A. Smith & C. B. Morris Heirs Trust Lease</u>			
S.A. Smith & C. B. Morris Trust Heirs	Antero Resources Corporation	1/8+	0022/0268
<u>Michael Lee Tomblin Lease</u>			
Michael Lee Tomblin	Antero Resources Corporation	1/8	0420/0497
<u>Walter R. Myers Lease</u>			
Walter R. Myers	Petroedge Energy LLC	1/8+	0411/0351
Petroedge Energy LLC	Statoil USA Onshore Properties	Assignment	0436/0001
Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
<u>Michael Lee Tomblin Lease</u>			
Michael Lee Tomblin	Antero Resources Corporation	1/8	0420/0497
<u>James C. Barnhart Lease</u>			
James C. Barnhart	Petroedge Energy LLC	1/8+	0400/0184
Petroedge Energy LLC	Statoil USA Onshore Properties	Assignment	0436/0001
Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
<u>BRC Appalachian Minerals I LLC Lease TM 16 PCL 14)</u>			
BRC Appalachian Minerals I LLC	Statoil USA Onshore Properties	1/8	0369/0300
Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
<u>Antero Minerals Lease</u>			
<u>Pamela Doreen Burlingame Lease</u>			
Pamela Doreen Burlingame	Petroedge Energy LLC	1/8+	0408/0817
Petroedge Energy LLC	Statoil USA Onshore Properties	Assignment	0436/0001
Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
<u>BRC Appalachian Minerals I LLC Lease(TM11 PCL 55)</u>			
BRC Appalachian Minerals I LLC	Statoil USA Onshore Properties	1/8	0369/0300
Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001

RECEIVED
Office of Oil and Gas

MAR 03 2021

WV Department of
Environmental Protection

*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.

03/19/2021

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Chapter 22, Article 6A, Section 5(a)(5)
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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>Roger Eddy Jr. Lease</u>			
Roger Eddy Jr.	Stone Energy Company	1/8+	0400/0257
Stone Energy Company	EQT Production Company	Assignment	0556/0132
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
<u>Ronnie E. Eddy Lease</u>			
Ronnie E. Eddy	Petroedge Energy LLC	1/8+	0409/0102
Petroedge Energy LLC	Statoil USA Onshore Properties	Assignment	0436/0001
Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
<u>Nile Dean Harris Lease</u>			
Nile Dean Harris	Statoil USA Onshore Properties	1/8+	0449/0154
Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
<u>Gary A. Sole Lease</u>			
Gary A. Sole	Antero Resources Corporation	1/8+	0607/0214
<u>Mercer Minerals LLC Lease (TM 11 PCL 13)</u>			
Mercer Minerals LLC	Antero Resources Corporation	1/8+	0547/0640
<u>J. Maurice Carlisle Jr. Lease (TM 11 PCL 9)</u>			
J. Maurice Carlisle Jr.	Antero Resources Corporation	1/8+	0032/0437
<u>Mercer Minerals LLC Lease (TM 11 PCL 12)</u>			
Mercer Minerals LLC	Antero Resources Corporation	1/8+	0547/0640
<u>J. Maurice Carlisle Jr. Lease (TM 11 PCL 11)</u>			
J. Maurice Carlisle Jr.	Antero Resources Corporation	1/8+	0032/0437
<u>Richard Moore Lease</u>			
Richard Moore	Antero Resources Corporation	1/8+	0617/0114
<u>Eva Gene Taylor Lease</u>			
Eva Gene Taylor	Antero Resources Corporation	1/8+	0575/0413

RECEIVED
Office of Oil and Gas

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03/19/2021

CONTINUED ON NEXT PAGE

WW-6A1
(5/13)

Operator's Well No. Tapeats Unit 1H

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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
BRC Appalachian Minerals I LLC Lease	BRC Appalachian Minerals I LLC	Statoil USA Onshore Properties	1/8	0378/0764
	Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
	EQT Production Company	Antero Resources Corporation	Assignment	0663/0001

*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.

**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

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WV Department of
Environmental Protection

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

Well Operator: Antero Resources Corporation
 By: Tim Rady
 Its: VP of Land

*Co-tenancy utilization - At least 7 mineral owners in tract. At least 75% of the royalty owners have executed a lease on the tract. The interests of the remaining co-tenants were acquired pursuant to the Co-tenancy Modernization and Majority Protection Act