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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Tuesday, March 15, 2022  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION  
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for TOROWEAP UNIT 2H  
47-095-02766-00-00

**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 written over a printed name and title.

James A. Martin  
Chief

Operator's Well Number: TOROWEAP UNIT 2H  
Farm Name: KENNETH TOMBLIN ET AL  
U.S. WELL NUMBER: 47-095-02766-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 3/15/2022

Promoting a healthy environment.

03/18/2022

WW-6B  
(04/15)

API NO. 47-095 - 02768 MOD  
OPERATOR WELL NO. Toroweap Unit 2H  
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 Corporation 494507062 095-Tyler Ellsworth Porter Falls 7.5'  
Operator ID County District Quadrangle

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

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

4) Elevation, current ground: 1243' Elevation, proposed post-construction: \_\_\_\_\_

5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_

Other \_\_\_\_\_

(b) If Gas Shallow  Deep \_\_\_\_\_

Horizontal  \_\_\_\_\_

*SDW*  
*3/10/2022*

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus Shale: 7400' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 9300#

8) Proposed Total Vertical Depth: 7,400'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 21,100'

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11) Proposed Horizontal Leg Length: 11,781'

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12) Approximate Fresh Water Strata Depths: 25'

WV Department of  
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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 - 02768 MOD  
OPERATOR WELL NO. Torowasp Unit 2H  
Well Pad Name: Grand Pad

18)

**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<b>Size (in)</b>	<b>New or Used</b>	<b>Grade</b>	<b>Weight per ft. (lb/ft)</b>	<b>FOOTAGE: For Drilling (ft)</b>	<b>INTERVALS: Left in Well (ft)</b>	<b>CEMENT: Fill-up (Cu. Ft.)/CTS</b>
Conductor	20"	New	H-40	79#	80	80	CTS, 218 Cu. Ft.
Fresh Water	13-3/8"	New	J/K-55	54.5#	300	300	CTS, 417 Cu. Ft.
Coal	9-5/8"	New	J/K-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	PY-110	23#	21,100	21,000	CTS, 4389 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

*SDW*  
*3/10/2022*

<b>TYPE</b>	<b>Size (in)</b>	<b>Wellbore Diameter (in)</b>	<b>Wall Thickness (in)</b>	<b>Burst Pressure (psi)</b>	<b>Anticipated Max. Internal Pressure (psi)</b>	<b>Cement Type</b>	<b>Cement Yield (cu. ft./k)</b>
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	LMC-HPOZ & Tel - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

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**PACKERS**

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

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.

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 41.0 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.

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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

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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.

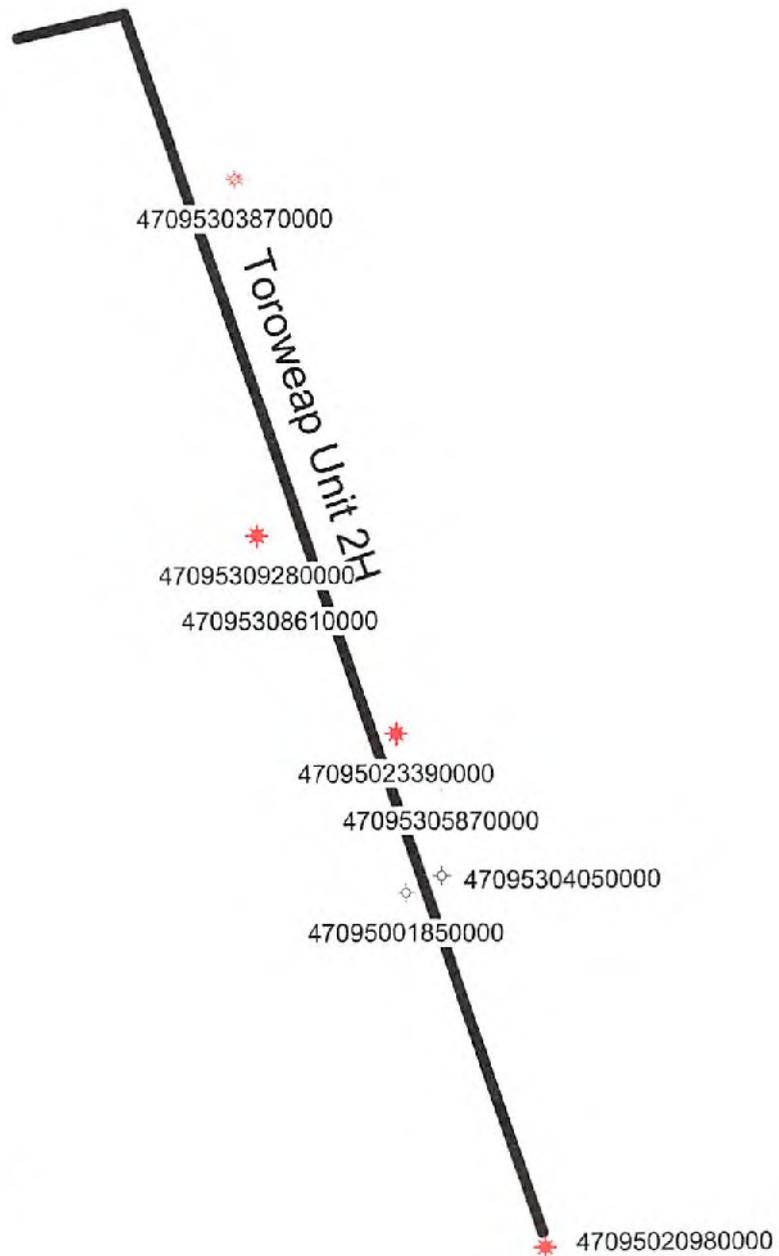
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

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.



4709502766



Antero Resources Corporation

Toroweap Unit 2H - AOR



- WELL SYMBOLS**
- Dry Hole
  - Gas Well
  - Plugged Gas Well

October 20, 2021

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MAR 14 2022  
WV Department of  
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03/18/2022

4709502766

UWI (API Num)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval	Perforated Formation(s)	Producible Formation(s) not perf'd
47095303870000	K S BOREMAN 2	2025	MANUFACT LIGHT & HEAT	MANUFACT LIGHT & HEAT	2,171		Big Injun	Alexander, Weir, Berea
47095309280000	D W BENNETT/E WELLS 1	2065	MANUFACT LIGHT & HEAT	MANUFACT LIGHT & HEAT	2,644		Gordon	Alexander, Weir, Berea
47095308610000	A WEEKLEY 1	1311	MANUFACT LIGHT & HEAT	MANUFACT LIGHT & HEAT	2,057		Big Injun, Gordon	Alexander, Weir, Berea
47095023390000	COTTONWOOD 1	V-1	BOWYER DAVID	ALLIANCE PETR CORP	4,430	2359 - 2806	Gordon	Alexander, Weir, Berea
47095305870000	A & L WEEKLEY 1	1612	MANUFACT LIGHT & HEAT	MANUFACT LIGHT & HEAT	2,878		Gordon	Alexander, Weir, Berea
47095001850000	T L BAKER	1	UNKNOWN	UNKNOWN	2,253		Cow Run	Alexander, Weir, Berea
47095304050000	GAY SOLE	1	MANUFACT LIGHT & HEAT	MANUFACT LIGHT & HEAT			Big Injun	Alexander, Weir, Berea
47095020980000	LEMASTERS D ET AL	RPT 5-1	JAY-BEE OIL & GAS	JAY-BEE OIL & GAS	13,865		Marcellus	

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LATITUDE 39°32'30"

5,428'

LATITUDE 39°30'00" 654' TO BOTTOM HOLE

### Antero Resources Corporation Well No. Toroweap 2H

NOTES:  
 WELL 2H TOP HOLE INFORMATION:  
 N: 369,710ft E: 1,630,134ft  
 LAT: 39°30'27.60" LON: 80°48'39.25"  
 BOTTOM HOLE INFORMATION:  
 N: 358,619ft E: 1,634,749ft  
 LAT: 39°28'38.64" LON: 80°47'38.33"  
 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 2H TOP HOLE INFORMATION:  
 N: 4,373,141m E: 516,272m  
 BOTTOM HOLE INFORMATION:  
 N: 4,369,785m E: 517,734m

WV NORTH ZONE  
GRID NORTH

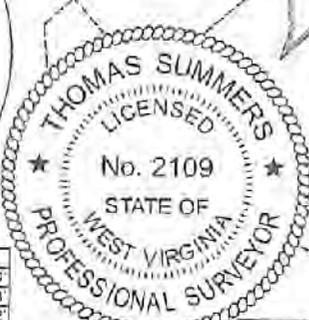
Ellsworth District - Tyler County	
16-14	James Barnhart
16-15	Harvey Miller Et Al
16-28	Kenneth Tomblin Et Al
16-29	Michael Tomblin
16-30	Christopher Investments Inc.
16-31	Christopher Investments Inc.
16-33	J. A. Weekley Hrs.
16-34	J. A. Weekley Hrs.
16-35	Jay Wright
17-55	J. A. Weekley Hrs.
22-9	Steven Wright
22-10	Lessie Henderson
22-11	Amalie DeGuelle
22-13	Christopher Heike
22-14	Susan Delcorado
22-14.1	Sheryl Hayes
22-27	C. W. Weekley Hrs.
22-28	WSD Properties LLC
23-02	Dale Parr
23-03	Jack Hair
23-04	Jack Hair
McElroy District - Tyler County	
2-01	Jack Hair
2-02	Jack Hair
2-15	Leo Wilker
2-28	Jay Bee Oil & Gas Inc.
2-29	Cecil Nichols

8,232' TO BOTTOM HOLE

12,386'

LONGITUDE 80°47'30"

LONGITUDE 80°47'30"



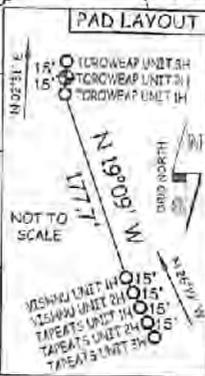
LINE	BEARING	DIST.	LINE	BEARING	DIST.
L1	N 79°23' W	1820.64'	L7	N 17°11' W	1289.39'
L2	N 72°28' W	1737.73'	L8	N 14°44' W	1509.38'
L3	N 69°39' W	1680.54'	L9	N 07°35' W	1774.82'
L4	N 45°05' W	1540.95'	L10	N 03°37' W	1761.12'
L5	N 36°53' W	1627.85'	L11	N 17°55' E	1113.36'
L6	N 30°40' W	1612.08'	L12	N 48°24' E	1322.09'

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



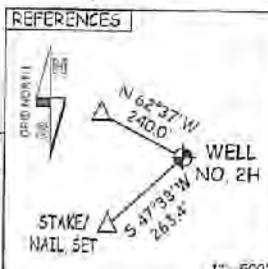
JOB # 21-011WA  
 DRAWING # TOROWEAP2HR  
 SCALE 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY SUBMETER  
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND  
 - - - Surface Owner Boundary Lines +/-  
 - - - Adjoining Surface Tracts +/-  
 ⊕ Found monument, as noted  
 THOMAS SUMMERS P.S. 2109

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

DATE 01/26/22  
 OPERATOR'S WELL # TOROWEAP UNIT #2H

(NAD) 27 (UTM) ZONE 17 COORDS:  
 WELL 2H TOP HOLE INFORMATION:  
 N: 14,345,831ft E: 1,693,753ft  
 POINT OF ENTRY INFORMATION:  
 N: 14,346,945ft E: 1,694,576ft  
 BOTTOM HOLE INFORMATION:  
 N: 14,335,823ft E: 1,698,551ft



WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  API WELL # 47 095 - 02765 MOD

(IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION AS BUILT 1,243.5' WATERSHED OUTLET MIDDLE ISLAND CREEK STATE COUNTY PERMIT

QUADRANGLE PORTER FALLS 7.5' DISTRICT ELLSWORTH COUNTY TYLER

SURFACE OWNER KENNETH TOMBLIN ET AL ACREAGE 290.32 ACRES +/-

OIL & GAS ROYALTY OWNERS S. A. SMITH AND C. B. MORRIS HEIRS TRUST; MICHAEL LEE TOMBLIN: LEASE ACREAGE 290.32 AC +/- 55 AC +/-

BETTY MOREHEAD ET VIR; JAY A. WRIGHT ET UX; MORRIS MOUNTAINEER OIL & GAS LLC: 58 AC +/- 40.81 AC +/- 45.96 AC +/-

MARGARET LEMASTERS; CAROL J. KNAPP; BERNICE BAKER; BRC APPALACHIAN MINERALS 1 LLC: 18.93 AC +/- 77.5 AC +/- 75 AC +/- 107 AC +/-

MICHAEL SHERWOOD: 156.25 AC +/-

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE

PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) MOD - BHL

TARGET FORMATION MARCELLUS PLUG & ABANDON CLEAN OUT & REPLUG

WELL OPERATOR ANTERO RESOURCES CORP. ESTIMATED DEPTH 7,400' TVD 21,100' MD

ADDRESS 1615 WYNKOOP ST. ADDRESS DIANNA STAMPER - CT CORPORATION SYSTEM

FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

03/18/2022

COUNTY NAME PERMIT

LATITUDE 39°32'30"

5,428'

LATITUDE 39°30'00" 654' TO BOTTOM HOLE

Antero Resources Corporation Well No. Toroweap 2H

NOTES: WELL 2H TOP HOLE INFORMATION: N: 369,710ft E: 1,630,134ft LAT: 39°30'27.60" LON: 80°48'39.25" BOTTOM HOLE INFORMATION: N: 358,619ft E: 1,634,749ft LAT: 39°28'38.64" LON: 80°47'36.33" 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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WV NORTH ZONE GRID NORTH

Table listing landowners and leases in Ellsworth District - Tyler County and McClary District - Tyler County.

8,232' TO BOTTOM HOLE

12,386'

LONGITUDE 80°47'30"

LONGITUDE 80°47'30"

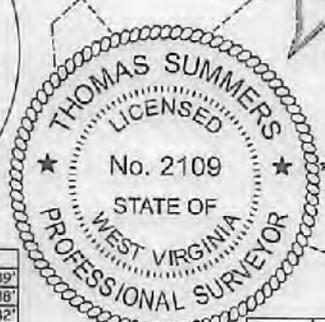
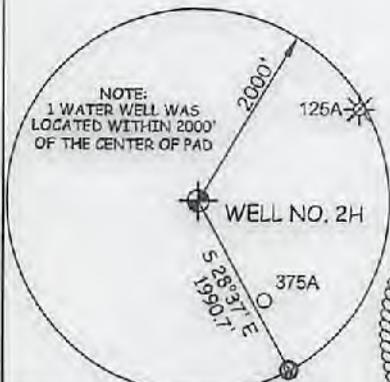
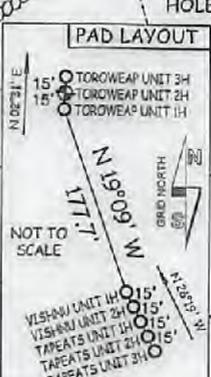


Table with 6 columns: LINE, BEARING, DIST., LINE, BEARING, DIST. listing boundary lines L1 through L6.

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.



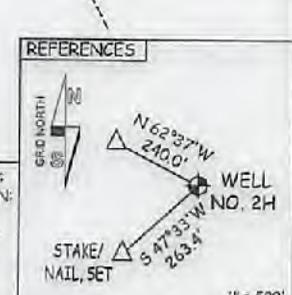
STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS. WILLLOW LAND SURVEYING PLLC, 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415



JOB # 21-011WA DRAWING # TOROWEAP2HR 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 01/26/22 OPERATOR'S WELL# TOROWEAP UNIT #2H

(NAD) 27 (UTM) ZONE 17 COORDS: WELL 2H TOP HOLE INFORMATION: N: 14,346,831ft E: 1,693,753ft POINT OF ENTRY INFORMATION: N: 14,346,945ft E: 1,694,675ft BOTTOM HOLE INFORMATION: N: 14,335,823ft E: 1,698,551ft



WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL 47 095 02766 MOD (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X STATE COUNTY PERMIT LOCATION: ELEVATION AS BUILT -1,243.5' WATERSHED OUTLET MIDDLE ISLAND CREEK QUADRANGLE PORTER FALLS 7.5' DISTRICT ELLSWORTH COUNTY TYLER SURFACE OWNER KENNETH TOMBLIN ET AL ACREAGE 290.32 ACRES +/- OIL & GAS ROYALTY OWNER S.A. SMITH AND C.B. MORRIS HEIRS TRUST; MICHAEL LEE TOMBLIN; BETTY MOREHEAD ET VIR; JAY A. WRIGHT ET UX; MORRIS MOUNTAINEER OIL & GAS LLC; MARGARET LEMASTERS; CAROL J. KNAPP; BERNICE BAKER; BRC APPALACHIAN MINERALS 1 LLC; MICHAEL SHERWOOD LEASE ACREAGE 290.32 AC.±; 55 AC.±; 58 AC.±; 40.81 AC.±; 45.98 AC.±; 18.93 AC.±; 77.5 AC.±; 75 AC.±; 107 AC.±; 156.25 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 7,400' TVD 21,100' 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

03/18/2022

**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
<u>Michael Sherwood Lease</u>	Michael Sherwood JB Exploration I LLC	JB Exploration I LLC Antero Resources Corporation	1/8+ Assignment	398/342 134/700

\*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

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

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>S.A. Smith and C. B Morris Heirs Trust Lease</u> S.A. Smith and C. Burke Morris Heirs Trust	Antero Resources Corporation	1/8+	0022/0268
<u>Michael Lee Tomblin Lease</u> Michael Lee Tomblin, a married man Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	1/8 Assignment	0420/0497 0598/0358
<u>S.A. Smith and C. B Morris Heirs Trust Lease</u> S.A. Smith and C. Burke Morris Heirs Trust	Antero Resources Corporation	1/8+	0022/0268
<u>Betty Morehead, et vir Lease</u> Betty Morehead, et vir Petroedge Energy, LLC Statoil USA Onshore Properties Inc EQT Production Company	Petroedge Energy, LLC Statoil USA Onshore Properties Inc EQT Production Company Antero Resources Corporation	1/8 Assignment Assignment Assignment	0389/0539 0406/0147 0539/0239 0134/0172
<u>Jay A Wright et ux Lease</u> Jay A Wright et ux	Antero Resources Corporation	1/8+	489/26
<u>Morris Mountaineer Oil &amp; Gas LLC Lease</u> Morris Mountaineer Oil & Gas LLC	Antero Resources Corporation	1/8+	84/428
<u>Margaret Lemasters Lease</u> Margaret Lemasters	Antero Resources Corporation	1/8+	85/279
<u>Carol J Knapp Lease</u> Carol J Knapp Jay-Bee Production Company Statoil USA Onshore Properties Inc EQT Production Company	Jay-Bee Production Company Statoil USA Onshore Properties Inc EQT Production Company Antero Resources Corporation	1/8 Assignment Assignment Assignment	388/141 469/419 539/239 663/1
<u>Bernice Baker Lease</u> Bernice Baker Jay-Bee Properties Company Statoil USA Onshore Properties Inc EQT Production Company	Jay-Bee Properties Company Statoil USA Onshore Properties Inc EQT Production Company Antero Resources Corporation	1/8 Assignment Assignment Assignment	391/221 469/410 539/239 663/1
<u>BRC Appalachian Minerals I LLC Lease</u> BRC Appalachian Minerals I LLC BRC Working Interest Company LLC Chesapeake Appalachia LLC Statoil USA Onshore Properties Inc EQT Production Company	BRC Working Interest Company LLC Chesapeake Appalachia LLC Statoil USA Onshore Properties Inc EQT Production Company Antero Resources Corporation	1/8 Assignment Assignment Assignment Assignment	369/300 369/784 378/764 539/239 663/1

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Office of Oil and Gas  
MAR 4 2022  
WV Department of  
Environmental Protection



February 28, 2022

Antero Resources  
1615 Wynkoop Street  
Denver, CO 80202  
Office 303.357.7310  
Fax 303.357.7315

West Virginia Department of Environmental Protection  
Office of Oil and Gas  
Attn: Mr. Taylor Brewer  
601 57<sup>th</sup> Street  
Charleston, WV 25304

Mr. Brewer:

Antero Resources Corporation (Antero) would like to submit the following permit modifications for approved well on the existing Grand Pad: Toroweap Unit 2H & 3H (47-095-02766, 47-095-02767) Expedited.

Attached you will find the following:

- Revised Form WW-6B
- Revised Form WW-6A1
- Revised Mylar Plat
- AOR

RECEIVED  
Office of Oil and Gas

MAR 4 2022

WV Department of  
Environmental Protection

If you have any questions please feel free to contact me at (303) 357-7182.

Thank you in advance for your consideration.

Sincerely,

A handwritten signature in black ink that reads "Mallory Stanton".

Mallory Stanton  
Permitting Supervisor  
Antero Resources Corporation

Enclosures

CH#4005374  
Amt \$5000  
Date 2/24/22

03/18/2022



Stansberry, Wade A &lt;wade.a.stansberry@wv.gov&gt;

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**Modification Horizontal H6A Well Work Permit API: 47-095-02766 & 47-095-02767)**

1 message

**Stansberry, Wade A** <wade.a.stansberry@wv.gov>

Tue, Mar 15, 2022 at 11:10 AM

To: Mallory Stanton &lt;mstanton@anteroresources.com&gt;, Diane Blair &lt;dblair@anteroresources.com&gt;, Dani DeVito &lt;ddevito@shalepro.com&gt;, Douglas Newlon &lt;douglas.c.newlon@wv.gov&gt;, ljackson@wvassessor.com

I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.

**47-095-02766- CLUTTER UNIT 1H**  
**47-095-02767- GREENWOOD UNIT 1H**

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

Thank you,

**Wade A. Stansberry**  
**Environmental Resource Specialist 3**  
**West Virginia Department of Environmental Protection**  
**Office of Oil & Gas**  
601 57th St. SE  
Charleston, WV 25304  
(304) 926-0499 ext. 41115  
(304) 926-0452 fax  
[Wade.A.Stansberry@wv.gov](mailto:Wade.A.Stansberry@wv.gov)

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**2 attachments**

 **47-095-02766 - mod.pdf**  
977K

 **47-095-02767 - mod.pdf**  
942K

**03/18/2022**