

#### 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

## Thursday, January 28, 2021 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit Modification Approval for YOUGH 1H

47-095-02723-00-00

Extended lateral length

### 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.

James A. Martin

Chief

Operator's Well Number: YOUGH 1H

Farm Name: PATRICIA ANN HEINTZMAN

U.S. WELL NUMBER: 47-095-02723-00-00

Horizontal 6A New Drill

Date Modification Issued: 1/28/2021

Promoting a healthy environment.

### PERMIT MODIFICATION API # 47-095-02723

API NO. 47-095 - 02723

OPERATOR WELL NO. Yough Unit 1H
Well Pad Name: Elk Fork Pad

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

1) Well Operator: Antero Re	esources Corpora	494507062	095 - Tyler	Ellsworth	Porters Falls 7.5'
-) on openion		Operator ID	County	District	Quadrangle
2) Operator's Well Number:	Yough Unit 1H	Well P	ad Name: Elk F	ork Pad	
3) Farm Name/Surface Owner	r: Patricia Ann Hein	tzman Public Ro	oad Access: Elk	Fork Road	
4) Elevation, current ground:	1126' EI	evation, propose	d post-construct	ion: ~1126	ř.
5) Well Type (a) Gas X Other	Oil _	Un	derground Stora	ge	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Shallow X Horizontal X	Deep	V		RECEIVED Office of Oil and Gas
6) Existing Pad: Yes or No					JAN 1 9 2021
7) Proposed Target Formation Marcellus Shale: 7000' TVD	n(s), Depth(s), Antic	생각이 하는 사람이 보다 없다면 보다 아니라 다른데 없었다.			WV Department of invironmental Protection
8) Proposed Total Vertical De	epth: 7000' TVD				
9) Formation at Total Vertica	l Depth: Marcellus	S			
10) Proposed Total Measured	Depth: 26500'				
11) Proposed Horizontal Leg	Length: 16000'				
12) Approximate Fresh Water	r Strata Depths:	125'			
13) Method to Determine Fre 14) Approximate Saltwater D	on trater Beptilo.	47-095-00269			
15) Approximate Coal Seam					
16) Approximate Depth to Po		ine, karst, other):	None Anticipa	ated	
17) Does Proposed well locat directly overlying or adjacent		Yes	N	o <u>X</u>	
(a) If Yes, provide Mine Inf	o: Name:				10
7.8 ET 0 118 ROD 1140 DIGGES 544	Depth:				18 N
	Seam:			(3)	5/3
	Owner:			W.	10
				Oxy	

WW-6B (04/15) API NO. 47-\_095 - 02723

OPERATOR WELL NO. Yough Unit 1H
Well Pad Name: Elk Fork Pad

18)

## **CASING AND TUBING PROGRAM**

ТҮРЕ	Size (in)	New or Used	<u>Grade</u>	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#	90'	90'	CTS, 86 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#	26500'	26500'	6879 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

ТҮРЕ	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		<u></u>	
Liners							

RECEIVED
Office of Oil and Gas

**PACKERS** 

JAN 1 9 2021

			W/ Department	oction
Kind:	N/A		WA/ Department Environmental Prote	6000
Sizes:	N/A			
Depths Set:	N/A			

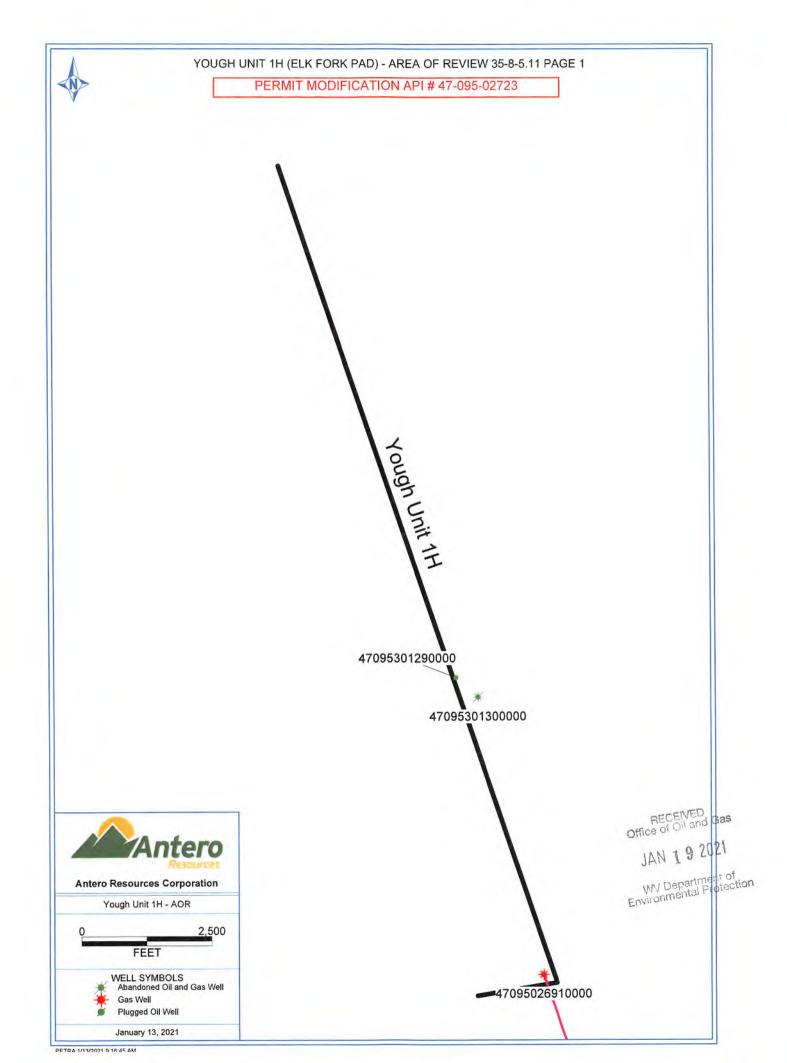
WW-6B (10/14) API NO. 47- 095 - 02723

OPERATOR WELL NO. Yough Unit 1H

Well Pad Name: Elk Fork Pad

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:	
Drill a new vertical shallow well into the Marcellus Shale.	
20) Describe fracturing/stimulating methods in detail, including anticipated max pressure an	d max rate:
Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready production. The fluid will be comprised of approximately 99 percent water and sand, percent special-purpose additives as shown in the attached "List of Anticipated Addit Fracturing or Stimulating Well."	with less than 1
Anticipated Max Pressure - 9300 lbs Anticipated Max Rate - 80 bpm	
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 43.65 acres	es
22) Area to be disturbed for well pad only, less access road (acres): 8.91 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 to surface.	e hole
Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surfa Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.	ace.
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
	Office of Oil and Gas
25) Proposed borehole conditioning procedures:	JAN 1 9 2021
	W Department of Environmental Protection
	Environmental Protection

<sup>\*</sup>Note: Attach additional sheets as needed.



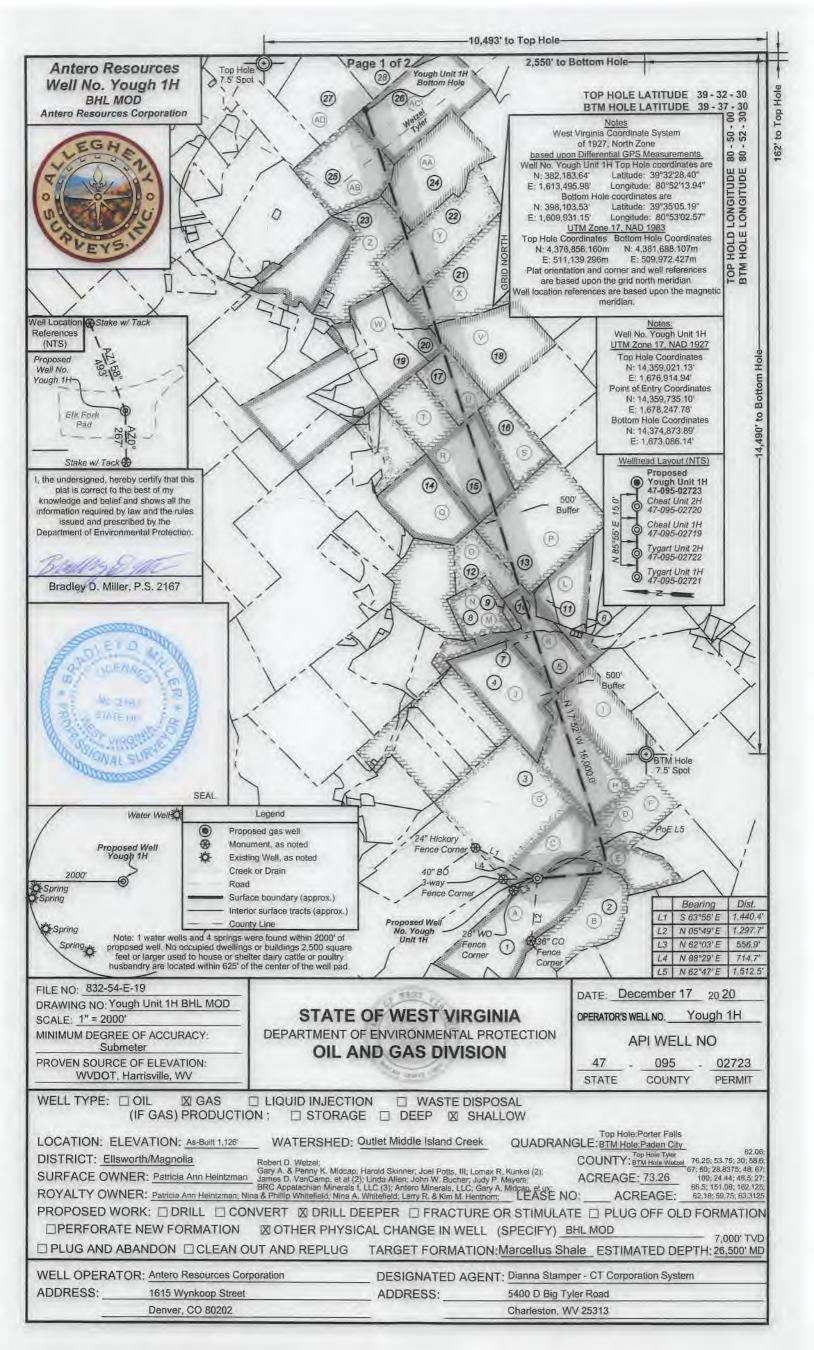
UWI (APINum)	Well Name	Well Number	Operator	Historical Operator
47095301290000	WM T LAZVER	8	RENO OIL CO	RENO OIL CO
47095301300000	ELIAS HAUGHT	1	RENO OIL CO	RENO OIL CO
47095026910000	Richmond Unit	2 .	ANTERO RESOURCES CORPORATION	ANTERO RESOURCES CORPORATION

AECEIVED Gas
Office of Oil and Gas
JAN 1 9 2021
WWDepartment of
Environmental Projection

TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
1,652	Unknown	Big Injun	Keener, Alexander, Weir, Berea
1,716	Unknown	Big Injun	Keener, Alexander, Weir, Berea
22,838	6874 - 22726	Marcellus	N/A

peceived gas
office of Oil and Gas
JAN 1 9 2021

WV Departmental Procession
environmental Procession



Antero Resources
Well No. Yough 1H
BHL MOD
Antero Resources Corporation



ID	TM/Par	Owner	Bk/Pg	Acres
1	10-2	Patricia Ann Heintzman	W13/384	73.26
2	10-3	Kevin S. & Melinda S. Goff	597/808	53.75
3	6-36	Dennis & Clista Heintzman	297/640	417.60
4	6-24	Harold Skinner	204/595	62.18
5	6-25.2	Kevin Lee Fletcher	328/723	32.00
6	6-17.3	Tracy Postlehwait	354/74	3.00
7	6-25.1	Kevin Lee Fletcher	328/723	5.76
8	6-16.4	Michael L. Roberts	407/45	27.74
9	6-16.5	James M. & Sherry Starkey	344/785	24.44
10	6-25	William L. McClain	253/323	11.87
11	6-17	William McClain	297/87	10.24
12	6-16.5	James M. & Sherry Starkey	344/785	24.44
13	6-6	Gary A. & Penny K. Midcap	301/265	100.00
14	6-4	James D. Vancamp, et al	W38/144	46.76
15	6-5	Gary A. & Penny K. Midcap	301/265	75.55
16	3-32	Gary A. & Penny K. Midcap	301/265	38.09
17	3-42	Rosalie B. Henry	362/339	27.00
18	3-24	Gary A. & Penny K. Midcap	301/265	66.50
19	3-40	Rosalie Henry	170/006	46.21
20	3-41	Gary A. & Penny K. Midcap	296/518	7.00
21	3-18	Gary Midcap	322/108	80.33
22	3-13	Lomax R. Kunkel	297/692	63.50
23	3-12	Lomax R. Kunkel	297/692	57.51
24	3-8	Steven D. & Brenda M. Higgins	313/623	67.00
25	16-65	Kenneth W. & Norma A. Headley	355/347	58.60
26	16-67	Robert D. Wetzel	404/372	82.06
27	16-59	Kenneth W. & Norma A. Headley	355/347	47.75
28	16-61	Kenneth W. & Norma A. Headley	355/347	41.75

	Leases			
Α	Patricia Ann Heintzman			
В	Nina & Phillip Whitefield			
C	Norma Smith			
D	BRC Appalachian Minerals I, LLC			
E	Nina A. Whitefield			
F	Larry R.and Kim M. Henthorn			
G	Dennis R. Heintzman, et ux			
Н	BRC Appalachian Minerals I, LLC			
1	BRC Appalachian Minerals I, LLC			
J	Harold Skinner			
K	Antero Minerals, LLC			
L	Larry F. Hughes			
M	Judy P. Meyers			
N	Brenda L. Martin			
0	Judy P. Meyers			
P	Gary A. Midcap, et ux			
Q	James D. VanCamp, et al			
R	James D. VanCamp, et al			
S	James D. VanCamp, et al			
T	Penny G. Bond			
U	Linda Allen			
٧	John W. Bucher			
W	James D. VanCamp, et al			
X	Gary A. & Penny K. Midcap			
Y	Lowmax R. Kunkel			
Z	Lowmax R, Kunkel			
AA	Joel Potts III			
AB	BRC Appalachian Minerals, I LLC			
AC	Robert D. Wetzel			
AD	OPEN			

FILE NO: 832-54-E-19

DRAWING NO: Yough Unit 1H BHL MOD

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

TITE OTT TIGHT THE TITE		STATE COUNTY PERMIT
WELL TYPE: □ OIL ☑ GAS (IF GAS) PRODUCTION	☐ LIQUID INJECTION ☐ WASTE DISPOS ON: ☐ STORAGE ☐ DEEP ☒ SHALL	CATALO
PROPOSED WORK:   DRILL   COI  PERFORATE NEW FORMATION	BRC Appalachian Minerals 1, LLC (3); Antero Minerals, LLC; Gary A. na & Phillip Whitefield; Nina A. Whitefield; Larry R. & Kim M. Henthom;  NVERT IN DRILL DEEPER IFRACTURE OF  IN OTHER PHYSICAL CHANGE IN WELL (5)	Meyers; ACREAGE: 73.26 100; 24.44; 48.5; 27; Midgan, et ux; 66.5; 151.08; 162.125; 66.5; 151.08; 162.125; 62.18; 59.75; 63.3125    R STIMULATE □ PLUG OFF OLD FORMATION
WELL OPERATOR: Antero Resources Cor ADDRESS: 1615 Wynkoop Street Denver, CO 80202	poration DESIGNATED AGENT: ADDRESS:	Dianna Stamper - CT Corporation System 5400 D Big Tyler Road Charleston, WV 25313

Antero Resources Well No. Yough 1H BHL MOD Antero Resources Corporation



ID	TM/Par	Owner	Bk/Pg	Acres
1	10-2	Patricia Ann Heintzman	W13/384	73.26
2	10-3	Kevin S. & Melinda S. Goff	597/808	53.75
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28	16-61	Kenneth W. & Norma A. Headley	355/347	

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В	Nina & Phillip Whitefield
С	Norma Smith
D	BRC Appalachian Minerals I, LLC
E	Nina A. Whitefield
F	Larry R.and Kim M. Henthorn
G	Dennis R. Heintzman, et ux
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J	Harold Skinner
K.	Antero Minerals, LLC
L	Larry F. Hughes
М	Judy P. Meyers
N	Brenda L. Martin
0	Judy P. Meyers
P	Gary A. Midcap, et ux
Q	James D. VanCamp, et al
R	James D. VanCamp, et al
S	James D. VanCamp, et al
T	Penny G. Bond
U	Linda Allen
٧	John W. Bucher
W	James D. VanCamp, et al
Х	Gary A. & Penny K. Midcap
Y	Lowmax R. Kunkel
Z	Lowmax R. Kunkel
AA	Joel Potts III
AB	BRC Appalachian Minerals, I LLC
AC	Robert D. Wetzel
AD	OPEN

FILE NO: 832-54-E-19 DRAWING NO: Yough Unit 1H BHL MOD SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

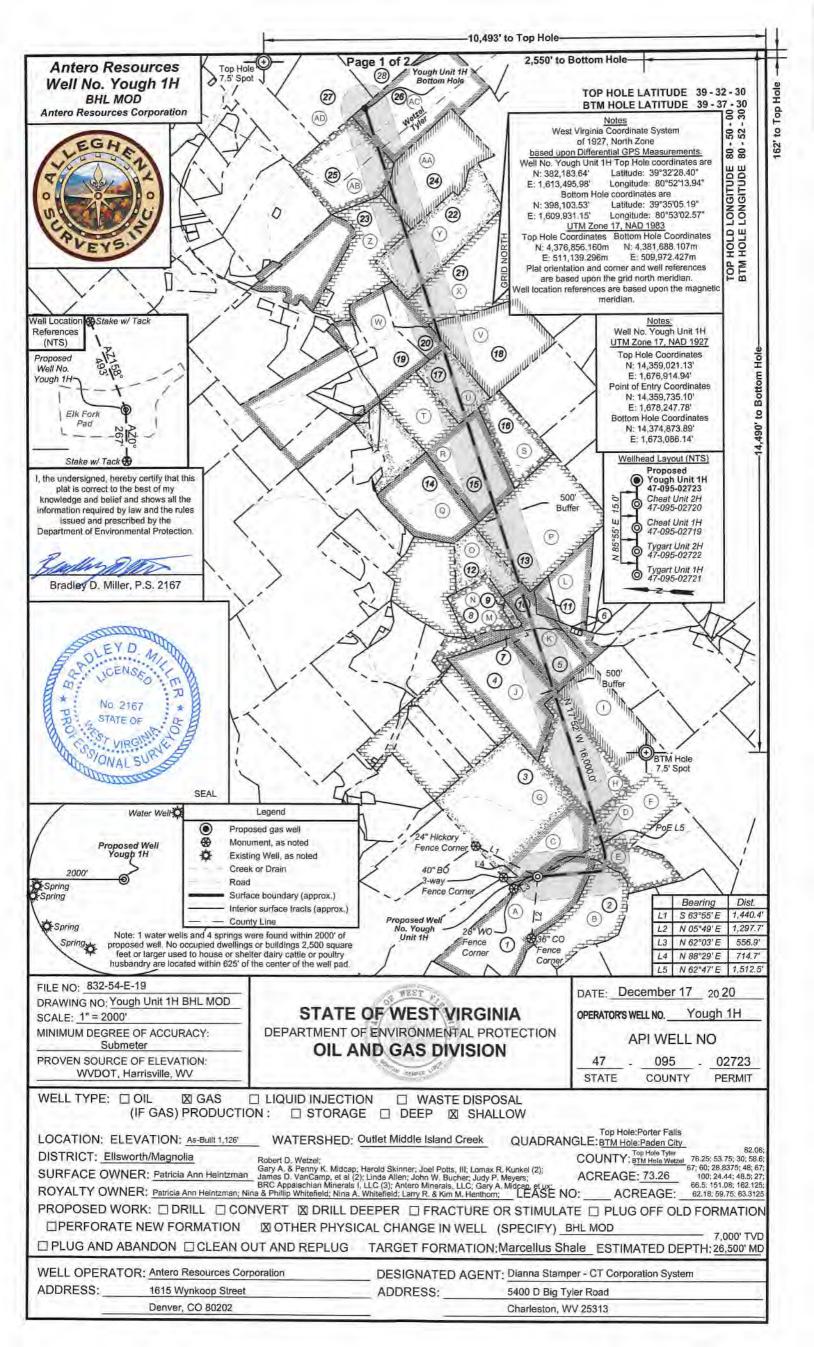
## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION

WEST D

DATE: December 17 20 20 OPERATOR'S WELL NO. Yough 1H API WELL NO

	4/ -	095	-	02/23	
	STATE	COUNTY		PERMIT	
11					۰

TVVBOT, Harrisville, VVV	-	100 May 110 Ma	S	TATE	COUNTY	PERMIT
WELL TYPE: ☐ OIL ☐ GAS (IF GAS) PRODUC	☐ LIQUID INJECTION: ☐ STORAGI	없이 되는데 가장 된 것 같아 걸다 그렇고 뭐라면 하다.				
LOCATION: ELEVATION: As-Built 1,122 DISTRICT: Ellsworth/Magnolia SURFACE OWNER: Patricia Ann Heintzma ROYALTY OWNER: Patricia Ann Heintzma PROPOSED WORK: DRILL DRILL DERFORATE NEW FORMATION PLUG AND ABANDON DCLEAN	Robert D. Wetzel; Gary A. & Penny K. Midcap; James D. VanCamp, et al (2) BRC Appalachian Minerals I, n; Nina & Phillip Whitefield; Nina A. CONVERT 🗵 DRILL DI	EEPER	R. Kunkel (2); AC Meyers; AC . Midcap, et ux; LEASE NO: DR STIMULATE [ (SPECIFY) BHL I	DUNTY: CREAGE AC PLUC MOD	Top Hole Tyler BTM Hole Wetzel 67: E: 73.26  REAGE: 6  OFF OLD I	7,000' TVD
WELL OPERATOR: Antero Resources	Corporation	DESIGNATED AGENT	; Dianna Stamper - (	CT Corpo	oration System	
ADDRESS: 1615 Wynkoop Str	et	ADDRESS:	5400 D Big Tyler R	load		
Denver, CO 80202			Charleston, WV 25	313		



Operator's Well Number

Yough 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
Patricia Ann Heintzman Lease			
Patricia Ann Heintzman	Antero Resources Corporation	1/8+	0594/0309
Nina & Philip Whitefield Lease			
Nina & Philip Whitefield	Antero Resources Corporation	1/8+	0549/0720
Nina A. Whitefield Lease			
Nina A. Whitefield	Antero Resources Corporation	1/8+	0504/0345
BRC Appalachian Minerals I LLC Lease (TM 6 PC	<u>a</u>		
<u>36)</u>	Constitution Productions	100000000	0270/0764
BRC Appalachian Minerals I LLC	Statoil USA Onshore Properties	Assignment	0378/0764
Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
Larry R. & Kim M. Henthorn Lease			
Larry R. & Kim M. Henthorn	Antero Resources Corporation	1/8+	0572/0349
BRC Appalachian Minerals I LLC Lease (TM 10			
PCL 3) BRC Appalachian Minerals I LLC	Statoil USA Onshore Properties	Assignment	0378/0764
Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
Harold Skinner Lease			
Harold Skinner	Antero Resources Corporation	1/8+	0576/0102
Antero Minerals LLC Lease			
Antero Minerals LLC	Antero Resources Corporation	1/8+	0067/0486
Judy P. Meyers Lease			1.55
Judy P. Meyers	Antero Resources Corporation	1/8+	RECEIVED Gas 0002/0044
Gary A. Midcap et ux Lease			JAN 1 9 2021 0070/0182
Gary A. Midcap et ux	Antero Resources Corporation	1/8+	JAN 1 0070/0182
James D. Vancamp et al Lease (TM 6 PCL 3)			WW Designment of Protection
James D. Vancamp et al	Antero Resources Appalachian Corporation	1/8+	0404/0380
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Linda Allen Lease			
Linda Allen	Antero Resources Corporation	1/8+	0411/0711

<sup>\*</sup>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.

## 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
James D. Vancamp et al Lease (TM 6 PCL 15)			
James D. Vancamp et al	Antero Resources Appalachian Corporation	1/8+	0404/0380
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
John W. Bucher Lease			
John W. Bucher	Antero Resources Corporation	1/8+	0579/0254
Gary A. & Penny K. Midcap Lease			
Gary A. & Penny K. Midcap	Antero Resources Corporation	1/8+	0070/0182
Lomax R. Kunkel Lease (TM 3 PCL 12)			
Lomax R. Kunkel	<b>EQT Production Company</b>	1/8+	0605/0008
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
Lomax R. Kunkel Lease (TM 3 PCL 13)			
Lomax R. Kunkel	EQT Production Company	1/8+	0605/0008
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
Joel Potts III Lease			
Joel Potts III	Antero Resources Corporation	1/8+	0568/0827
BRC Appalachian Minerals I LLC Lease (TM 16 PCL 65)			
BRC Appalachian Minerals I LLC	Statoil USA Onshore Properties	Assignment	0378/0764
Statoil USA Onshore Properties	<b>EQT Production Company</b>	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001

Office of ON and Gas

JAN 19 2021

VIV Department of Environmental Projection

WW-6A1 (5/13)

Operator's Well No.	Yough Unit 1H	
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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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- (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
Robert D. Wetzel Lease	Robert D. Wetzel	Antero Resources Corporation	1/8+	0076/0499

\*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

JAN 1 9 2021

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.

Page 1 of 1

## **Expedited Permit Modification**

Received date: 1/19/2/	Expedited Final Date: $2/8/21$
Operator: Auteur	Well Name: 4019h /H
Pad Name: EOK York	API: 95-02723

	MODIFIED PERMIT	ORIGINAL PERMIT	
TVD	7000~	7000	
TMD	7000× 26500× 16000×	9500	· <
HL	16000	0	2
FW	125	125	-
SW	1703	1703	·
COAL	58	58	-
CONDUCTOR	90	901	-
FRESHWATER	300	300'	-
INTERMEDIATE 1	2500	300' 2500'	-
INTERMEDIATE 2			
PRODUCTION	26500	9500	4

Notes: Kleitzman, Whitehead (2), BRC, Kleithorn/

Lpdated AtoR varched

A PHeurtzman J Skinner the Allen J Kunkel

B Whitehead K Anteir W Vandarp AA Potts

E Whitehead D Meyers V Bucher - AB BRC

D BRC J Harlborn P Midcap - X Midrap - AC Wester

H BRC R Vanlamp - Y Kunkel