

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, August 2, 2021 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for PEELER UNIT 2H

47-103-03410-00-00

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.

James A. Martin

Chief

Operator's Well Number: PEELER UNIT 2H

Farm Name: WILLIAM L. & DELORES J. GADD

U.S. WELL NUMBER: 47-103-03410-00-00

Horizontal 6A New Drill

Date Modification Issued: August 2, 2021

Promoting a healthy environment.

WW-6B (04/15) CK# 231460 \$ 5000 1/4/2

API NO. 47-103 - 03410

OPERATOR WELL NO. Peeler Unit 2H MOD

Well Pad Name: Gadd 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	103-Wetzel	Green	Porters Falls 7.5'
-				Operator ID	County	District	Quadrangle
2) Operator's We	ell Number	: Peeler Uni	t 2H MO	D Well Pad	Name: Gadd	Pad	
3) Farm Name/S	urface Owr	ner: William L.	& Delores J	. Gadd Public Road	d Access: Eigh	ntmile Roa	d
4) Elevation, cur	rent ground	i: 1223.8'	Ele	evation, proposed p	oost-construction	on: <u>~1223</u>	.8
5) Well Type ((a) Gas	X	Oil	Unde	rground Storag	ge	
(Other _						
((b)If Gas	Shallow	<u>X</u>	Deep			
A-1		Horizontal	<u>X</u>				
6) Existing Pad:	Yes or No	Yes					
		•		ipated Thickness ar	•	` '	
Marcellus Shal	ie: /500' [V	ט, Anticipate	d I hickne	ss- 55 feet, Associa	ted Pressure- 2	850#	
8) Proposed Tota	ıl Vertical I	Depth: 7500)' TVD				
9) Formation at 7	Γotal Vertic	cal Depth: N	/larcellus				
10) Proposed Tot	tal Measure	ed Depth: 2	20200'				
11) Proposed Ho	rizontal Le	g Length: 1	1196'				
12) Approximate	Fresh Wat	ter Strata Dep	oths:	350'			
13) Method to De	etermine Fr	resh Water D	epths: 4	7-095-02266		D=-	
14) Approximate	Saltwater	Depths: 188	37', 1917'			Office of Oil	/ED and Gas
15) Approximate	Coal Seam	n Depths: 65	56', 971'			JUL 2 a	2004
16) Approximate	Depth to P	Possible Void	l (coal mi	ne, karst, other):	lone Anticipat	W Departm	ent of
17) Does Propose directly overlying	ed well loca	ation contain	coal sean		No		
(a) If Yes, prov	ide Mine In	nfo: Name:					
		Depth:					
		Seam:					
		Owner					

WW-6B	
(04/15)	

API NO. 47- 103 - 03410

OPERATOR WELL NO. Peeler Unit 2H MOD

Well Pad Name: Gadd Pad

18)

CASING AND TUBING PROGRAM

ТҮРЕ	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, 86 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	400 *see #19	400 *see #19	CTS, 556 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#	20200	20200	5147 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

Bugan Harm 7-28-21

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			
Liners					00	RECEIVE	
					- Oil	RECEIVED ice of Oil and	i Gas

JUL 2 9 2021

WV Department of Environmental Protection

PACKERS

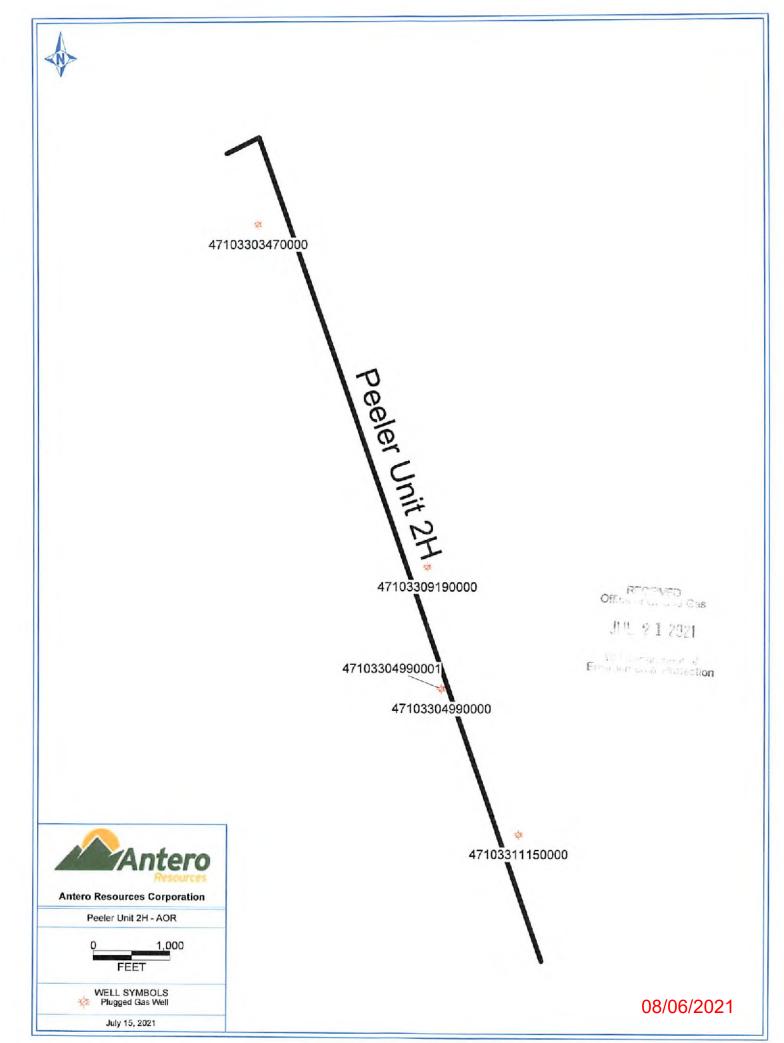
Kind:	N/A		
Sizes:	N/A		
Depths Set:	N/A		

WW-6B	
(10/14)	

API NO. 47- 103 - 03410
OPERATOR WELL NO. Peeler Unit 2H MOD
Well Pad Name: Gadd Pad

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.
Dilli a flew florizorital strailow well into the Marcellus Offale.
*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
Anticipated Max Rate - 80 bpm 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 34.16 acres 21 2021 22) Area to be disturbed for well pad only, less access road (acres): 17.00 acres Environmental Protection 23) Describe centralizer placement for each casing string:
22) Area to be disturbed for well pad only, less access road (acres).
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:

*Note: Attach additional sheets as needed.

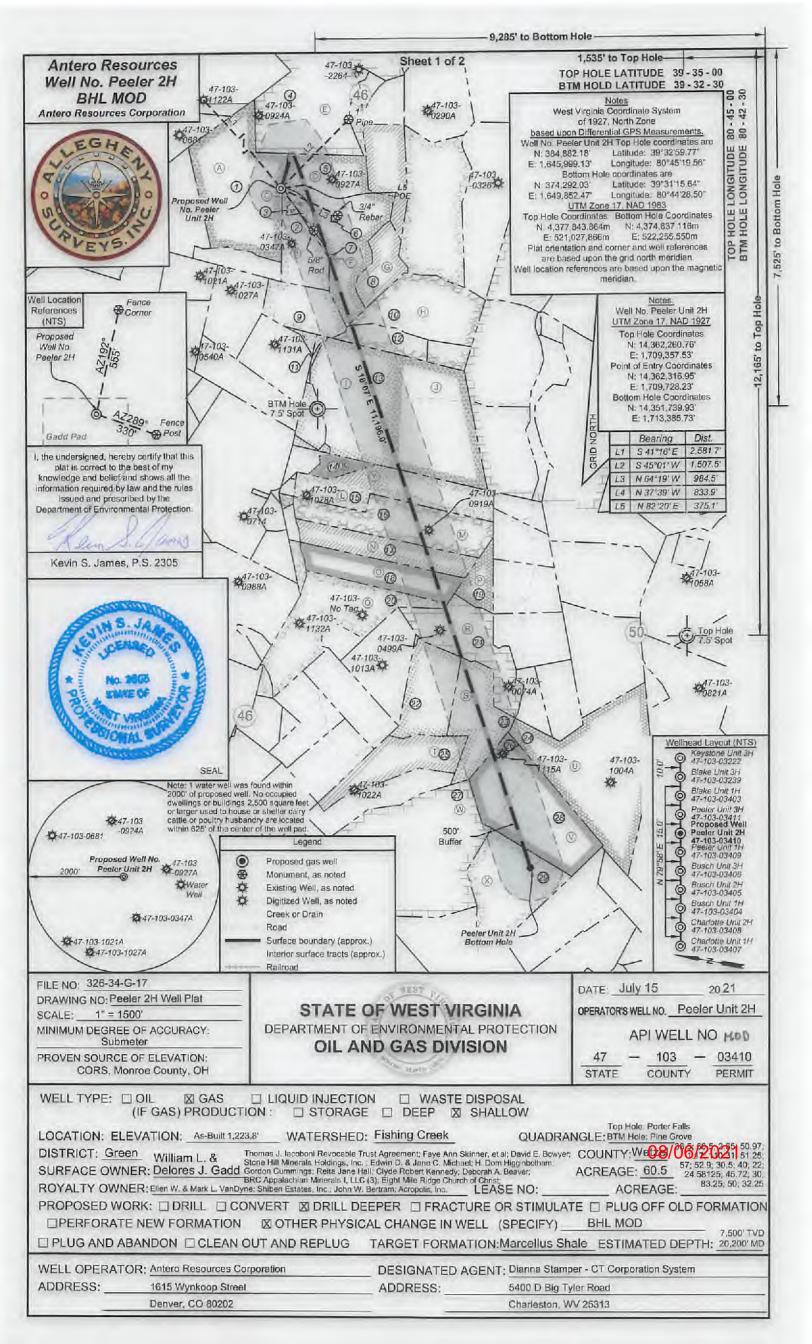


UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47103303470000	PITTMAN HRS	1152	HOPE NATURAL GAS	HOPE NATURAL GAS	2,961	Unknown	Gordon	Weir, Berea, Benson, Alexander
47103309190000	I B WRIGHT	695	HOPE NATURAL GAS	HOPE NATURAL GAS	2,863	Unknown	Big Injun, Gordon, Fourth	Weir, Berea, Benson, Alexander
47103304990000	C M WINLAND 1	1340	MANUFACT LIGHT &HEAT	MANUFACT LIGHT &HEAT	1,789	Unknown	Big Injun, Gordon	Weir, Berea, Benson, Alexander
47103304990001	WINLAND 1	1340	MANUFACT LIGHT &HEAT	MANUFACT LIGHT &HEAT	2,604	Unknown	Big Injun, Gordon	Welr, Berea, Benson, Alexander
47103311150000	C D GARRETT 1	2124	MANUFACT LIGHT &HEAT	MANUFACT LIGHT &HEAT	2,655	Unknown	Big Injun, Gordon	Weir, Berea, Benson, Alexander

Office of Oil and Gas

JUL 2 1 2021

WV Department of the control of the control



Antero Resources Well No. Peeler 2H BHL MOD

Antero Resources Corporation



ID	TM/Par	Owner	Bk/Pg	Acres
1	16-22	William L. & Delores J. Gadd	348/169	60.50
2	16-30	William L. & Delores J. Gadd	348/169	14.00
3	16-31	William L. & Delores J. Gadd	348/169	2,65
4	16-10	Loren & Shirley Haught	444/434	100.48
5	16-23	Kenneth E. Butler	331/110	50.97
6	16-23.1	Wetzel County Public Service District 1	433/851	0.23
7	16-32	Fox Cemetery	50/137	1.17
8	16-33	William M. Greenawalt & Lee A. Niezgoda	387/1	11.80
9	16-40 William M. Greenawalt & Lee A. Niezgoda		387/1	18.00
10	16-41	James C. Henthorne	367/673	46.00
11	16-57	Lee A. Niezgoda	402/90	1.06
12	16-47	William M. Greenwalt & Lee A. Niezgoda	387/1	12.00
13	16-58	Mark & Michael Diffore	406/241	97.80
14	16-64	Mark & Michael Diffiore	406/241	6.60
15	16-71	Michael L. & Tina M. Adams	437/722	30.50
16	19-8.1	Edwin D. & Jane C. Michael	275/42	36.84
17	19-8.2	Edwin D. & Jane C. Michael	275/42	22.00
18	19-8.3	Edwin D. & Jane C. Michael	275/42	24.50
19	19-18.1	Edwin D. & Jane Michael	364/565	8.00
20	19-17	John R. & Mary Ann Horner	416/853	47.55
21	19-18	Ronald L. & Sharon Christenson Family Trust	439/377	30.00
22	19-27	Ronald L. & Sharon Christenson Family Trust	439/377	25.00
23	19-28	Ronald L. & Sharon Christenson Family Trust	439/377	28.25
24	20-16	Coastal Forest Resources Co.	444/105	75.50
25	19-42	Sharon M. & Ronald L. Christenson	363/101	22.50
26	19-48.1	Teresa & Michael L. Bassett	423/982	2.00
27	19-47	Suzann M. Stoehr, et al	WB48/422	
28	19-48	Teresa & Michael L. Bassett	423/982	51.00
29	19-49	Michael L. & Teresa Bassett	386/315	32.25

	Leases
A	Shiben Estates, Inc.
В	Ellen W. & Mark L. VanDyne
C	John W. Bertram
D	BRC Appalachian Minerals I, LLC
E	Gordon Cummings
F	Eight Mile Ridge Church of Christ
G	Nancy Tice
Н	Reita Jane Hall
1	Acropolis, Inc.
J	Clyde Robert Kennedy
K	Emma Lee Rine
L	BRC Appalachian Minerals I, LLC
M	David E. Bowyer
N	Stone Hill Minerals Holdings, Inc.
0	Edwin D. & Jane C. Michael
P	Edwin D. Michael, et ux
Q	H. Dorn Higginbotham
R	Thomas J. lacoboni Revocable Trust Agreement
S	Faye Ann Skinner, et al
T	Christenson Family Trust
U	BRC Appalachian Minerals I, LLC
٧	Deborah A. Beaver
W	Suzann Marie Stoehr, et al
X	BRC Appalachian Minerals I, LLC
Y	Waco Oil & Gas Co. Inc.

FILE NO: 326-34-G-17
DRAWING NO: Peeler 2H Well Plat
SCALE: 1" = 1500'
MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION: CORS, Monroe County, OH STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

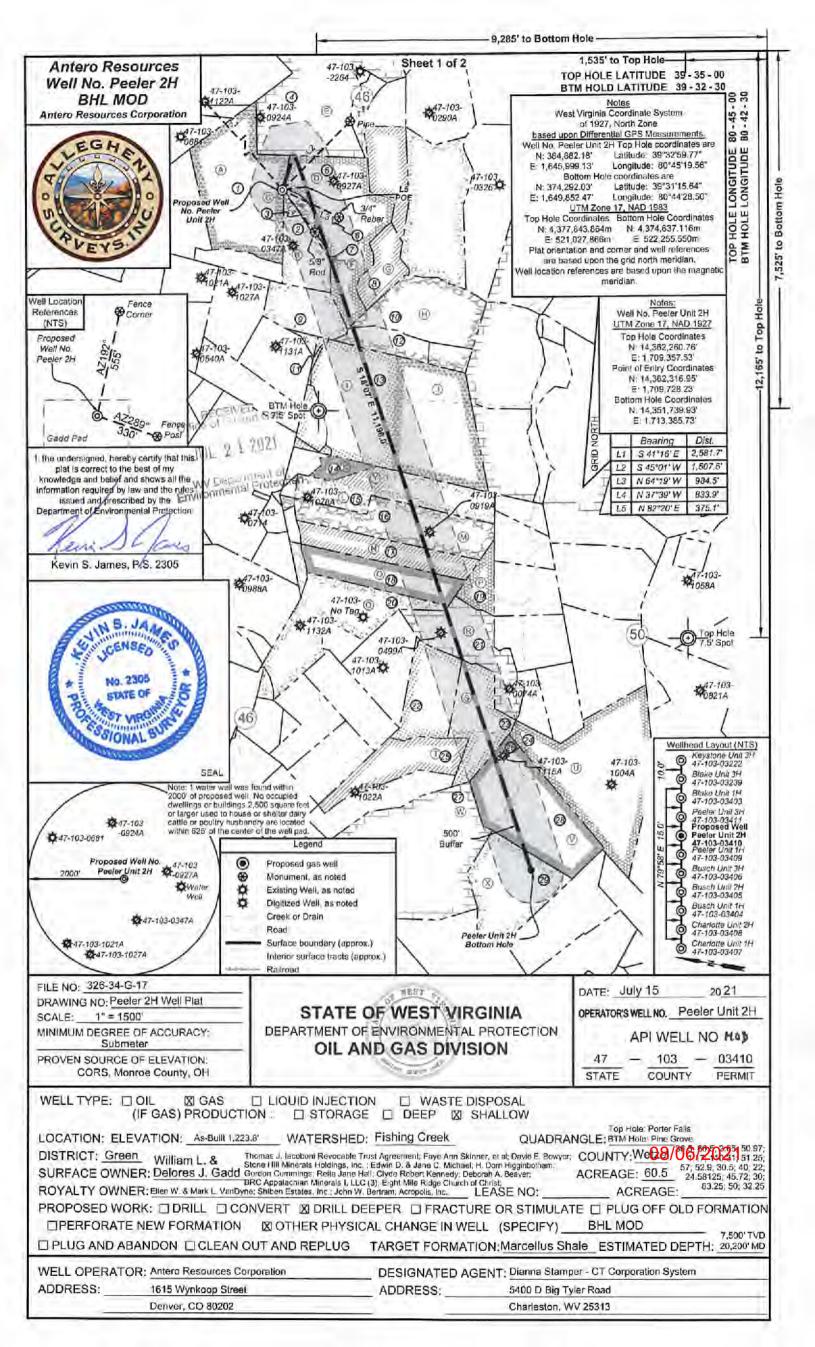
DATE: _July 15 _____ 20 21

OPERATOR'S WELL NO. ____ Peeler Unit 2H

API WELL NO ______ 47 ____ 103 _____ 03410

STATE _____ COUNTY ___ PERMIT

WELL TYPE: ☐ OIL ☐ GAS ☐ LIQUID INJECTION (IF GAS) PRODUCTION : ☐ STORAG		ISPOSAL SHALLOW
LOCATION: ELEVATION: As-Built 1,223.8' WATERSHED DISTRICT: Green William L. & Thomas J. Jacoboni Revocable Stone Hill Minerals Holdings, Inc. SURFACE OWNER: Delores J. Gadd Gordon Cummings; Reits Jame BRC Appalachian Minerals I, LLC ROYALTY OWNER: Ellen W. & Mark L. VanDyne; Shiben Estates, Inc.; John W	: ; Edwin D. & Jane C. Michael; fall; Clyde Robert Kennedy; De C (3); Fight Mile Ridge Church o	borah A. Beaver: ACREAGE: 60.5 24.58125; 45.72; 30;
PROPOSED WORK: □ DRILL □ CONVERT ☒ DRILL DI	THE PARTY OF THE P	RE OR STIMULATE PLUG OFF OLD FORMATION
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG	TARGET FORMAT	
WELL OPERATOR: Antero Resources Corporation	DESIGNATED AC	GENT: Dianna Stamper - CT Corporation System
ADDRESS: 1615 Wynkoop Street	ADDRESS:	5400 D Big Tyler Road
Denver, CO 80202		Charleston, WV 25313



Antero Resources Well No. Peeler 2H **BHL MOD**

Antero Resources Corporation



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W	Suzann Marie Stoehr, et al
Х	BRC Appalachian Minerals I, LLC
Y	Waco Oil & Gas Co. Inc.

Office of Gas 'JUL 2 1 2021 WI Environmental Protection

FILE NO: 326-34-G-17

DRAWING NO: Peeler 2H Well Plat

SCALE: 1" = 1500'

MINIMUM DEGREE OF ACCURACY:

Submeter

PROVEN SOURCE OF ELEVATION: CORS, Monroe County, OH

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

DATE: July 15 2021 OPERATOR'S WELL NO. Peeler Unit 2H

API WELL NO MOD

103 - 03410 47 COUNTY PERMIT STATE

WELL TYPE:	OIL	⊠ GAS □	LIQUID	INJECTION	1	☐ WAS	STE	DISPOSAL
	(IF GAS)	PRODUCTION	: 🗆	STORAGE		DEEP	\boxtimes	SHALLOW
OCATION: F	LEVATION	A - D. III 4 200 D	14/4	TEDOUED.	Eich	ing Cros	le.	

Top Hole: Porter Falls
QUADRANGLE: BTM Hole: Pine Grove LOCATION: ELEVATION: As-Bullt 1,223.8' WATERSHED: Fishing Creek

PROPOSED WORK: ☐ DRILL ☐ CONVERT ☑ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION

□PERFORATE NEW FORMATION ☑ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD

□ PLUG AND ABANDON □ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 20,200° MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System ADDRESS:

1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road Denver, CO 80202 Charleston, WV 25313

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
A Shiben Estates Inc. Lease			
Shiben Estates Inc.	Antero Resources Corporation	1/8+	0176/0467
Gordon Cummings Lease			
Gordon Cummings	Antero Resources Corporation	1/8+	0193/0001
BRC Appalachian Minerals LLC Lease	SWN Production Company OF RECEIVED		9704 64 67
BRC Appalachian Minerals LLC	SWN Production Company Office of Oil and Gas	1/8	0157/0540
SWN Production Company	Antero Exchange Properties LLC	Assignment	0177/0533
Antero Exchange Properties LLC	Antero Resources Corporation JUL 2 1 2021	Merger	0013/0311
John W. Bertram Lease	WV Department of Antero Resources Corporation		
John W. Bertram	Antero Resources Corporation Vironmental Protection	1/8+	0191/0288
BRC Appalachian Minerals LLC Lease			
BRC Appalachian Minerals LLC	SWN Production Company	1/8	0157/0540
SWN Production Company	Antero Exchange Properties LLC	Assignment	0177/0533
Antero Exchange Properties LLC	Antero Resources Corporation	Merger	0013/0311
Ellen W. & Mark VanDyne Lease			
Ellen W. & Mark VanDyne	Antero Resources Corporation	1/8+	0184/0660
Eight Mile Ridge Church of Christ Lease			
Eight Mile Ridge Church of Christ	Antero Resources Corporation	1/8+	0125/0014
L Reita Jane Hall Lease			
Reita Jane Hall	Antero Resources Corporation	1/8+	0111/0123
Acropolis Inc. Lease			
Acropolis Inc.	Antero Resources Corporation	1/8+	0179/0361
Clyde Robert Kennedy Lease	and the second	- 10	1101/412
Clyde Robert Kennedy	Chesapeake Appalachia LLC	1/8 Assignment	119A/412 157A/540
Chesapeake Appalachia LLC SWN Production Company	SWN Production Company Antero Exchange Properties LLC	Assignment	177A/533
Antero Exchange Properties LLC	Antero Resources Corporation	Merger	13/311
BRC Appalachian Minerals I LLC Lease			
BRC Appalachian Minerals LLC	BRC Working Interest Company LLC	1/8+	102A/505
BRC Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	103A/470
Chesapeake Appalachia LLC	SWN Production Company	Assignment	157A/540
SWN Production Company	Antero Exchange Properties LLC	Assignment	177A/533
Antero Exchange Properties LLC	Antero Resources Corporation	Merger	13/311

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
M	David E. Bowyer Lease David E. Bowyer	Antero Resources Corporation	1/8+	177A/105
N	Stone Hill Minerals Holdings Inc Lease Stone Hill Minerals Holdings Inc	Antero Resources Corporation	1/8+	259A/769
0	Edwin D. & Jane C. Michael Lease Edwin D. & Jane C. Michael	Antero Resources Corporation	1/8+	207A/910
Q	H. Dorn Higginbotham Lease H. Dorn Higginbotham	Antero Resources Corporation	1/8+	178A/647
R	Thomas J. Lacoboni Revocable Trust Agreement Lease Thomas J. Lacoboni Revocable Trust Agreement	Antero Resources Corporation	1/8+	262A/947
TC.	Faye Ann Skinner et al Lease Fave Ann Skinner et al	Gastar Exploration USA Inc	1/8	264/253
5	Gastar Exploration USA Inc Statoil USA Onshore Properties Inc	Statoil USA Onshore Properties Inc SWN Exchange Titleholder LLC	Assignment Assignment	132A/259 158A/801
	SWN Exchange Titleholder LLC SWN Production Company LLC Antero Exchange Properties LLC	SWN Properties Company LLC Antero Exchange Properties LLC Antero Resources Corporation	Merger Assignment Merger	13/296 177A/533 13/311
V	Deborah A. Beaver Lease			Control (
	Deborah A. Beaver	Antero Resources Corporation	1/8+	173A/106

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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	Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
	BRC Appalachian Minerals I LLC Lease					
		BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC		1/8+	102A/505
Χ.		BRC Working Interest Company LLC	Chesapeake Appalachia LLC		Assignment	103A/470
		Chesapeake Appalachia LLC	SWN Production Company		Assignment	157A/540
		SWN Production Company	Antero Exchange Properties LLC		Assignment	177A/533
		Antero Exchange Properties LLC	Antero Resources Corporation		Merger	13/311

*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.

RECEIVED
Office of Oil and Gus
JUL 2 1 2021

WV Department of Environmental Protection

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.

"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

Well Operator:	Antero Resources Corporation				
Ву:	Tim Rady	To Volla			
Its:	VP of Land				

Page 1 of 1



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

Expedited Modification H6A Horizontal Well Work Permit (API: 47-103-03410)

1 message

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

Tue, Aug 3, 2021 at 7:59 AM

I have attached a copy of the newly issued well permit number "PEELER UNIT 2H", API (47-103-03410). This will serve as your copy.

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

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