

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 CHARLOTTE UNIT 1H

47-103-03407-00-00

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: CHARLOTTE UNIT 1H

Farm Name: WILLIAM L. & DELORES J. GADD

U.S. WELL NUMBER: 47-103-03407-00-00

Horizontal 6A New Drill

Date Modification Issued: August 2, 2021

Promoting a healthy environment.

WW-6B (04/15)

CK#231573 \$ 5000 00 7/15/21

API NO. 47- 103 - 03407

OPERATOR WELL NO. Charlotte Unit 1H 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: Ani	tero Resources	Corpor	49450	7062	103-Wetzel	Green	Porters Falls 7.5'
-			Opera	ator ID	County	District	Quadrangle
2) Operator's Well Nu	mber: Charlotte	Unit 1H	MOD	_ Well Pad	Name: Gadd	Pad	
3) Farm Name/Surface	Owner: William L	& Delores	J. Gadd	Public Roa	d Access: Eigh	tmile Roa	id
4) Elevation, current gr	round: 1223.8	3' E	Elevation,		post-construction		3.8
5) Well Type (a) Gas Other							
(b)If C	Gas Shallow	X		Deep			
6) Existing Pad: Yes or	Horizontal r No Yes	X		-			
7) Proposed Target For Marcellus Shale: 750	rmation(s), Dept		-		-		
8) Proposed Total Vert	tical Depth: 750	00' TVD					
9) Formation at Total	·	Marcellu	ıs				
10) Proposed Total Me	easured Depth:	21500'					
11) Proposed Horizont	al Leg Length:	11056'				Office PLEC	CENED Oil and Gag
12) Approximate Fresh	ı Water Strata D	epths:	350'			101.	Uil and Gag
13) Method to Determ	ine Fresh Water	Depths:	47-095-	02266	Env	Wy Departmental Pro	2021
14) Approximate Saltv	vater Depths: 1	887', 191	7'			"nental Pr	OF
15) Approximate Coal	Seam Depths:	<u>356', 971</u>	F			· ·	Ction
16) Approximate Dept	h to Possible Vo	id (coal n	nine, kar	st, other):	None Anticipat	ed	·
17) Does Proposed we directly overlying or ac				'es	No	X	
(a) If Yes, provide M	line Info: Name	ð:					
, ,	Dept		······································				
	Seam						
	Own	er:					

OPERATOR WELL NO. Charlotte Unit 1H 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#	21500	21500	5504 Cu. Ft
Tubing	2-3/8°	New	N-80	4.7#			
Liners							

Beyon Hum 7-28-21

ТҮРЕ	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	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-HIPOZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200		000	
Liners						"Ce of C	Ven
Tubing 2-3/8" 4.778" 0.19" 11,200 Liners PACKERS							
Kind:	I				·		

PACKERS

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 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 and with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives" Used for Fracturing or Stimulating Well." Environmental Protection

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 34.16 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 17.00 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:

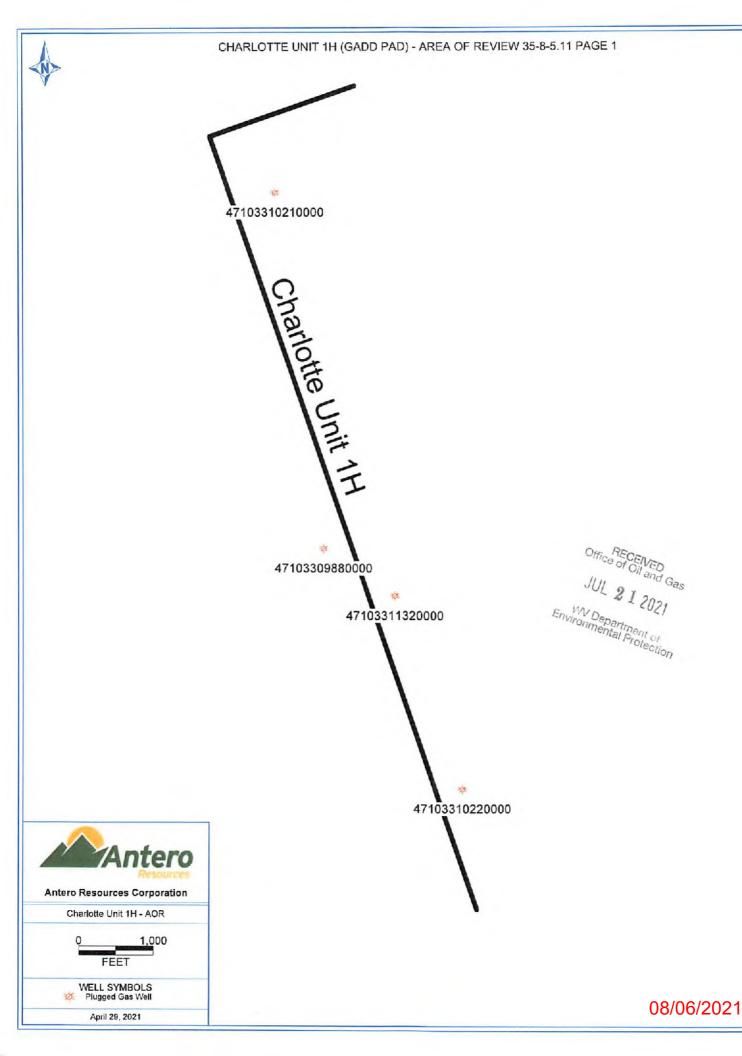
Conductor: no additives. Class A cement.

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

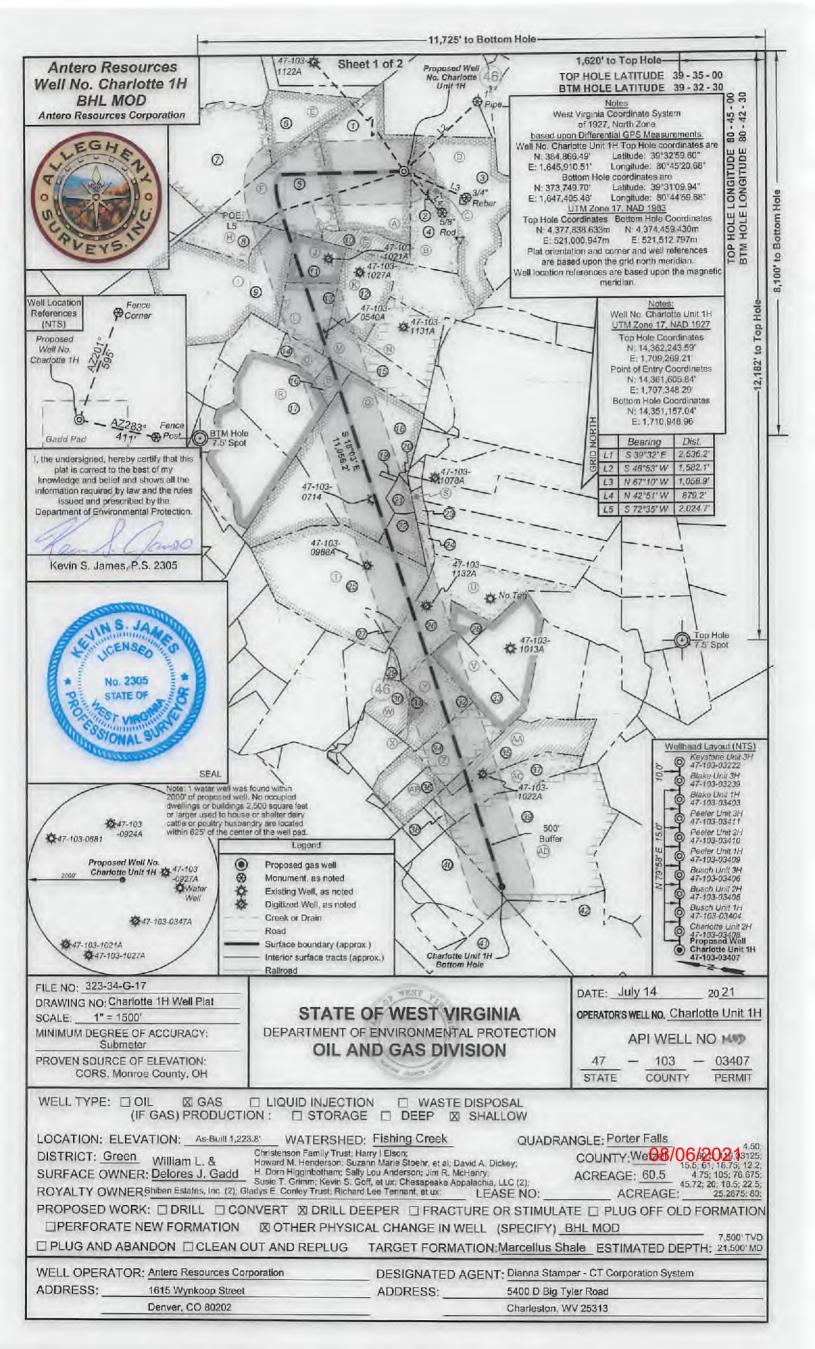
25) Proposed borehole conditioning procedures:

*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
47103310210000	THOMAS J FUNK 1	1349	MANUFACT LIGHT &HEAT	MANUFACT LIGHT &HEAT	2,817	Unknown	Gordon	Weir, Berea, Benson, Alexander
47103309880000	SARAH WRIGHT	4809	HOPE NATURAL GAS	HOPE NATURAL GAS	2,240	Unknown	Big Injun	Alexander, Weir
47103311320000	LEWIS CONLEY	700	HOPE NATURAL GAS	HOPE NATURAL GAS	2,889	Unknown	Gordon	Welr, Berea, Benson, Alexander
47103310220000	G W LANCASTER 1	1335	MANUFACT LIGHT &HEAT	MANUFACT LIGHT &HEAT	2,961	Unknown	Gordon	Alexander, Weir





Antero Resources Well No. Charlotte 1H BHL MOD

Antero Resources Corporation



	Leases
A	Shiben Estates, Inc.
В	Ellen W. & Mark L. VanDyne
C	John W. Bertram
D	BRC Appalachian Minerals I, LLC
E	Mildred Caseman
F	Gladys E. Conley Trust
G	Sandra Rose Conley
H	Chesapeake Appalachia, LLC
1	Harry I. Elson
J	Richard Lee Tennant, et ux
K	Michael Tennant
L	Shiben Estates, Inc.
M	Susie T. Grimm
N	Thomas M. Stackhouse
0	Kevin S. Goff, et ux
P	David A. Dickey
Q	Chesapeake Appalachia, LLC
R	Joyce E. Henry
S	Ronald Hall
T	Chesapeake Appalachia, LLC
U	H. Dorn Higginbotham
V	Perry Dele Thorne, Jr., et ux
W	Betty S. Burns
X	Black Gold Group, LTD
Y	Sally Lou Anderson
Z	Jim R. McHenry
AA	Christenson Family Trust
AB	Boyd Muzzy, et ux
AC	Howard M. Henderson
AD	Suzann Marie Stoehr, et al

ID	TM/Par	Owner	Bk/Pg	Acres
1	16-22	William L. & Delores J. Gadd	348/169	60.50
2	16-31	William L. & Delores J. Gadd	348/169	2.65
3	16-23	Kenneth E. Butler	331/110	50.97
4	16-30	William L. & Delores J. Gadd	348/169	14.00
5	16-21	Mildred E. Caseman	WB45/396	40.00
6	16-21.2	Mildred E. Caseman	WB45/396	20.06
7	16-20	Bonila Andrich, et al	WB70/243	79.03
8	16-21.1	Mildred E. Caseman	WB45/396	15.00
9	16-37	Garrett S. Estate	316/248	61.00
10	16-47	William M. Greenwalt & Lee A. Niezgoda	387/1	12.00
11	16-38	Silas Tennant	137/85	15.50
12	16-39	Silas & William A. Tennant	WB27/97	23.30
13	16-45	James E. Newman	400/234	18.50
14	16-55	James E. Newman	400/234	4.00
15	16-56	James L. & Martha Jo Stewart	288/330	23.33
16	16-59.2	James L. & Martha Jo Stewart	288/330	4.50
17	16-59	Mark & Patti Goldstein	305/586	34.97
18	16-61	Michael L. & Tina M. Adams	444/427	67.96
19	16-61.1	Church of Christ	218/337	0.42
20	16-61.2	Harry K. Eastham	299/450	0.38
21	19-61.3	Michael L. & Tina M. Adams.	346/443	3.83
22	19-61.4	Michael L. & Tina M. Adams	377/309	7.91
23	19-8.4	Ronald Hall	385/65	2.17
24	19-17.2	Timothy J. Horner	444/381	2.76
25	19-16	Richard R. & Mary J. Scyoc	443/336	73.96
26	19-17	John R. & Mary Ann Horner	416/853	47.55
27	19-16.1	Richard R. & Mary J. Scyoc	445/20	2.74
28	19-25	Perry Dale, Jr. & Martha Jo Thome	348/298	5.34
29	19-17.1	Zachary M. & Jessica N. Pittman	421/145	1.83
30	19-33	John A. Earnest	401/357	9.30
31	19-34	Sharon M. & Ronald L. Christenson	439/373	2.00
32	19-35	Sharon M. & Ronald L. Christenson	439/373	20.00
33	19-36	Perry Dale, Jr. & Martha Jo Thome	348/298	20.00
34	19-41	Sharon M. & Ronald L. Christenson	439/373	18.50
35	19-42	Sharon M. & Ronald L. Christenson	363/101	22.50
36	19-44	Boyd & Karen Muzzy	330/264	8.50
37	19-46	Sharon M. & Ronald L. Christenson	439/373	25.28
38	19-45	Sharon M. & Ronald L. Christenson	439/373	2.20
39	19-47	Suzann M. Stoehr, et al	WB48/422	
40	18-1.1	Montana Sue & Lakota James Morris	WB51/364	
41	18-1	William H. & Joclare Eastham	378/603	97.06
42	19-50	Ronald H. Eastham, et al	424/70	40.00

FILE NO: 323-34-G-17

DRAWING NO: Charlotte 1H 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

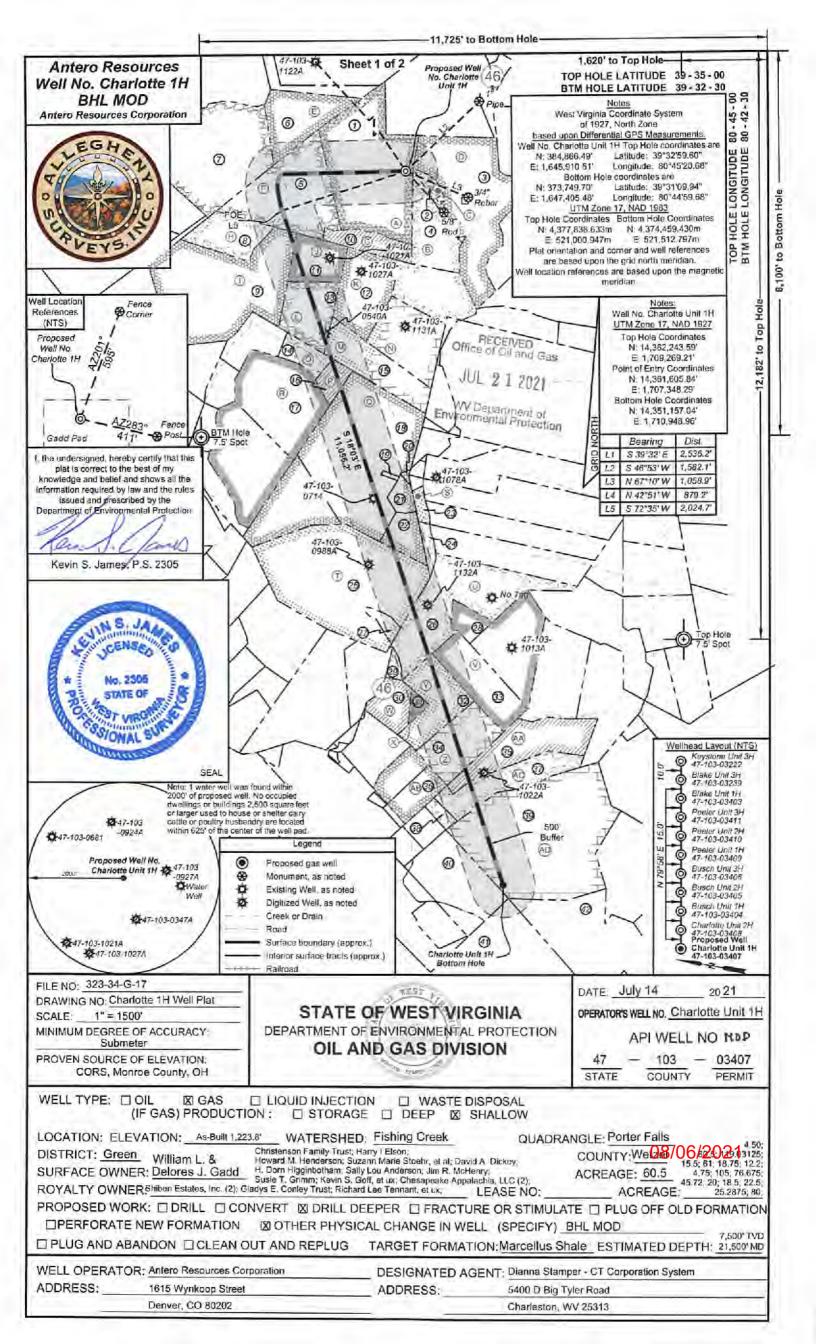
WEST ,

OPERATOR'S WELL NO. Charlotte Unit 1H

API WELL NO Mod

 $\frac{47}{\text{STATE}} - \frac{103}{\text{COUNTY}} - \frac{03407}{\text{PERMIT}}$

WELL TYPE: □ OIL □ GAS □ LIQUID INJECTION □ WASTE DISPOSAL (IF GAS) PRODUCTION: □ STORAGE □ DEEP ☒ SHALLOW
Cocation: Elevation: As-Built 1,223.8' Watershed: Fishing Creek Quadrangle: Porter Falls OISTRICT: Green William L. & Christenson Family Trust; Harry I Elson; Howard M. Henderson; Suzann Marie Stochr, et al; David A. Dickey; H. Dorn Higginbotham; Sally Lou Anderson; Jim R. McHenry; Susie T. Grimm, Kevin S. Goff, et ux; Chesapeake Appalachia, LLC (2); ACREAGE: 60.5 4.75; 105; 76.676; 80.994 ACREAGE: 25.2875; 80.994 AC
□PERFORATE NEW FORMATION ☑ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 21,500° 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



Antero Resources Corporation



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SCALE: _	1" = 1500'
MUMINIM	DEGREE OF ACCURACY: Submeter
	SOURCE OF ELEVATION:

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

DATE: July 14

OPERATOR'S WELL NO. Charlotte Unit 1H

API WELL NO MOD

- 103 - 03407

CORS, Monroe County, OH	AW SEMEN L	STATE COUNTY PERMIT
WELL TYPE: □ OIL ☑ GAS (IF GAS) PRODUC	☐ LIQUID INJECTION ☐ WASTE DISPOSATION: ☐ STORAGE ☐ DEEP ☒ SHALLO	
LOCATION: ELEVATION: As-Built 1, DISTRICT: Green William L. & SURFACE OWNER: Delores J. Gadd ROYALTY OWNER: hiben Estates, Inc. (2).	Christenson Family Trust; Harry I Elson; Howard M. Henderson; Suzann Marie Stoehr, et al; David A. Dickey	(2) ACREAGE: 60.5 4.75; 105; 76.675; 45.72; 20; 18.5; 22.5
	ONVERT ⊠ DRILL DEEPER ☐ FRACTURE OR I ☑ OTHER PHYSICAL CHANGE IN WELL (SF OUT AND REPLUG TARGET FORMATION: Ma	
WELL OPERATOR: Antero Resources C ADDRESS: 1615 Wynkoop Stree Denver, CO 80202	et ADDRESS: 54	anna Stamper - CT Corporation System 100 D Big Tyler Road narleston, 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
Ā	Shiben Estates Inc. Lease (TM 16 PCL 22)			v
A-	Shiben Estates Inc.	Antero Resources Corporation	1/8+	0176/0467
8	Gladys E. Conley Trust Lease			
1	Gladys E. Conley Trust	Antero Resources Corporation	1/8+	0180/0443
1	Harry I. Elson Lease			-
ţ	Harry I. Elson	Antero Resources Corporation	1/8+	0181/0760
1	Richard Lee Tennant et ux Lease			
-	Richard Lee Tennant et ux	Antero Resources Corporation	1/8	0173/0237
L	Shiben Estates Inc. Lease (TM 16 PCL 45)		The of Oil VED	
	Shiben Estates Inc.	Antero Resources Corporation	Office RECEIVED 1/8+UL 2 I 2021 Environment	0176/0467
m	Susie T. Grimm Lease		Environ Den 2021	
**1	Susie T. Grimm	Antero Resources Corporation	Environ Department of Protection	0198/0607
0	Kevin S. Goff et ux Lease		olection.	Septiment.
	Kevin S. Goff et ux	Antero Resources Corporation	1/8+	0187/0543
P	David A. Dickey Lease		1.0	1500000
1	David A. Dickey	Antero Resources Corporation	1/8+	0237/0567
Q	Chesapeake Appalachia LLC Lease (TM 19 PCL			
Ų	16) Chesapeake Appalachia LLC	SWN Production Company	1/8	0157/0640
	SWN Production Company	Antero Exchange Properties	Assignment	0177/0533
	Antero Exchange Properties	Antero Resources Corporation	Merger	0013/0311
1	Chesapeake Appalachia LLC Lease (TM 19 PCL			
1	16.1)	CMN Production Communication	2/0	0157/0540
	Chesapeake Appalachia LLC	SWN Production Company	1/8	0157/0640
	SWN Production Company Antero Exchange Properties	Antero Exchange Properties Antero Resources Corporation	Assignment Merger	0177/0533 0013/0311
1)	H. Dorn Higginbotham Lease			
U	H. Dorn Higginbotham	Antero Resources Corporation	1/8+	0178/0647

^{*}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
Y	Sally Lou Anderson Lease Sally Lou Anderson	Antero Resources Corporation	ation 1/8+	
2	Jim R. McHenry Lease Jim R. McHenry	Antero Resources Corporation	1/8+	0172/0151
AA	<u>Christenson Family Trust Lease</u> Christenson Family Trust	Antero Resources Corporation	1/8+	0186/0581
AC	Howard M. Henderson Lease Howard M. Henderson	Antero Resources Corporation	1/8+	0109/0916

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
AD Suzann Marie Stoehr et al Lease	•			
**	Suzann Marie Stoehr	Antero Resources Corporation	1/8+	0203/0550

*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 possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, or 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	Can Voils
Its:	VP of Land	



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

Expedited Modification H6A Horizontal Well Work Permit (API: 47-103-03407)

1 message

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

Tue, Aug 3, 2021 at 7:35 AM

I have attached a copy of the newly issued well permit number "CHARLOTTE UNIT 1H", API (47-103-03407). 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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