

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, October 2, 2023
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit Modification Approval for GAUSS UNIT 1H

47-103-03585-00-00

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: GAUSS UNIT 1H

Farm Name: ANTERO RESOURCES CORP

U.S. WELL NUMBER: 47-103-03585-00-00

Horizontal 6A New Drill

Date Modification Issued: 10/02/2023

Promoting a healthy environment.

API NO. 47-103	_ 03585	
OPERATOR WI	ELL NO.	Gauss Unit 1H MOD
Well Pad Nam	e: Furbee	Pad

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

1) Well Operator: Antero Resources Corporal 494507062 103 - Wetzel Green Pine Grove 7.5'
Operator ID County District Quadrangle
2) Operator's Well Number: Gauss Unit 1H MOD Well Pad Name: Furbee Pad
3) Farm Name/Surface Owner: Antero Resources Corp. Public Road Access: CR 50
4) Elevation, current ground: As-built 1211' Elevation, proposed post-construction:
5) Well Type (a) Gas X Oil Underground Storage
Other
(b)If Gas Shallow X Deep Horizontal X
6) Existing Pad: Yes or No Yes
7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s): Marcellus Shale: 7500' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#
8) Proposed Total Vertical Depth: 7500' TVD
9) Formation at Total Vertical Depth: Marcellus
10) Proposed Total Measured Depth: 25100' MD /
11) Proposed Horizontal Leg Length: 16106' *Open to modification at a later date *
12) Approximate Fresh Water Strata Depths: 575'
13) Method to Determine Fresh Water Depths: 47103308970000 Offset well records. Depths have been adjusted according to surface elevations.
14) Approximate Saltwater Depths: 2284'
15) Approximate Coal Seam Depths: 973'
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 _X
(a) If Yes, provide Mine Info: Name:
Depth: RECEIVED
Seam: Office of Oil and Gas
Owner: SEP 25 2023
WV Department of Environmental Protection
CK+4023223

\$ 25000

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OPERATOR WELL NO. Gauss Unit 1H MOD Well Pad Name: Furbee 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	J-55	91.59#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	625'	625'	CTS, 651 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	3100'	3100'	CTS, 1262 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P110-ICY	23#	25100'	25100' ~	CTS, 5397 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"	0.375"	2250	50	Class A/L	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A/L	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A/L	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	14,360	2500	Class G/H	~1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

Kind:	N/A	
Sizes:	N/A	RECEIVED Office of Öil and Gas
Depths Set:	N/A	SEP 25 2023

WV Department of Environmental Protection

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OPERATOR WELL NO. Gauss Unit 1H MOD Well Pad Name: Furbee 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.

*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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 33.19 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 13.86 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/L cement.

Surface: Class A/L cement with 2-3% calcium chloride and 1/4 lb of flake Intermediate: Class A/L 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 G/H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

RECEIVED Office of Oil and Gas

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, rungeasing circulate pipe

Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, rungeasing circulate pipe

Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, rungeasing circulate pipe

Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, rungeasing circulate pipe

Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, rungeasing circulate pipe

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Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, rungeasing circulate pipe

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Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, rungeasing circulate pipe

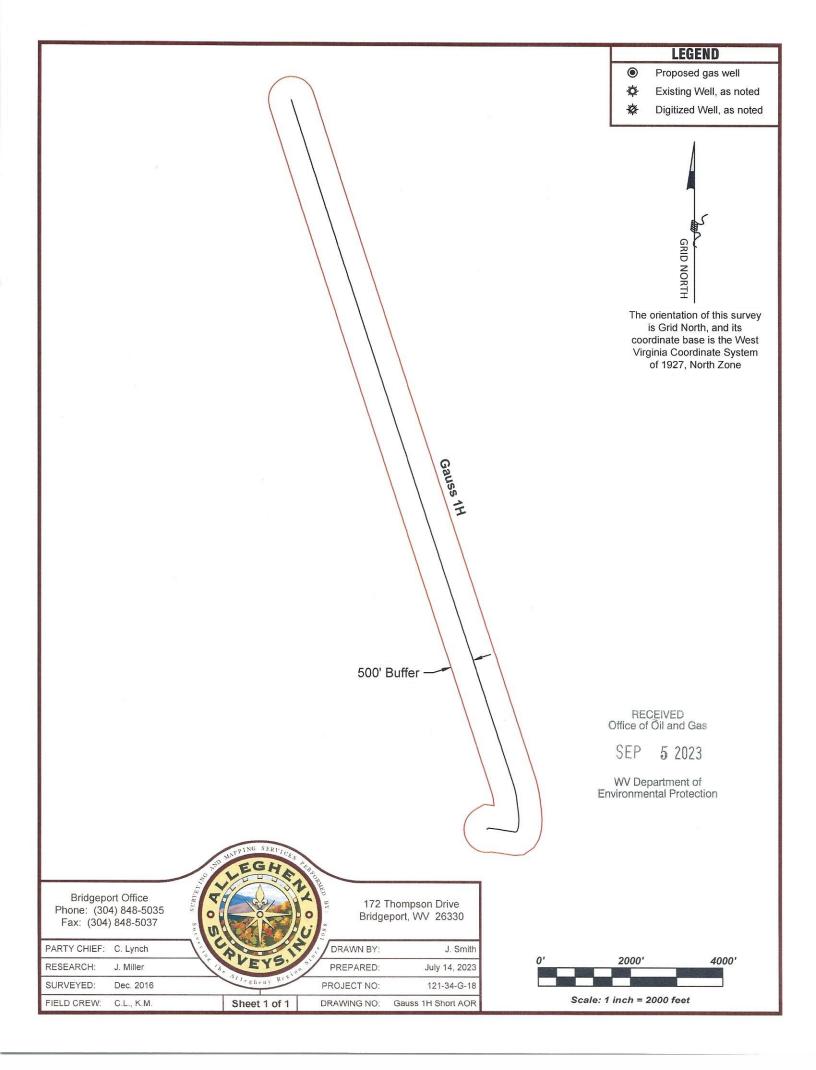
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, rungeasing circulate pipe

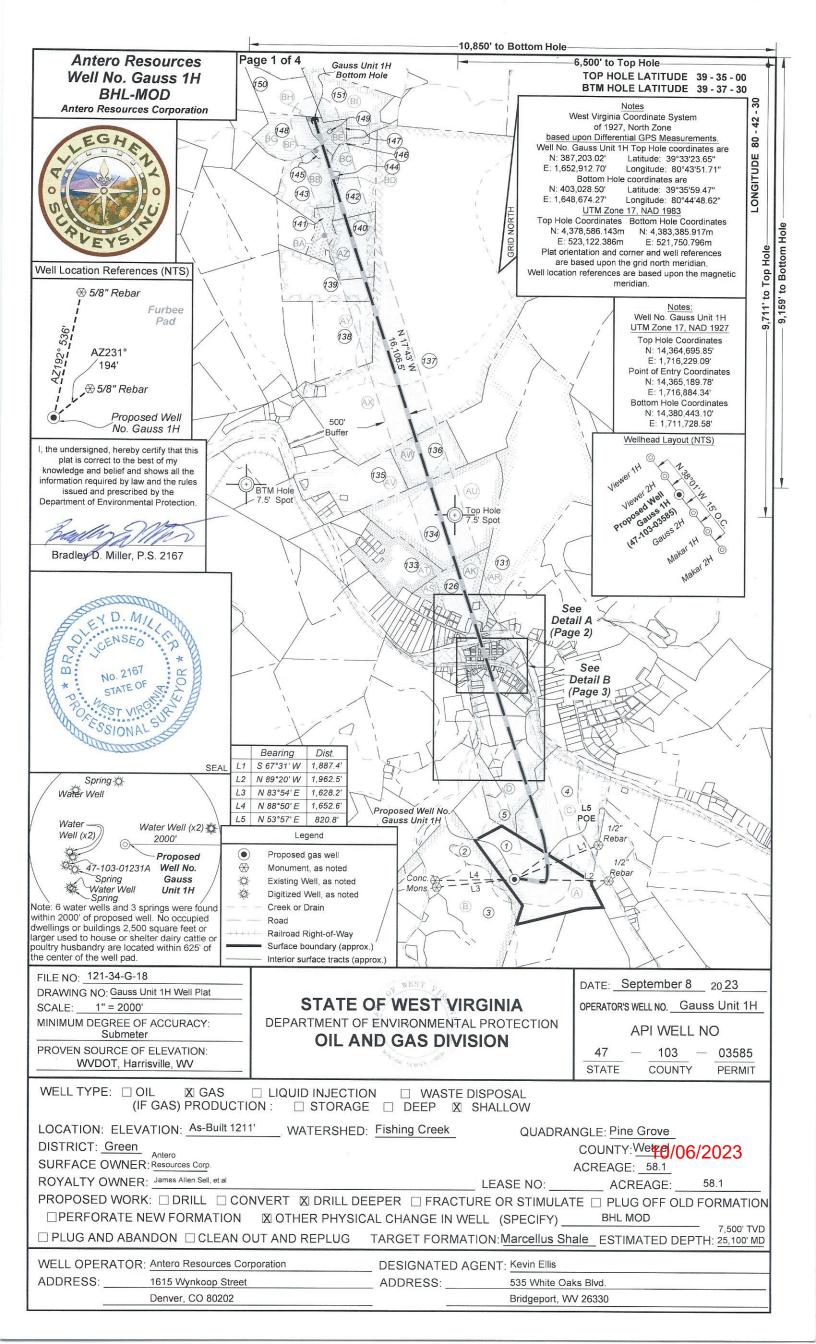
Surface: blowhole clean with air, trip to conductor shoe, and trip to blowhole clean with air, trip to blowhole clean with air with air with air w Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine 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.

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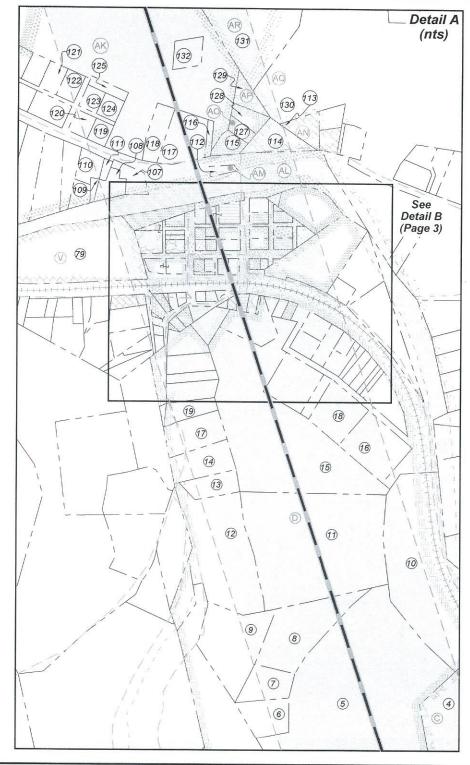




Page 2 of 4



	Leases
Α	James Allen Sell
В	William R. Stalnaker
С	Marilyn Halley Seeley
D	Antero Minerals, LLC
E	Antero Minerals, LLC
F	Dennis G. Haught
G	Patricia Ruth Cain
Н	Morgan S. Long, et ux
1	Timothy C. Wilcox
J	Pearl Lynn Larimore
-	Robert P. Willoughby
K	3 ,
L	John S. Starkey
M	CSX Transportation, Inc.
N	Timothy Lynn & Michael A. McDiff.
0	Judy Kocher
Р	Donald L. & Cshawn L. Smith
Q	Church of Christ of Reader, WV
R	Gordon F. & Regeena S. Yost
S	CSX Transportation, Inc.
Т	Wavelene Garrison Grantham
U	Ricky L. & Amy F. Bassett
V	Ruby Lynn Price
W	Daniel S. Brown, et ux
X	
	Matthew Bassett
Y	Thomas S. Haught, et ux
Z	Reader Lodge No. 282 IOOF
AA	Gary & Katherine White
AB	Frontier Communications
AC	Weldon P. Williams
AD	Darla J. Brinker
AE	Donald L., II & Cshawn L. Smith
AF	Donald L., II & Cshawn L. Smith
AG	Kevin Cunningham, et ux
АН	Daniel Melott
Al	Martha Lou Cunningham
AJ	Kevin Cunningham, et ux
AK	Shiben Estates, Inc.
AL	WVDNR
AM	Daniel W. Henderson, et ux
AN	Ronald M. Jackson, et ux
AO	Brent A. Whipkey
AP	Phillip W. Wiley
AQ	BRC Appalachian Minerals I, LLC
AR	Chesapeake Appalachia, LLC
AS	Daniel W. Henderson
AT	Michael Paul Melott, et ux
AU	Chesapeake Appalachia, LLC
AV	Margaret Lancaster, et vir
AW	Mary E. Snider
AX	Shiben Estates Inc.
AY	Barbara Anne Amos King
AZ	Valerie Preat
BA	James D. Highley, et ux
BB	Nancy B. Hatfield, et al
UD I	Nancy B. Hatfield, et al
вс	
BC BD	Charles J. Stillwagoner, et ux
BC BD BE	Charles J. Stillwagoner, et ux Ryann Wade, Sr., et al
BC BD BE BF	Charles J. Stillwagoner, et ux Ryann Wade, Sr., et al John D. Morgan, et ux
BC BD BE BF BG	Charles J. Stillwagoner, et ux Ryann Wade, Sr., et al John D. Morgan, et ux Fern Nuhring
BC BD BE BF	Charles J. Stillwagoner, et ux Ryann Wade, Sr., et al John D. Morgan, et ux



FILE NO: 121-34-G-18

DRAWING NO: Gauss Unit 1H Well Plat

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

DATE: September 8 20 23

OPERATOR'S WELL NO. Gauss Unit 1H

API WELL NO

47 — 103 — 03585

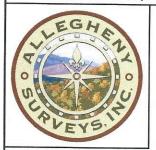
STATE COUNTY PERMIT

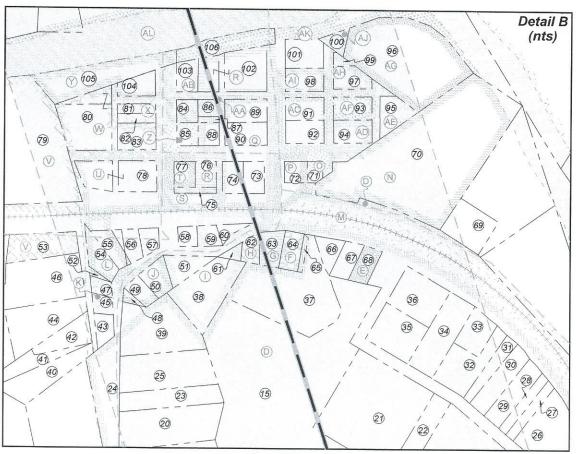
				SIAIL	COONT	FERIVITI
WELL TYPE: ☐ OIL ☒ GAS (IF GAS) PRODUCTION	☐ LIQUID INJECTION: ☐ STORAGI		SPOSAL HALLOW	a		
LOCATION: ELEVATION: As-Built 1211	WATERSHED	: Fishing Creek	QUADRA	NGLE: Pine		
DISTRICT: Green Antero				COUNTY:V	Ve tre /06/	2023
SURFACE OWNER: Resources Corp.				ACREAGE:		2023
ROYALTY OWNER: James Allen Sell, et al			LEASE NO:	ACRI	EAGE:	58.1
PROPOSED WORK: DRILL CON	NVERT X DRILL DE				THE RESERVE OF THE PARTY OF THE	
☐ PERFORATE NEW FORMATION	X OTHER PHYSIC	CAL CHANGE IN WEL	L (SPECIFY)	BHL MO	DD	FERRICA STATES
☐ PLUG AND ABANDON ☐ CLEAN O			1 200		ATED DEPT	7,500' TVD H: <u>25,100' MD</u>
WELL OPERATOR: Antero Resources Cor	poration	_ DESIGNATED AGE	NT: Kevin Ellis			
ADDRESS: 1615 Wynkoop Street		_ ADDRESS:	535 White Oa	ks Blvd.		
Denver, CO 80202			Bridgeport, W	V 26330		

Antero Resources Well No. Gauss 1H BHL-MOD

Antero Resources Corporation







ID	TM-Par	Owner	Bk/Pg	Acres
1	17-12	Antero Resources Corp.	483/888	58.10
2	17-1	Antero Resources Corp	483/888	15.35
3	17-60	Ross Bucher	411/765	79.00
4	13-71	Charles R. & Kay L. Blair	387/577	63.11
5	13-70	Doris Ruth Haught, et al	AP112/912	33.78
6	13-70.2	Cory R.& Mary L. Haught	449/135	1.04
7	13-70.4	Adriene N. Derby	459/95	0.93
8	13-70.3	Tom & Betty C. Haught	303/65	2.59
9	13-70	Doris Ruth Haught, et al	AP112/912	33.78
10	13-47	Charles J. Stillwagoner III	460/921	8.00
11	29-69.1	Donald L. II & Cshawn L. Smith	350/465	8.80
12	13-46.1	Douglas A. & Shirley J. Bucher	300/188	4.42
13	13-46	Carol Knapp Revocable Trust	437/796	0.70
14	29-68	Carol Knapp Revocable Trust	437/796	1.30
15	29-69	Leroy E. & Virginia R. Derby	278/70	10.20
16	29-96	Brenda Ellen Glasscock	472/33	1.65
17	29-67	Carol Knapp Revocable Trust	437/796	1.33
18	29-95	Brian Keith Haught	420/216	1.26
19	29-67.1	Tully S. Vanwinkle	68/379	0.57
20	29-66	Tully S. Vanwinkle	68/379	0.63
21	29-90	Robert Eugene Eastham	388/59	1.25
22	29-94	Brian Keith Haught	420/216	0.27
23	29-65	Tully S. Vanwinkle	68/379	0.31
24	29-41	Faith Fellowship Ministries	477/796	0.45
25	29-64	Tully S. Vanwinkle	68/379	0.59

ID	TM-Par	Owner	Bk/Pg	Acres
26	29-89	Brenda Ellen Glasscock	472/33	0.61
27	29-88	Brian Keith Haught	420/216	0.10
28	29-87	Russell Craig Bates	429/422	0.10
29	29-86	Russell Craig Bates	429/422	0.21
30	29-79	James Stacey Anderson	402/596	0.22
31	29-78	James Stacey Anderson	402/596	0.13
32	29-77	Roland Lee & Jo Ann Pittman	333/528	0.32
33	29-76	Roland Lee & Jo Ann Pittman	333/528	0.18
34	29-75	Janet Lea Higginbotham	WB 8/638	0.38
35	29-80	John M. & Robin Lynn Pittman	295/446	0.30
36	29-73	John M. & Robin Lynn Pittman	295/446	0.33
37	29-56	Morgan S. & Chelcie L. Long	440/102	0.87
38	29-63	Timothy C. & Christena Wilcox	445/894	0.42
39	29-61	Pearl Lynn Larrimore	403/430	0.81
40	29-39	Faith Fellowship Ministries	477/796	0.20
41	29-38	Faith Fellowship Ministries	477/796	0.20
42	29-33	Faith Fellowship Ministries	477/796	0.15
43	29-42	Faith Fellowship Ministries	477/796	0.09
44	29-32	David & Debra Lancaster	261/469	0.47
45	29-43	Jami Barnes	442/231	0.06
46	29-31	David & Debra Lancaster	333/167	1.50
47	29-44	Jami Barnes	442/231	0.06
48	29-60	Pearl Lynn Larrimore	403/430	0.03
49	29-59	Pearl Lynn Larrimore	403/430	0.08
50	29-58	Pearl Lynn Larrimore	403/430	0.12

535 White Oaks Blvd.

Bridgeport, WV 26330

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Submeter

PROVEN SOURCE OF ELEVATION:

WVDOT, Harrisville, WV

1615 Wynkoop Street

Denver, CO 80202

ADDRESS: _

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

DATE: September 8 20 23

OPERATOR'S WELL NO. Gauss Unit 1H

API WELL NO

47 — 103 — 03585 STATE COUNTY PERMIT

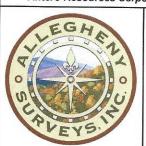
WELL TYPE: □ OIL
LOCATION: ELEVATION: As-Built 1211' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
DISTRICT: Green Antero COUNTY: Weiter / 06/2023
SURFACE OWNER; Resources Corp. ACREAGE: 58.1
ROYALTY OWNER:
PROPOSED WORK: ☐ DRILL ☐ CONVERT ☒ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
□ PERFORATE NEW FORMATION ☑ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,100' MD
WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis

_ ADDRESS: _

Antero Resources Well No. Gauss 1H BHL-MOD

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Antero Resources Corporation



ID	TM-Par	Owner	Bk/Pg	Acres
51	29-57	Timothy C. & Christena Wilcox	445/894	0.14
52	29-45	William Leccese	484/153	0.01
53	29-30	Sara Larrimore, et al	AP107/99	0.25
54	29-46	William Leccese	484/153	0.19
55	29-47	William Leccese	484/153	0.12
56	29-47.1	Rhonda Thomas	431/798	0.09
57	29-48	Rhonda Thomas	431/798	0.08
58	29-49	Rusty Thomas	448/834	0.06
59	29-50	Timothy C. & Christena Wilcox	445/894	0.07
60	29-51	Timothy C. & Christena Wilcox	445/894	0.07
61	29-62	Timothy C. & Christena Wilcox	445/894	0.02
62	29-52	Morgan S. & Chelcie L. Long	440/102	0.07
63	29-53	Patricia Ruth Cain	292/649	0.12
64	29-54	Dennis G. Haught	355/427	0.11
65	29-55	Dennis G. Haught	355/427	0.02
66	29-70	Jonathan E. & Alexa R. Mason	440/489	0.02
67	29-72	Jonathan E. & Alexa R. Mason	440/489	0.13
68	29-71	Jonathan E. & Alexa R. Mason	440/489	0.12
69	29-36	Trinity United Methodist	/	0.12
70	29-34	Timothy Lynn & Michael Allen McDiffitt	399/54	2.32
71	29-24	Judy Kocher	WB80/936	0.05
72	29-25	Donald L. II & Cshawn Smith	464/819	0.08
73	29-26	Reader Church of Christ	322/452	0.08
74	29-27	Reader Church of Christ	333/123	0.11
75	29-114	B&O RR Co.	/	0.11
76	29-28	Gordon F. & Regenna S. Yost	317/17	0.04
77	29-29	Wavelene Garrison Grantham	WB46/458	0.08
78	28-31	Ricky L. & Amy F. Bassett	481/782	0.08
79	28-25	Sara Larrimore, et al	AP107/99	-
80	28-27	Daniel S. & Leah M. Brown	411/328	4.50 0.38
81	28-28	Matthew Bassett		
82	28-29	Matthew Bassett	396/508	0.06
83	28-30	Daniel S. & Leah M. Brown	396/508	0.06
84	29-7	Betty & Thomas Haught	411/328	0.16
85	29-8	IOOF No. 282	410/850	0.08
86	29-9	Gary White	102/514	0.08
87	29-10	Reader Church of Christ	359/665	0.06
88	29-11	Reader Church of Christ	433/886	0.02
89	29-12	Church of Christ	434/275	0.08
90	29-12	Reader Church of Christ	169/109	0.15
91	29-13	Weldon Williams	428/429	0.15
92	29-22	The state of the s	377/402	0.14
93	29-23	Weldon Williams Cathy Brown	377/402	0.14
94	29-21	Darla J. Brinker	399/473	0.14
95	29-20		371/308	0.14
96	29-19	Dillon Leroy Edgell Kevin E. & Carol L. Cunningham	444/504	0.15
96	29-18		432/231	1.00
98	29-17	Daniel Melott Martha L. Cunningham	483/851	0.12
98			WB69/361	0.14
100	29-15.1 29-120	Daniel Melott Kevin E. & Carol L. Cunningham	483/851	0.03
100	29-120	Nevin E. & Caroi E. Cunningham	432/231	0.06

ID	TM-Par	Owner	Bk/Pg	Acres
101	29-15	Rodney Anderson	W107/739	0.16
102	29-6	Gordon Yost	361/261	0.39
103	29-6.1	Short Line Telephone Co.	226/185	0.10
104	28-26.1	Thomas S. & Betty C. Haught	415/521	0.11
105	28-26	Thomas S. & Betty C. Haught	415/521	0.99
106	29-14	Matthew C. Briggs	429/840	1.00
107	28-33.1	Robin D. Stillwagoner	467/508	0.45
108	28-33.2	Thomas L. & Emily Marie Gifford	421/20	0.37
109	28-33	Benjamin J. Dotson	447/881	0.18
110	28-24	Benjamin J. Dotson	447/881	0.34
111	28-32.1	Benjamin J. Dotson	447/881	0.10
112	29-115	Daniel W. & Ruth Ann Henderson	244/111	0.25
113	29-1.1	Ronald M. & Pamela A. Jackson	320/38	0.56
114	29-1	Ronald M. & Pamela A. Jackson	320/38	1.00
115	29-116	Brent A. Whipkey	411/154	0.20
116	13-21.2	Kimberly Dawn & Daniel M. Henderson	433/507	0.14
117	13-21.1	Kimberly Dawn & Daniel M. Henderson	423/785	1.00
118	13-21.7	Kimberly Dawn & Daniel M. Henderson	440/838	0.62
119	28-44	David Lewis Anderson	242/483	0.28
120	28-3	David Anderson, et al	WB57/511	
121	28-2.4	Robert L. Yoho	452/434	
122	28-2.5	Robert L. Yoho	452/434	
123	28-45	David Lewis Anderson	WB57/511	0.28
124	28-46	David Lewis Anderson	WB57/511	0.30
125	28-47	David Lewis Anderson	WB57/511	0.24
126	13-21	Daniel W. & Ruth A. Henderson	244/111	30.95
127	29-117	Brent A. Whipkey	411/154	0.18
128	29-118	Brent A. Whipkey	411/154	0.34
129	29-119	Phillip Wiley	368/706	0.42
130	13-24	Howard D. & Clara M. Bucher	367/144	34.02
131	13-7	WSD Properties LLC	441/793	162.00
132	13-22	James Cochran Memorial Cemetery	/	0.52
133	13-19.1	Michael Paul & Tamatha Lynn Melott	379/128	23.95
134	13-13	Linda M. Headley	385/209	85.50
135	13-6	Margaret Lancaster	333/440	39.39
136	8-43	Debra Key Fluharty, et al	368/559	35.00
137	8-28	Nancy B. Hatfield	474/48/1	449.48
138	8-34	Peter S. & Marietta A Florea	420/915	42
139	8-31	Valerie Preat	416/599	32.50
140	8-27	Valerie Preat	416/599	16.80
141	8-26.1	James D. & Julie M. Highley	360/318	9.79
142	8-23	Debra Kay Fluharty, et al	368/561	28.04
143	8-48	James D. Highley Jr.	472/167	41.00
144	8-23.1	Charles J. Stillwagoner III	441/514	0.91
145	8-14	John D. & Connie J. Morgan	400/281	1.06
146	8-17	Harold L. & Deborah C. Miller	393/500	2.12
147	8-16	Ryann M. Wade, et al	433/830	9.25
148	8-13.1	William H. & Charlene M. Gore	370/632	20.27
149	8-15	Keiger Cemetery	3/0/632	0.17
150	8-4.2	William H. & Charlene M. Gore	370/632	22.93
· JU	U-4.Z	Charles J. Jr & Robin D Stillwagoner	3/0/032	22.93

FILE NO: 121-34-G-18

DRAWING NO: Gauss Unit 1H Well Plat

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

DATE: September 8 20 23
OPERATOR'S WELL NO. Gauss Unit 1H

API WELL NO

<u>47</u> - <u>103</u> - <u>03585</u> STATE <u>COUNTY</u> <u>PERMIT</u>

WELL TYPE: □ OIL					
OCATION: ELEVATION: As-Built 1211' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove					
DISTRICT: Green COUNTY: Weige / 06/2023					
SURFACE OWNER; Resources Corp. ACREAGE: 58.1					
ROYALTY OWNER: James Allen Sell, et al LEASE NO: ACREAGE: 58.1					
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: 25,100° MD					
VELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis					
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.					
Denver CO 80202 Bridgenort WW 26330					

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: James Allen Sell Lease James Allen Sell	Antero Resources Corporation	1/8+	258A/0467
C: Marilyn Halley Seeley Lease Marilyn Halley Seeley EQT Production Company	EQT Production Company Antero Resources Corporation	1/8 Assignment	148A/0831 230A/0801
<u>D: Antero Minerals, LLC Lease</u> Antero Minerals, LLC	Antero Resources Corporation	1/8+	250A/0847
<u>G: Patricia Ruth Cain Lease</u> Patricia Ruth Cain	Antero Resources Corporation	1/8+	195A/0699
H: Morgan S. Long, et ux Lease Morgan S. Long, et ux	Antero Resources Corporation	1/8+	319A/0733
I: Timothy C. Wilcox Lease Timothy C. Wilcox	Antero Resources Corporation	1/8+	195A/0696
M: CSX Transportation, Inc. Lease CSX Transportation, Inc.	Antero Resources Corporation	1/8+	275A/0895
Q: Church of Christ of Reader, WV Lease Church of Christ of Reader, WV	Antero Resources Corporation	1/8+	197A/0290
AA: Gary & Katherine White Lease Gary & Katherine White	Antero Resources Corporation	1/8+	335A/0552
R: Gordon F. & Regeena S. Yost Lease Gordon F. & Regeena S. Yost	Antero Resources Corporation	1/8+	289A/0692
AK: Shiben Estates, Inc. Lease Shiben Estates, Inc.	Antero Resources Corporation	1/8+	Approved Pooling
AL: WVDNR Lease WVDNR	Antero Resources Corporation	1/8+	323A/0541
AK: Shiben Estates, Inc. Lease Shiben Estates, Inc.	Antero Resources Corporation	1/8+	Approved Pooling
AU: Chesapeake Appalachia, LLC Lease Chesapeake Appalachia, LLC SWN Production Company Antero Exchange Properties LLC	SWN Production Company Antero Exchange Properties LLC Antero Resources Corporation	1/8 Assignment Merge RECEIVED	157A/0640 177A/0533 0013/0311
AW: Mary E. Snider Lease Mary E. Snider	Antero Resources Corporation	Office of Oil and Gas OCT 0 2 2023	250A/0322
AX: Shiben Estates, Inc. Lease Shiben Estates, Inc.	Antero Resources Corporation	WV Department of 1/8+ Environmental Protection	312A/0021

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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
AY: Barbara Anne Amos King Lease Barbara Anne Amos King	Antero Resources Corporation	1/8+	293A/0650
AZ: Valerie Preat Lease Valerie Preat	Antero Resources Corporation	1/8+	294A/0049
BC: Nancy B. Hatfield, et al Lease Nancy B. Hatfield, et al	Antero Resources Corporation	1/8+	Approved Pooling
BD: Charles J. Stillwagoner, et ux Lease Charles J. Stillwagoner, et ux	Antero Resources Corporation	1/8+	316A/0503
BB: Nancy B. Hatfield, et al Lease Nancy B. Hatfield, et al Lease	Antero Resources Corporation	1/8+	Approved Pooling
BF: John D. Morgan, et ux Lease John D. Morgan, et ux	Antero Resources Corporation	1/8+	Approved Pooling
BG: Fern Nuhring Lease Fern Nuhring	Antero Resources Corporation	1/8+	Approved Pooling
BE: Ryann Wade, Sr., et al Lease Ryann Wade, Sr., et al	Antero Resources Corporation	1/8+	Approved Pooling

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WV Department of Environmental Protection

**Pooling/Unitization – Antero has filed a horizontal well unitization application with the West Virginia Oil and Gas Conservation Commission that seeks to pool certain owners in this tract.

^{*}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.

^{*}Co-tenancy utilization – Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with development of certain royalty owners' interests in this tract.

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

BH: Nancy B. Hatfield, et al Lease

Nancy B. Hatfield, et al Antero Resources Corporation 1/8+ Approved Pooling

*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.

*Co-tenancy utilization – Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with the development of certain royalty owners' interests in this tract.

**Pooling/Unitization — Antero has filed a horizontal well unitization application with the West Virginia Oil and Gas Conservation Commission that seeks to pool certain owners in this tract.

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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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 Lecly		
Its:	Senior Vice President of Land		

Page 1 of 1



west virginia department of environmental protection

Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-414-1239

Randall M. Albert, Chairman dep.wv.gov

322-339

DOCKET NO.

ORDER NO.

BEFORE THE OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF WEST VIRGINIA

IN THE MATTER OF THE REQUEST BY ANTERO RESOURCES CORPORATION FOR AN ORDER FROM THE COMMISSION ESTABLISHING A DRILLING UNIT AND POOLING OF UNLEASED TRACTS AND INTERESTS OF OIL AND GAS OWNERS AND OPERATORS WHO HAVE NOT ENTERED INTO VOLUNTARY AGREEMENTS ALLOWING FOR THE DEVELOPMENT AND OPERATION OF THE GAUSS UNIT CONSISTING OF 308.81 ACRES, TO BE LOCATED IN GREEN DISTRICT, WETZEL COUNTY, WEST VIRGINIA

REPORT AND ORDER OF THE COMMISSION

On July 19, 2023, the Applicant, Antero Resources Corporation ("Antero"), appeared by its counsel Bridget D. Furbee and Garrett M. Spiker, of Steptoe & Johnson PLLC, at a hearing before the West Virginia Oil and Gas Conservation Commission (the "Commission") upon Antero's application dated June 15, 2023 (the "Application") to form a drilling unit pursuant to West Virginia Code § 22C-9-7a, the Gauss Unit as shown on Exhibit A attached hereto and incorporated herein (the "Unit"), located in Wetzel County, West Virginia, having as its target formation the Marcellus Shale, located from the top of the Tully Formation to the base of the Marcellus (the "Target Formation"), consisting of 308.81 acres, and to drill one shallow horizontal well identified as the Gauss 1H Well (the "Well").

At the commencement of the hearing, the Commission entered into the Record the following WV Department of exhibits: Exhibit 1-Notice of Hearing and Certified Mail Receipts; Exhibit 2-Notice of Hearing Wested Protection

SOS); Exhibit 3-Affidavit of Publication; Exhibit 4-Application with Exhibits; and Exhibit 5-Report of Economic Reviewer. Based upon the exhibits and presentation of testimony from Antero at the hearing, the Commission hereby forms the Gauss Unit.

Ms. Kelsey Silipo, Senior Landman for Antero, is an experienced Certified Professional Landman who holds the following degrees: Bachelor of Business Administration (University of Colorado); Master of Energy Business (University of Tulsa); and Master of Business Administration (University of North Carolina). Ms. Silipo testified as to the current status of the executive royalty interests Antero proposed to force pool and described Antero's good faith efforts to locate and negotiate with owners that were unleased. Additionally, Ms. Silipo testified that certain of such executive royalty interests in the Unit are unknown or unlocatable executive royalty owners ("UUOs") and further testified as to the efforts made by Antero to identify and locate those UUOs. At the time the Application was filed, Ms. Silipo testified that 99% of the net acreage in the Unit was held by executive royalty interest owners who had consented or otherwise agreed to the unitization of the tracts in the Unit, which had increased slightly as of the date of the hearing.

Ms. Silipo also testified that at the time the Application was filed, 99% of the net acreage in the Unit was held collectively by Antero and other working interest owners who had consented to the unitization of the Unit, which was unchanged at the time of the hearing. Ms. Silipo described Antero's efforts to negotiate with all non-consenting working interest owners.

Ms. Silipo testified that the Unit is necessary to prevent waste from acreage that would otherwise be stranded or uneconomical to produce unless it is included in this Unit. Further, Ms. Silipo testified that an order from the Commission is necessary to develop the Unit acreage in order to protect the correlative rights of owners in the Unit consistent with the public policy of West Virginia to conserve and develop the state's natural resources. Additionally, Ms. Silipo testified that she had compiled a summary of confidential royalty and bonus information for the unitized leasehold acreage within the Unit, which was

submitted on July 7, 2023 to Mr. Ryan Nestor, CPA, CGMA, of Tetrick & Bartlett, PLLC in Fairmont, West Virginia. Mr. Nestor was selected by the Commission as an independent third-party reviewer for the purpose of reviewing the confidential data pursuant to West Virginia Code § 22C-9-7a(g)(4), et seq. Ms. Silipo confirmed that the information submitted was true and accurate as of June 20, 2023, and that no material changes had occurred since submission of the data. Further, Ms. Silipo testified that Antero had

no objections to Mr. Nestor's Economic Summary Report (Exhibit 5).

Mr. Brett Fisher, Senior Reservoir Engineer for Antero, holds a Bachelor of Mechanical Engineering degree from Texas Tech University, and has worked as an engineer in the industry for thirteen years. Mr. Fisher testified that the ~308-acre Unit and corresponding Well are designed to maximize production from the Unit, and that it is not practical to develop the Target Formation from vertical wells. Further, Mr. Fisher testified that the Unit and Well as planned will prevent waste, avoid the stranding of acreage, and protect the rights of the owners in the Unit. Lastly, Mr. Fisher testified that he assisted in the process of determining the lease bonus prices paid for rights to the Marcellus in multi-formation leases. He concluded that the value of the lease bonus paid for the Marcellus in such multi-formation leases should be allocated at 80% of the total paid.

Mr. Ryan O'Hara, Senior Geologist for Antero, holds a Bachelor of Geology degree from the University of Colorado and a Master's in Geology from the Colorado School of Mines. Mr. O'Hara testified that the Target Formation in the Unit is a pool or part of a pool of hydrocarbons with consistent thickness and rock properties in the region of the Unit; therefore, it was appropriate to allocate production from the Unit on a surface acreage or net mineral acre basis. Mr. O'Hara testified that the Unit and the 16,100' lateral Well are designed to effectively and efficiently drain the Target Formation acreage in the Unit, and that the Unit is necessary to prevent waste and to prevent acreage from being stranded.

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The Commission examined Antero's witnesses at the hearing. None of the interested owners subject to Antero's request to force pool and unitize their interests in the Unit pursuant to Antero's Application appeared or filed an objection to Antero's Application.

Following the testimony, the Commission adjourned for deliberation. Upon return, the Commission approved Antero's Unit Application, modifying the definition of the Target Formation from that contained in the Application.[1] The Commission also approved the findings and conclusions contained within Mr. Nestor's Economic Summary Report.

The Commission hereby makes the following findings of fact and conclusions of law and orders as follows:

FINDINGS OF FACT

- Members of the Commission present at the hearing were Randall M. Albert, Chair, Joe W. Casto,
 James Martin, Robert Radabaugh and Michael McCown, Commissioners. Susan Rose, Commission staff,
 and John Gray, counsel to the Commission, attended as well. Antero's witnesses attended the July 19,
 2023, hearing in person.
- 2. Antero is an operator within the meaning of West Virginia Code § 22C-9-2.
- Antero has met all of the requirements as an applicant that controls the Gauss Unit proposed for unitization under West Virginia Code § 22C-9-7a for proper filing of the Application.
- 4. At the time of the hearing, Antero had obtained the consent to pool the oil and gas interests in the Target Formation in the Unit from approximately 99% of the executory royalty interest owners and 99% of the operators or working interest owners in the Unit.

[1] The change was made to clarify the bottom of the Target Formation, which the Commission ordered to be the base of the Marcellus, as set forth in Page 1, Paragraph 1 of this Report and Order ("Target Formation is located from the top of the Tully Formation to the base of the Marcellus").

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- The owners of those interests in the Unit set forth on <u>Exhibit F</u> to the Application are unknown and unlocatable owners in the Unit.
- 6. The Gauss Unit and Well within the Unit is a horizontal well unit and a well within the meaning of West Virginia Code § 22C-9-2 and West Virginia Code § 22C-9-7a.
- 7. Through the Application and exhibits, and the testimony and exhibits put forth at the hearing, the
- Commission has adequate information to evaluate Antero's requests and make this Report and Order.
- 8. The Commission determines that it is appropriate to allocate the percentage of production from
- the Well in the Unit to each tract or portions of the tract included within the Unit in the proportion that
- each tract's net acreage in the Unit bears to the total net acreage in the Unit, as set forth on Exhibit H to
- the Application.
- 9. The Commission further determines that the 308.81 acres in the Unit will be drained efficiently
- and economically.
- 10. A motion to grant the Order requested by Antero to form the Unit was made and seconded and
- passed by unanimous consent.

CONCLUSIONS OF LAW

- 1. Due and proper notice of time, place and purpose of the hearing has been given in all respects as
- required by law.
- 2. The Commission has jurisdiction over the subject matter and authority to unitize all oil and gas
- interests in the Target Formation in the Unit by this Order.
- 3. The hearing was property convened, and a quorum of Commissioners were present.
- 4. Antero is an experienced, qualified operator of horizontal wells.

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- 5. Pursuant to West Virginia Code § 22C-9-7a(e)(1), the Commission has evaluated and considered all of the requirements set forth therein and concluded that the Application complies with the statute.
- 6. The testimony presented and exhibits admitted at the hearing regarding the proposed Gauss Unit and proposed Well were adequate for the Commission to review the Unit, the Well and to enter this Order.
- 7. The Commission incorporates all of the exhibits entered into the record at the July 19, 2023 hearing, including but not limited to the Application and exhibits attached thereto, into this Report and Order.
- 8. The requested Unit is necessary to promote the exploration for and development, production, utilization, and conservation of oil and gas resources of the Target Formation in the Unit.
- The 308.81-acre Unit will efficiently and economically drain the oil and gas reserves in the Unit acreage and prevent stranded acreage.
- 10. The Unit will prevent waste, promote conservation, exploration, development and maximum recovery of oil and gas, and protect the correlative rights of owners and operators such that each will receive a just and equitable share of production.
- 11. The Unit is approved as submitted with the Application and is formed with respect to the oil and gas in the Target Formation as set forth herein at the location shown on Exhibit A attached to this Report and Order.

ORDER

1. With respect to the Target Formation, the Commission hereby forms the Gauss Unit as more particularly described on Exhibit A attached hereto as to all interests in the oil and gas in the Unit, including the interests of any unknown and unlocatable owners, and the Unit is hereby pooled for the drilling, production and sale of oil and gas from the Unit, notwithstanding the lack of adequate consensual rights allowing the pooling or unitization of oil and gas across tract lines.

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2. Antero is hereby appointed Operator of the Gauss Unit and is authorized to drill, complete, and

produce the shallow horizontal Well in the Target Formation in the Unit.

3. The Operator shall divide and allocate revenue from production from the Well drilled within the

Unit to the tracts, or portions thereof, in the Unit on the basis of acreage in a tract or portion thereof

included within the Unit in relation to the total acreage in the Unit.

4. That portion of the production allocated to each tract or portion of the tract included in the Unit

shall, when produced, be considered for all purposes to have been actually produced from such tract

within the Unit by the Well drilled and producing thereon.

The royalty with respect to each tract, or portion thereof, within the Unit shall be allocated to the

royalty owners in that tract (calculating partial interests on a pro rata basis for royalty interest on any

parcel owned in common) in proportion to the acreage of that tract, or portion thereof, in the Unit, to the

total acreage in the Unit.

6. All reasonable costs and expenses of drilling, completing, equipping, operating, plugging and

abandoning such Well shall be borne, and all production therefrom shared, by all owners of operating

interests who elect to participate in the Well to be drilled in the Unit in the proportion that their net oil or

gas operating interest acreage in the Unit bears to the total acreage in the Unit.

7. All operations, including, but not limited to, the commencement, drilling and/or operation of a

horizontal well upon any portion of the Unit shall be deemed for all purposes the conduct of such

operations upon each separately owned tract or portion of the tract in the Unit.

8. Under West Virginia Code § 22C-9-7a(f)(18), all property, and interests therein, that lie within the

Unit are hereby included in the Unit. This Order shall be binding on the property subject to the Unit and

all interest owners of the property and their heirs, representatives, successors, and assigns.

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9. In accordance with West Virginia Code § 22C-9-7a(f)(8), no unitization consideration is required to be paid to any royalty owner who has consented or agreed to pooling or unitization by virtue of the terms contained in an oil and gas lease, or other agreement which permits pooling or unitization.

Owners of Property Not Subject to an Oil and Gas Lease

- Antero shall send a copy of this Order to any unleased executive interest owners whose addresses
 are known to Antero.
- 11. None of those unleased executive interest owners have elected to surrender their interest or to participate in the Gauss 1H Well.
- 12. Therefore, unleased executive interest owners shall be considered leased, and shall be paid a one-time bonus payment per net mineral acre owned within the Unit of Two Thousand Nine Dollars and Forty-Two Cents (\$2,009.42). Additionally, the executive interest owner shall receive a production royalty for the gas, oil, and natural gas liquids produced and sold of 20%. The production royalty payable to such unleased owners shall be paid at the time Antero pays royalties to other lessors in the Unit in the regular course of business and as required by 22C-9-7a.

Owners of Property Subject to Oil and Gas Leases Who Have Not Consented to Pooling and Unitization

Royalty owners of leased tracts who have not consented to pooling or unitization of their interests in the Unit shall be paid by the participating operators in the Unit, in accordance with West Virginia Code § 22C-9-7a(f)(6), a one-time bonus payment of Five Hundred Two Dollars and Thirty-Six Cents (\$502.36)[2] per net mineral acre owned within the Unit and shall receive a production royalty of 15.4%;[3] provided that the royalty shall not be less than the royalty percentage set forth in the existing lease. The production royalty payable to any such leased owners with insufficient pooling rights shall be

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WV Department of
Environmental Protection

paid at the time Antero pays royalties to other lessors in the Unit in the regular course of business and as required by 22C-9-7a.

Third-Party Operators

- 14. Third-party operators owning interests in the Target Formation in the Unit who have not elected to participate in the risk and cost of drilling the Gauss 1H Well through a voluntary agreement prior to entry of this Order shall be force pooled and considered to participate in the drilling of the Well on a carried basis pursuant to the terms of the joint operating agreement included in the Application.
- 15. With respect to any unknown and unlocatable interest owner that is force-pooled, Antero, as operator, shall be required to separately account for the unitization consideration and any royalties due such owner by placing the funds in suspense in order to calculate any interest that might accrue to such owner.
- 16. In accordance with West Virginia Code § 22C-9-7a(f)(6), Antero, all royalty owners, and owners of leasehold, working interest, overriding royalty interest and other interests in the oil and gas in the Unit are bound by this Order and the remaining lease terms, including other terms related to the payment of royalties.

^[3] Based on 80% of the weighted average production royalty paid to other executive interest owners of leased tracts in the Unit in the Target Formation, or 19.3%.



^[2] Based on 25% of the weighted average monetary bonus paid per net mineral acre to other executive interest owners of leased tracts in the Unit in the Target Formation, or \$2,009.42.

The pooling and unitization for production of oil and gas from the Target Formation from all tracts in the Unit as set forth in this Order shall continue until the Well is no longer capable of producing oil or gas or until the Commission orders otherwise.

IT IS SO ORDERED.

IN THE NAME OF THE STATE OF WEST VIRGINIA

OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF WEST VIRGINIA

Dated this 9th day of August, 2023, at Charleston, West Virginia.

State of West Virginia

County of Kanawha

This instrument was acknowledged before me this 9th day of August, 2023, by Randall M. Albert, Chairman of the Oil and Gas Conservation Commission of The State of West Virginia.

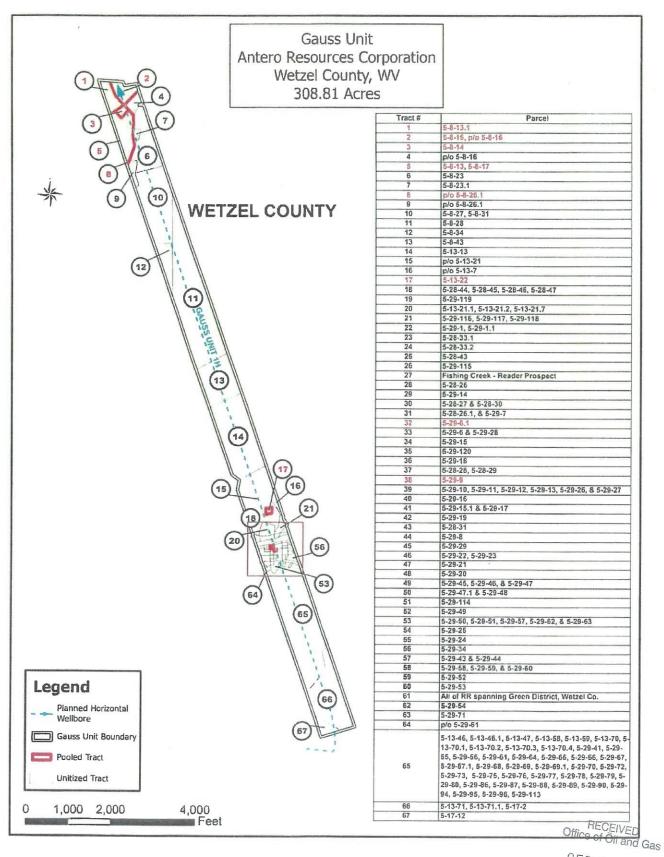
(Notarial Seal)

Notary Public

My Commission Expires: 12 16-24

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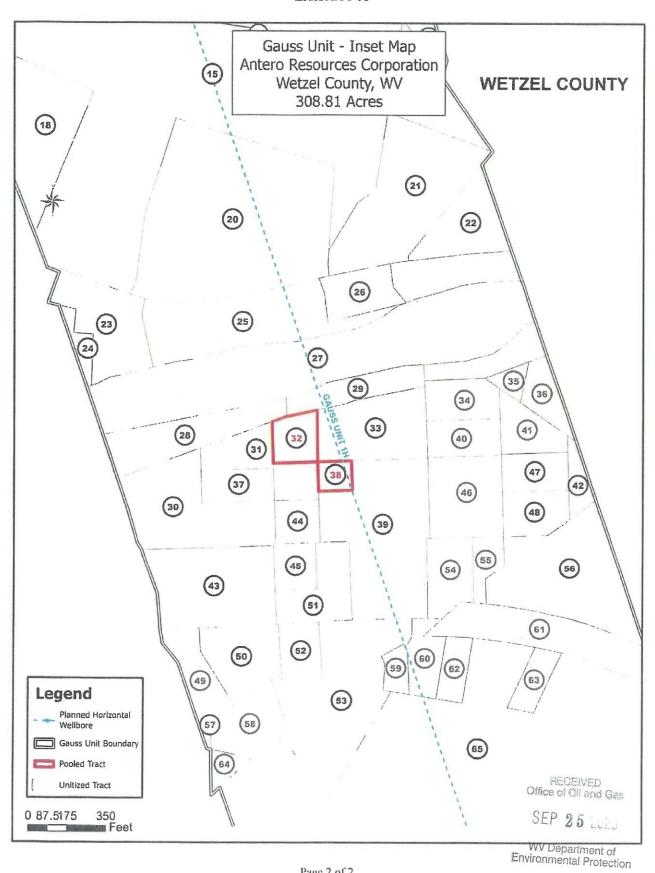
EXHIBIT A



Page 1 of 2

SEP 25 2023

EXHIBIT A



Page 2 of 2



September 1, 2023

West Virginia Department of Environmental Protection Office of Oil and Gas Attn: Mr. Taylor Brewer 601 57th Street Charleston, WV 25304 Antero Resources 1615 Wynkoop Street Denver, CO 80202 Office 303.357.7310 Fax 303.357.7315

Mr. Brewer:

Antero Resources Corporation (Antero) would like to submit the following permit modifications for approved well on the existing Furbee Pad: Gauss Unit 1H (47-103-03585).

Attached you will find the following:

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

If you have any questions please feel free to contact me at (303) 357-6959.

Thank you in advance for your consideration.

Sincerely,

Stefan Gaspar Permitting Agent

Antero Resources Corporation

Enclosures

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