



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

Wednesday, October 4, 2023
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for GAUSS UNIT 2H
47-103-03586-00-00

Lateral Extension

ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over a faint, larger version of the signature.

James A. Martin
Chief

Operator's Well Number: GAUSS UNIT 2H
Farm Name: ANTERO RESOURCES CORP
U.S. WELL NUMBER: 47-103-03586-00-00
Horizontal 6A New Drill
Date Modification Issued: 10/04/2023

Promoting a healthy environment.

10/06/2023

4710303586

WW-6B
(04/15)

API NO. 47-103 - 03586
OPERATOR WELL NO. Gauss Unit 2H MOD ✓
Well Pad Name: Furbee Pad

CK # 4024088
\$ 2500⁰⁰

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 - Wetz Green Pine Grove 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Gauss Unit 2H 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: 27500' MD ✓

11) Proposed Horizontal Leg Length: 17538' *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: _____
Seam: _____
Owner: _____

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WV Department of
Environmental Protection

JMY
9-20-23
10/06/2023

WW-6B
(04/15)

API NO. 47-103 - 03586
 OPERATOR WELL NO. Gauss Unit 2H 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#	27500'	27500' ✓	CTS, 6002 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

TYPE	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			
Depths Set:	N/A			

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Environmental Protection

Page 2 of 3

JM
10/06/2023
9-26-23

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

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25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

*Note: Attach additional sheets as needed.

LEGEND

- ⊙ Proposed gas well
- ⊛ Existing Well, as noted
- ⊛ Digitized Well, as noted



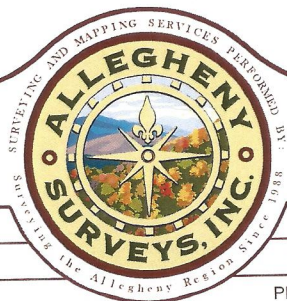
The orientation of this survey is Grid North, and its coordinate base is the West Virginia Coordinate System of 1927, North Zone

Gauss 2H (47-103-03586)

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Office of Oil and Gas

SEP 21 2023

WV Department of
Environmental Protection



Bridgeport Office
Phone: (304) 848-5035
Fax: (304) 848-5037

172 Thompson Drive
Bridgeport, WV 26330

PARTY CHIEF: C. Lynch	DRAWN BY: J. Smith
RESEARCH: J. Miller	PREPARED: August 24, 2023
SURVEYED: Dec. 2016	PROJECT NO: 121-34-G-18
FIELD CREW: C.L., K.M.	DRAWING NO: Gauss 2H BHL MOD AOR

Sheet 1 of 1

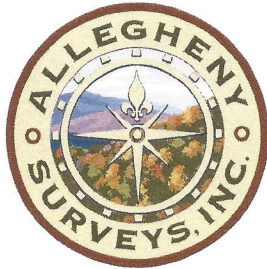


Scale: 1 inch = 2000 feet

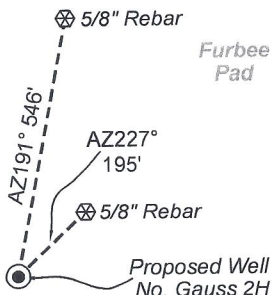
10/06/2023

**Antero Resources
Well No. Gauss 2H**

Antero Resources Corporation

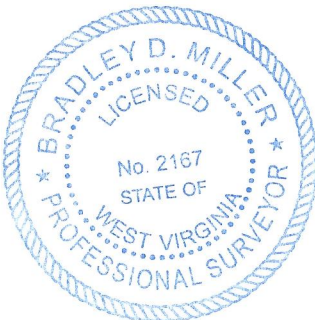


Well Location References (NTS)

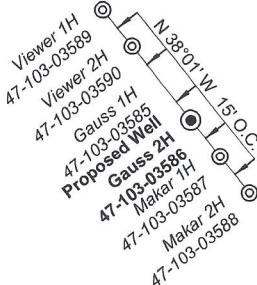


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller
Bradley D. Miller, P.S. 2167

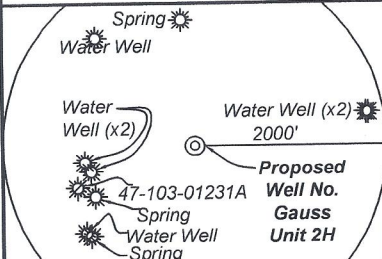


Wellhead Layout (NTS)

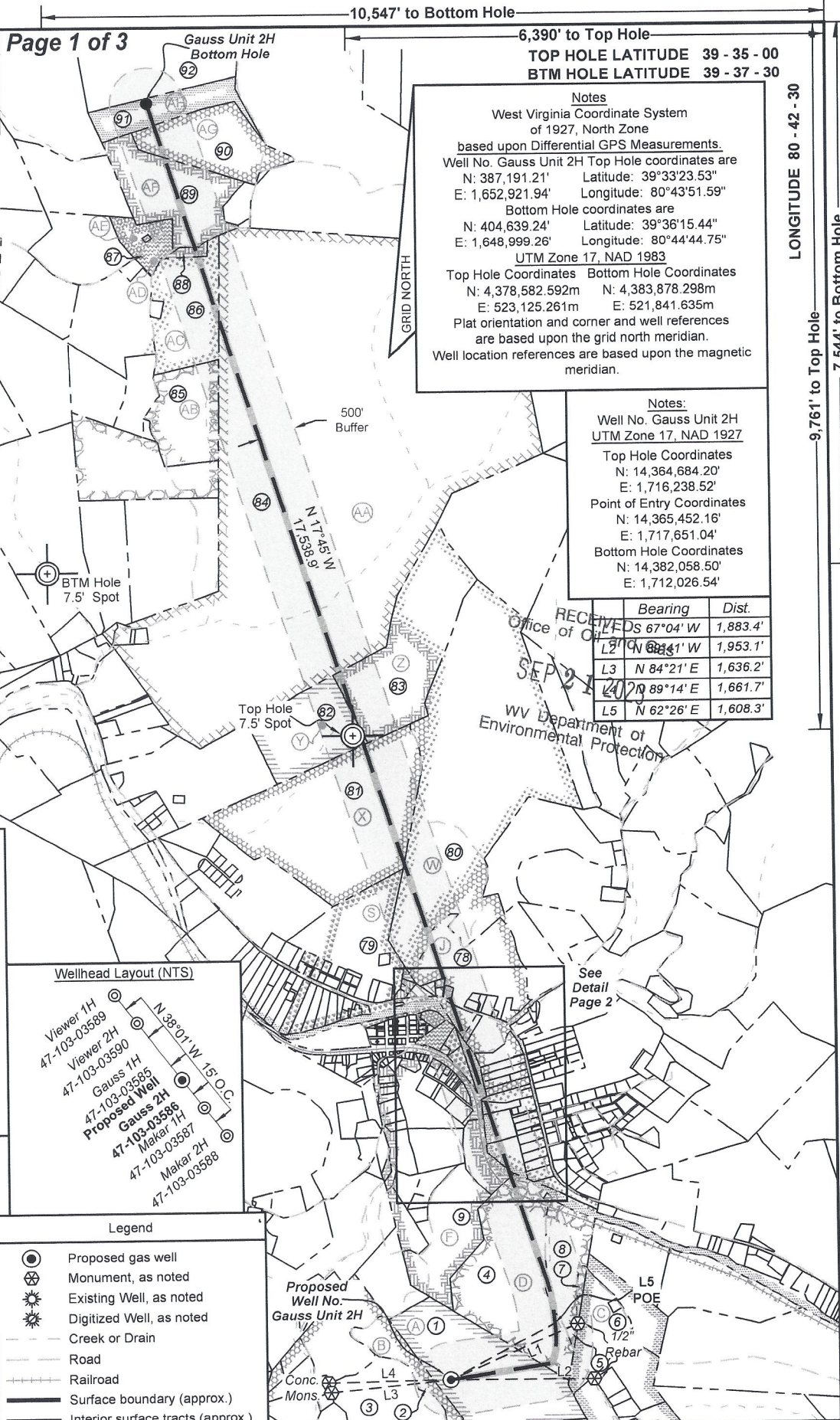


Legend

- Proposed gas well
- Monument, as noted
- Existing Well, as noted
- Digitized Well, as noted
- Creek or Drain
- Road
- Railroad
- Surface boundary (approx.)
- Interior surface tracts (approx.)



Note: 6 water wells and 3 springs were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



TOP HOLE LATITUDE 39 - 35 - 00
BTM HOLE LATITUDE 39 - 37 - 30

Notes
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Well No. Gauss Unit 2H Top Hole coordinates are
N: 387,191.21' Latitude: 39°33'23.53"
E: 1,652,921.94' Longitude: 80°43'51.59"
Bottom Hole coordinates are
N: 404,639.24' Latitude: 39°36'15.44"
E: 1,648,999.26' Longitude: 80°44'44.75"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,378,582.592m N: 4,383,878.298m
E: 523,125.261m E: 521,841.635m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

Notes:
Well No. Gauss Unit 2H
UTM Zone 17, NAD 1927
Top Hole Coordinates
N: 14,364,684.20'
E: 1,716,238.52'
Point of Entry Coordinates
N: 14,365,452.16'
E: 1,717,651.04'
Bottom Hole Coordinates
N: 14,382,058.50'
E: 1,712,026.54'

	Bearing	Dist.
DS	67°04' W	1,883.4'
L2	N 88°41' W	1,953.1'
L3	N 84°21' E	1,636.2'
L4	N 89°14' E	1,661.7'
L5	N 62°26' E	1,608.3'

FILE NO: 121-34-G-18
DRAWING NO: Gauss Unit 2H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: WV DOT, Harrisville, WV

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

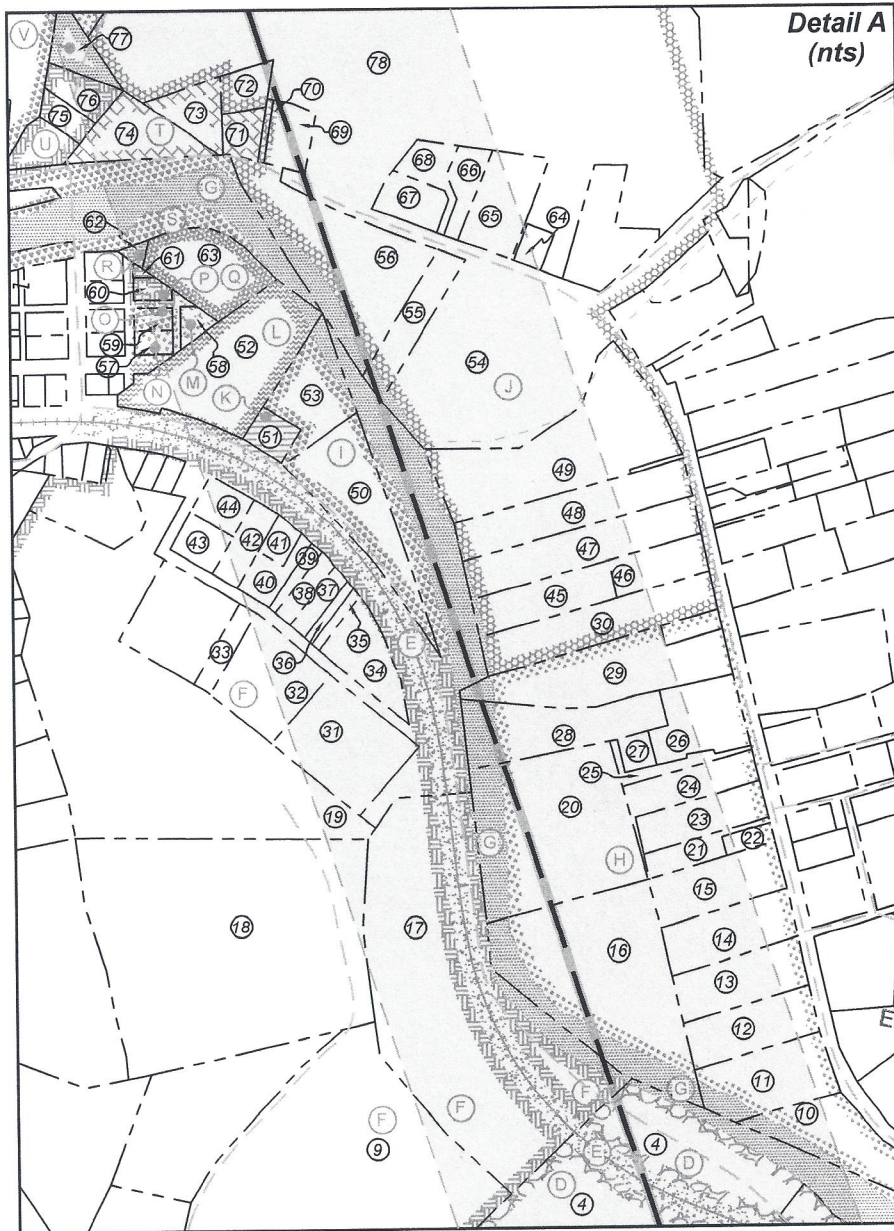
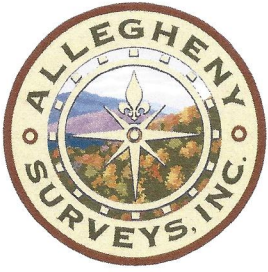
DATE: September 6 2023
OPERATOR'S WELL NO. Gauss Unit 2H
API WELL NO
47 - 103 - 03586
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Built 1211' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
DISTRICT: Green COUNTY: Wetzel
SURFACE OWNER: Antero Resources Corp. ACREAGE: 58.1
ROYALTY OWNER: James Allen Sell 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 7,500' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 27,500' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
Denver, CO 80202 Bridgeport, WV 26330

10/06/2023



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FILE NO: 121-34-G-18
DRAWING NO: Gauss Unit 2H 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 6 2023
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API WELL NO
47 — 103 — 03586
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Denver, CO 80202 Bridgeport, WV 26330

**Antero Resources
Well No. Gauss 2H**

Antero Resources Corporation



Leases	
A	James Allen Sell
B	William R. Stalnaker
C	Tribune Resources Minerals, LLC
D	Marilyn Halley Seeley
E	CSX Transportation, Inc.
F	Antero Minerals, LLC
G	WVDNR
H	Antero Minerals, LLC
I	Antero Minerals, LLC
J	Antero Minerals, LLC
K	Trinity UMC
L	Timothy Lynn & Michael A. McDiffitt
M	Donald L. & Cshawn L. Smith
N	Darla J. Brinker
O	Donald L., II & Cshawn L. Smith
P	Daniel Melott
Q	Kevin Cunningham, et ux
R	Kevin Cunningham, et ux

Leases	
S	Shiben Estates, Inc.
T	Ronald M. Jackson, et ux
U	Brent A. Whipkey
V	Phillip W. Wiley
W	Chesapeake Appalachia, LLC
X	Chesapeake Appalachia, LLC
Y	Mary E. Snider
Z	BRC Minerals, LP & BRC Appalachian Minerals I, LLC
AA	Shiben Estates, Inc.
AB	Valerie Preat
AC	Nancy B. Hatfield, et al
AD	Ryann Wade, Sr., et al
AE	Nancy B. Hatfield, et al
AF	Cylde B. Snider
AG	Donzel A. Hornbeck
AH	Elizabeth P. Orner

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	17-2	Clarence & Carol Lancaster	287/357	0.50
6	17-3	Bradford Highley	386/607	17.00
7	17-3.1	Bradford D. Highley	386/607	1.00
8	13-71.1	Clarence L. & Carol J. Lancaster	387/266	19.19
9	13-70	Doris Ruth Haught, et al	AP112/912	33.78
10	30-23.1	Michael A. McDiffitt	447/102	2.06
11	30-23	Charles R. & Kay Blair	312/585	1.20
12	30-23.2	Charles R. & Kay L. Blair	305/372	1.00
13	30-21	Robert Dennis Lawson	326/512	1.00
14	30-20	Esther R. Coen	433/68	1.00
15	30-19	Zachary C. Propst	431/280	1.00
16	30-22	James E. & Shawn L. Coen	342/489	3.00
17	13-47	Charles J. Stillwagoner III	460/921	8.00
18	29-69.1	Donald L. II & Cshawn L. Smith	350/465	8.80
19	29-69	Leroy E. & Virginia R. Derby	278/70	10.20
20	30-13	Kathy L. Wright	WB75/465	4.74
21	30-18	Laura A. Hicks	439/363	0.37
22	30-17	Laura A. Hicks	439/363	0.15
23	30-16	Thomas R. & Paula C. Loy	393/683	0.77
24	30-15	Reva E. Shanholtzer	WB44/164	0.73
25	30-14.1	Reva E. Shanholtzer	WB44/164	0.25
26	30-13	Kathy L. Wright	W75/4605	4.74
27	30-14	Kathy L. Wright	428/931	0.18
28	30-13.1	Joshua R. Wright	370/13	1.53
29	30-12	Kenneth R. & Charlene Ice	319/352	1.97
30	30-10	Eric & Estella Hayes	409/390	1.25
31	29-96	Brenda Ellen Glasscock	472/33	1.65
32	29-95	Brian Keith Haught	420/216	1.26
33	29-94	Brian Keith Haught	420/216	0.27
34	29-89	Brenda Ellen Glasscock	472/33	0.61
35	29-88	Brian Keith Haught	420/216	0.10
36	29-87	Russell Craig Bates	429/422	0.10
37	29-86	Russell Craig Bates	429/422	0.21
38	29-79	James Stacey Anderson	402/596	0.22
39	29-78	James Stacey Anderson	402/596	0.13
40	29-77	Roland Lee & Jo Ann Pittman	333/528	0.32
41	29-76	Roland Lee & Jo Ann Pittman	333/528	0.18
42	29-75	Janet Lea Higginbotham	WB 8/638	0.38
43	29-80	John M. & Robin Lynn Pittman	295/446	0.30
44	29-73	John M. & Robin Lynn Pittman	295/446	0.33
45	30-9	Jerry D. & Joyce Martin	339/379	0.85
46	30-9.1	Jerry D. & Joyce Martin	339/379	0.57

ID	TM-Par	Owner	Bk/Pg	Acres
47	30-8	Robert J. Yeager	310/433	1.25
48	30-7	Jerry Lee & Karen Beryl Mason	365/533	1.25
49	13-24.1	Jerry Lee & Karen Beryl Mason	235/9	3.10
50	29-37	Trinity United Methodist	294/260	2.25
51	29-36	Trinity United Methodist	---/---	0.23
52	29-34	Timothy Lynn & Michael Allen McDiffitt	399/54	2.32
53	29-35	Benjamin R. & Tammy Y. Highley	423/99	1.00
54	13-24	Howard D. & Clara M. Bucher	367/144	34.02
55	13-24.8	Doris J. Miller	367/84	0.70
56	13-24.4	Doris J. Miller	344/20	2.35
57	29-20	Darla J. Brinker	371/308	0.14
58	29-19	Dillon Leroy Edgell	444/504	0.15
59	29-21	Cathy Brown	399/473	0.14
60	29-17	Daniel Melott	483/851	0.12
61	29-15.1	Daniel Melott	483/851	0.03
62	29-120	Kevin E. & Carol L. Cunningham	432/231	0.06
63	29-18	Kevin E. & Carol L. Cunningham	432/231	1.00
64	13-29	Howard D. & Clara M. Bucher	367/144	0.17
65	13-24.7	Jerry L. & Karen B. Mason	367/79	0.91
66	13-24.6	Jerry L. & Karen B. Mason	367/74	0.35
67	13-24.5	Marilyn K. Daugherty	MS89/328	0.45
68	13-24.9	Nila E. Nice	431/653	0.37
69	29-5	U.S. Postal Service	348/289	0.43
70	29-4	Ronald & Pamela Jackson	383/595	0.06
71	29-3	Ronald & Pamela Jackson	383/595	0.75
72	29-2	Ronald & Pamela Jackson	383/595	0.55
73	29-1.1	Ronald M. & Pamela A. Jackson	320/38	0.56
74	29-1	Ronald M. & Pamela A. Jackson	320/38	1.00
75	29-117	Brent A. Whipkey	411/154	0.18
76	29-118	Brent A. Whipkey	411/154	0.34
77	29-119	Phillip Wiley	368/706	0.42
78	13-24	Howard D. & Clara M. Bucher	367/144	34.02
79	13-21	Daniel W. & Ruth A. Henderson	244/111	30.95
80	13-7	WSD Properties LLC	441/793	162.00
81	13-13	Linda M. Headley	385/209	85.50
82	8-43	Debra Key Fluharty, et al	368/559	35.00
83	8-41	Nancy Hatfield	267/370	60.00
84	8-28	Nancy B. Hatfield	474/48/1	449.48
85	8-27	Valerie Preat	416/599	16.80
86	8-23	Debra Kay Fluharty, et al	368/561	28.04
87	8-16	Ryann M. Wade, et al	433/830	9.25
88	8-17	Harold L. & Deborah C. Miller	393/500	2.12
89	8-5	Charles J. Jr & Robin D Stillwagoner	367/460	37.87
90	3-36	Donzel A. Hornbeck	459/560	35.00
91	3-35	Richard Hornbeck, et al	483/191	19.50
92	3-27	Ronald E. Wade	433/785	100.00

FILE NO: 121-34-G-18
 DRAWING NO: Gauss Unit 2H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
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 WVDOT, Harrisville, WV

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 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
 Denver, CO 80202 Bridgeport, WV 26330

WW-6A1

Operator's Well Number Gauss Unit 2H MOD

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
<u>A: James Allen Sell Lease</u> James Allen Sell	Antero Resources Corporation	1/8+	258A/0467
<u>D: Marilyn Halley Seeley Lease</u> Marilyn Halley Seeley EQT Production Company	EQT Production Company Antero Resources Corporation	1/8 Assignment	148A/0831 230A/0801
<u>E: CSX Transportation, Inc. Lease</u> CSX Transportation, Inc.	Antero Resources Corporation	1/8+	275A/0895
<u>D: Marilyn Halley Seeley Lease</u> Marilyn Halley Seeley EQT Production Company	EQT Production Company Antero Resources Corporation	1/8 Assignment	148A/0831 230A/0801
<u>F: Antero Minerals, LLC Lease</u> Antero Minerals, LLC	Antero Resources Corporation	1/8+	250A/0851
<u>G: WVDNR Lease</u> WVDNR	Antero Resources Corporation	1/8+	323A/0541
<u>H: Antero Minerals, LLC Lease</u> Antero Minerals, LLC	Antero Resources Corporation	1/8+	250A/0851
<u>G: WVDNR Lease</u> WVDNR	Antero Resources Corporation	1/8+	323A/0541
<u>J: Antero Minerals, LLC Lease</u> Antero Minerals, LLC	Antero Resources Corporation	1/8+	250A/0851
<u>W: Chesapeake Appalachia, LLC Lease</u> Chesapeake Appalachia, LLC SWN Production Company Antero Exchange Properties LLC	SWN Production Company Antero Exchange Properties LLC Antero Resources Corporation	1/8 Assignment Merge	157A/0640 177A/0533 0013/0311
<u>X: Chesapeake Appalachia, LLC Lease</u> Chesapeake Appalachia, LLC SWN Production Company Antero Exchange Properties LLC	SWN Production Company Antero Exchange Properties LLC Antero Resources Corporation	1/8 Assignment Merge	157A/0640 177A/0533 0013/0311
<u>Y: Mary E. Snider Lease</u> Mary E. Snider	Antero Resources Corporation	1/8+	250A/0322
<u>Z: BRC Minerals, LP & BRC Appalachian Minerals I, LLC Lease</u> BRC Minerals, LP & BRC Appalachian Minerals I, LLC BRC Working Interest Company, LLC Chesapeake Appalachia, LLC SWN Production Company Antero Exchange Properties LLC	BRC Working Interest Company, LLC Chesapeake Appalachia, LLC SWN Production Company Antero Exchange Properties LLC Antero Resources Corporation	1/8 Assignment Assignment Assignment Merge	102A/0505 103A/0470 157A/0540 177A/0533 0013/0311

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Office of Oil and Gas
OCT 02 2023
WV Department of
Environmental Protection

10/06/2023

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
✓ <u>AA: Shiben Estates, Inc. Lease</u> Shiben Estates, Inc.	Antero Resources Corporation	1/8+	312A/0021
✓ <u>AC: Nancy B. Hatfield, et al Lease</u> Nancy B. Hatfield, et al	Antero Resources Corporation	1/8+	298A/0727
✓ <u>AF: Clyde B. Snider Lease</u> Clyde B. Snider	Antero Resources Corporation	1/8+	209A/0825
✓ <u>AG: Donzel A. Hornbeck Lease</u> Donzel A. Hornbeck	Antero Resources Corporation	1/8+	221A/0742

*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 – 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

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
/ AH: Elizabeth P. Orner Lease				
	Elizabeth P. Orner	Antero Resources Corporation	1/8+	181A/0086

*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Antero Resources Corporation
By: Tim Rady
Its: Senior Vice President of Land

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WV Department of Environmental Protection