

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, July 10, 2023 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit approval for GAUSS UNIT 2H 47-103-03586-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450

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 Issued: 7/10/2023

API Number:	4710303586	
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PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Also, 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

API NO. 47-103 OPERATOR WELL NO. Gauss Unit 2H
Well Pad Name: 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 - Wetze Green Pine Grove 7.5'
Operator ID	County District Quadrangle
2) Operator's Well Number: Gauss Unit 2H Well Pad	Name: Furbee Pad
3) Farm Name/Surface Owner: Antero Resources Corp. Public Roa	d Access: CR 50
4) Elevation, current ground: As-built 1211 Elevation, proposed p	post-construction:
7\ 117 11 m	erground 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 an Marcellus Shale: 7500' TVD, Anticipated Thickness- 55 feet, Associa	nd Expected Pressure(s): ted Pressure- 2850# RECEIVED
8) Proposed Total Vertical Depth: 7500' TVD	Office of Oil and Gas
9) Formation at Total Vertical Depth: Marcellus	IIIN 1 3 2023
	WV Department of
10) Proposed Total Measured Depth: 12200' MD	Environmental Protection
11) Proposed Horizontal Leg Length: 2209' *Open to modificati	on at a later date
12) Approximate Fresh Water Strata Depths: 575'	
13) Method to Determine Fresh Water Depths: 47103308970000 Offset well 14) Approximate Saltwater Depths: 2284'	records. Depths have been adjusted according to surface elevations.
15) Approximate Coal Seam Depths: 973'	
16) Approximate Depth to Possible Void (coal mine, karst, other): N	one 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:	

Page 1 of 3

API NO. 47- 103

OPERATOR WELL NO. Gauss Unit 2H
Well Pad Name: Furbee Pad

18)

CASING AND TUBING PROGRAM

TYPE		M					
	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#	12200'	12200'	CTS, 2146 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#		.==00	0.0,2110 00.11.
Liners				550-350-553			

TYPE			Wall		A	T	
	Size (in)	Wellbore Diameter (in)	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 AL	~1.18
Intermediate					1000	Oldos / VE	-1.10
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			1.0
Liners						250	FIVED
					•	Office of	EIVED Gas

PACKERS

JUN	13	202	3
WV L	nenta	unent Il Prof	ct ection

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

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API NO. 47- 103

OPERATOR WELL NO. Gauss Unit 2H 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.

RECEIVED Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to suffice of Oil and Gas Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

JUN 1 3 2023 WV Department of Environmental Protection

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

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.

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API Number 47 - 103 0 3 5 8 6

Operator's Well No. Gauss Unit 2H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation OP Code 494507062
Watershed (HUC 10) Fishing Creek Quadrangle Pine Grove 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No 🗸
If so, please describe anticipated pit waste:No pit will be used at this site (Drilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and hauled off site.)
Will a synthetic liner be used in the pit? Yes No If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:
Land Application Underground Injection (UIC Permit Number *UIC Permit # will be provided on Form WR-34 Reuse (at API Number _Future permitted well locations when applicable. API# will be provided on Form WR-34 Off Site Disposal (Supply form WW-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98) Other (Explain
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings removed offsite and taken to landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Surface - Air/Freshwater, Intermediate - Dust/Stiff Foam, Production - Water Based Mud
-If oil based, what type? Synthetic, petroleum, etc. Synthetic
Additives to be used in drilling medium? Please See Attachment
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Drill cuttings stored in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV0109410)
Wetzel County Landfill (Permit #SWF-1021)
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POUND PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information subfillinged on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Company Official Title Director Environmental & Regulatory Compliance Subscribed and sworn before me this day of June 1, 20 23
My commission expires Notary Public STEFAN GASPAR NOTARY PUBLIC
My commission expires NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20224043669 MY COMMISSION EXPIRES NOVEMBER 15, 2026

Operator's Well No. Gauss Unit 2H

Proposed Revegetation Treatment: Acres Disturbed	33.19 acres Prevegeta	ation pH
Lime 2-4 Tons/acre or to corr		
Fertilizer type Hay or straw or Wood Fiber (wi	ll be used where needed)	
Fertilizer amount_500	lbs/acre	
Mulch_ 2-3	Tons/acre	
Access Road "A" (1.79 acres) + Access Road "B	3" (3.15 acres) + Well Pad & Water Containment Pad (1 Stockpiles (14.39 acres) = 33.19 Acres	3.86 acres) + Excess/Topsoil Material
	Seed Mixtures	
Temporary		Permanent
Seed Type lbs/acre	Seed Type	lbs/acre
Annual Ryegrass 40	Crownvetch	10-15
Field Bromegrass 40	Tall Fescue	30
See attached Table IV-3 for additional seed type (Furbee Pad Des	sign) See attached Table IV-4A for a	dditional seed type (Furbee Pad Design
Attach: Maps(s) of road, location, pit and proposed area for lapprovided). If water from the pit will be land applied, in acreage, of the land application area.	nd application (unless engineered plans	including this info have been it, and dimensions (L x W), and
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911 Address 1615 Furbee Ridge Rd. Reader, WV 26167

Well Site Safety Plan **Antero Resources**

Well Name: Furbee Unit 5H, Eckleberry 1H-2H, Lenny 1H-2H, Reader 1H-2H, Viewer 1H-2H, Makar 1H-2H, Gauss 1H-2H

Pad Location: FURBEE PAD

Wetzel County/Green District

GPS Coordinates:

RECEIVED Gas Entrance - Lat 39.554902/Long -80.730989 (NAD83) Pad Center - Lat 39.556880/Long -80.731075(NAD83) Nepartment (NAD83) WV Department of Environmental Protection

Driving Directions:

From Reader: Head northwest onto Border Lane toward Old Mexican Rd. for 16 ft. - sharp left onto CO Rd. 40/2 for 0.3 miles - turn left onto Brush Run Rd. for 466 ft. - turn left onto Furbee Ridge Rd. - access road will be on your left.

Alternate Route:

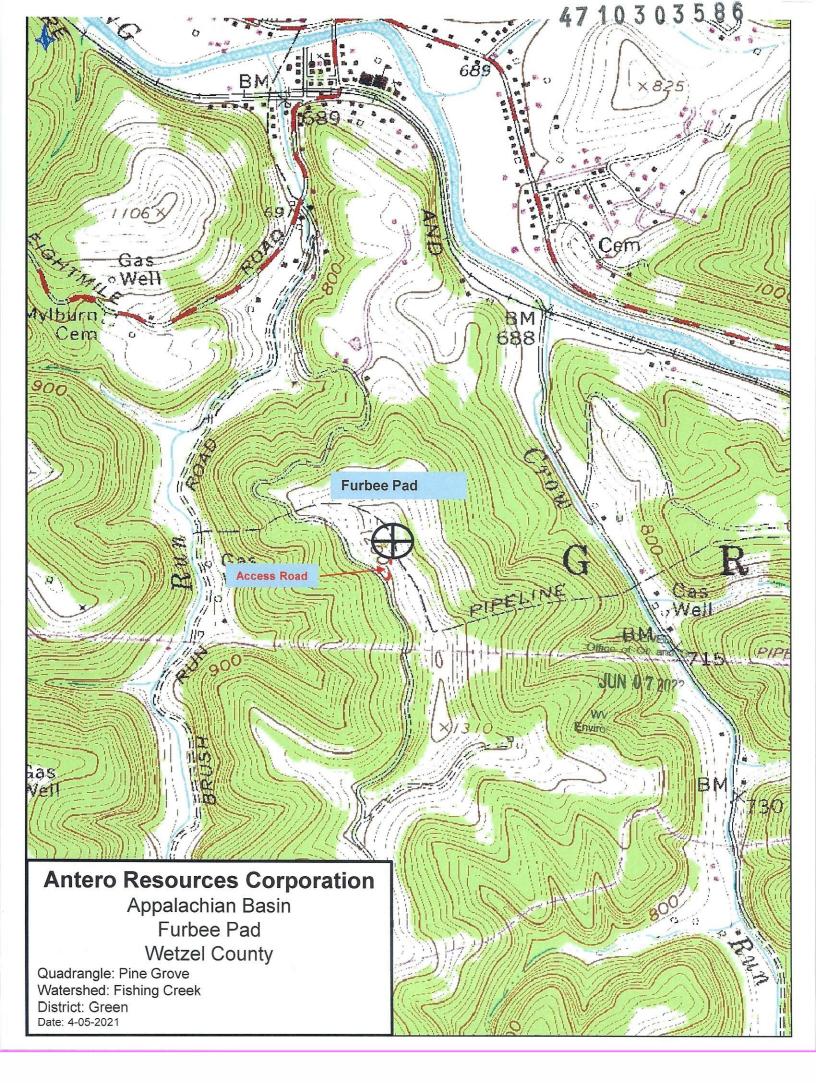
From New Martinsville: head West onto Virginia St. toward 3rd St/Energy Rd for 128 ft. - turn left at the first cross street onto WV-2 S/WV-7E/3rd St. for 0.5 miles - turn left onto WV-7E for 2.8 miles - turn right onto WV-20 for 9.6 miles - turn right onto CO Rd. 40/2 for 0.4 miles - turn left onto Furbee Ridge Rd. - access road will be on your left.

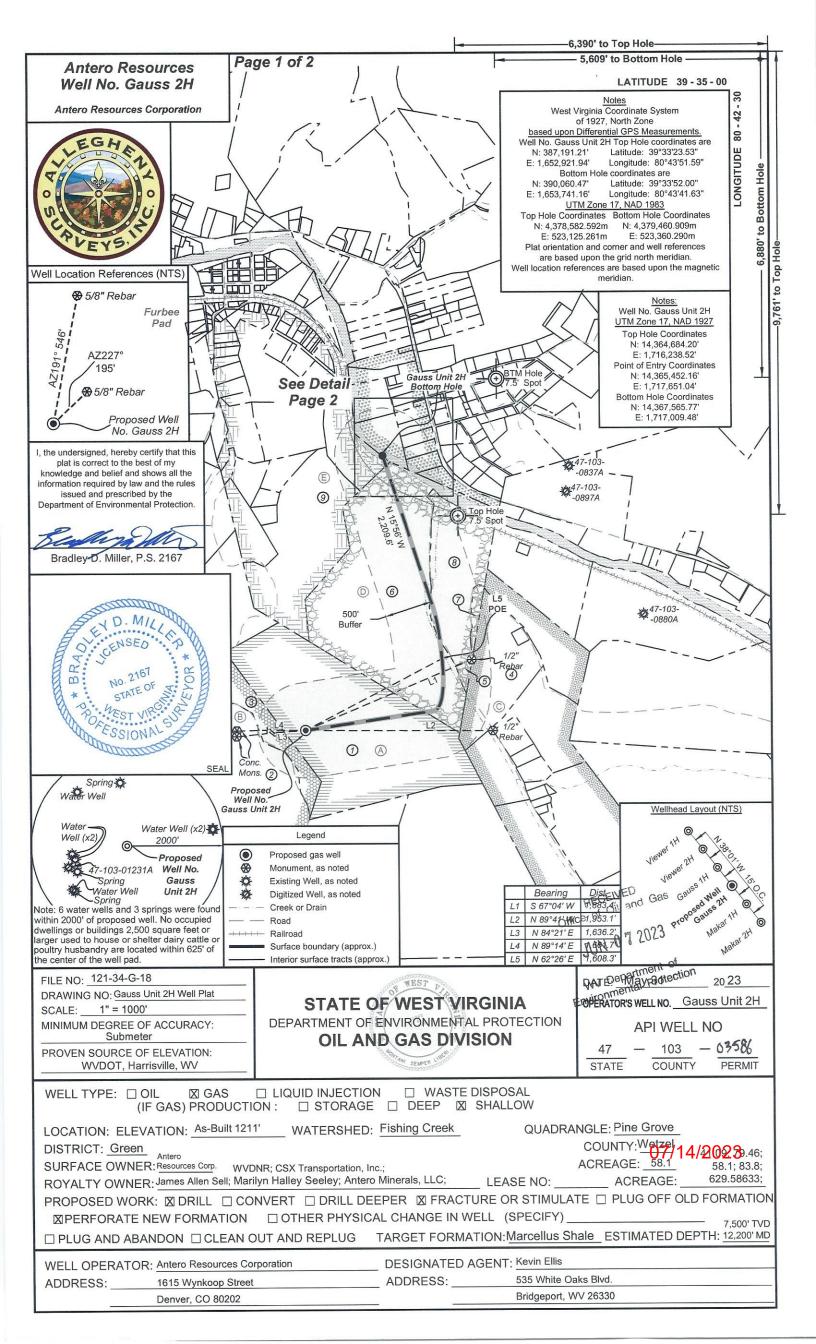
EMERGENCY (24 HOUR) CONTACT 1-800-878-1373

04/05/2021

SSP Page 1



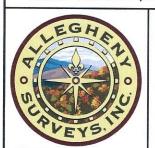




Antero Resources Well No. Gauss 2H

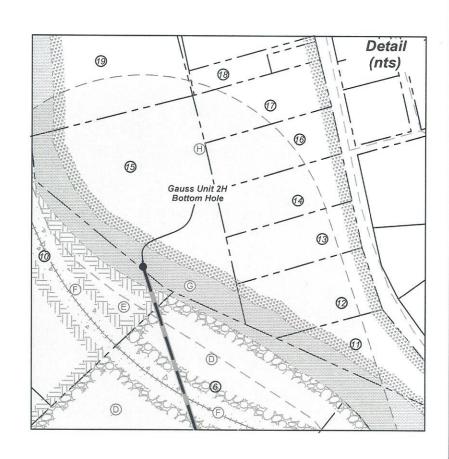
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Antero Resources Corporation



ID	TM-Par	Owner	Bk/Pg	Acres
1	17-12	Antero Resources Corp.	483/888	58.10
2	17-60	Ross Bucher	411/765	79.00
3	17-1	Antero Resources Corp	483/888	15.35
4	17-3	Bradford Highley	386/607	17.00
5	17-2	Clarence & Carol Lancaster	287/357	0.50
6	13-71	Charles R. & Kay L. Blair	387/577	63.11
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	13-47	Charles J. Stillwagoner III	460/921	8.00
11	30-23.1	Michael A. McDiffitt	447/102	2.06
12	30-23	Charles R. & Kay Blair	312/585	1.29
13	30-23.2	Charles R. & Kay L. Blair	305/372	1.00
14	30-21	Robert Dennis Lawson	326/512	1.00
15	30-22	James E. & Shawn L. Coen	342/489	3.00
16	30-20	Esther R. Coen	433/68	1.00
17	30-19	Zachary C. Propst	431/280	1.00
18	30-18	Laura A. Hicks	439/363	0.37
19	30-13	Kathy L. Wright	WB75/551	4.74

	Leases
Α	James Allen Sell
В	William R. Stalnaker
С	Tribune Resources Minerals, LLC
D	Marilyn Halley Seeley
E	Antero Minerals, LLC
F	CSX Transportation, Inc.
G	WVDNR
Н	Antero Minerals, LLC



FILE NO: 121-34-G-18

DRAWING NO: Gauss Unit 2H Well Plat

SCALE: 1" = 1000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

REST

DATE: May 31 20 23

OPERATOR'S WELL NO. Gauss Unit 2H

RECEIVEL L NO

QHICE of Oil and Gas
103 — 035%

STATE IN GOUNTY PERMIT

WELL TYPE: ☐ OIL ☐ GAS ☐ LIQUID INJECTION		DISPOSAL	3011 0 6 202	•
(IF GAS) PRODUCTION : STORAGE	□ DEEP 🛛		WV Department	of
50-1 A C. CO. 10-10-10-10-10-10-10-10-10-10-10-10-10-1	Fishing Creek	QUADRA	ANGEEVIPAR CHAVE Prote	CUON
DISTRICT: Green Antero			COUNTY: Wetzel7/1	4/20236
SURFACE OWNER: Resources Corp. WVDNR; CSX Transportation, In-			ACREAGE: 58.1	58.1; 83.8;
ROYALTY OWNER: James Allen Sell; Marilyn Halley Seeley; Antero			ACREAGE:	
PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DE				
☑PERFORATE NEW FORMATION ☐ OTHER PHYSICA				- 7 500' T\/D
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG	TARGET FORMA	TION:Marcellus S	hale_ESTIMATED DEI	PTH: 12,200' MD
WELL OPERATOR: Antero Resources Corporation	DESIGNATED A	GENT: Kevin Ellis		
ADDRESS: 1615 Wynkoop Street	ADDRESS:	535 White O	aks Blvd.	
Denver, CO 80202	Service State of the Service S	Bridgeport, \	VV 26330	

Operator's Well Number

Gauss Unit 2H

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
D: Marilyn Halley Seeley Lease Marilyn Halley Seeley EQT Production Company	EQT Production Company Antero Resources Corporation	1/8 Assignment	148A/0831 230A/0801
F: CSX Transportation, Inc. Lease CSX Transportation, Inc.	Antero Resources Corporation	1/8+	275A/0895
D: Marilyn Halley Seeley Lease Marilyn Halley Seeley EQT Production Company	EQT Production Company Antero Resources Corporation	1/8 Assignment	148A/0831 230A/0801
E: Antero Minerals, LLC Lease Antero Minerals, LLC	Antero Resources Corporation	1/8+	250A/0851



^{*}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

WW-6A	
(5/13)	

Operator's	Well No.	Gauss	Unit 2H
operator b			

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:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
G: WVDNR Lease				
	WVDNR	Antero Resources Corporation	1/8+	323A/0541

*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 affected activity is initiated.

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

Page 2 of 2

May 31, 2023

West Virginia Department of Environmental Protection Chief, Office of Oil and Gas Attn: Mr. James Martin 601 57th Street SE Charleston, WV 25304

RE:

Gauss Unit 2H

Quadrangle: Pine Grove 7.5'

Wetzel County/Green District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Gauss Unit 2H horizontal shallow well. As an authorized representative, I certify that Antero has the right to extract, produce or market the oil or gas for all leases through which the Gauss Unit 2H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Kelsey Silipo Sr. Landman

KelnereSlipe

07/14/2023

Wy Department of Environmental Protection

WW-PN (11-18-2015)

Horizontal Natural Gas Well Work Permit **Application Notice By Publication**

Notice	is	hereby	given:
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Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: The Wetze	el Chronicle			
Public Notice Date	e: 4/26/2023 & 5/3/2023			
The following applications of the surface excluding pany thirty day period	oipelines, gathering lines an	horizontal na d roads or util	tural well wor	k permit which disturbs three acres or more of two hundred ten thousand gallons of water in
Applicant: Antero	Resources Corporation		Well Nun	nber: Gauss Unit 2H
Address: 1615 Wy	ynkoop St. Denver, CO 802	02		
Business Conductor	ed: Natural gas production	1.		
Location -				
State:	West Virginia		County:	Wetzel
District:	Green		Quadrangle:	Pine Grove 7.5'
UTM Coo	ordinate NAD83 Northing:	4378582.592m		
UTM coor	rdinate NAD83 Easting: d: Fishing Creek	523125.261m		

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies of scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be required by calling the office or by sending an email to <u>DEP.comments@wv.gov</u>. JUN 07 2023

Submitting Comments:

Submitting Comments:

Comments may be submitted online at https://apps.dep.wv.gov/oog/comments/comments.cfm, 500 professional Profession Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION

	11	OTICE CERTIFICATIO	<u>IN</u>			
Date of Notic	ce Certification: 06/05/2023	A	API No. 47	_ 103 _ (03586	
2 02 1 (012)				Well No. Gauss	s Unit 2H	
			-	ame: Furbee F		
Notice has h	oeen given:					
	ne provisions in West Virginia Code § 2	22-6A, the Operator has provi	ded the req	uired parties w	rith the Notice Forms listed	ŀ
	tract of land as follows:	, 1		1		
State:	West Virginia	UTM NAD 83	Easting:	523125.261m		
County:	Wetzel	OTMINAD 83	Northing:	4378582.592m		
District:	Green	Public Road Acces		CR 50		
Quadrangle:	Pine Grove 7.5'	Generally used far	m name:	Antero Resources	s Corp.	
Watershed:	Flshing Creek					
information re of giving the requirements Virginia Code	ed the owners of the surface describe equired by subsections (b) and (c), sect surface owner notice of entry to survof subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall ter have been completed by the applicant.	tion sixteen of this article; (ii) vey pursuant to subsection (a this article were waived in v nder proof of and certify to the	that the red), section to vriting by	quirement was en of this artic the surface ow	deemed satisfied as a result cle six-a; or (iii) the notice orner; and Pursuant to Wes	lt e st
	West Virginia Code § 22-6A, the Operator has properly served the required		s Notice C	ertification		
1	ECK ALL THAT APPLY	,			OOG OFFICE USE ONLY	
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED	
☐ 2. NO	TICE OF ENTRY FOR PLAT SURVE	EY or NO PLAT SURVE	Y WAS CO	ONDUCTED	☐ RECEIVED	
■ 3. NO]	☐ NOTICE NOT REQUIRI NOTICE OF ENTRY FOR PI WAS CONDUCTED or			☐ RECEIVED/ NOT REQUIRED	
		☐ WRITTEN WAIVER B' (PLEASE ATTACH)	Y SURFA	CE OWNER		
■ 4. NO	TICE OF PLANNED OPERATION				☐ RECEIVED	
■ 5 PITE	BLIC NOTICE				RECEIVED	

Required Attachments:

■ 6. NOTICE OF APPLICATION

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

☐ RECEIVED

Certification of Notice is hereby given:

THEREFORE, I Jon McEvers , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Well Operator: Antero Resources Corporation Address: 1615 Wynkoop Street By: Jon McEvers Denver, CO 80202 Its: Vice President of Completions Facsimile: 303-357-7315 Telephone: 303-357-6705 Email: mturco@anteroresources.com Subscribed and sworn before me this _ day of _ Joe _ 2023 . STEFAN GASPAR
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20224043669
MY COMMISSION EXPIRES NOVEMBER 15, 2026 My Commission Expires

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

Office of Oil and Gas

JUN 0 7 2023

Why Department of Environmental Protection

WW-6A (9-13)

4710303586

API NO. 47- 103 -

OPERATOR WELL NO. Gauss Unit 2H
Well Pad Name: Furbee Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 06/06/2023 Date Permit Application Filed: 06/06/2023 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ PERSONAL ☐ REGISTERED ☑ METHOD OF DELIVERY THAT REQUIRES A **SERVICE** MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to: ☑ SURFACE OWNER(s) COAL OWNER OR LESSEE Name: Antero Resources Corp. Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: 1615 Wynkoop St. Address: Denver, CO 80202 COAL OPERATOR

Name: NO DECLARATIONS ON RECORD WITH COUNTY RECEIVED

Office of Oil and Gas Name: Address: SURFACE OWNER(s) (Road and/or Other Disturbance) SURFACE OWNER OF WATER WELLJUN 07 2023 Name: Address: WV Department of Name: Doris Ruth Haught, et al Environmental Protectio Name: Address: 16 Country Meadow Lane Address: Reader, WV 26167 OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Name: Address: Address:

*Please attach additional forms if necessary

47 10 3 0 3 5 8 6
API NO. 47-103

Well Pad Name: Furbee Pad

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities on practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this secretary, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13)

47 10 3 0 3 5 8 6 API NO. 47

Well Pad Name: Furbee Pad

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction. RECEIVED

Written Comment:

Office of Oil and Gas Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within that 2023 after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the WV Department of location or construction of the applicant's proposed well work to the Secretary at: Environmental Protection

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

OPERATOR WELL NO. Gauss Unit 2H

Well Pad Name: Furbee Pad

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

JUN 07 2023

WV Department of Environmental Protection

WW-6A (8-13)

10303586

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

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone:

(303) 357-7310

Email: mturco@anteroresources.com

Denver, CO 80202

Facsimile: 303-357-7315

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

STEFAN GASPAR
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20224043669
MY COMMISSION EXPIRES NOVEMBER 15, 2026

Subscribed and sworn before me this 6 day of June, 2023

Stefan G*Spar Notary Public

My Commission Expires November 15, 2026

RECEIVED Office of Oil and Gas

JUN 07 2023

WV Department of Environmental Protection WW-6A4 (1/12)

Operator Well No. Gauss Unit 2H

Multiple Wells on Furbee Pad

4710303586

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time R Date of Notice		at least TEN (10) days prior to filing a ermit Application Filed : 06/06/2023	permit application.
Delivery metho	od pursuant to West Virginia Code §	22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVER		EQUESTED	
receipt requested drilling a horized of this subsection subsection may	ed or hand delivery, give the surface over ontal well: <i>Provided</i> , That notice give on as of the date the notice was provided be waived in writing by the surface over the surface of the date of the surface of the sur	when notice of its intent to enter upon the pursuant to subsection (a), section to the to the surface owner: <i>Provided, how</i>	an operator shall, by certified mail return the surface owner's land for the purpose of this article satisfies the requirements the ever, That the notice requirements of this that the name, address, telephone number, and the representative.
	eby provided to the SURFACE O	WNER(s):	
Name: Antero Res		Name:	
Address: 1615 W		Address:	
Denver,	CO 80202		
the surface owr State: County: District: Quadrangle:		e is hereby given that the undersigned norizontal well on the tract of land as fo UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	well operator has an intent to enter upon llows: 523125.261m 4378582.592m CR 50 Antero Resources Corp.
This Notice S Pursuant to Work facsimile number related to horize	hall Include: est Virginia Code § 22-6A-16(b), thi per and electronic mail address of the contal drilling may be obtained from the	e operator and the operator's authorize the Secretary, at the WV Department of	ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.
Notice is here			
_	Antero Resources Corporation	Authorized Representative:	Mallory Turco
Address:	1615 Wynkoop St.	Address:	1615 Wynkoop St.
	Denver, CO 80202		Denver, CO 80202
Telephone:	303-357-7323	Telephone:	303-357-7223
Email:	mturco@anteroresources.com	Email:	mturco@anteroresources.com
Facsimile:	303-357-7315	Facsimile:	303-357-7315

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A5 (1/12)

Operator Well No. Gauss Unit 2H 4710303586

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

	e: 06/06/2023 Date Permit A	no later than the filing date of perm in pplication Filed : 06/06/2023	t application.
Delivery metl	hod pursuant to West Virginia Code §	22-6A-16(c)	
CERTIF	FIED MAIL	HAND	
	EN RECEIPT REQUESTED	DELIVERY	
return receipt the planned of required to be drilling of a hadamages to the dd) The notice of notice.	requested or hand delivery, give the surf peration. The notice required by this s provided by subsection (b), section ten of corizontal well; and (3) A proposed surface surface affected by oil and gas operations required by this section shall be given	Face owner whose land will be used subsection shall include: (1) A copy of this article to a surface owner who face use and compensation agreements to the extent the damages are cort to the surface owner at the address land.	lication, an operator shall, by certified mail for the drilling of a horizontal well notice of y of this code section; (2) The information ose land will be used in conjunction with the ent containing an offer of compensation for appensable under article six-b of this chapter, isted in the records of the sheriff at the time
	by provided to the SURFACE OWNE is listed in the records of the sheriff at the		
Name: Antero Re			
Address: 1615	Wynkoop Street	Address:	
Denve	r, CO 80202		
	est Virginia Code § 22-6A-16(c), notice		
State: County: District: Quadrangle:	the surface owner's land for the purpose West Virginia Wetzel Green Pine Grove 7.5' Fishing Creek	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	523125.261m 4378582.592m CR 50
State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provided thorizontal well surface affects information re-	West Virginia Wetzel Green Pine Grove 7.5' Fishing Creek Hall Include: Yest Virginia Code § 22-6A-16(c), this not do by W. Va. Code § 22-6A-10(b) to a ll; and (3) A proposed surface use and code do by oil and gas operations to the extended to horizontal drilling may be obtained at 601 57th Street, SE, Charault.aspx.	Public Road Access: Generally used farm name: otice shall include: (1)A copy of this surface owner whose land will be ompensation agreement containing and the damages are compensable unained from the Secretary, at the W	523125.261m 4378582.592m CR 50 Antero Resources Corp. S code section; (2) The information required used in conjunction with the drilling of a nortifer of compensation for damages to the der article six-b of this chapter. Additional V Department of Environmental Protection (b) or by visiting www.dep.wv.gov/oil-and-reet

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

10303586

API NO. 47-OPERATOR WELL NO. Well Pad Name: Furbee Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS **VOLUNTARY STATEMENT OF NO OBJECTION**

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION , hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through , including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows: West Virginia Easting: 523125.261m UTM NAD 83 County: Wetzel Northing: 4378582.592m District: Green Public Road Access: CR 50 Quadrangle: Pine Grove 7.5' Generally used farm name: Antero Resources Corp. Watershed: Fishing Creek I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials. *Please check the box that applies FOR EXECUTION BY A NATURAL PERSON SURFACE OWNER Signature: Print Name: ☐ SURFACE OWNER (Road and/or Other Disturbance) Date: ☐ SURFACE OWNER (Impoundments/Pits)

Oil and Gas Privacy Notice:

☐ COAL OPERATOR

WATER PURVEYOR

☐ COAL OWNER OR LESSEE

☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

FOR EXECUTION BY A CORPORATION, ETC.
Company: Antero Resources Corporation RECEIVED Company: Antero Resources Corporation RECEIVED

Its: Senior VP of Operations

Signature:

Date:



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Jimmy Wriston, P. E. Secretary of Transportation Commissioner of Highways

Gregory L. Bailey, P.E. Interim State Highway Engineer

June 6, 2023

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Furbee Pad, Wetzel County Gauss Unit 2H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2021-0012 which has been issued to Antero Resources for access to the State Road for a well site located off Wetzel County Route 50 SLS MP0.80.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated March 6, 2023. This letter is valid for permitting purposes for some year from the date of this letter.

JUN 07 2023

Very Truly Yours,

WV Department of Environmental Protection

Gary K. Clayton, Gary K. Clayton, P.E.

Regional Operations Engineer Central Office O&G Coordinator

Cc:

Stefan Gaspar Antero Resources CH, OM, D-6 File

E.E.O./AFFIRMATIVE ACTION EMPLOYER

Subdivision 3.3.e A listing of the anticipated additives that may be used in the water used for fracturing or stimulating the well. (A listing of the additives that were actually used in the fracturing or stimulating of the well shall be submitted as part of the completion report required by W. Va. Code 22-6-22.)

FRACTURING/STIMULATING INTERVAL

	Additive	Chemical Abstract Service Number (CAS #)
1.	Fresh Water	7732-18-5
2.	2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
3.		7727-54-0
4.	Anionic copolymer	Proprietary
5.		
6.		Proprietary 64742-48-9
7.		AND COLOR OF THE C
8.	· · · · · · · · · · · · · · · · · · ·	(Proprietary)
9.	Ethoxylated alcohol blend	(Proprietary) Mixture
10	. Ethoxylated Nonylphenol	68412-54-4
11	. Ethoxylated oleylamine	26635-93-8
	. Ethylene Glycol	107-21-1
13	. Glycol Ethers	111-76-2
	. Guar gum	9000-30-0
	. Hydrogen Chloride	7647-01-0
16	. Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
	. Isopropyl alcohol	67-63-0
18	. Liquid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2
	. Microparticle	Proprietary
	. Petroleum Distillates (BTEX Below Detect)	64742-47-8
	. Polyacrylamide	57-55-6
	. Propargyl Alcohol	107-19-7
	. Propylene Glycol	57-55-6
	. Quartz	14808-60-7
	Sillica crystalline quartz	7631-86-9
	Sodium Chloride	7647-14-5
	Sodium Hydroxide	1310-73-2
	Sugar	57-50-1
	Surfactant	68439-51-0
	Suspending agent (solid)	14808-60-7
31.	Tar bases, quinolone derivs, benzyl chloride-quarternized	72480-70-7 RECEIVE
	Solvent Naptha, petroleum, heavy aliph	64742-96-7
	Soybean Oil, Me ester	67784-80-9 HIN OF COLO
25.	Copolymer of Maleic and Acrylic Acid	52255-49-9 JUN 07 2023
	DETA Phosphonate	15827-60-8
	Hexamythylene Triamine Penta	34690-00-WV Department of
	Phosphino Carboxylic acid polymer	71050-62-gronmental Protection
	Hexamethylene diamine penta	23605-74-5
39.	2-Propenoic acid, polymer with 2 propenamide	9003-06-9
40.	Hexamethylene diamine penta (methylene phosphonic aci	d) 23605-74-5
	Diethylene Glycol Methenamine	111-46-6
	SUMMARIAN PROPERTY AND A PROPERTY OF THE PROPE	100-97-0
	Polyethylene polyamine Coco amine	68603-67-8
		61791-14-8
TJ.	2-Propyn-1-olcompound with methyloxirane	38172-91-7

WW-6A7
(6-12)

OPERATOR: Antero Resources Corporation	WELL NO: Gauss Unit 2H
PAD NAME: Furbee Pad	
REVIEWED BY: Mallory Turco	SIGNATURE: MM To

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restrictions		
	\checkmark	At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
		DEP Waiver and Permit Conditions
	\checkmark	At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
		DEP Waiver and Permit Conditions
	\checkmark	At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
		DEP Waiver and Permit Conditions
	\checkmark	At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
		Surface Owner Waiver and Recorded with County Clerk, OR JUN 0 =
		DEP Variance and Permit Conditions JUN 07 2023
		At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; Orection
	ļ	Surface Owner Waiver and Recorded with County Clerk, OR
		DEP Variance and Permit Conditions
	√	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
	8-	Surface Owner Waiver and Recorded with County Clerk, OR
		DEP Variance and Permit Conditions