

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, February 5, 2025 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit approval for Driftwood Unit 1H 47-095-02907-00-00

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.

James A Martin

Chief

Operator's Well Number: Driftwood Unit 1H

Farm Name: Antero Resources Corporation

U.S. WELL NUMBER: 47-095-02907-00-00

Horizontal 6A New Drill Date Issued: 2/5/2025

47 0 9 5 0 2 9 0 7 API Number:

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.

WW-6B (04/15)

API NO. 47-095 -		
OPERATOR WELL	NO.	Driftwood Unit 1H
Well Pad Name:	Mayfie	ld Pad

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

) Well Operator: An	tero Resources Corpor	494507062	095 - Tyler	Lincoln	Paden City
V. (0.10). 3. (1.00).		Operator ID	County	District	Quadrangle
2) Operator's Well Nu	mber: Driftwood Unit 1F	Well P	ad Name: May	ield Pad	
) Farm Name/Surface	Owner: Antero Resources C	orporation Public R	oad Access: Ve	terans Hwy	у
Elevation, current g	round: 874'	Elevation, propose	d post-construct	ion: 864'	
6) Well Type (a) Ga Other	s X Oil	Un	derground Stora	.ge	
(b)If (Gas Shallow X	Deep			-1
	Horizontal X				
6) Existing Pad: Yes o			-		
	rmation(s), Depth(s), Ant				
Marcellus Shale: 660	00' TVD, Anticipated Thick	ness- 55 feet, Asso	ciated Pressure-	2800#	
) Proposed Total Ver	tical Depth: 6600' TVD				
) Formation at Total		us			
0) Proposed Total Me	easured Depth: 9800' N	ID			
1) Proposed Horizont	al Leg Length: 500'				
2) Approximate Fresl	Water Strata Depths:	384			
3) Method to Determ	ine Fresh Water Depths:	47-095-00277			
4) Approximate Salty					
5) Approximate Coal	Seam Depths: None				
6) Approximate Dept	h to Possible Void (coal	mine, karst, other)	None Anticipa	ated	
	Il location contain coal se		No.	<u>x</u>	
(a) If Yes, provide M	ine Info: Name:				
	Depth:				
	Seam:				
	Owner:				

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02/07/2025

WW-6B (04/15)

API NO. 47- 095	
OPERATOR WELL NO.	Driftwood Unit 1H
Well Pad Name: Mayfie	eld Pad

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100	100	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	434	434	CTS, 452 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate				- 14-62			
Production	5-1/2"	New	P-110	23#	9800	9800	1542 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	1530	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"	12,630	2500	Land-HPGZ & Tell - H	H/POZ-1.44 & 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	

Page 2 of 3

02/07/2025

OPERATOR WELL NO. Driftwood Unit 1H
Well Pad Name: Mayfield Pad

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill, perforate, fracture a new shallow well and complete Marcellus Shale.

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): 18.77 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 7.98 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 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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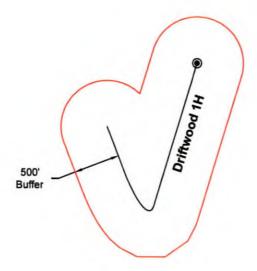
4709502907

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



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Office of Oil and Gas

JAN 0 2 2025

WV Department of Environmental Protection

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

Fax: (304) 848-5037

PARTY CHIEF: C. Lynch

RESEARCH: J. Miller

SURVEYED: Dec. 2016

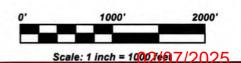
FIELD CREW: C.L., K.M.

EGH STORY OF THE S

Sheet 1 of 1

172 Thompson Drive Bridgeport, WV 26330

ı		0
	C. Robinson	DRAWN BY:
	December 19, 2024	PREPARED:
1	154-54-L-23	PROJECT NO:
1	Driftwood 1H AOR	DRAWING NO:





west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 Phone (304) 926-0450 Harold D. Ward, Cabinet Secretary dep.wv.gov

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

IN THE MATTER OF A VARIANCE FROM LEGISLATIVE RULE 35CSR4)	ORDER NO. 2022-14	
SECTION 11.5 AND LEGISLATIVE RULE)		
35CSR8 SECTION 9.2.h.8.,)	RECEIVED Office of Oil and Gas	
RELATING TO THE CEMENTING)	Office of Off and Gas	
OF OIL AND GAS WELLS)	JAN 0 2 2025	
		WV Department of Environmental Protection	ำ

REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well construction.

FINDINGS OF FACT

- 1. On July 14, 2022, Northeast Natural Energy (NNE) submitted a variance request from Legislative Rule 35CSR8 Section 9.2.h.8., for the use of API Class L cement in place of API Class A cement, relating to the construction of horizontal wells.
- 2. Laboratory analysis submitted by NNE on July 14, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
- 3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR4 Section 11.5., for the use of API Class L cement in place of API Class A cement, relating to the construction of vertical wells.

Promoting a healthy environment

On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of
public comments on the variance consideration. During the 20-day public comment
period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

ORDER

It is ordered that the Class L cement product approved and monogramed by API is approved for use in place of API Class A cement for well construction subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

RECEIVED
Office of Oil and Gas

JAN 0 2 2025

IN THE NAME OF THE STATE OF WEST VIRGINIA

WV Department of Environmental Protection

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

James Martin, Chief Office of Oil and Gas



Antero Resources 1615 Wynkoop Street Denver, CO 80202 Office 303.357.7310 Fax 303.357.7315

December 11th, 2024

West Virginia Office of Oil and Gas Attn: Taylor Brewer 601 57th St SE Charleston, WV 25304

RE: Request for Variance – Class L Cement
Driftwood Unit 1H & 2H, Gorby Unit 1H & 2H, Rigby Unit 1H
Tyler County, WV

Mr. Brewer:

Pursuant to 35CSR8 Section 9.2.h.8, Antero Resources Corporation ("Antero") would like to implement the variance to allow Class L Cement in place of Class A cement relating to the construction of the following horizontal well (Driftwood Unit 1H) on the Mayfield pad.

Antero only plans to use this method if Class A cement is not available to be use due to supply issues. Please see Order No 2022-14 attached.

If you have any questions or need further information, please feel free to contact Mallory Turco, Permitting Manager, at (303) 357-7182 or email at mturco@anteroresources.com.

Sincerely,

Carly Wren Permitting Agent

Antero Resources Corporation

Office of Oil and Gas

JAN 0 2 2025

WV Department of Environmental Protection

4	7	0	9	5	0	2	9	0	7
~		v	•	~	w	Desc.	~		

API Number 47 - 095

Operator's Well No. Driftwood Unit 1H

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) Outlet Middle Island Creek Quadrangle Paden City
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 V
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: JAN 0 2 2025
Land Application Wy Department
Underground Injection (UIC Permit Number Services and Ser
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 WV0109410 Northwestern Landfill Permit #SWF-1025/
Wetzel Co Landfill Permit #SWF-1021
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.
-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)
-Landfill or offsite name/permit number/ Wetzel Co 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 POLLUTION 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 submitted 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 Gretchen Kohler Gretchen Kohler
Company Official (Typed Name) Gretchen Kohler
Company Official Title Director of Environmental & Regulatory Compliance
Subscribed and sworn before me this 11 day of December , 20 24
CARLY RAYNE WREN NOTARY PUBLIC CARLY RAYNE WREN NOTARY PUBLIC
My commission expires 10-5-210 STATE OF COLORADO NOTARY ID 20224038743

Operator's Well No. Driftwood Unit 1H

roposed Revegetation Treatment	nt: Acres Disturbed 18.77 ac	Prevegetation pH _			
Lime 2-4	Tons/acre or to correct to pH	6.5			
Fertilizer type Hay or s	traw or Wood Fiber (will be used to	where needed)			
Fertilizer amount 500		s/acre			
Mulch 2-3	Tons/a	ncre			
	res)+Well Pad(7.98acres) +Water Containm	ent Pad (2 53 acres) + Excess/Topsoil Material Stockpile	es (3.5 acres) =18.77 Acres		
	Seed	Mixtures			
Temp	orary	Permaner	nt		
Seed Type	lbs/acre	Seed Type	lbs/acre		
Annual Ryegrass	40	Crownvetch	10-15		
Field Bromegrass	40	Tall Fescue/Perennial Ryegrass	30 / 20		
See attached Table IV-3 for additional s	seed type (Mayfield Pad Design)	See attached Table IV-4A for additional seed type (Mayfield Pad Design)			
*or type of grass seed requartach: Maps(s) of road, location, pit an provided). If water from the pit acreage, of the land application Photocopied section of involved	d proposed area for land applic will be land applied, include di arca	*or type of grass seed requeste ration (unless engineered plans including mensions (L x W x D) of the pit, and dis	g this info have been		
Attach: Maps(s) of road, location, pit an provided). If water from the pit acreage, of the land application Photocopied section of involved	d proposed area for land applic will be land applied, include di arca	eation (unless engineered plans including mensions (L x W x D) of the pit, and dir	g this info have been mensions (L x W), and		
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Form WW-9 Additives Attachment

SURFACE INTERVAL

- 1. Fresh Water
- 2. Soap -Foamer AC
- 3. Air

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WV Department of Environmental Protection

INTERMEDIATE INTERVAL

STIFF FOAM RECIPE:

- 1) 1 ppb Soda Ash / Sodium Carbonate-Alkalinity Control Agent
- 2) 1 ppb Congor 404 (11.76 ppg) / Corrosion Inhibitor
- 3) 4 ppb KLA-Gard (9.17 ppg) / Amine Acid Complex-Shale Stabilizer
- 4) 1ppb Mil Pac R / Sodium Carboxymethylcellulose-Filtration Control Agent
- 5) 12 ppb KCL / Potassium Chloride-inorganic Salt
- 6) Fresh Water 80 bbls
- 7) Air

PRODUCTION INTERVAL

1. Alpha 1655

Salt Inhibitor

2. Mil-Carb

Calcium Carbonate

3. Cottonseed Hulls

Cellulose-Cottonseed Pellets - LCM

4. Mil-Seal

Vegetable, Cotton & Cellulose-Based Fiber Blend – LCM

5. Clay-Trol

Amine Acid Complex - Shale Stabilizer

6. Xan-Plex

Viscosifier For Water Based Muds

7. Mil-Pac (All Grades)

Sodium Carboxymethylcellulose - Filtration Control Agent

8. New Drill

Anionic Polyacrylamide Copolymer Emulsion – Shale Stabilizer

9. Caustic Soda

Sodium Hydroxide - Alkalinity Control

10. Mil-Lime

Calcium Hydroxide – Lime

11. LD-9

Polyether Polyol – Drilling Fluid Defoamer

12. Mil Mica

Hydro-Biotite Mica - LCM

13. Escaid 110

Drilling Fluild Solvent - Aliphatic Hydrocarbon

14. Ligco

Highly Oxidized Leonardite - Filteration Control Agent

15. Super Sweep

Polypropylene - Hole Cleaning Agent

16. Sulfatrol K

Drilling Fluid Additive - Sulfonated Asphalt Residuum

17. Sodium Chloride, Anhydrous

Inorganic Salt

18. D-D

Drilling Detergent - Surfactant

RECEIVED
Office of Oil and Gas

19. Terra-Rate

Organic Surfactant Blend

JAN 0 2 2025

20. W.O. Defoam

Alcohol-Based Defoamer

WV Department of Environmental Protection

21. Perma-Lose HT

Fluid Loss Reducer For Water-Based Muds

22. Xan-Plex D

Polysaccharide Polymer - Drilling Fluid Viscosifier

23. Walnut Shells

Ground Cellulosic Material - Ground Walnut Shells - LCM

24. Mil-Graphite

Natural Graphite - LCM

25. Mil Bar

Barite - Weighting Agent

26. X-Cide 102

Biocide

27. Soda Ash

Sodium Carbonate - Alkalinity Control Agent

28. Clay Trol

Amine Acid complex - Shale Stabilizer

29. Sulfatrol

Sulfonated Asphalt – Shale Control Additive

30. Xanvis

Viscosifier For Water-Based Muds

31. Milstarch

Starch - Fluid Loss Reducer For Water Based Muds

32, Mil-Lube

Drilling Fluid Lubricant



911 Address 3863 Veterans Hwy, New Martinsville, WV 26155

Well Site Safety Plan Antero Resources

Well Name: Mayfield Unit 5V, Rigby Unit 1H, Driftwood Unit

1H, Driftwood Unit 2H, Gorby Unit 1H, Gorby Unit 2H

Pad Location: MAYFIELD PAD

Tyler County/Lincoln District

GPS Coordinates:

Entrance - Lat 39.579430 /Long -80.897642 (NAD83)
Pad Center - Lat 39.581257 /Long -80.901212 (NAD83)

Driving Directions:

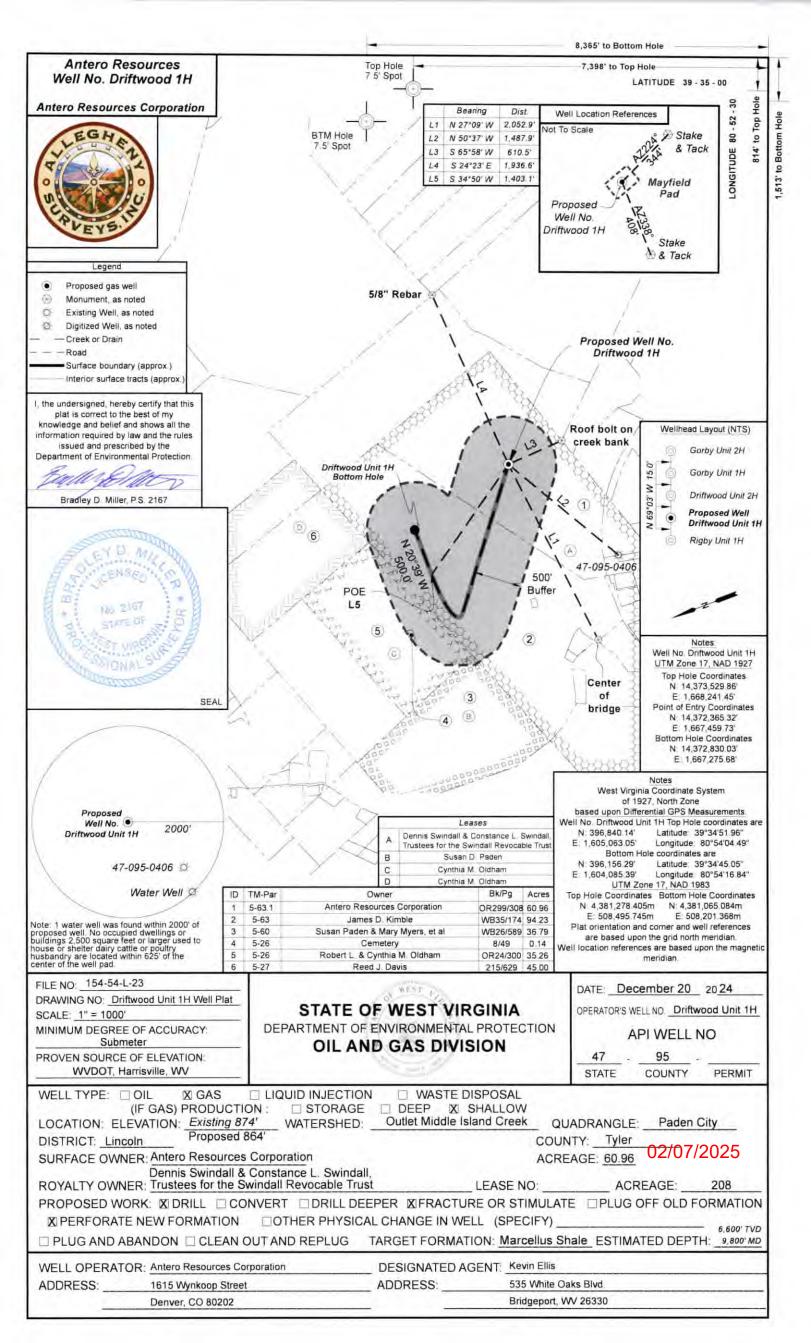
1. From WV-180, turn west onto the lease road

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

T







WW-6A1 (5/13)

Operator's	Well No.	Driftwood	Unit 1H
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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
A: Dennis Swindall & Constance L. Swindall, Trustees for the Swindall Revocable Trust Lease				
	Dennis Swindall & Constance L. Swindall, Trustees for the Swindall Revocable Trust	Back Country Exploration LLC	1/8+	387/501
	Back Country Exploration LLC Triad Hunter, LLC	Triad Hunter LLC Antero Resources Corporation	Conveyence Assignment	338/234 496/776
			Office of Oil ar	
			JAN 0 2 2	025
			WV Departme	

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:	Jared Hurst	1/0			
Its:	Vice President of L	and			



December 27, 2024

Antero Resources 1615 Wynkoop Street Denver, CO 80202 Office 303.357.7310 Fax 303.357.7315

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

WV Department of Environmental Protection

RE:

Driftwood Unit 1H

Quadrangle: Paden City 7.5'

Tyler County/Lincoln District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Driftwood Unit 1H 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 Driftwood Unit 1H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Mitch Allen Staff Landman

MALTE

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

Data of Note	C	Office of	f Oil and Gas	API No. 4	7 005		
Date of Notic	ce Certification: 12/26/2024				Well No. Drifts	wood Unit 1H	
		JAN (0 2 2025		lame: Mayfiek		
Notice has l	soon giston			Well Fau I	eame. weyner		
Durenant to th	ne provisions in West Virginia Cod	LA SOOT ENVIRONMENT	partment of	wided the rea	mirad nartice v	with the Notice Forme lists	A
	tract of land as follows:	ie 9 22-074, tile 1	Operator many pro	vided the fet	farren barties A	viai die Modee Poims iisk	iQ.
State:	West Virginia			Easting:	508495.75m		
County:	Tyler		UTM NAD 83	Northing:	4381278.41m		_
District:	Lincoln		Public Road Acc	_	Veterans Hwy		_
Quadrangle:	Paden City	· <u>··</u>	Generally used f	farm name:	Antero Resource	s Corporation	
Watershed:	Outlet Middle Island Creek		•				
requirements Virginia Cod	surface owner notice of entry to of subsection (b), section sixteer e § 22-6A-11(b), the applicant sha have been completed by the applicant	of this article	were waived in	writing by	the surface ov	vner; and Pursuant to Wo	est
	West Virginia Code § 22-6A, the rator has properly served the requ			this Notice C	ertification		
•	ECK ALL THAT APPLY	•	Č			OOG OFFICE USE ONLY	
☐ 1. NO	TICE OF SEISMIC ACTIVITY		CE NOT REQUI ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED	
☐ 2. NO	TICE OF ENTRY FOR PLAT SU	RVEY or 🔳 1	NO PLAT SURV	EY WAS C	ONDUCTED	RECEIVED	
■ 3. NO	TICE OF INTENT TO DRILL	NOTICE C	CE NOT REQUI OF ENTRY FOR DUCTED or			RECEIVED/ NOT REQUIRED	
			TEN WAIVER EASE ATTACH		CE OWNER		
■ 4. NO	TICE OF PLANNED OPERATIO	N				RECEIVED	
■ 5. PUI	BLIC NOTICE					☑ RECEIVED	
■ 6. NO	TICE OF APPLICATION					RECEIVED	

Required Attachments:

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.

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: Senior VP of Operations Facsimile: 303-357-7373 Telephone: 303-357-6799 Email: cwren@anteroresources.com Subscribed and sworn before me this 23 day of Dec. 7174. NOTARY PUBLIC ATE OF COLORADO Notary Public STATE NOTARY ID 20224038743

Oil and Gas Privacy Notice:

COMMISSION EXPIRES 10/05/2026

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.

My Commission Expires

Office of Oil and Gae

JAN 0 2 2025

WV Department of Environmental Protection

4709509502907
API NO. 47-066 950 02907
OPERATOR WELL NO. Driftwood Unit 1H
Well Pad Name: Mayfield 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.

1104	ice time kequirement: nonce shan be provided no	later than the ming date of permit applies	ition.
Dat	e of Notice: 12/27/2024 Date Permit Application Fil	ed: 12/27/2024	
Not	ice of:		Office RECEIVED
☑	PERMIT FOR ANY	OF APPROVAL FOR THE	JAN - and Game
		ON OF AN IMPOUNDMENT OR PIT	Office RECEIVED JAN 0 2 2025 Environments
Deli	ivery method pursuant to West Virginia Code § 22	2-6A-10(b)	Environmental Protection
	DEDOCULA DI DEGLESTATO DI		rotection
ш	PERSONAL REGISTERED SERVICE MAIL	METHOD OF DELIVERY THAT REQU RECEIPT OR SIGNATURE CONFIRMA	IKES A
oper more well impo have prov prop subs reco prov Code	ribed in the erosion and sediment control plan submitter ator or lessee, in the event the tract of land on which the ecoal seams; (4) The owners of record of the surface tract work, if the surface tract is to be used for the placement condiment or pit as described in section nine of this article a water well, spring or water supply source located with ride water for consumption by humans or domestic animous of well work activity is to take place. (c)(1) If more the ection (b) of this section hold interests in the lands, the rids of the sheriff required to be maintained pursuant to rision of this article to the contrary, notice to a lien hold at R. § 35-8-5.7.a requires, in part, that the operator sharp purveyor or surface owner subject to notice and water	e well proposed to be drilled is located [sic] is act or tracts overlying the oil and gas leasehout, construction, enlargement, alteration, repairle; (5) Any surface owner or water purveyor thin one thousand five hundred feet of the centals; and (6) The operator of any natural gas shan three tenants in common or other co-own applicant may serve the documents required section eight, article one, chapter eleven-a of er is not notice to a landowner, unless the lier lalso provide the Well Site Safety Plan ("W	is known to be underlain by one or ld being developed by the proposed ir, removal or abandonment of any who is known to the applicant to inter of the well pad which is used to storage field within which the iners of interests described in upon the person described in the this code. (2) Notwithstanding any in holder is the landowner. W. Va. (SSP") to the surface owner and any
Ø A	Application Notice	Notice	rovided to:
_	URFACE OWNER(s)	COAL OWNER OR LESSEE	
	36: Antero Resources Corporation	Name: NO DECLARATIONS ON RECOR	D WITH COUNTY
	Tess: 400 White Oaks Blvd	Address:	
	eport, WV 26330		
Nan		COAL OPERATOR	
Add	ress:	Name: NO DECLARATIONS ON RECOR	
	TREACE OUR TRACE OF THE ON THE I	Address:	
	JRFACE OWNER(s) (Road and/or Other Disturbance		
Nan	TESS:	WATER PURVEYOR(s)/OWNER(s) (SPRING OR OTHER WATER SUPPL	OF WATER WELL, LY SOURCE
Auu	ress:	Name: NONE WITHIN 1500	.,
Nan	ne:	Address:	
Add	necc:	Audiess.	
Auu	ress:	OPERATOR OF ANY NATUR	RAT GAS STOPAGE FIELD
12.0	JRFACE OWNER(s) (Impoundments or Pits)		
	ie:	Name:Address:	
Add	ress:	A ANNA WYE.	
		*Please attach additional forms if	necessary
		• ***** *********** ******** **********	

09502907

OPERATOR WELL NO. Driftwood Unit 1H Well Pad Name: Mayfield 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 were dep. wv.gov/oiland Ga and-gas/pages/default.aspx. JAN 0 2 2025

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 of 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 or 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 section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act 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

API NO. 47.7000 9 5 0 2 9 0 7

OPERATOR WELL NO. Driftwood Unit 1H

Well Pad Name: Mayfield 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.

Written Comment:

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. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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

RECEIVED
Office of Oil and Gas JAN 0 2 2025

WV Department of

(304) 926-0450

Environmental Protection
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.

API NO. 47- 095

OPERATOR WELL NO. Driftwood Unit 1H

Well Pad Name: Mayfield 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.



API NO. 47-095 9 5 0 2 9 0 7

OPERATOR WELL NO. Driftwood Unit 1H
Well Pad Name: Mayfield Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7373
Email: cwren@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 deepprivacyofficer@wv.gov.

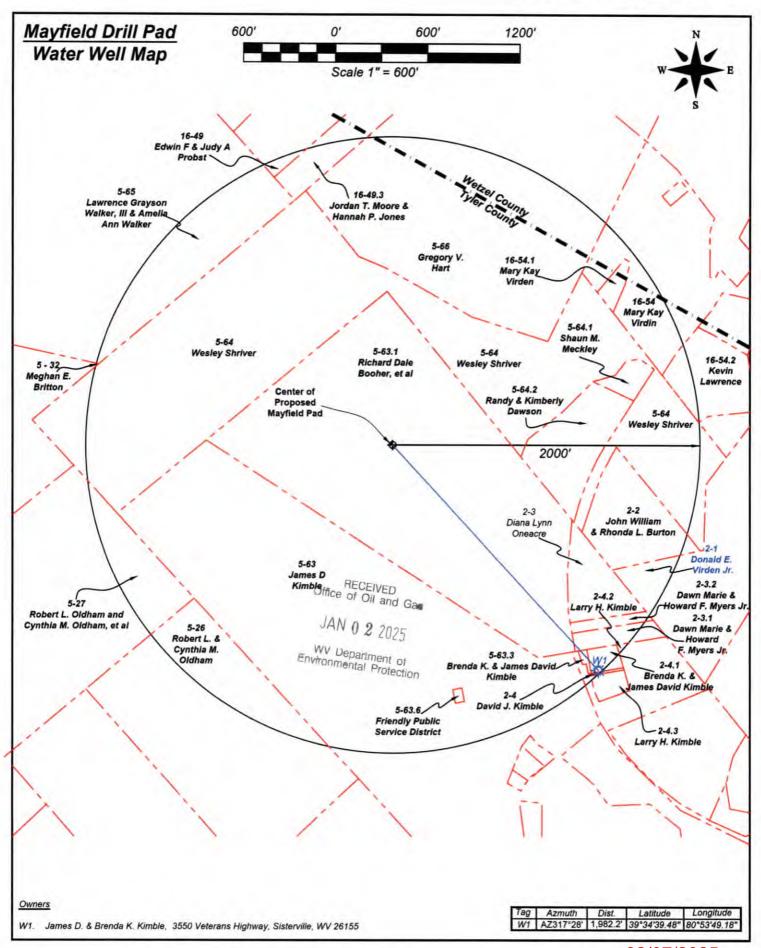
CARLY RAYNE WREN NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20224038743 MY COMMISSION EXPIRES 10/05/2026 Subscribed and sworn before me this 23 day of Dec, 2024

My Commission Expires 10-5-ZU

Office RECEIVED of Oil and Gas

JAN 0 2 2025

WV Department of Environmental Protection



STATE OF WEST VIRGINIA 4709502907 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.

Date of Noti	Requirement: Notice sh	all be provided at least TEN (10 Date Permit Application 7 7 7 7 7 7 7 7 7 7 7 7 7) days prior to fi on Filed: 12/27/202	ling a perm 24	it application. RECEIVED
Delivery me	thod pursuant to West \	'irginia Code § 22-6A-16(b)			JAN 0 2 2025
☐ HAND	■ CERTIF	IED MAII			Environmental Protection
DELIV					Environmental Protection
DELIV	EKI KETUK	N RECEIPT REQUESTED			Protection of
receipt reque drilling a hor of this subsection mand if availal	sted or hand delivery, given izontal well: Provided, ction as of the date the not ay be waived in writing be ble, facsimile number and	the surface owner notice of its that notice given pursuant to subtice was provided to the surface by the surface owner. The notice electronic mail address of the op	intent to enter un bsection (a), sect owner: <i>Provided</i> , if required, sha	pon the sur- tion ten of t d, however, ll include th	face owner's land for the purpose his article satisfies the requirement. That the notice requirements of the name, address, telephone number
	Rersources Corporation	SURFACE OWNER(s):			
Address: 400			ame:ddress:		
Bridgeport, WV			duress.		
the surface o	Vest Virginia Code § 22- wner's land for the purpo	6A-16(b), notice is hereby given se of drilling a horizontal well or	the tract of land	as follows	
Pursuant to V the surface o State: County:	Vest Virginia Code § 22- wner's land for the purpo West Virginia	se of drilling a horizontal well on	AD 83 Eastin North	l as follows g: 50849 ing: 43812	: 5.75m 78.41m
Pursuant to V the surface o State: County: District:	West Virginia Code § 22- wner's land for the purpo West Virginia Tyler Lincoln	se of drilling a horizontal well on UTM N Public F	AD 83 Eastin Northi	d as follows g: 50849 ing: 43812 Vetera	: 5.75m 78.41m ans Hwy
Pursuant to V the surface o State: County:	Vest Virginia Code § 22- wner's land for the purpo West Virginia	se of drilling a horizontal well on UTM N Public F	AD 83 Eastin North	d as follows g: 50849 ing: 43812 Vetera	: 5.75m 78.41m
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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. Driftwood Unit 1H

STATE OF WEST VIRGINIA 4709502907 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Date of No	e Requirement: notice tice: 12/27/2024	shall be provided n Date Permit A	o later than the filing pplication Filed: 12/	date of permit	JAN a Ga
Delivery m	ethod pursuant to Wes	t Virginia Code §	22-6A-16(c)		Environmental Protection
■ CERT	TIFIED MAIL	П	HAND		Prolection
	JRN RECEIPT REQUE	STED	DELIVERY		-1107
return receipthe planned required to drilling of a damages to (d) The notion for fortice.	pt requested or hand del operation. The notice be provided by subsection horizontal well; and () the surface affected by	required by this son (b), section ten of the son (b). Section ten of the son (b) are proposed surfacion shall be given the section shall be given the sectio	ace owner whose lan ubsection shall inclused this article to a sur- ace use and compen us to the extent the d to the surface owner	d will be used for ide: (1) A copy face owner who sation agreement amages are com	ication, an operator shall, by certified mail for the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for apensable under article six-b of this chapter. isted in the records of the sheriff at the time
		of the sheriff at the			
Name: Antero	Resources Corporation		Name:		
Name: Antero Address: 40			Name:		
Address: 400 Bridgeport, WV	0 White Oaks Blvd 26330 ereby given:		Addres	s:	
Address: 40 Bridgeport, WV Notice is he Pursuant to operation o State: County:	o White Oaks Blvd 26330 Preby given: West Virginia Code § 2 In the surface owner's la West Virginia Tyler	2-6A-16(c), notice of	Addres is hereby given that to of drilling a horizonta UTM NAD 8	he undersigned al well on the tra Easting: Northing:	508495.75m 4381278.41m
Address: 40 Bridgeport, WV Notice is he Pursuant to operation o State: County: District:	o White Oaks Blvd 26330 Preby given: West Virginia Code § 2 In the surface owner's la West Virginia Tyler Lincoln	2-6A-16(c), notice and for the purpose of	is hereby given that to drilling a horizonta UTM NAD 8	he undersigned al well on the tra 33 Easting: Northing: Access:	act of land as follows: 508495.75m 4381278.41m Veterans Hwy
Address: 40 Bridgeport, WV Notice is he Pursuant to operation o State: County:	o White Oaks Blvd 26330 Preby given: West Virginia Code § 2 In the surface owner's la West Virginia Tyler Lincoln	2-6A-16(c), notice and for the purpose of	is hereby given that to drilling a horizonta UTM NAD 8	he undersigned al well on the tra Easting: Northing:	act of land as follows: 508495.75m 4381278.41m
Notice is he Pursuant to operation of State: County: District: Quadrangle: Watershed: This Notice Pursuant to be provided by the provided of t	white Oaks Bivd 26330 reby given: West Virginia Code § 2 In the surface owner's la West Virginia Tyler Lincoln Paden City Outlet Middle Island Creek Shall Include: West Virginia Code § 2 ded by W. Va. Code § vell; and (3) A proposed cted by oil and gas operelated to horizontal des, located at 601 57th	2-6A-16(c), this not 22-6A-10(b) to a strations to the externilling may be obta	Addres is hereby given that to of drilling a horizonta UTM NAD 8 Public Road Generally us otice shall include: (1 surface owner whose ompensation agreement the damages are coined from the Secre	he undersigned all well on the tra Basting: Northing: Access: ed farm name: Acopy of this e land will be ent containing an ompensable und tary, at the WV	act of land as follows: 508495.75m 4381278.41m Veterans Hwy
Notice is he Pursuant to operation o State: County: District: Quadrangle: Watershed: This Notice Pursuant to to be provided information the adquarters.	o White Oaks Bivd 26330 Preby given: West Virginia Code § 2 In the surface owner's la West Virginia Tyler Lincoln Paden City Outlet Middle Island Creek Shall Include: West Virginia Code § 2 ded by W. Va. Code § ded by W. Va. Code § vell; and (3) A proposed cted by oil and gas oper related to horizontal des, located at 601 57th sefault.aspx.	2-6A-16(c), this not 22-6A-10(b) to a surface use and corations to the externilling may be obtastreet, SE, Charl	Addres is hereby given that to of drilling a horizonta UTM NAD 8 Public Road Generally us otice shall include: (1 surface owner whose ompensation agreement the damages are coined from the Secre	he undersigned all well on the tra Basting: Northing: Access: ed farm name: Acopy of this e land will be ent containing an ompensable und tary, at the WV	act of land as follows: 508495.75m 4381278.41m Veterans Hwy Antero Resources Corporation code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional / Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Notice is he Pursuant to operation o State: County: District: Quadrangle: Watershed: This Notice Pursuant to to be provide thorizontal w surface affe information the adquarter gas/pages/de	o White Oaks Bivd 26330 Preby given: West Virginia Code § 2 In the surface owner's la West Virginia Tyler Lincoln Paden City Outlet Middle Island Creek Shall Include: West Virginia Code § 2 ded by W. Va. Code § ded by W. Va. Code § vell; and (3) A proposed cted by oil and gas oper related to horizontal des, located at 601 57th sefault.aspx.	2-6A-16(c), this not 22-6A-10(b) to a surface use and corations to the externilling may be obtastreet, SE, Charl	Address is hereby given that to feel drilling a horizonta UTM NAD a Public Road Generally us office shall include: (1) surface owner whose in the damages are coined from the Secret deston, WV 25304	he undersigned all well on the tra 3 Easting: Northing: Access: ed farm name:)A copy of this e land will be ent containing an ompensable und tary, at the WV (304-926-0450)	act of land as follows: 508495.75m 4381278.41m Veterans Hwy Antero Resources Corporation code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional / Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-

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 deepprivacyofficer@wv.gov.

API NO. 47- 095 OPERATOR WELL NO. Driftwood Unit 1H
Well Pad Name: Mayfield Pad

4709502907

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.

| RECEIVED Office of Oil and Gas.

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

Ι,	, hereby state that I have read t	he Instructions	to Persons N	amed on Page WW-6A and the associate
provisions lis	sted above, and that I have received copies of a N	Notice of Applie	cation, an Ap	plication for a Well Work Permit on Form
	attachments consisting of pages one (1) through			the erosion and sediment control plan,
required, and State:	the well plat, all for proposed well work on the tra West Virginia		Casting	508495.75m
County:	Tyler	UTM NAD 83	Northing:	4381278.41m
District:	Lincoln	Public Road Ad		Veterans Hwy
Quadrangle:	Paden City	Generally used	farm name:	Antero Resources Corporation
Watershed:	Outlet Middle Island Creek			
*Please check	k the box that applies	FC	OR EXECUT	ION BY A NATURAL PERSON
	CE OWNER			
		n.		
LI SURFAC	CE OWNER (Road and/or Other Disturbance			
☐ SURFA	CE OWNER (Impoundments/Pits)			ION BY A CORPORATION, ETC.
□ COAL C	OWNER OR LESSEE	Co	mpany: Antero	Resources Corporation
□ COAL C	PERATOR		Tom Waltz Vice President of	f Completions
□ WATER	RPURVEYOR	Sig	gnature:	From Wal
□ OPERA	TOR OF ANY NATURAL GAS STORAGE	De	ite: /2	30-24

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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Office of the District Engineer/Manager District Four

Post Office Box 4220 · Clarksburg, West Virginia 26302 · (304) 842-1500

Alanna J. Keller, P.E. Deputy Secretary of Transportation Deputy Commissioner of Highways Jimmy Wriston, P. E. Secretary of Transportation Commissioner of Highways

December 11, 2024

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

JAN 0 2 2025

Environmental Protection

Subject: DOH Permit for the Mayfield Well Pad, Tyler County

Driftwood 1H Well Site

Driftwood 2H Well Site

Rigby 1H Well Site

Gorby 1H Well Site

Gorby 2H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2023-0549 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off Tyler County Route 180 WV MP 3.70.

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 one year from the date of this letter.

Very Truly Yours,

Lacy D. Pratt

Central Office O&G Coordinator

Lacy D. Pratt

Cc: Carly Wren

Antero Resources Corporation

OM, D-6 File

List of Anticipated Additives Used for Fracturing or Stimulating Well 4709502907

	4/0950291
Additives	Chemical Abstract Service Number
Fresh Water	(CAS #)
2 Phosphobutane 1,2,4 tricarboxylic acid	7732-18-5
Ammonium Persulfate	37971-36-1
Anionic copolymer	7727-54-0
Anionic copolymer Anionic polymer	Proprietary
	Proprietary
BTEX Free Hydrotreated Heavy Naphtha Cellulase enzyme	64742-48-9
Demulsifier Base	Proprietary
	Proprietary
Ethoxylated alcohol blend	Mixture
Ethoxylated Nonylphenol Ethoxylated oleylamine	68412-54-4
The state of the s	26635-93-8
Ethylene Glycol Glycol Ethers	107-21-1
	111-76-2
Guar gum	9000-30-0
Hydrogen Chloride	7647-01-0
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
Isopropyl alcohol	67-63-0
liquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2
Microparticle	Proprietary
Petroleum Distillates (BTEX Below Detect)	64742-47-8
Polyacrylamide	57-55-6
Propargyi 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
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7
Solvent Naphtha, petroleum, heavy aliph	64742-96-7
Soybean Oil, Me ester	67784-80-9
Copolymer of Maleic and Acrylic Acid	52255-49-9
DETA phosphonate	15827-60-8
Hexamthylene Triamine Penta	34690-00-1
Phosphino Carboxylic acid polymer	71050-62-9
Hexamethylene Diamine Tetra	23605-75-5
2-Propenoic acid, polymer with 2 propenamide	9003-06-9
Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5
Diethylene Glycol	111-46-6
Methenamine	100-97-0
Polyethylene polyamine	68603-67-8
Coco amine	61791-14-8
2-Propyn-1-olcompound with methyloxirane	38172-91-7

OPERATOR: Antero Resources Corp.	WELL NO: Driftwood Unit 1H
PAD NAME: Mayfield Pad	
REVIEWED BY: Carly Wren	SIGNATURE:
WELL RESTRIC	TIONS CHECKLIST Office RECEIVED Office Of Oil and Game JAN O
HORIZON'	TAL 6A WELL JAN 0 2 2025 Environmental Protection
Well Restrictions	olection .
At Least 100 Feet from Pad and LO Perennial Stream, Lake, Pond, Rese	D (including any E&S Control Feature) to any rvoir or Wetland; OR
DEP Waiver and Permit Con	ditions
At Least 300 Feet from Pad and LO Naturally Producing Trout Stream;	D (including any E&S Control Feature) to any OR
DEP Waiver and Permit Con	ditions
At Least 1000 Feet from Pad and LO Groundwater Intake or Public Water	OD (including any E&S Control Feature) to any r Supply; OR
DEP Waiver and Permit Cor	nditions
At Least 250 Feet from an Existing Drilled; OR	Water Well or Developed Spring to Well Being
Surface Owner Waiver and I	Recorded with County Clerk, OR
DEP Variance and Permit Co	onditions
At Least 625 Feet from an Occupied	Dwelling Structure to Center of the Pad; OR
Surface Owner Waiver and I	Recorded with County Clerk, OR
DEP Variance and Permit Co	onditions
At Least 625 Feet from Agricultural of the Pad; OR	Buildings Larger than 2500 Square Feet to the Center
Surface Owner Waiver and l	Recorded with County Clerk, OR
DEP Variance and Permit C	onditions

LOCATION COORDINATES: ACCESS ROAD ENTRANCE

LATTTUDE: 39.579430 LONGITUDE: -80.897642 (NAD 83) LATTTUDE: 39.579353 LONGITUDE: -80.897817 (NAD 27) N 4381064.81 E 508790.59 (UTM ZONE 17 METERS)

CENTER OF TANK

LATITUDE: 39.579939 LONGITUDE: -80.899178 (NAD 83) LATITUDE: 39.579939 LONGITUDE: -80.899352 (NAD 27) N 4381149.59 E 508658.62 (UTM ZONE 17 METERS)

CENTROID OF PAD
LATITUDE: 39.581180 LONGITUDE: -80.901212 (NAD 83)
LATITUDE: 39.581180 LONGITUDE: -80.901386 (NAD 27)
N 4381287.16 E 508483.78 (UTM ZONE 17 METERS)

GENERAL DESCRIPTION:

THE ACCESS ROAD(S), WATER CONTAINMENT PAD, AND WELL PAD ARE BEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

FLOODPLAIN NOTES:

THE PROPOSED SITE IS LOCATED WITHIN FEMA FLOOD ZONE "X" PER FEMA FLOOD MAP #54095C0035C.

MISS UTILITY STATEMENT:
ANTERO RESOURCES CORPORATION WILL NOTIFY MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN. IN ADDITION, MISS UTILITY WILL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

ENTRANCE PERMIT:

ANTERO RESOURCES CORPORATION WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

ENVIRONMENTAL NOTES:

ENVIRONMENTAL NOTES:
STREAM AND WETLAND DELINEATIONS WERE PERFORMED IN MARCH/MAY 2023 BY KLEINFELDER TO REVIEW
THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE
U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL,
PROTECTION (WUDEP). THE MAY 25, 2023 DELINEATION WATERS MAP WAS PREPARED BY KLEINFELDER AND
SUMMARIZES THE RESULTS OF THE FIELD DELINEATION. THE MAP DOES NOT, IN ANY WAY, REPRESENT A
JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE
REGULATED BY THE USACE OR THE WYDEP. IT IS STRONGLY RECOMMENDED THAT THE AFOREMENTIONED
AGENCIES BE CONSULTED IN AN EFFORT TO GAIN WRITTEN CONFIRMATION OF THE DELINEATION SHOWN
ON THIS EXHIBIT PRIOR TO ENGAGING CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN, THE
DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY
AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILLS AND
STREAM CROSSINGS.

GEOTECHNICAL NOTES.

GEOTECHNICAL NUTES:

A SUBSURFACE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY PENNSYLVANIA SOIL & ROCK, INC. ON JANUARY 12, 2024—JANUARY 23, 2024. THE REPORT PREPARED BY PENNSYLVANIA SOIL & ROCK, INC. DATED FEBRUARY 20, 2024, REFLECTS THE RESULTS OF THE SUBSURFACE INVESTIGATION. THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS REPORT WERE USED IN THE PREPARATION OF THESE PLANS. PLEASE REFER TO THE SUBSURFACE INVESTIGATION REPORT BY PENNSYLVANIA SOIL & ROCK, INC. FOR ADDITIONAL INFORMATION, AS NEEDED.

PROJECT CONTACTS:

OPERATOR

ANTERO RESOURCES CORPORATION 535 WHITE OAKS BLVD. BRIDGEPORT, WV 26330 PHONE: (304) 842-4100 FAX: (304) 842-4102

ELI WAGONER - ENVIRONMENTAL ENGINEER & REGULATORY MANAGER OFFICE: (304) 842-4068 CELL: (304) 476-9770

JON McEVERS - SVP OP OFFICE: (303) 357-6799 SVP OPERATIONS

AARON KUNZLER - CONSTRUCTION MANAGER CELL: (304) B42-4191

ROBERT WIRKS - DESIGN MANAGER OFFICE: (304) 842-4100 CELL: (304) 527-7405

ROBERT EDDY - UTILITY COORDINATOR CELL: (304) 719-5199

GRANT HARDMAN - LAND AGENT OFFICE: (304) 842-4175 CELL: (304) 627-7472

ENGINEER/SURVEYOR: NAVITUS ENGINEERING, INC. CYRUS S. KUMP, PE - PROJECT MANAGER/ENGINEER

OFFICE: (888) 662-4185 CELL: (540) 686-6747

ENVIRONMENTAL:

KLEINFELDER
MATT ALBRIGHT - PROJECT MANAGER
OFFICE: (724) 772-7072 CELL: (609) 947-5296

GEOTECHNICAL.
PENNSYLVANIA SOIL & ROCK, INC.
CHRISTOPHER W. SAMIOS - PROJECT ENGINEER
OFFICE: (412) 372-4000 CELL: (412) 589-0662

RESTRICTIONS NOTES:

1. THERE ARE NO LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE WELL PAD AND LOD. THERE ARE 4 WETLANDS & 3 STREAMS WITHIN THE LOD THAT WILL NEED PERMITTED BY APPROPRIATE AGENCIES.

- THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND LOD
- THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE WELL PAD AND LOD.
- THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELL(S) BEING DRILLED.
- THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.
- THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 825 FEET OF THE CENTER OF THE WELL PAD.



(NOT TO SCALE)

REPRODUCTION NOTE

THESE PLANS WERE CHEATED TO BE PLOTTED ON SEXUAL (ANEL DE PAPER HALF SCALE DEAWINGS ARE ON 11707 (ANEL B) PAPER

THESE PLANS WERK CREATED FOR COLOR PLOTTING AND ANY INCREMENTAL IN GRAY SCALE OR COLOR MAY RESULT IN A LOSS OF INFORMATION AND SHOULD NOT SET HEED FOR CONSTRUCTION PROPOSES

DESIGN CERTIFICATION:
THE DRAWINGS, CONSTRUCTION NOTES, AND
REFERENCE DIAGRAMS ATTACHED HERETO HAVE
BEEN PREPARED IN ACCORDANCE WITH THE
WEST VIRGINIA CODE OF STATE RULES, DIVISION
OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL
AND GAS CRS 35-8.

MAYFIELD WELL PAD & WATE SITE DESIGN & CONSTR **EROSION & SEDIMENT C**

LINCOLN DISTRICT, TYLER COUNT POINT PLEASANT CREEK WA

PADEN CITY USGS 7.5 QUA

3

R CONTAINMENT PAD UCTION PLAN, ONTROL PLANS

WEST VIRGINIA **ERSHED**



WEST VIRGINIA STATE PLANE COORDINATE SYST NORTH ZONE, NADBS ELEVATION BASED ON NAVDBB ESTABLISHED BY SURVEY GRADE GPS & OPUS POST-PROCESSING

SHEET INDEX:

COVER SHEET CONSTRUCTION AND E&S CONTROLS NOTES

1 - COVER SHEET
2 - CONSTRUCTION AND E&S CONTROLS NOTES
3 - LEGEND
4 - MATERIAL QUANTITIES
5 - STORM DRAINAGE & E&S COMPUTATIONS
6 - EXISTING CONDITIONS
7 - EXISTING STRUCTURES & FEATURES
8 - OVERALL PLAN SHEET INDEX & VOLUMES
9 - ACCESS ROAD & WELL PAD PLAN
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11 - WELL PAD GRADING PLAN
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18 - STREAM CROSSING DETAILS
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19-27 - CONSTRUCTION DETAILS
28 - ACCESS ROAD & WELL PAD RECLAMATION PLAN
29 - STOCKPILE & WELL PAD RECLAMATION PLAN
GE500-GE504 - GEOTECHNICAL DETAILS
OHICO RECEIVED

Office of Oil and Gas

JAN 1 5 2025

WV Department of mental Protecti

Total Site	E
Access Road "A" (1414')	4.76
Well Pad	7.98
Water Containment Pad	2.53
Excess/Topsoil Material Stockpiles	3.50
Total Affected Area	18.7
Total Wooded Acres Disturbed	12.9
Impacts to County Route 180	12
Access Road "A" (33')	0.19
Total Affected Area	0.19
Total Wooded Acres Disturbed	0.00
impacts to Antero Resources Corporation	TM 5-63.1
Access Road "A" (1381")	4.57
Well Pad	7.98
Water Containment Pad	2.53
Excess/Topsoil Material Stockpiles	3.50
Total Affected Area	18,5
Total Wooded Acres Disturbed	12.9

MAYFIELD WETLAND IMPACT (SQUARE FEET)					
Wetland and Impact Cause	Fill (SF)	Total Impact (SF)	Total impact (AC)		
KLF_Wetland001 (Access Road)	8,103	8,103	0.186		
KLF Wetland006 (WCP)	2,410	2;410	0.055		
KLF Wetland007 (WCP)	2,818	2,818	0.065		
KLF_Wetland008 (Access Road & WCP)	5,101	5,101	0.117		

	MAYFIEL	D PERENNIAL ST	REAM IMPACT	LINEAR FEET)		
	Permanent Impacts		Total	Temp, Ir	Tunning I	
Stream and Impact Cause	Culvert/ FIII (LF)	Inlets/Outlets Structures (LF)	Permanent Impact (LF)	Cofferdam/ E&S Controls (LF)	Distance To L.O.D. (LF)	Total Temp
KLF_Point Pleasant Creek (Access Road)	0	0	0	132	0	132

Stream and Impact Cause	Permanent Impacts		Total	Temp. Impacts		
	Culvert / Fill (LF)	Inlets/Outlets Structures (LF)	Permanent Impact (LF)	Controls (LF)	Distance To L.O.D. (LF)	Total Temp. Impact (LF)
KLF_Stream006 (Well Pad)	204	21	225	29	10	39
KLF Stream007 (Stockpile)	0	0	0	12	0	12

Well Name	W North NAD 27	NAD 27 Lat & Long	NAD 83 UTM (METERS) ZONE 17	NAD 83 Lat & Long			
	Permitted Location						
RIGBY	N 396845.51	LAT 39-34-52 0142	N 4381279 97	LAT 39-34-52 2909			
UNIT 1H	E 1605049 04	LONG 80-54-04 6699	E 508491.45	LONG -80-54-04 0427			
DRIFTWOOD	N 396840 14	LAT 39-34-51 9634	N 4381278.41	LAT 39-34-52 2400			
UNIT 1H	E 1605063.05	LONG -80-54-04 4900	E 508495 75	LONG -80-54-03.8627			
DRIFTWOOD	N 396834.78	LAT 39-34-61 9125	N 4381276.84	LAT 39-34-52 1892			
UNIT 2H	E 1605077.06	LONG -80-54-04 3100	E 508500 04	LONG 80-54-03-6828			
GORRY	N 396829.41	LAT 39-34-51 8617	N 4381275.28	LAT 39-34-52 1383			
UNIT 1H	E 1605091 07	LONG -80-54-04 1300	E 508504 34	LONG -80-54-03-5028			
GORBY	N 396824-05	LAT 39-34-51 8108	N 4381273.72	LAT 39-34-52 0875			
UNIT 2H	E 1605105.08	LONG -80-54-03 9501	E 508508 63	LONG -80-54-03 3228			
MAYFIELD	N 397019 28	LAT 39-34-53 7088	N 4381332 16	LAT 39-34-53 9854			
UNIT 5V	E 1604901 82	LDNG -80-54-06 5848	E 508445.71	LONG -90-54-05 9575			
roposed Well P	ad Elevation	864.0					

NAV TU ENERGY ENGINEERING

	L					
		NBILIZATION	9	CHANGE		
,	NO	MK ST	WELL	NAME		
	REVISION	EAM BAA	REVISED PER WELLS	DWNER		
	RE	R STR	EVISE	PER	1	
		REVISED PE	R	REVISED PER OWNER NAME CHANGE		
	DATE	35/29/2024 REVISED PER STREAM BAANK STABILIZATION	08/06/2024	11/07/2024		



WELL PAD & WATER CONTAINMENT PAD LINCOLN DISTRICT COUNTY, WEST VIRGINIA MAYFIELD TYLER

COVER SHEET



DATE: 02/22/2024 SCALE: AS SHOWN

SHEET 1 OF 29 02/07/2025

WVDOH	COUNTY	ROAD	MAP	
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		. 7.3	-	
Lanne	1	位 型	1.	100
5000	SCALE: 1" =	5000	0	

ISS Utility of West Virginia 1-800-245-4848 West Virginia State Law Section XIV: Chapter 24-C) equires that you call two ness days before you dig in he state of West Virginia. IT'S THE LAW!!

