

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, January 29, 2025 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit approval for Turtle 5V

47-085-10542-00-00

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: Turtle 5V

Farm Name: Eric A Flynn Jr.

U.S. WELL NUMBER: 47-085-10542-00-00

Horizontal 6A New Drill Date Issued: 1/29/2025

API Number: 47-085-10542

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

- 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.
- 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.
- 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.
- 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.
- 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)

OPERATOR WELL NO. Turtle Unit 5V
Well Pad Name: Turtle Pad

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

1) Well Operator:	Antero Reso	ources Corpor	494	507062	085-Ritch	ie Union	Pullman
-,			Ope	erator ID	County	District	Quadrangle
2) Operator's Well !	Number: Tur	rtle Unit 5V		Well Pa	d Name: Tu	ırtle Pad	
3) Farm Name/Surfa	ace Owner:	Eric A. Flynn	Jr.	Public Ro	ad Access:	County Road	17/10
4) Elevation, curren	t ground:	1167'	Elevatio	on, proposed	post-constru	uction: 1141	t
5) Well Type (a) Oth		Oil _		Und	derground St	orage	
(b)I	- 12.110	llow X izontal X		_ Deep	1		-
6) Existing Pad: Ye	s or No No						
7) Proposed Target Marcellus Shale:							:
8) Proposed Total V	ertical Deptl	h: 6700' TVD					
9) Formation at Tot							
10) Proposed Total	Measured De	epth: 6700' N	MD				
11) Proposed Horiz	ontal Leg Le	ngth: 0'					
12) Approximate Fi	resh Water St	trata Depths:	273	, 1136'			Office of Oil and God
13) Method to Dete	rmine Fresh	Water Depths:	47-08	5-03002, 4	7-085-0500	0	IAM 9 7 2025
14) Approximate Sa	altwater Dept	ths: 1800'					JAN 2 1 2023
15) Approximate C	oal Seam De	pths: 780, 89	4'				WV Department of Environmental Protection
16) Approximate D				arst, other):	None Antic	cipated	Totection
17) Does Proposed directly overlying of				Yes		No X	
(a) If Yes, provide	e Mine Info:	Name:					
		Depth:					
		Seam:					
		Owner:					

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4708510542

OPERATOR WELL NO. _Turtle Unit 5V
Well Pad Name: _Turtle Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	1186'	1186'	CTS, 1236 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	6700'	6700'	761 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	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	2500	Lead-H/POZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners					1		

PACKERS

Office of Oil and Gas

Kind:	N/A	JAN 27 2025
Sizes:	N/A	Environmental Protection
Depths Set:	N/A	

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OPERATOR WELL NO. Turtle Unit 5V Well Pad Name: Turtle Pad

Drill, perforate, fracture a new shallow well and complete Marcellus Shale.	
20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and n	nax rate:
Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the production. The fluid will be comprised of approximately 99 percent water and sand, with percent special-purpose additives as shown in the attached "List of Anticipated Additive Fracturing or Stimulating Well."	th less than 1
Anticipated Max Pressure - 9300 lbs Anticipated Max Rate - 80 bpm	
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 107.39 acre 22) Area to be disturbed for well pad only, less access road (acres): 3.44 acres	S
23) Describe centralizer placement for each casing string:	
conductor: no centralizers urface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hol o surface. ntermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface. rroduction Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.	e HECEIVED
	Office of Oil str
24) Describe all cement additives associated with each cement type:	Ollins
Conductor: no additives, Class A cement. Furface: Class A cement with 2-3% calcium chloride and 1/4 lb of flake Intermediate: Class A cement with 1/4 lb of flake, 5 gallons of clay treat Production: Lead cement-50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51	JAN 27 WV Departies

Surface: blowhole clean with air, trip conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pip

Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing,

10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls 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

circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

*Note: Attach additional sheets as needed.

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

capacity +40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

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01/31/2025

TURTLE PAD ANTERO RESOURCES CORPORATION



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Office of Oil and Gas

JAN 27 2025

WV Department or Environmental Protection

WILLOW LAND SURVEYING, PLLC
P.O. BOX 17, PENNISBORO, WV 26415
(304) 659-1717

DATE: 12/4/24 DRAWN BY: D.L.P.

JOB #: 23-019WA FILE: TURTLE5VAOR.DWG SCALE: 1-INCH = 500-FEET 0' 500' 1000'

1500'

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47085024350000	FORD SNODGRASS	1	CHARITY GAS INC	COFFMAN OIL & GAS	2,075	Name of Street, or other Designation of the Owner, where the Parket of the Owner, where the Owner, which is the Owner,	IN COLUMN TWO IS NOT THE OWNER, THE PARTY OF THE OWNER, THE PARTY OF THE OWNER, THE PARTY OF THE OWNER, THE OW	

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Office of Oil and Gas

JAN 27 2025

WV Department of Environmental Protection



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WW 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.,)			
RELATING TO THE CEMENTING)			
OF OIL AND GAS WELLS)			RECEIVED
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JAN 27 2025

REPORT OF THE OFFICE

WV Department of Environmental Protection

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

- 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.
- 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.
- 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.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

01/31/2025

Office of Oil and Gas

JAN 27 2025

Wy Department III



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

December 17, 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 Turtle Unit 5V Ritchie 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 (Turtle Unit 5V) on the Turtle 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

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JAN 27 2025

WV Department it Environmental Protection WW-9 (4/16)

API Number 47 -	085	
Operator's	Well No.	Turtle Unit 5V

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) South Fork Hughes River	Quadrangle Pullman
Do you anticipate using more than 5,000 bbls of water to con	mplete the proposed well work? Yes V No
Will a pit be used? Yes No	
If so, please describe anticipated pit waste: No pl will	be used at this size (Drilling and Flowback Fluids will be stored in tunks. Cuttings will be tanked and hauled off size.)
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	
	mit Number *UIC Permit # will be provided on Form WR-34
	iltted well tocations when applicable. API# will be provided on Form WR-34
Off Site Disposal (Supply form w	VW-9 for disposal locatior(Meadowfill Landfill Permit #SWF-1032-98) Northwestern Landfill Permit #SWF-1025/
out (Explain_	WV0109410
Will closed loop system be used? If so, describe: Yes, fluids	Wetzel Co Landfill Permit #SWF-1021 a stored in tanks, cuttings removed offsite and taken to landfill.
	Surface - Air/Freshwater, bitermediate -
Drilling medium anticipated for this well (vertical and horizon	No. of the Control of
-If oil based, what type? Synthetic, petroleum, etc.	Synthetic
Additives to be used in drilling medium? Please See Attachm	nent
Drill cuttings disposal method? Leave in pit, landfill, remov	ed 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? Meadowill	Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV0109410)
	Landfill (Permit #SWF-1021)
Permittee shall provide written notice to the Office of Oil and	d Gas of any load of drill cuttings or associated waste rejected at any
Permittee shall provide written notice to the Office of Oil and West Virginia solid waste facility. The notice shall be provid	
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Operator's Well No. Turtle Unit 5V

Lime 2-4	nt: Acres Disturbed 107.39	Prevegetation p	н	
Lime -	Tons/acre or to correct to pH	6.5		
Fertilizer type Hay or st	raw or Wood Fiber (will be used	where needed)		
Fertilizer amount 500	n-	os/acre		
Mulch 2-3	Tons/s	acre		
Access Road "A" (10	0.77) + Access Road "B" (16.06)+ Access I 2.59) + Staging Area "B" (10.21) + Well J	Road "C" (3.46) + Access Road "D" (25.50) + Acce Pad (3.44) + Excess/Topsoil Material Stockpiles (24	es Road "H" (0.42) + Staging Area 1.94) = 107.39 Acres	
Temp	Drary	Perm	anent	
Seed Type	lbs/acre	Seed Type	Ibs/acre	
Annual Ryegrass	40	Crownvetch	10-15	
Field Bromegrass	40	Tall Fescue	30	
See attached Table IV-3 for additional	seed type (Turtle Pad Design)	See attached Table IV-4A for addition	al seed type (Turtle Pad Design	
or type of grass seed reque	ested by surface owner	*or type of grass seed requested by surface owner		
an Approved by:	m Mar			
omments:	//			
			RECEIVED	
			Office of Oil and	
			Office of Oil and Gas	
			Office of Oil and	

Form WW-9 Additives Attachment

SURFACE INTERVAL

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

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

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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

19. Terra-Rate

Organic Surfactant Blend

20. W.O. Defoam

Alcohol-Based Defoamer

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

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WV Department of Environmental Protection



911 Address 3220 Turtle Run Rd Pullman, WV 26421

Well Site Safety Plan Antero Resources

Well Name: Turtle Unit 5V

Pad Location: TURTLE PAD

Ritchie County/Union District

GPS Coordinates:

Entrance - Lat 39.161266/Long -80.933196(NAD83)

Pad Center - Lat 39.164318/Long -80.923636 (NAD83)

Driving Directions:

- 1. From US-50 turn south onto WV-74 and travel for 11.1 miles
- 2. Turn left onto the Lease Road

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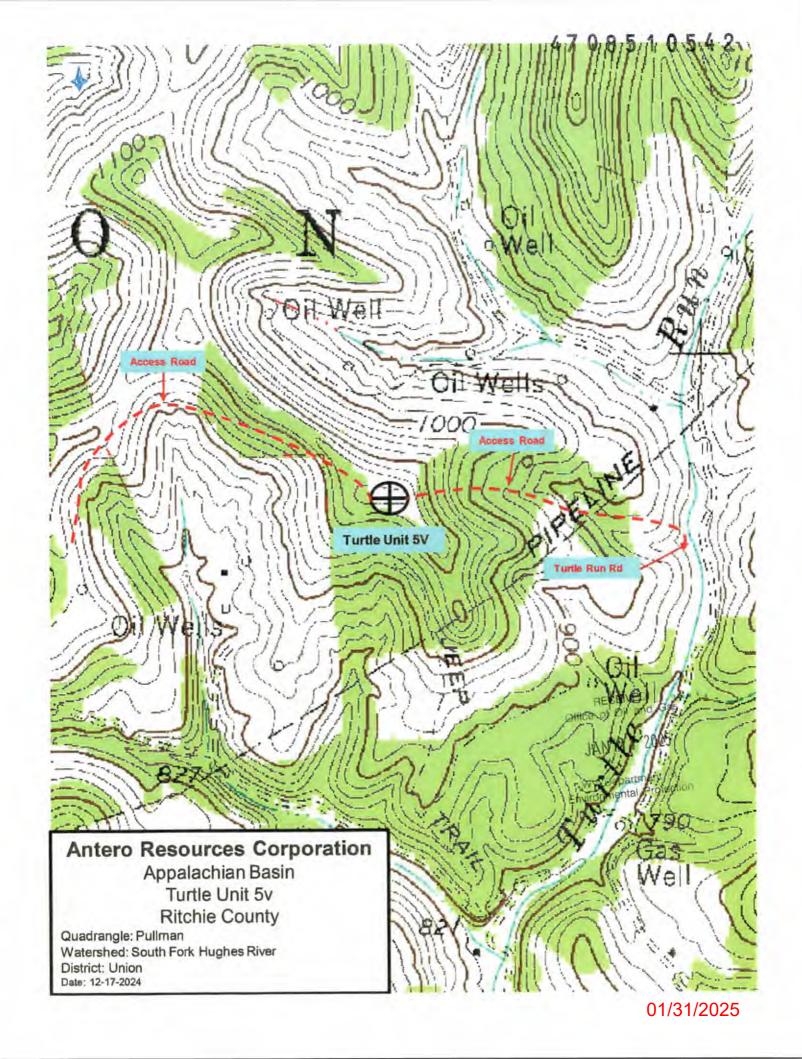
JAN 27 2025

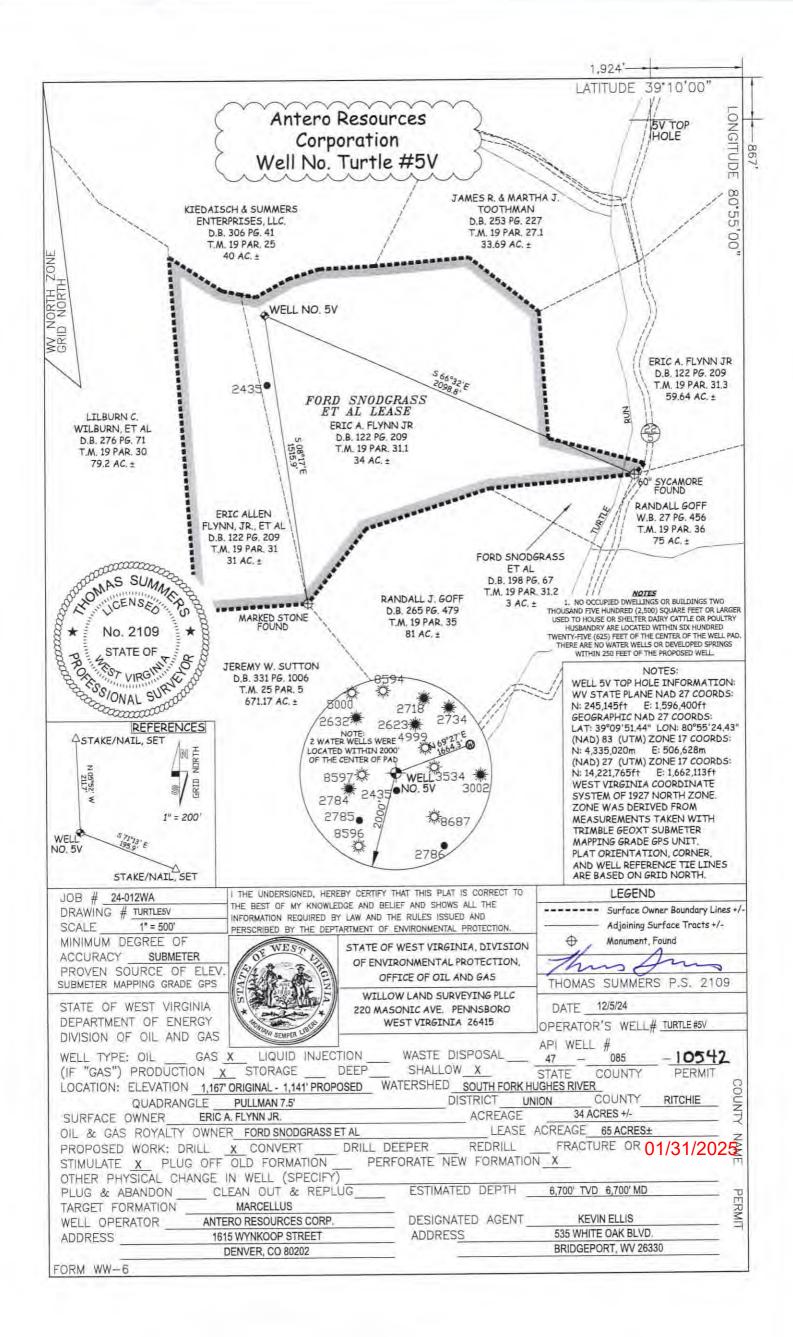
WV Department of Environmental Protection

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

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WW-6A1 (5/13)

Operator's Well No.	Turtle Unit 5V

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
Ford Snodgrass, et al Lease:				
	Ford Snodgrass, et al J. E. Beck and L. B. Coffman	J. E. Beck and L. B. Coffman United Operating Company	1/8 Assignment	85/494 118/338
	United Operating Company Buttes Resources Company Earl Stewart	Buttes Resources Company Earl Stewart JJC	Assignment Assignment	118/247 128/286
	JIC	Key Oil Company	Assi gnment Assi gnment	205/483 229/19
	Key Oil Company Antero Resources Appalachian	Antero Resources Appalachian Antero Resources Corporation	Assignment Name Change	253/747 1 5/70 5

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WV Department of Environmental Protection

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

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

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

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

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



December 19, 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

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Office of Oil and Gas

DEC 2 6 2024

WV Department of

RE:

Turtle Unit 5V

Quadrangle: Pullman

Ritchie County/Union District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Turtle Unit 5V 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 Turtle Unit 5V horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Anthony Hoehler

Landman

Date of Notice Certification: 12/19/2024

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DEC 2 6 2024

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

		Ar	E 140, 47- VOS -	
			erator's Well No. Turt	le Unit 5V
			li Pad Name: Turtie F	
Notice has	been given:			
Pursuant to the	ne provisions in West Virginia Code § 22	-6A, the Operator has provided	d the required parties v	with the Notice Forms listed
DETOM TOT THE	maci of land as follows:			
State:	West Virginia		ting: 506627.66m	
County:	Ritchie	No:	thing: 4335020.07m	
District:	Union	Public Road Access:	County Road 7/1	10
Quadrangle:	Pullman	Generally used farm i	name: Eric A. Flynn, Jr.	
Watershed:	South Fork Hughes River			
in has provided information representation of giving the requirements Virginia Code	the secretary, shall be verified and shall ed the owners of the surface described equired by subsections (b) and (c), section surface owner notice of entry to survey of subsection (b), section sixteen of the \$22-6A-11(b), the applicant shall tended have been completed by the applicant.	in subdivisions (1), (2) and (n sixteen of this article; (ii) the pursuant to subsection (a), s is article were waived in writ	 subsection (b), set the requirement was section ten of this artifice on the surface or 	ction ten of this article, the deemed satisfied as a result icle six-a; or (iii) the notice
Pursuant to	West Virginia Code § 22-6A, the Operat	or has attached proof to this N	lotice Certification	
that the Ope	rator has properly served the required pa	rties with the following:	ouce estatication	
	ECK ALL THAT APPLY			OOG OFFICE USE
				ONLY
□ 1. NO	TICE OF SEISMIC ACTIVITY or SE	NOTICE NOT REQUIRED ISMIC ACTIVITY WAS CO		RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURVEY	or NO PLAT SURVEY V	VAS CONDUCTED	☐ RECEIVED
■ 3. NO	NO	NOTICE NOT REQUIRED OTICE OF ENTRY FOR PLATAS CONDUCTED of		RECEIVED/ NOT REQUIRED
		WRITTEN WAIVER BY S (PLEASE ATTACH)	URFACE OWNER	,
■ 4. NO	TICE OF PLANNED OPERATION			RECEIVED
■ 5. PUE	SLIC 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:

6A. I certify that as required under West Virginia C above, to the required parties through personal serv signature confirmation. I certify under penalty of law	ode § 22-6A, I have so ice, by registered mail that I have personally	or by any method of delivery the examined and am familiar with the	lotice Forms, identified at requires a receipt or e information submitted
in this Notice Certification and all attachments, ar	nd that based on my i	nquiry of those individuals imme	ediately responsible for
obtaining the information, I believe that the informati	ion is true, accurate and	d complete. I am aware that there a	are significant penalties
for submitting false information, including the possibi	ility of fine and impriso	onment.	
Well Operator: Antero Resources Corporation	Address:	1615 Wynkoop Street	
By: Jon McEvers / DIVINE	veis	Denver, CO 80202	
Its: Senior VP of Operations	Facsimile:	303-357-7373	
Telephone: 303-357-6799	Email:	cwren@anteroresources.com	
CARLYOTARY EVALEN NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20224038743 MY COMMISSION EXPIRES 10/05/2026	^	om before me this 17 day of 1 24406 WREN spires 10-5-210	Notary Public

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.

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DEC 2 6 2024

WV Department of Environmental Protection

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API NO. 47-085

OPERATOR WELL NO. Turtle Unit 5V
Well Pad Name: Turtle 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: 12/20/2024 Date Permit Application Filed: 12/20/2024 Notice of: RECEIVED Office of Oil and Gas PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE DEC 2 6 2024 WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT WV Department of Environmental Protection 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: PLEASE SEE ATTACHMENT Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: Address: Name: COAL OPERATOR Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: Address: □ SURFACE OWNER(s) (Road and/or Other Disturbance) WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, Name: SPRING OR OTHER WATER SUPPLY SOURCE Address: Name: NONE WITHIN 1500' Name: Address: Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Address: Name: Address: *Please attach additional forms if necessary

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API NO. 47- 085

OPERATOR WELL NO. Turtle Unit 5V

Well Pad Name: Turtle 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 and one of the secretary of the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting and one of the secretary of the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting and one of the secretary of the WV Department of the WV Depar

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 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

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API NO. 47-085

OPERATOR WELL NO. Turtle Unit 5V

Well Pad Name: Turtle 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 supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state supplies in accordance with the state owner and water purveyor has an independent right consult with the state of the supplies 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:

WV Department of Environmental Protection

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

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. 47-085 5 1 0 5 4 2
OPERATOR WELL NO. Turtle Unit 5V
Well Pad Name: Turtle 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.

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WV Department of Environmental Protection

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.

APINO. 47-086 5 1 0 5 4 2
OPERATOR WELL NO. Turtle Unit 5V
Well Pad Name: Turtle Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7373
Email: cwren@anteroresources.com

1

Address: 1615 Wynkoop Street
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.

CARLY RAYNE WREN
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20224038743
MY COMMISSION EXPIRES 10/05/2026

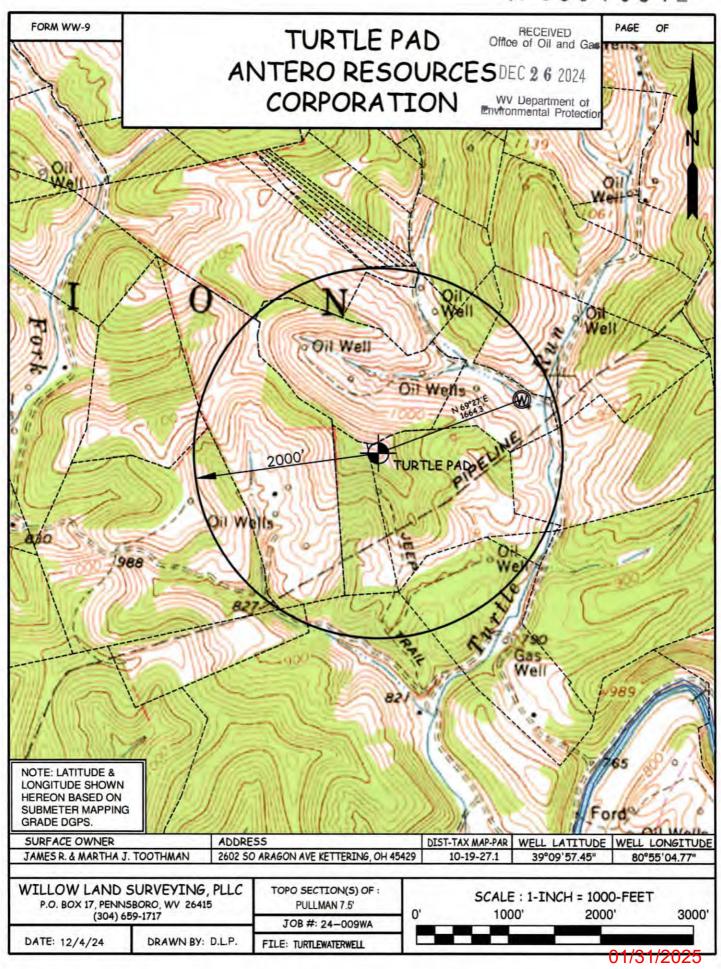
Subscribed and sworn before me this 17 day of Dec. 2024.

Carry Public My Commission Expires 10-6-20

RECEIVED
Office of Oil and Gas

DEC 2 6 2024

WV Department of Environmental Protection



WW-6A – NOTICE OF APPLICATION

NOTICE IS HEREBY PROVIDED TO THE SURFACE OWNERS:

Kiedaisch & Summers Enterprises, LLC P.O. Box 254 Harrisville, WV 26362

Dianne Skinner 8176 Pullman Road Pennsboro, WV 26415

Robert Keith Milton, II 264 Stewarts Run Road Harrisville, WV 26362

Marion Rollins

155 Diamond Drive

Davisville, WV 26142

Terrance M. & Deborah J. Snodgrass - 229 Mykayla Lane Harrisville, WV 26362

Eric Allen Fynn, Jr. 43287 Jone Road Wellington, OH 44090

Marilyn Garfield
21531 Hawley Road
Wellington, OH 44090

John Goff, Jr. 979 Auburn Road Pullman, WV 26421 RECEIVED
Office of Oil and Gas

DEC 2 6 2024

WV Department of Environmental Protection

47 085 10542

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.

Date of Notice	11/12/2024		d at least TEN (10) days prior to filing a Permit Application Filed:12/20/2024	
Delivery meth	od pursuant	to West Virginia Code	§ 22-6A-16(b)	
☐ HAND	•	CERTIFIED MAIL		
DELIVE	RY	RETURN RECEIPT F	REQUESTED	
receipt request drilling a horize of this subsection subsection may	ed or hand del contal well: Prion as of the day be waived in	ivery, give the surface of rovided, That notice give ate the notice was provi- writing by the surface of	owner notice of its intent to enter upon the ven pursuant to subsection (a), section to ded to the surface owner: <i>Provided</i> , how	an operator shall, by certified mail return the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this tude the name, address, telephone number, or's authorized representative.
Nation is how	ahr: provida	d to the SUDEACE	WNED(s).	Office of Oil and Gae
Notice is ner Name: PLEASE S		d to the SURFACE (Name:	of Oil and Gam
			Address:	HECO
iddi caa.			Address.	WV Department of
	est Virginia C			well operator has an intent to enter upon
Pursuant to W the surface ow State:	est Virginia C		ice is hereby given that the undersigned horizontal well on the tract of land as for UTM NAD 83 Easting: Northing:	well operator has an intent to enter upon
Pursuant to W the surface ow State: County:	est Virginia C ner's land for West Virginia		horizontal well on the tract of land as for Easting:	well operator has an intent to enter upon ollows: 506627.66m
Pursuant to W the surface ow State: County: District:	est Virginia C ner's land for West Virginia Ritchie		urm NAD 83 Easting: Northing:	well operator has an intent to enter upon ollows: 506627.66m 4335020.07m
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Pursuant to W the surface ow State: County: District: Quadrangle: Watershed: This Notice: Pursuant to W facsimile num related to hori located at 601 Notice is her Well Operator	est Virginia C ner's land for West Virginia Ritchie Union Pullman South Fork Hughe Vest Virginia ber and electr zontal drilling 57th Street, SE	the purpose of drilling a server e: Code § 22-6A-16(b), the conic mail address of the may be obtained from the conic mail address of the conic mail address of the conic may be obtained from the conic may be obtained	his notice shall include the name, addition of the operator and the operator's authorized the Secretary, at the WV Department of the Country of the Secretary at the WV Department of the Authorized Representative:	well operator has an intent to enter upon ollows: 506627.66m 4335020.07m County Road 7/10 Eric A. Flynn Jr ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
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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-6A4 - NOTICE OF INTENT TO DRILL

NOTICE IS HEREBY PROVIDED TO THE <u>SURFACE OWNERS</u>:

Kiedaisch & Summers Enterprises, LLC P.O. Box 254 Harrisville, WV 26362

Dianne Skinner 8176 Pullman Road Pennsboro, WV 26415

Robert Keith Milton, II 264 Stewarts Run Road Harrisville, WV 26362

Marion Rollins 155 Diamond Drive Davisville, WV 26142

Terrance M. & Deborah J. Snodgrass 229 Mykayla Lane Harrisville, WV 26362

Eric Allen Fynn, Jr. 43287 Jone Road Wellington, OH 44090

Marilyn Garfield 21531 Hawley Road Wellington, OH 44090

John Goff, Jr. 979 Auburn Road Pullman, WV 26421 Office of Oil and Gas

DEC **2 6** 2024

WV Department of Environmental Protection WW-6A5 (1/12)

Operator Well No. Turtle Unit 5V

4708510542

STATE OF WEST VIRGINIA 47 0 6 3 1 0 . DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

	ce: 12/20/2024 Date Permit	Application Filed: 12/2		
Delivery met	thod pursuant to West Virginia Code	§ 22-6A-16(c)		
	FIED MAIL RN RECEIPT REQUESTED	HAND DELIVERY		
return receipt the planned or required to be drilling of a damages to the	requested or hand delivery, give the sur- operation. The notice required by this e provided by subsection (b), section ten horizontal well; and (3) A proposed su- ne surface affected by oil and gas operation	rface owner whose land subsection shall inclu- n of this article to a surf- arface use and compens- tions to the extent the da	d will be used for de: (1) A copy ace owner whose sation agreement amages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
Notice is her	eby provided to the SURFACE OWN	ER(s)		Office RECEIVED DEC 9 0
(at the address	s listed in the records of the sheriff at th			DEC 2 6 2024
	SEE ATTACHMENT	Name:		46 202
Address:		Addres	s:	WV Department of Protection
Pursuant to V	Vest Virginia Code 8 22-6A-16(c) notice	to the state of the state of		
operation on State: County:	the surface owner's land for the purpose West Virginia Ritchie	e is hereby given that the of drilling a horizonta	l well on the tra	well operator has developed a planned act of land as follows: 506627.66m 4335020.07m
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State: County: District: Quadrangle:	the surface owner's land for the purpose West Virginia Ritchie Union Pullman	e of drilling a horizonta UTM NAD 8 Public Road	l well on the tra Easting: Northing:	oct of land as follows: 506627.66m 4335020.07m
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Oil and Gas Privacy Notice:

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WW-6A5 – NOTICE OF PLANNED OPERATION

NOTICE IS HEREBY PROVIDED TO THE SURFACE OWNERS:

Kiedaisch & Summers Enterprises, LLC P.O. Box 254 Harrisville, WV 26362

Dianne Skinner 8176 Pullman Road Pennsboro, WV 26415

Robert Keith Milton, II 264 Stewarts Run Road Harrisville, WV 26362

Marion Rollins 155 Diamond Drive Davisville, WV 26142

Terrance M. & Deborah J. Snodgrass 229 Mykayla Lane Harrisville, WV 26362

Eric Allen Fynn, Jr. 43287 Jone Road Wellington, OH 44090

Marilyn Garfield 21531 Hawley Road Wellington, OH 44090

John Goff, Jr. 979 Auburn Road Pullman, WV 26421





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 18, 2024

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

DEC 2 6 2024

WV Department of Environmental Protection

Subject: DOH Permit for the Turtle Well Pad, Ritchie County Turtle Unit 5V Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #03-2024-4303 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off Ritchie County Route 74 WV MP 10.656.

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

Racy D. Prott

Cc: Carly Wren

Antero Resources Corporation

OM, D-3

File

List of Anticipated Additives Used for Fracturing or Stimulating Well 47 0 8 5 1 0 5 4 2

Additives	Chemical Abstract Service Number
Fresh Water	(CAS #) 7732-18-5
2 Phosphobutane 1,2,4 tricarboxylic acid	7/32-18-3 37971-36-1
Ammonium Persulfate	7727-54-0
Anionic copolymer	Proprietary
Anionic copolymer	Proprietary
BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
Cellulase enzyme	Proprietary
Demulsifier Base	Proprietary
Ethoxylated alcohol blend	Mixture
Ethoxylated Nonylphenol	68412-54-4
Ethoxylated oleylamine	26635-93-8
Ethylene Glycol	107-21-1
Glycol Ethers	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
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
Tar bases, quinoline derivs, benzyi 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: Turtle Unit 5V
PAD NAME: Turtle Pad	
REVIEWED BY: Mallory Turco	SIGNATURE: May Tun
WELL RESTRI	ONTAL 6A WELL
HORIZO	ONTAL 6A WELL DEC 2 6 2024
Well Restrictions	WV Department of Environmental Protection
At Least 100 Feet from Pad and L Perennial Stream, Lake, Pond, Re	OD (including any E&S Control Feature) to any
DEP Waiver and Permit C	onditions
At Least 300 Feet from Pad and I Naturally Producing Trout Stream	LOD (including any E&S Control Feature) to any n; OR
DEP Waiver and Permit C	onditions
At Least 1000 Feet from Pad and Groundwater Intake or Public Wa	LOD (including any E&S Control Feature) to any ater Supply; OR
DEP Waiver and Permit C	Conditions
At Least 250 Feet from an Existin Drilled; OR	ng Water Well or Developed Spring to Well Being
Surface Owner Waiver an	d Recorded with County Clerk, OR
DEP Variance and Permit	Conditions
At Least 625 Feet from an Occup	ied Dwelling Structure to Center of the Pad; OR
Surface Owner Waiver an	d Recorded with County Clerk, OR
DEP Variance and Permit	Conditions
At Least 625 Feet from Agricultu of the Pad; OR	ral Buildings Larger than 2500 Square Feet to the Center
Surface Owner Waiver an	d Recorded with County Clerk, OR
DEP Variance and Permit	Conditions

LOCATION COORDINATES

ACCESS ROAD ENTRANCE (CO RT 74)
LATITUDE: 39:150630 LONGITUDE: -80.941815 (NAD 83)
LATITUDE: 39:150647 LONGITUDE: -80.941785 (NAD 27)
N 4333493.98 E 505044.90 (UTM ZONE 17 METERS)

ACCESS ROAD ENTRANCE (CO RT 7/10)
LATITUDE: 39.161266 LONGITUDE: -80.933196 (NAD 83)
LATITUDE: 39.161183 LONGITUDE: -80.933366 (NAD 27)
N 4334674.84 E 505771.55 (UTM ZONE 17 METERS)

ACCESS ROAD ENTRANCE (CO RT 22/5) LATITUDE: 39.162371 LONGITUDE: -80.916188 (NAD 83)
LATITUDE: 39.162371 LONGITUDE: -80.916358 (NAD 27)
N 4334807.87 E 507241.00 (UTM ZONE 17 METERS)

LATITUDE: 39.164318 LONGITUDE: -80.923636 (NAD 83) LATITUDE: 39.164235 LONGITUDE: -80.923806 (NAD 27) N 4335014.16 E 506597.18 (UTM ZONE 17 METERS)

GENERAL DESCRIPTION:

THE ACCESS ROAD(S), 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 #54085C0215C

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:&
STREAM AND WETLAND DELINEATIONS WERE PERFORMED IN NOVEMBER, 2024 BY ALLSTAR ECOLOGY &
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 (WVDEP). THE NOVEMBER 18, 2024 STREAM AND WETLAND
DELINEATION INDEX MAP WAS PREPARED BY ALLSTAR ECOLOGY, & THE NOVEMBER 16, 2024 STREAM AND
WETLAND DELINEATION INDEX MAP WAS PREPARED BY ALLSTAR ECOLOGY, & THE NOVEMBER 16, 2024 STREAM AND
THE FIELD DELINEATION. THE 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

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.

THE PROPOSED ACCESS ROAD CUT SLOPE (1.5.1) SHALL BE FIELD VERIFIED BY A CERTIFIED GEOTECHNICAL ENGINEER TO ENSURE THE PROPOSED SLOPES ARE ADEQUATE PRIOR TO CONSTRUCTION. ACCESS ROAD CONSTRUCTION SHALL BE MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER OR PROJECT DESIGN ENGINEER DURING CONSTRUCTION.

A SUBSURFACE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY PENNSYLVANIA SOIL & ROCK, INC. ON _____, 2024. THE REPORT PREPARED BY PENNSYLVANIA SOIL & ROCK, INC. DATED ______, 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) B42-4100 FAX: (304) B42-4102

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

JON MCEVERS - SVP OPERATIONS OFFICE: (303) 357-6799

AARON KUNZLER - CONSTRUCTION MANAGER CELL: (304) 842-4191

ROBERT WIRKS - DESIGN MANAGER OFFICE (304) 842-4100 CELL: (304) 627-7405

TI MCCULLOUGH - UTILITY COORDINATOR CELL: (304) 641-9827

DAVID PATSY - LAND AGENT CELL (304) 475-6090

ENGINEER/SURVEYOR:
NAVITUS ENGINEERING, INC.
CYRUS S. KUMP, PE - PROJECT MANAGER/ENGINEER OFFICE: (888) 662-4185 CELL: (540) 586-8747

ENVIRONMENTAL: KLEINFELDER MATT ALBRIGHT - PROJECT MANAGER OFFICE: (724) 772-7072 CELL: (809) 947-5296

ENVIRONMENTAL: ALISTAR ECOLOGY, LLC RYAN L WARD - ENVIRONMENTAL SCIENTIST (868) 213-2866 CELL: (304) 692-7477

GEOTECHNICAL.

PENNSYLVANIA SOIL & ROCK, INC.

CHRISTOPHER W SAMIOS - PROJECT ENGINEER

OFFICE: (412) 372-4000 CELL. (412) 589-0862

- RESTRICTIONS NOTES:

 1. THERE ARE NO LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE WELL PAD AND LOD. THERE ARE STREAM & WEITHAND IMPACTS WITHIN THE LOD THAT WILL NEED PERMITTED BY APPROPRIATE AGENCIES.

 2. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND LOD.

 3. THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE WEIGHT OF THE W
- 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 625
 FEET OF THE CENTER OF THE WELL PAD.

TURTLE RUN W SITE DESIGN & CONSTR EROSION & SEDIMENT C

UNION DISTRICT, RITCHIE C SLAB CREEK-SOUTH FORK HUGHES

PULLMAN USGS 7.5 QUAD SYSTEM COORDINATE × CPS WEST VIRGINIA STATE PLANE COO NORTH ZONE, NADBS ELLEVATION BASED ON NAVDBB ESTABLISHED BY SURVEY GRADE POST-PROCESSING SITE ENTRANCE



(NOT TO SCALE)

DESIGN CERTIFICATION:
THE DRAWINGS, CONSTRUCTION NOTES, AND
REFERENCE DIAGRAMS ATTACHED HERETO HAVE
HEEN PREPARED IN ACCORDANCE WITH THE
WEST VIRGINIA CODE OF STATE RULES, DIVISION
OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL
AND CAS CRS 25-8

REPRODUCTION NOTE

THESE PLANS WERE CREATED TO BE PLOTTED ON \$27KM (ANS 0) PAPER HALD SHALE DRAWINGS ARE ON 117KF (ANS) B) PAPER

Well Name NAD 2 TURTLE N 245144 8 UNIT SV



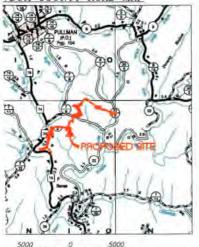
ELL PAD UCTION PLAN, ONTROL PLANS

UNTY, WV IVER WATERSHED

MAP(S)



VDOH COUNTY ROAD MAP



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!!

= 5000

SCALE!

D 27 Lat & Long	MAD 83 UTM (METERS) ZONE 17	NAD 63 Lat & Long
Purn	with a Location	The same of the same of
39-09-51 4361	N 4335020 DB	LAT 39-09-51 7360
/G -80-55-24 4321	E: 506827 BB	LONG -80-65-23.8190.

SHEET INDEX:

1 — COVER SHEET
2 — CONSTRUCTION AND E&S CONTROLS NOTES
3 — LEGEND
4 — MATERIAL QUANTITIES
5 — STORM DRAINAGE & E&S COMPUTATIONS
6 — STORM DRAINAGE & E&S COMPUTATIONS
7-8 — EMISTING CONDITIONS
9-10 — OVERALL PIAN SHEET INDEX & VOLUMES
11 — ACCESS ROAD PLAN
12 — ACCESS ROAD & STOCKPILE PLAN
13 — ACCESS ROAD & STOCKPILE PLAN
14-15 — ACCESS ROAD & STOCKPILE PLAN
16 — ACCESS ROAD & STAGING AREA "A" PLAN
16 — ACCESS ROAD & STOCKPILE PLAN
17 — ACCESS ROAD & STOCKPILE PLAN
18 — ACCESS ROAD & STOCKPILE PLAN
19 — ACCESS ROAD & STOCKPILE PLAN
20 — ACCESS ROAD & STOCKPILE PLAN

Access Road "A" (2009) Access Road "B" (3289) Access Road "C" (648) Access Road "D" (6159)

Access Road "H" (139') Staging Area "A"

Staging Area "B" Well Pad

Excess/Topsoil Material Stockpiles

Total Affected Area Total Wooded Acres Disturbed Impacts to Shella Ross Cox

Access Road *A

Total Affected Area

Total Affected Area

Access Road "A"

Total Affected Area Total Wooded Acres Disturt

Total Affected Area

npacts to Germaine Unis Access Road "A" (89")

ss/Topsoil Material Stockp

Total Affected Area

otal Wooded Acres Disturbed cts to John R. & Germaine L

Access Road "A" (1096") Staging Area "A" Topsoil Material Sto

Total Affected Area

Access Road "A Access Road "B" Staging Area Excess/Topsoil Material Stockpiles
Total Affected Area

otal Wooded Acres Disturt

Access Road "B" (936") Staging Area "A"

Excess/Topsoil Material Stockpiles
Total Affected Area

Total Wooded Acres Disturbe

acts to Ernest H. & Reta M. C

impacts to Jeremy Sutton TM 25-4

Impacts to County RT 74 Access Road "A" (25)

Impacts to Jimmie L. Brake TM 25-7

impacts to Jimmie L. Brake TM 25

TURTLE RUN LIMITS OF DISTURBANCE AREA (AC)

3.46

12.59

10.21 3.44

24.94

83.23

0.11

0.11

0.54

0.54

0.14

3.35

3.35 2.18

0.63

4 28

4.91

1 25-2.2

10.96

0.83

10.72

10 49

1.77

2 48

8.58

19-33

21-26 - ACCESS ROAD PROFILE
27-34 - ACCESS ROAD SECTIONS
35 - STAGING AREA & WELL PAD SECTIONS
36 - WELL PAD SECTIONS
37 - STOCKPILE SECTIONS
38-39 - STREAM CROSSING DETAILS
40-49 - CONSTRUCTION DETAILS
49 - ACCESS ROAD RECLAMATION PLAN
50 - ACCESS ROAD & STOCKPILE RECLAMATION PLAN
51 - ACCESS ROAD & STOCKPILE RECLAMATION PLAN
52-53 - ACCESS ROAD & STOCKPILE RECLAMATION PLAN
55 - ACCESS ROAD & STOCKPILE RECLAMATION PLAN
56 - ACCESS ROAD & STOCKPILE RECLAMATION PLAN
57 - ACCESS ROAD & STOCKPILE RECLAMATION PLAN
58 - ACCESS ROAD & STOCKPILE RECLAMATION PLAN
59 - ACCESS ROAD & STOCKPILE RECLAMATION PLAN
50 - ACCESS ROAD & STOCKPILE RECLAMATION PLAN
51 - ACCESS ROAD & STOCKPILE RECLAMATION PLAN
52 - ACCESS ROAD & STOCKPILE RECLAMATION PLAN
55 - ACCESS ROAD & STOCKPILE RECLAMATION PLAN

Impacts to Josey C. Napler TM 19	
Access Road "B" (1110")	5.51
Excess/Topsoil Material Stockpiles	0.05
Total Affected Area	5.56
Total Wooded Acres Disturbed	5.52
impacts to Kim & Ray Sulprius & Shella Ro	SS COX TM 19-
Ancess Road "B" (1243')	5.92
Access Road "C" (648')	3.48
Access Road "D" (316')	1.58
Staging Area "B"	10.21
Excess/Topsoil Material Stockpiles	3.59
Total Affected Area	24.86
Total Wooded Agres Disturbed	21.70
Impacts to Lifburn G. Wilburn, Samuel M. G.	
Bohn TM 19-24	
Access Road "D" (945")	4.10
Excess/Topsoil Material Stockpiles	5.38
Total Affected Area	9.48
Total Wooded Acres Disturbed	4.36
Impacts to Kim Suterius TM 19	
Access Road *D* (1944)	6.59
Excess/Topsoil Material Stockpiles	0.66
Total Affected Area	7.35
Total Wooded Acres Disturbed	5.74
Impacts to Kiedaisch & Summers Enterprise	
Access Road *D* (729*)	3.58
Access Road "H"	0.02
Well Pad	0.33
Excess/Topsoil Material Stockpiles	0.16
Total Affected Area	4.07
Total Wooded Acres Disturbed	4.07
Impacts to Multiple Owners See Plan She	
Access Road "D"	0.35
Access Road "H" (139')	0.40
Well Pad	2.96
Excess/Topsoil Material Stockpiles	0.00
Total Affected Area	3.71
Total Wooded Acres Disturbed	3.71
Impacts to Multiple Owners See Plan She	
Access Road "D" (1559')	6.75
Well Pad	0.15
Excess/Topsoil Material Stockpiles	3.09
Total Affected Area	9.99
Total Wooded Acres Disturbed	9.02
Impacts to Multiple Owners See Plan She	ets TM 19-31.3
Access Road "D" (665')	2.47
Excess/Topsoil Material Stockpiles	0.49
Excess ropson waterial Stockpiles	

		Total Income and	Talk House he
Wetland and Impact Cause	Fill (SF)	Total Impact (SF)	(AC)
ASE_Wetland02	1,116	1,116	0.026
KLF Wetland002 (Access Road)	1.086	1.086	0.025

TU	RTLE RUN ER	PHEMERAL STRE	AM IMPACT (LI	NEAR FEET)		
Stream and Impact Cause	Permanent Impacts		Total	Temp. Impacts		THE WALL BY
	Culvert / Fill (LF)	inlets/Outlets Structures (LF)	Permanent Impact (LF)	Cofferdam/ EAS Controls (LF)	Distance To L.O.D. (LF)	Total Temp. Impact (LF)
ASE Stream05 (Access Road)	0	0	0	0	33	33
ASE Stream30 (Well Pad)	27	0	27	30	15	45
ASE Stream31 (Well Pad)	D	0	0	28	17	45
ASE Stream32 (Well Pad)	0	0	0	30	21	51
ASE Stream36 (Stockpile)	0	0	0	21	10	31
KLF Stream001 (Well Pad)	0	0	0	26	13	39
KLF Stream005 (Well Pad)	0	0	0	26	19	45
KLF StreamQ05 (Well Pad)	0	0	0	23	15	38

TUR	TLE RUN INT	ERMITTENT STRE	AM IMPACT (L	NEAR FEET)		
	Permanent Impacts		Total	Temp Impacts		The second
Stream and Impact Cause		Inlets/Outlets Structures (LF)	Permanent Impact (LF)	Controls (LF)	Distance To L.O.D. (LF)	Total Temp. Impact (LF)
KLF_Stream031 (Access Road)	39	13	52	58	18	76.

TURTLE RUN PERENNIAL STREAM IMPACT (LINEAR FEET)								
	Permanent Impacts		Total	Temp.Ir				
Stream and Impact Cause	Culvert/ Fill(LF)	Inlets/Outlets Structures (LF)	Purmanent Impact (LF)	Controls (LF)	Distance To L.D.D. (LF)	Total Temp. Impact (LF)		
Perennial KLF_Turtle Run (Access Road)	91	32	123	48	43	89		

ENGINEE IAV P



THIS DOCUMENT WAS PREPARED FOR: ANTERO RESOURCES CORPORATION

VIRGINIA

RITCHIE

URTLE RUN WELL PAD UNION DISTRICT COUNTY, WEST V

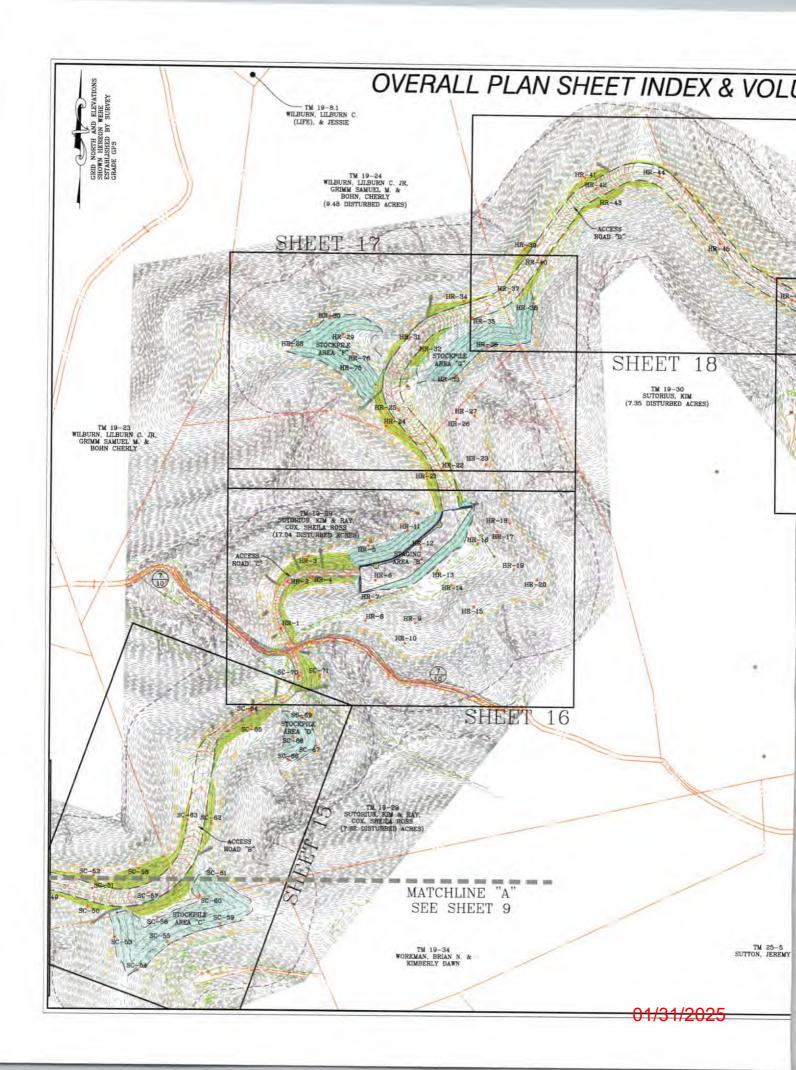
COVER SHEET

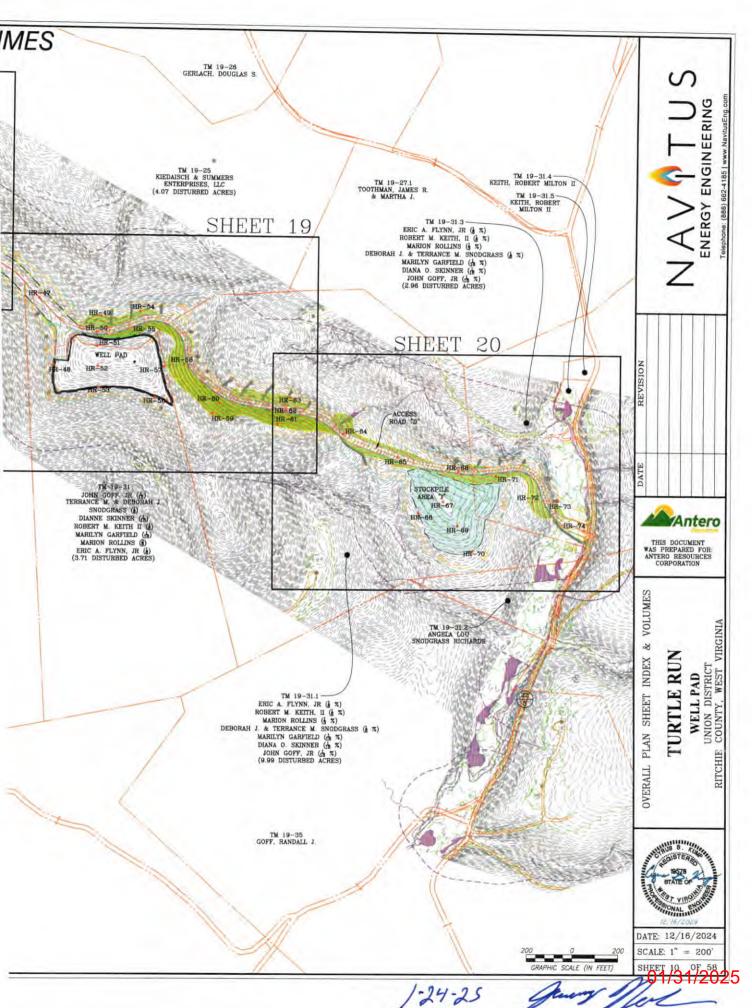


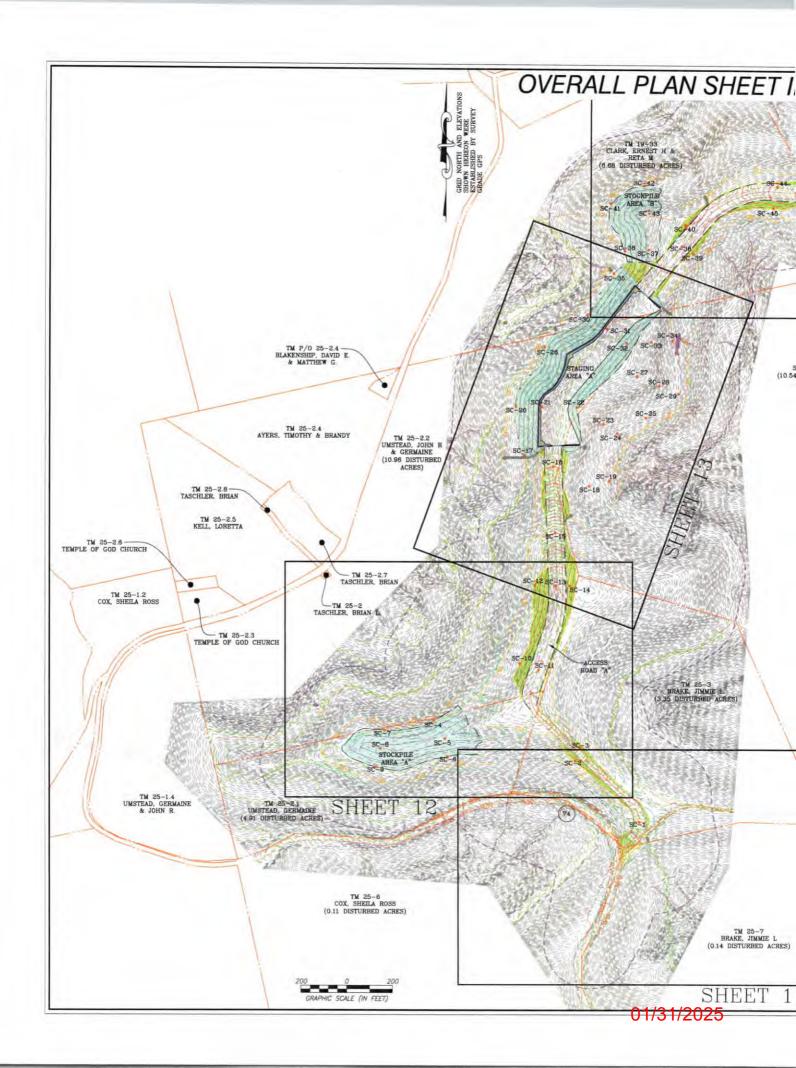
DATE: 12/16/2024 SCALE: AS SHOWN SHEET 1 OF 58

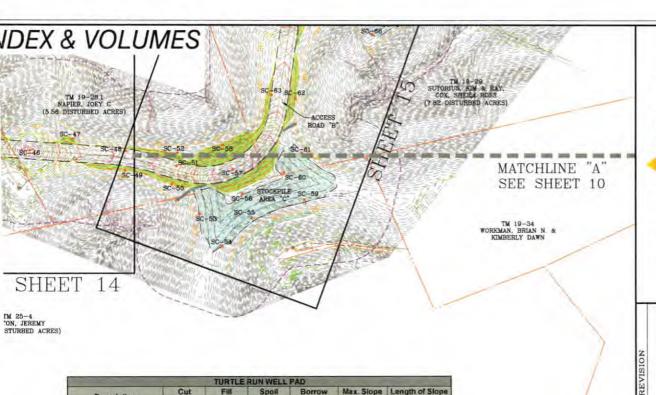
1-24-25

Jung o









TURTLE RUN WELL PAD								
Description	Cut (CY)	Fill (CY)	Spoil (CY)	Borrow (CY)	Max. Slope (%)	Length of Slope (FT)		
Access Road "A"	15,170.7	16,887.9	0.0	1,717.2	15.0	300.0		
Access Road "B"	27,038.8	33,192.4	0.0	6,153.8	15.0	175.0		
Access Road "C"	4,306.2	7,125.7	0.0	2,819.5	15.0	240.0		
Access Road "D"	65,277.7	43,924.8	21,352.9	0.0	15.0	700.0		
Access Road "H"	4,213.7	5.0	4,208.7	0.0	5.0	40.0		
Staging Area "A"	49,262.0	50,673.5	0.0	1,411.5	n/a	r/a		
Staging Area "B"	17,785.3	17,264.0	521.3	0.0	n/a	n/a		
Well Pad	56,010.7	457.1	55,553.6	0.0	n/a	n/a		
Stripped Topsoil (12")	62,338.3	0.0	62,338 3	0.0	n/a	n/a		
Material Stockpiles	0.0	141,340.0	0.0	141,340.0	n/a	n/a		
Totals	301,403.4	310,870.4	143,974.8	153,441.8	n/a	n/a		
	Total 9	Spoil (CY)=	-9,4	67.0				

MATERIAL STOCKPILES					
Name	Excess	Topsoil			
A	0	17,960			
8	19,000	0			
C	0	11,920			
D	0	3,490			
F	25,350	0			
G	23,100	0			
	0	40,520			
TOTAL	67,450	73,890			

TM 25-5.1 SUTTON, JEREMY W TM 25-5 SUTTON, JEREMY W

200.0

OVERALL PLAN SHEET INDEX & VOLUMES

TURTLE RUN

WELL PAD UNION DISTRICT COUNTY, WEST VIRGINIA

Antero

THIS DOCUMENT WAS PREPARED FOR: ANTERO RESOURCES CORPORATION

AAV TU ENERGY ENGINEERING

Telephone: (888) 662-4185 |

DATE: 12/16/2024

SCALE: 1" = 200'

NOTES:

1. THE EARTHWORK QUANTITIES PROVIDED ARE AN ESTIMATE FOR CONSIDERATION. THE QUANTITIES SHOWN ARE CALCULATED USING A 1:1 CUT/SWELL & FILL SHRINK FACTOR. THE EXCESS MATERIAL & TOPSOIL STOCKPILES ARE SIZED TO ACCOMMODATE A CUT/SWELL FACTOR OF 1:1:1. THIS ADDITIONAL MATERIAL IS REFLECTED IN THE TOTAL SPOIL SHOWN ON THE MATERIAL QUANTITIES TABLE. IF THE CALCULATED SWELL IS LESS THAN 1:1:1, THE STOCKPILES SIZES CAN BE REDUCED DURING CONSTRUCTION. THE QUANTITIES SHOWN MAY BE GREATER OR LESSER THAN ACTUALLY EXCAVATED. THE ENGINEER IS NOT RESPONSIBLE FOR VARIANCES FROM THE ESTIMATED QUANTITIES AND DOES NOT CERTIFY THEIR ACCURACY.

2. THE TOE BENCH DEPTHS AND QUANTITIES PROVIDED IN THE TABLE ARE AN ESTIMATE, CALCULATED FROM THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT PREPARED BY PENNSYLVANIA SOIL & ROCK, INC. SEE PAGES GEOTECHNICAL INVESTIGATION REPORT PROVIDED BY PENNSYLVANIA SOIL & ROCK, INC. FOR TOE BENCH DETAILS, VOLUMES, AND SPECIFICATIONS.

1-24-25

Juny 101/31/2025

ACCESS ROAD ENTRANCE (CO RT 7/10) LATITUDE: 39.161266 LONGITUDE: -80.933196 (NAD 83) LATITUDE: 39.161183 LONGITUDE: -80.933366 (NAD 27) N 4334674.84 E 505771.55 (UTM ZONE 17 METERS)

ACCESS ROAD ENTRANCE (CO RT 22/5) LATITUDE: 39.162454 LONGITUDE: -80.916186 (NAD 83) LATITUDE: 39.162371 LONGITUDE: -80.916356 (NAD 27)

CENTROID OF PAD LATITUDE: 39.164318 LONGITUDE: -80.923636 (NAD 83) LATITUDE: 39.164235 LONGITUDE: -80.923806 (NAD 27)

N 4335014.16 E 506597.18 (UTM ZONE 17 METERS)

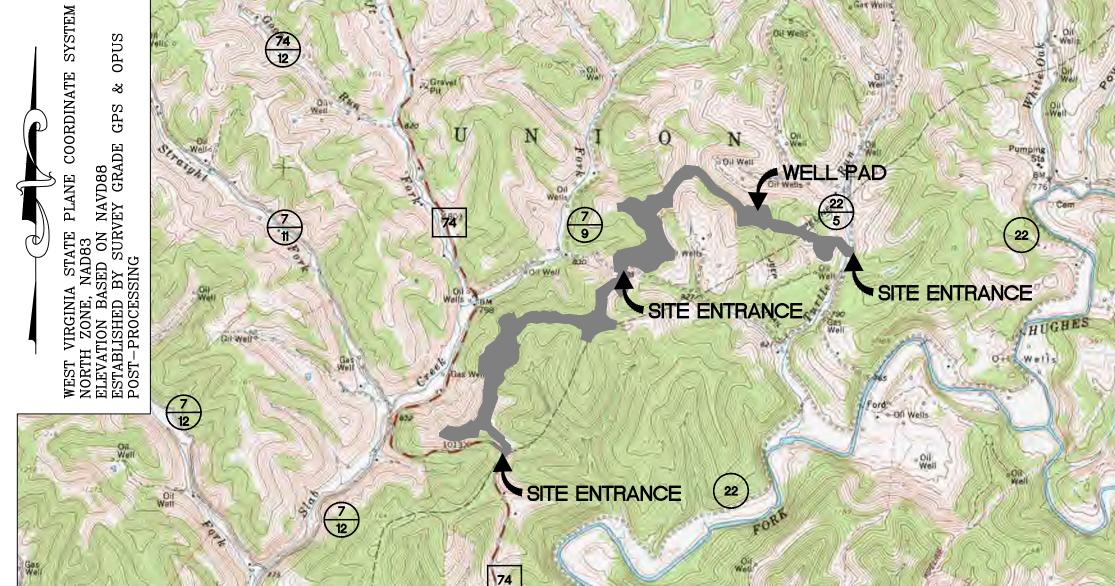
N 4334807.87 E 507241.00 (UTM ZONE 17 METERS)

APPROVED WVDEP OOG

TURTLE RUN WELL PAD SITE DESIGN & CONSTRUCTION PLAN, EROSION & SEDIMENT CONTROL PLANS

UNION DISTRICT, RITCHIE COUNTY, WV SLAB CREEK-SOUTH FORK HUGHES RIVER WATERSHED

PULLMAN USGS 7.5 QUAD MAP(S)



GENERAL DESCRIPTION:

THE ACCESS ROAD(S), 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 #54085C0215C

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

ENVIRONMENTAL NOTES:&

KLEINFELDER TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE NOVEMBER 18, 2024 STREAM AND WETLAND DELINEATION INDEX MAP WAS PREPARED BY ALLSTAR ECOLOGY, & THE NOVEMBER 16. 2024 STREAM AND WETLAND DELINEATION INDEX 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

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:

THE PROPOSED ACCESS ROAD CUT SLOPE (1.5:1) SHALL BE FIELD VERIFIED BY A CERTIFIED GEOTECHNICAL ENGINEER TO ENSURE THE PROPOSED SLOPES ARE ADEQUATE PRIOR TO CONSTRUCTION. ACCESS ROAD CONSTRUCTION SHALL BE MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER OR PROJECT DESIGN ENGINEER DURING CONSTRUCTION

A SUBSURFACE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY PENNSYLVANIA SOIL & 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:

FAX: (304) 842-4102

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

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

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

AARON KUNZLER - CONSTRUCTION MANAGER CELL: (304) 842-4191

ROBERT WIRKS - DESIGN MANAGER OFFICE: (304) 842-4100 CELL: (304) 627-7405

TJ McCULLOUGH - UTILITY COORDINATOR CELL: (304) 641-9827

ENGINEER/SURVEYOR:

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

ENVIRONMENTAL: ALLSTAR ECOLOGY, LLC

RYAN L. WARD - ENVIRONMENTAL SCIENTIST

GEOTECHNICAL:

PENNSYLVANIA SOIL & ROCK, INC. CHRISTOPHER W. SAMIOS - PROJECT ENGINEER

RESTRICTIONS NOTES:

THERE ARE NO LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE WELL PAD AND LOD. THERE ARE STREAM & WETLAND IMPACTS WITHIN THE LOD THAT WILL NEED PERMITTED BY APPROPRIATE AGENCIES.

2. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL

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

DAVID PATSY - LAND AGENT CELL: (304) 476-6090

NAVITUS ENGINEERING, INC. CYRUS S. KUMP, PE - PROJECT MANAGER/ENGINEER OFFICE: (888) 662-4185 CELL: (540) 686-6747

ENVIRONMENTAL:

KLEINFELDER

(866) 213-2666 CELL: (304) 692-7477

OFFICE: (412) 372-4000 CELL: (412) 589-0662

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.

(NOT TO SCALE)

WEST VIRGINIA COUNTY MAP

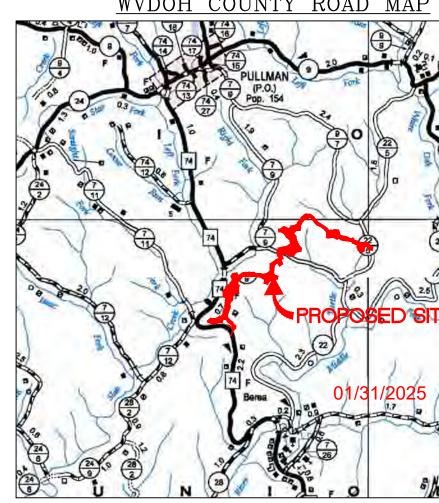
* - PROPOSED SITE

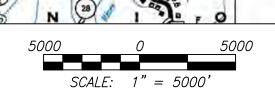
REPRODUCTION NOTE

THESE PLANS WERE CREATED TO BE PLOTTED ON 22"X34" (ANSI D) PAPER. HALF SCALE DRAWINGS ARE ON 11"X17" (ANSI B) PAPER.

THESE PLANS WERE CREATED FOR COLOR PLOTTING AND ANY REPRODUCTIONS IN GRAY SCALE OR COLOR MAY RESULT IN A LOSS OF NFORMATION AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

WVDOH COUNTY ROAD MAP





MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law (Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia. IT'S THE LAW!!

Well Name	WW North NAD 27	NAD 27 Lat & Long	NAD 83 UTM (METERS) ZONE 17	NAD 83 Lat & Long	
		Perm	itted Location		
TURTLE	N 245144.87	LAT 39-09-51.4361	N 4335020.08	LAT 39-09-51.7360	
UNIT 5V	E 1596399.50	LONG -80-55-24.4321	E 506627.66	LONG -80-55-23.8190	

SHEET INDEX

CONSTRUCTION AND E&S CONTROLS NOTES

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5 - STORM DRAINAGE COMPUTATIONS 6 - STORM DRAINAGE & E&S COMPUTATIONS

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13 - ACCESS ROAD & STAGING AREA "A" PLAN 14-15 - ACCESS ROAD & STOCKPILE PLAN 16 - ACCESS ROAD & STAGING AREA "B" PLAN

18 - ACCESS ROAD PLAN

20 - ACCE

17 - ACCESS ROAD & STOCKPILE PLAN

ESS ROAD & WELL PAD PLAN ESS ROAD & STOCKPILE PLAN	58 -	- ACCESS ROAD & STOCKPILE RECLAMATIO)N
IRTLE RUN LIMITS OF DISTURBANC	E AREA (AC)	Impacts to Joey C. Napier TM 19	1_22
Total Site	E AREA (AC)	Access Road "B" (1110')	-20
	40.77	,	+
Access Road "A" (2009')	10.77	Excess/Topsoil Material Stockpiles	+
Access Road "B" (3289')	16.06	Total Affected Area	
Access Road "C" (648')	3.46	Total Wooded Acres Disturbed	
Access Road "D" (6159')	25.50	Impacts to Kim & Ray Sutorius & Sheila Ros	ss (
Access Road "H" (139')	0.42	Access Road "B" (1243')	
Staging Area "A"	12.59	Access Road "C" (648')	
Staging Area "B"	10.21	Access Road "D" (316')	
Well Pad	3.44	Staging Area "B"	
Excess/Topsoil Material Stockpiles	24.94	Excess/Topsoil Material Stockpiles	
Total Affected Area	107.39	Total Affected Area	
Total Wooded Acres Disturbed	83.23	Total Wooded Acres Disturbed	
Impacts to Sheila Ross Cox TM	25-6	Impacts to Lilburn C. Wilburn, Samuel M. G	irim
Access Road "A"	0.11	Bohn TM 19-24	
Total Affected Area	0.11	Access Road "D" (945')	Т
Total Wooded Acres Disturbed	0.07	Excess/Topsoil Material Stockpiles	
Impacts to County RT. 74		Total Affected Area	
Access Road "A" (25')	0.54	Total Wooded Acres Disturbed	
Total Affected Area	0.54	Impacts to Kim Sutorius TM 19	-30
Total Wooded Acres Disturbed	0.00	Access Road "D" (1944')	
Impacts to Jimmie L. Brake TM	25-7	Excess/Topsoil Material Stockpiles	
Access Road "A"	0.14	Total Affected Area	
Total Affected Area	0.14	Total Wooded Acres Disturbed	
Total Wooded Acres Disturbed	0.03	Impacts to Kiedaisch & Summers Enterprise	es l
Impacts to Jimmie L. Brake TM	25-3	Access Road "D" (729')	

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36 - WELL PAD SECTIONS

37 - STOCKPILE SECTIONS

27-34 - ACCESS ROAD SECTIONS

38-39 - STREAM CROSSING DETAILS

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40-48 - CONSTRUCTION DETAILS

35 - STAGING AREA & WELL PAD SECTIONS

51 - ACCESS ROAD & STAGING AREA "A" RECLAMATION PLAN

54 - ACCESS ROAD & STAGING AREA "B" RECLAMATION PLAN

52-53 - ACCESS ROAD & STOCKPILE RECLAMATION PLAN

55 - ACCESS ROAD & STOCKPILE RECLAMATION PLAN

57 - ACCESS ROAD & WELL PAD RECLAMATION PLAN

Total Wooded Acres Disturbed	83.23	Total Wooded Acres Disturbed
Impacts to Sheila Ross Cox TM		Impacts to Lilburn C. Wilburn, Samue
Access Road "A"	0.11	Bohn TM 19-24
Total Affected Area	0.11	Access Road "D" (945')
Total Wooded Acres Disturbed	0.07	Excess/Topsoil Material Stockpiles
Impacts to County RT. 74		Total Affected Area
Access Road "A" (25')	0.54	Total Wooded Acres Disturbed
Total Affected Area	0.54	Impacts to Kim Sutorius
Total Wooded Acres Disturbed	0.00	Access Road "D" (1944')
Impacts to Jimmie L. Brake TM	25-7	Excess/Topsoil Material Stockpiles
Access Road "A"	0.14	Total Affected Area
Total Affected Area	0.14	Total Wooded Acres Disturbed
Total Wooded Acres Disturbed	0.03	Impacts to Kiedaisch & Summers Ente
Impacts to Jimmie L. Brake TM	25-3	Access Road "D" (729')
Access Road "A" (800')	3.35	Access Road "H"
Total Affected Area	3.35	Well Pad
Total Wooded Acres Disturbed	2.18	Excess/Topsoil Material Stockpiles
		Total Affected Area
Impacts to Germaine Umstead TN	/I 25-2.1	
Access Road "A" (89')	0.63	Total Wooded Acres Disturbed
	_	Total Wooded Acres Disturbed Impacts to Multiple Owners See Pla
Access Road "A" (89')	0.63	Total Wooded Acres Disturbed Impacts to Multiple Owners See Pla Access Road "D"
Access Road "A" (89') Excess/Topsoil Material Stockpiles	0.63 4.28	Total Wooded Acres Disturbed Impacts to Multiple Owners See Pla Access Road "D" Access Road "H" (139')
Access Road "A" (89') Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed	0.63 4.28 4.91 1.12	Total Wooded Acres Disturbed Impacts to Multiple Owners See Pla Access Road "D" Access Road "H" (139') Well Pad
Access Road "A" (89') Excess/Topsoil Material Stockpiles Total Affected Area	0.63 4.28 4.91 1.12	Total Wooded Acres Disturbed Impacts to Multiple Owners See Pla Access Road "D" Access Road "H" (139') Well Pad Excess/Topsoil Material Stockpiles
Access Road "A" (89') Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to John R. & Germaine Umste	0.63 4.28 4.91 1.12 ad TM 25-2.2	Total Wooded Acres Disturbed Impacts to Multiple Owners See Pla Access Road "D" Access Road "H" (139') Well Pad Excess/Topsoil Material Stockpiles Total Affected Area
Access Road "A" (89') Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to John R. & Germaine Umste Access Road "A" (1096')	0.63 4.28 4.91 1.12 ad TM 25-2.2 5.17	Total Wooded Acres Disturbed Impacts to Multiple Owners See Pla Access Road "D" Access Road "H" (139') Well Pad Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed
Access Road "A" (89') Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to John R. & Germaine Umste Access Road "A" (1096') Staging Area "A"	0.63 4.28 4.91 1.12 ad TM 25-2.2 5.17 4.92	Total Wooded Acres Disturbed Impacts to Multiple Owners See Pla Access Road "D" Access Road "H" (139') Well Pad Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to Multiple Owners See Plan
Access Road "A" (89') Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to John R. & Germaine Umste Access Road "A" (1096') Staging Area "A" Excess/Topsoil Material Stockpiles	0.63 4.28 4.91 1.12 ad TM 25-2.2 5.17 4.92 0.87	Total Wooded Acres Disturbed Impacts to Multiple Owners See Pla Access Road "D" Access Road "H" (139') Well Pad Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to Multiple Owners See Plan Access Road "D" (1559')
Access Road "A" (89') Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to John R. & Germaine Umste Access Road "A" (1096') Staging Area "A" Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed	0.63 4.28 4.91 1.12 ad TM 25-2.2 5.17 4.92 0.87 10.96 4.50	Total Wooded Acres Disturbed Impacts to Multiple Owners See Pla Access Road "D" Access Road "H" (139') Well Pad Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to Multiple Owners See Plan Access Road "D" (1559') Well Pad
Access Road "A" (89') Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to John R. & Germaine Umste Access Road "A" (1096') Staging Area "A" Excess/Topsoil Material Stockpiles Total Affected Area	0.63 4.28 4.91 1.12 ad TM 25-2.2 5.17 4.92 0.87 10.96 4.50	Total Wooded Acres Disturbed Impacts to Multiple Owners See Pla Access Road "D" Access Road "H" (139') Well Pad Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to Multiple Owners See Plan Access Road "D" (1559') Well Pad Excess/Topsoil Material Stockpiles
Access Road "A" (89') Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to John R. & Germaine Umste Access Road "A" (1096') Staging Area "A" Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to Jeremy Sutton TM	0.63 4.28 4.91 1.12 ad TM 25-2.2 5.17 4.92 0.87 10.96 4.50	Total Wooded Acres Disturbed Impacts to Multiple Owners See Pla Access Road "D" Access Road "H" (139') Well Pad Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to Multiple Owners See Plan Access Road "D" (1559') Well Pad Excess/Topsoil Material Stockpiles Total Affected Area
Access Road "A" (89') Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to John R. & Germaine Umste Access Road "A" (1096') Staging Area "A" Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to Jeremy Sutton TM Access Road "A"	0.63 4.28 4.91 1.12 ad TM 25-2.2 5.17 4.92 0.87 10.96 4.50 25-4 0.83 0.18 5.90	Total Wooded Acres Disturbed Impacts to Multiple Owners See Pla Access Road "D" Access Road "H" (139') Well Pad Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to Multiple Owners See Plan Access Road "D" (1559') Well Pad Excess/Topsoil Material Stockpiles Total Affected Area Total Affected Area Total Wooded Acres Disturbed
Access Road "A" (89') Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to John R. & Germaine Umste Access Road "A" (1096') Staging Area "A" Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to Jeremy Sutton TM Access Road "A" Access Road "B"	0.63 4.28 4.91 1.12 ad TM 25-2.2 5.17 4.92 0.87 10.96 4.50 25-4 0.83 0.18	Total Wooded Acres Disturbed Impacts to Multiple Owners See Pla Access Road "D" Access Road "H" (139') Well Pad Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to Multiple Owners See Plan Access Road "D" (1559') Well Pad Excess/Topsoil Material Stockpiles Total Affected Area Total Affected Area Total Wooded Acres Disturbed Impacts to Multiple Owners See Plan
Access Road "A" (89') Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to John R. & Germaine Umste Access Road "A" (1096') Staging Area "A" Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to Jeremy Sutton TM Access Road "A" Access Road "B" Staging Area	0.63 4.28 4.91 1.12 ad TM 25-2.2 5.17 4.92 0.87 10.96 4.50 25-4 0.83 0.18 5.90	Total Wooded Acres Disturbed Impacts to Multiple Owners See Pla Access Road "D" Access Road "H" (139') Well Pad Excess/Topsoil Material Stockpiles Total Affected Area Total Wooded Acres Disturbed Impacts to Multiple Owners See Plan Access Road "D" (1559') Well Pad Excess/Topsoil Material Stockpiles Total Affected Area Total Affected Area Total Wooded Acres Disturbed

10.49

4.45

1.77

2.46

8.68

Access Road "B" (1110')	5.51
Excess/Topsoil Material Stockpiles	0.05
Total Affected Area	5.56
Total Wooded Acres Disturbed	5.52
Impacts to Kim & Ray Sutorius & Sheila Ros	s Cox TM 19-29
Access Road "B" (1243')	5.92
Access Road "C" (648')	3.46
Access Road "D" (316')	1.58
Staging Area "B"	10.21
Excess/Topsoil Material Stockpiles	3.69
Total Affected Area	24.86
Total Wooded Acres Disturbed	21.70
Impacts to Lilburn C. Wilburn, Samuel M. G	rimm & Cherly
Bohn TM 19-24	
Access Road "D" (945')	4.10
Excess/Topsoil Material Stockpiles	5.38
Total Affected Area	9.48
Total Wooded Acres Disturbed	4.36
Impacts to Kim Sutorius TM 19-	
Access Road "D" (1944')	6.69
Excess/Topsoil Material Stockpiles	0.66
Total Affected Area	7.35
Total Wooded Acres Disturbed	5.74
Impacts to Kiedaisch & Summers Enterprise	s LLC TM 19-25
Access Road "D" (729')	3.56
Access Road "H"	0.02
Well Pad	0.33
Excess/Topsoil Material Stockpiles	0.16
Total Affected Area	4.07
Total Wooded Acres Disturbed	4.07
Impacts to Multiple Owners See Plan She	ets TM 19-31
Access Road "D"	0.35
Access Road "H" (139')	0.40
Well Pad	2.96
Excess/Topsoil Material Stockpiles	0.00
Total Affected Area	3.71
Total Wooded Acres Disturbed	3.71
Impacts to Multiple Owners See Plan Shee	
Access Road "D" (1559')	6.75
Well Pad	0.15
Excess/Topsoil Material Stockpiles	3.09
Total Affected Area	9.99
Total Wooded Acres Disturbed	9.02
Impacts to Multiple Owners See Plan Shee	
Access Road "D" (665')	2.47
Excess/Topsoil Material Stockpiles	0.49
Total Affected Area	2.96
Total Wooded Acres Disturbed	2.24

Total Wooded Acres Disturbed 8.48 TURTLE RUN WETLAND IMPACT (SQUARE FEET) Total Impact Fill (SF) ASE Wetland02 0.026 1,116 1,116 KLF_Wetland002 (Access Road) 1,086 1,086 0.025

Total Wooded Acres Disturbed

Access Road "B" (936')

Staging Area "A"

Excess/Topsoil Material Stockpiles

Total Affected Area

Impacts to Ernest H. & Reta M. Clark TM 19-33

TURTLE RUN EPHEMERAL STREAM IMPACT (LINEAR FEET)							
	Permanent Impacts		Total	Temp. lı			
Stream and Impact Cause	Culvert / Fill (LF)	Inlets/Outlets Structures (LF)	Permanent Impact (LF)	Cofferdam/ E&S Controls (LF)	Distance To L.O.D. (LF)	Total Temp. Impact (LF)	
ASE_Stream05 (Access Road)	0	0	0	0	33	33	
ASE_Stream30 (Well Pad)	27	0	27	30	15	45	
ASE_Stream31 (Well Pad)	0	0	0	28	17	45	
ASE_Stream32 (Well Pad)	0	0	0	30	21	51	
ASE_Stream36 (Stockpile)	0	0	0	21	10	31	
KLF_Stream001 (Well Pad)	0	0	0	26	13	39	
KLF_Stream005 (Well Pad)	0	0	0	26	19	45	
KLF_Stream006 (Well Pad)	0	0	0	23	15	38	

TURTLE RUN INTERMITTENT STREAM IMPACT (LINEAR FEET)								
	Permanent Impacts		Total	Temp. lı				
Stream and Impact Cause	Culvert / Fill (LF)	Inlets/Outlets Structures (LF)	Total Permanent Impact (LF)	Cofferdam/ E&S Controls (LF)	Distance To L.O.D. (LF)	Total Temp. Impact (LF)		
KLF_Stream031 (Access Road)	39	13	52	58	18	76		
	-	<u> </u>	<u> </u>	·				

,							
Stream and Impact Cause	Permanent Impacts		Total	Temp. I			
	Culvert / Fill (LF)	Inlets/Outlets Structures (LF)	Permanent	Cofferdam/ E&S Controls (LF)	Distance To L.O.D. (LF)	Total Temp. Impact (LF)	D S
Perennial KLF_Turtle Run (Access Road)	91	32	123	46	43	89	S

[URTLE RUN PERENNIAL STREAM IMPACT (LINEAR FEET



WAS PREPARED FOR ANTERO RESOURCES CORPORATION

RU

TURTLE



DATE: 12/16/2024 SCALE: AS SHOWN SHEET 1 OF 58

