

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, November 27, 2024 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit approval for NARROWS 5V

47-095-02905-00-00

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

Operator's Well Number: NARROWS 5V

Farm Name: LOWMAX R. KUNKEL

U.S. WELL NUMBER:

47-095-02905-00-00

Horizontal 6A New Drill

Date Issued: 11/27/2024

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.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Also, 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

API NO. 4-795 0 9 5 0 2 9 0 5

OPERATOR WELL NO. Narrows Unit 5V
Well Pad Name: Narrows 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	494507062	095-Tyler	Ellsworth	Paden City
,			Operator ID	County	District	Quadrangle
2) Operator's Well 1	Number: Na	rrows Unit 5V	Well Pa	d Name: Narro	ws Pad	
3) Farm Name/Surfa	ace Owner:	Lowmax R. Kui	nkel Public Ro	ad Access: Vet	erans Hwy	
4) Elevation, curren	t ground:	1162' E	levation, proposed	post-constructi	on: 1128'	
5) Well Type (a)	Gas X	Oil _	Und	lerground Stora	ge	
Oth	er					
(b)I	f Gas Sha	llow X	Deep			
	Hor	rizontal X				
6) Existing Pad: Ye	s or No No			_		
7) Proposed Target Marcellus Shale:			cipated Thickness ess- 55 feet, Assoc			
8) Proposed Total V	ertical Dept	h: 6900' TVD				
9) Formation at Tot			IS			
10) Proposed Total	Measured D	epth: 6900' M	D			
11) Proposed Horiz	ontal Leg Le	ngth: 0'				
12) Approximate Fr	resh Water S	trata Depths:	503'			
13) Method to Dete	rmine Fresh	Water Depths:	47-095-02866			
14) Approximate Sa	altwater Dep	ths: 1774'				
15) Approximate C	oal Seam De	pths: N/A				
16) Approximate D	epth to Possi	ible Void (coal n	nine, karst, other):	None Anticipa	ated	
17) Does Proposed directly overlying o				No	X REC	CEIVED Oil and Gas
(a) If Yes, provide	Mine Info:	Name:			Office of	3 0 2024
,		Depth:				
		Seam:			W	Department of mental Protection
		Owner:			Environi	110.



API NO.47 09 9 5 0 2 9 0 5 OPERATOR WELL NO. Narrows Unit 5V

Well Pad Name: Narrows Pad

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	553'	553'	CTS, 576 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							N. I
Production	5-1/2"	New	P-110	23#	6900'	6900'	811 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	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				3			

PACKERS

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Kind:	N/A	Office of Oil and Gas OCT 3 0 2024
Sizes:	N/A	
Depths Set:	N/A	Environmental Protection

19) Describe proposed well	work, including the drilling and J	plugging back of any pilot hole:
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Drill, perforate, fracture a new shallow well and complete Marcellus Shale.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs Anticipated Max Rate - 80 bpm

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 61.03 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 11.79 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.

Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.

Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

24) Describe all cement additives associated with each cement type:

Conductor: no additives, Class A cement.

Surface: 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

Production: Lead cement- 50/50 Class H/POZ + 1.5% Salt + 1% C-45 + 0.5% ACGB-47 + 0.05% ACSA-51 + 0.2% ACRY20 Department of

Environmental Protection

25) Proposed borehole conditioning procedures:

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

Surface: blowhole clean with air, trip conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pip capacity +40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

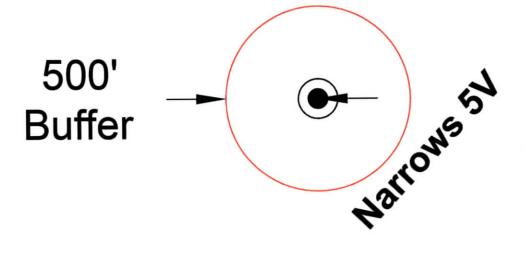
^{*}Note: Attach additional sheets as needed.

LEGEND

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

GRID NORTH

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



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

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

IN THE MATTER OF A VARIANCE FROM)		
LEGISLATIVE RULE 35CSR4)	ORDER NO.	2022-14
SECTION 11.5 AND LEGISLATIVE RULE)		
35CSR8 SECTION 9.2.h.8.,)		
RELATING TO THE CEMENTING)		
OF OIL AND GAS WELLS)		

REPORT OF THE OFFICE

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

FINDINGS OF FACT

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

Office of Oil and Gas



Antero Resources 1615 Wynkoop Street Denver, CO 80202

Office 303.357.7310 Fax 303.357.7315

October 15th, 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 Narrows Unit 5V Tyler County, WV

Mr. Brewer:

Pursuant to 35CSR8 Section 9.2.h.8, Antero Resources Corporation ("Antero") would like to implement the variance to allow Class L Cement in place of Class A cement relating to the construction of the following horizontal well (Narrows Unit 5V) on the Narrows 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 Marvel Permitting Agent

Antero Resources Corporation

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47095 502905 API Number 47 - 095

Operator's Well No. Narrows 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) Outlet Middle Island Creek Quadrangle Paden City
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No V
If so, please describe anticipated pit waste: No pit will be used at this site (Drilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and hauled off site.)
Will a synthetic liner be used in the pit? Yes No If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:
Land Application
Underground Injection (UIC Permit Number *UIC Permit # will be provided on Form WR-34
Reuse (at API Number Future permitted well locations when applicable. API# will be provided on Form WR-34 Off Site Disposal (Supply form WW-9 for disposal location(Meadowfill Landfill Permit #SWF-1032-98)
Other (Explain Northwestern Landfill Permit #SWF-1025/
WV0109410 Wetzel Co Landfill Permit #SWF-1021
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings removed offsite and taken to landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Surface - Alr/Freshwater, Intermediate - Dust/Stiff Foam, Production - Water Based Mud
-If oil based, what type? Synthetic, petroleum, etc. Synthetic
Additives to be used in drilling medium? Please See Attachment
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etcDrill cuttings stored in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)_N/A
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV0109410)
Wetzel Co Landfill (Permit #SWF-1021)
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there is significant penalties for submitting false information, including the possibility of fine or imprisonment.
Company Official Signature
Company Official (Typed Name) Greichen Könler Environmental Protection
Company Official Title Director of Environmental & Regulatory Compliance
Subscribed and sworn before me this 5 day of 0(100000 , 20 24 Notary Public
CARLY RAYNE MARVEL
My commission expires State of Colorado Notary 10/29/2024 43 My Commission Expires 10-05-202

4709502905

Operator's Well No. Narrows Unit 5V

Antero Resources Co	rporation			
Proposed Revegetation Treatmen	nt: Acres Disturbed	61.0	3 Prevegetation	рН
	Tons/acre or to correct			
Fertilizer type Hay or s	raw or Wood Fiber (will be	e used whe	re needed)	
Fertilizer amount 500		lbs/ac	cre	
Mulch 2-3	e e	Tons/acre		
Access Road "A" (5.			" (10.83) + Well Pad (11.79) + Water Cont piles (11.83) = 61.03 Acres	tainment Pad (7.44) + Excess/Top Soil
Temp	orary		Per	manent
Seed Type	lbs/acre		Seed Type	lbs/acre
Annual Ryegrass	40		Crownvetch	10-15
Field Bromegrass	40		Tall Fescue	30
See attached Table IV-3 for additional seed type (Narrows Pad Design) See attached Table IV-4A for additional seed type (Narrows Pad Design)			onal seed type (Narrows Pad Design)	
*or type of grass seed requ	ested by surface own	er	*or type of grass seed rec	quested by surface owner
Plan Approved by:				
	in seed mu	lch o	ell cines.	
quy recu		,		RECEIVED
				Office of Oil and Gas
				OCT 3 0 2024
				WV Department of Environmental Protecti
Title: WOII 560	Topeche	_	Date: 10-29-24	/
Field Reviewed?	Yes) No	

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 Conqor 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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911 Address 3120 Veterans Hwy New Martinsville, WV 26155

Well Site Safety Plan Antero Resources

Well Name: Narrows Unit 5V

Pad Location: NARROWS PAD

Tyler County/Ellsworth District

GPS Coordinates:

Entrance - Lat 39.573830/Long -80.890368 (NAD83)

Pad Center - Lat 39.578784/Long -80.883335 (NAD83)

Driving Directions:

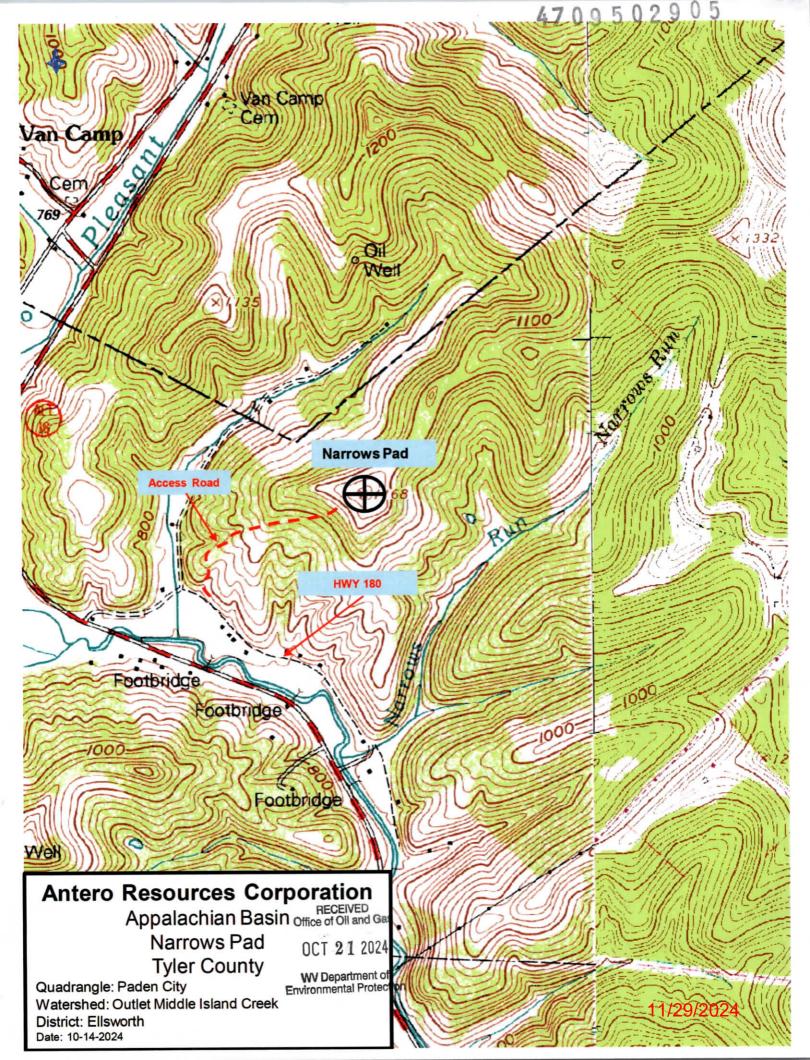
From WV-180, turn northeast onto the lease road.

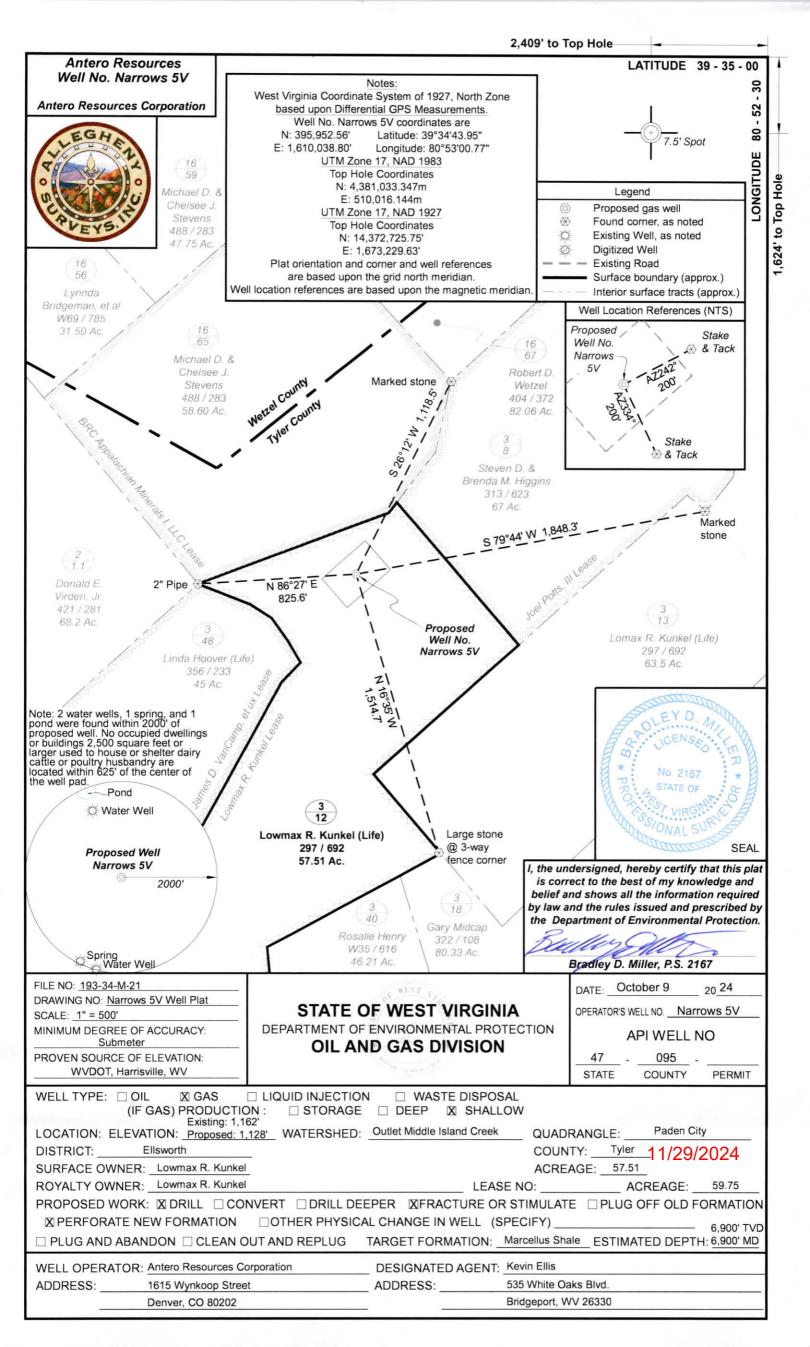
EMERGENCY (24 HOUR) CONTACT 1-800-878-1373

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OCT 3.0 2024







Mily 10-2921

WW-6A1 (5/13)

Operator's Well	l No. N	arrows	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
Lowmax R. Kunkel Lease:				
	Lowmax R. Kunkel	EQT Production Company	1/8+	605/8
	EQT Production Company	Antero Resources Corporation	Assignment	663/1

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

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

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

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WV Department of Environmental Protection

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		

Page 1 of 1



October 16, 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

RE:

Narrows Unit 5V

Quadrangle: Paden City

Tyler County/Ellsworth District, West Virginia

Mr. Martin:

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

Sincerely,

Thomas Kuhn Staff Landman

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Date of Notice Certification: 10/17/2024

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

API No. 47- 095

				Operator's	Well No. Name	ws Unit 5V
				Well Pad l	Name: Namowa	Pad
Notice has below for the	oeen given: ne provisions in West Virginia Code tract of land as follows:	§ 22-6A, the Ope	erator has pro	vided the rec	quired parties w	vith the Notice Forms listed
State:	West Virginia	7.77		Easting:	510016.15m	
County:	Tyler	—— UT	M NAD 83	Northing:	4381033.35m	
District:	Elisworth	Pub	lic Road Acc		Veterans Hwy	
Quadrangle:	Paden City	Ger	nerally used f	arm name:	Lowmax R. Kunk	el
Watershed:	Outlet Middle Island Creek					
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and ed the owners of the surface descrequired by subsections (b) and (c), s surface owner notice of entry to s of subsection (b), section sixteen e § 22-6A-11(b), the applicant shall have been completed by the applica	shall contain the ibed in subdivision ection sixteen of survey pursuant to of this article we tender proof of an	following info ons (1), (2) a this article; (in o subsection are waived in	ormation: (1 and (4), sub- i) that the re (a), section writing by	4) A certification (b), section (b), section (c), section (d), section	on from the operator that (i) ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice vner; and Pursuant to West
	West Virginia Code § 22-6A, the Orator has properly served the requir			his Notice C	Certification	OOG OFFICE USE
*PLEASE CHI	ECK ALL THAT APPLY					ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY OF	NOTICE I	_			☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SUR	VEY or 🔳 NO	PLAT SURV	EY WAS C	ONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE INOTICE OF E	ENTRY FOR			RECEIVED/ NOT REQUIRED
			N WAIVER SE ATTACH		CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION				;	RECEIVED
■ 5. PUE	BLIC NOTICE			Di		RECEIVED
■ 6. NO	TICE OF APPLICATION			Office o	ECEIVED of Oil and Gas	RECEIVED
L				0CT	2 1 2024	

Required Attachments:

WV Department of

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

Certification of Notice is hereby given:

THEREFORE, I			nd the notice requirements within West Virginia Code § 22-
6A. I certify tha	t as required under West Virgini	a Code § 22-6A, I have	served the attached copies of the Notice Forms, identified
			ail or by any method of delivery that requires a receipt or
			y examined and am familiar with the information submitted
			inquiry of those individuals immediately responsible for
			nd complete. I am aware that there are significant penalties
	lse information, including the pos		
	pos	or mine and impri	
Well Operator:	Antero Resources Corporation	Address:	1615 Wynkoop Street
By:	Jon McEvers / M ///	wer	Denver, CO 80202
Its:	Senior VP of Operations	Facsimile	: 303-357-7373
Telephone:	303-357-6799	Email:	cmarvel@anteroresources.com
	NOTARY SEAL	Subscribed and s	worn before me this <u>U</u> day of <u>0 CT00012 20</u> 24
CA	The state of the s		
	Notary Public	(Sapli)	ROUNS MARVEL Notary Public
No	State of Colorado tary ID # 20224038743		Notary Fubic
	nmission Expires 10-05-2026	My Commission	Expires 10-6-210
Wiy Cuit	minssion Expires 10-05-2026	Wy Commission	Expires 10 0 20

Oil and Gas Privacy Notice:

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

RECEIVED Office of Oil and Gas

OCT 21 2024

WW-6A (9-13) 4709502905

API NO. 47-095

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

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

Noti	ice Time Requirement: notic	e shall be provided no la	ter than the filing date of permit application.	
	e of Notice: 10/18/2024 Date F	Permit Application File	d: <u>10/18/2024</u>	
Noti	ice of:			
Ø	PERMIT FOR ANY	☐ CERTIFICATE C	F APPROVAL FOR THE	
_	WELL WORK		N OF AN IMPOUNDMENT OR PIT	
Th . 12				
Den	very method pursuant to W	est Virginia Code § 22-	6A-1U(b)	
	PERSONAL REC	GISTERED 🛛 1	METHOD OF DELIVERY THAT REQUIRES A	
	SERVICE MA	AL :	RECEIPT OR SIGNATURE CONFIRMATION	
oil a desc oper more well impore prop subs record proverse provers	nd gas leasehold being develop ribed in the erosion and sedime ator or lessee, in the event the te coal seams; (4) The owners of work, if the surface tract is to be bundment or pit as described in a water well, spring or water stide water for consumption by hosed well work activity is to tal ection (b) of this section hold in rds of the sheriff required to be ision of this article to the contract R. § 35-8-5.7.a requires, in particle water for contract R. § 35-8-5.7.a requires, in particle to the contract R. § 35-8-5.7.a require	bed by the proposed well went control plan submitted tract of land on which the frecord of the surface tract be used for the placement, a section nine of this article tract because the section nine of the surface with numans or domestic animals ke place. (c)(1) If more than the treests in the lands, the armaintained pursuant to seary, notice to a lien holder part, that the operator shall	be located; (2) The owners of record of the surface tract ovork, if the surface tract is to be used for roads or other lapursuant to subsection (c), section seven of this article; (well proposed to be drilled is located [sic] is known to be to or tracts overlying the oil and gas leasehold being development, enlargement, alteration, repair, removal or e; (5) Any surface owner or water purveyor who is known in one thousand five hundred feet of the center of the wells; and (6) The operator of any natural gas storage field wan three tenants in common or other co-owners of interest pplicant may serve the documents required upon the persection eight, article one, chapter eleven-a of this code. (2) is not notice to a landowner, unless the lien holder is the also provide the Well Site Safety Plan ("WSSP") to the stesting as provided in section 15 of this rule.	and disturbance as 3) The coal owner, e underlain by one or loped by the proposed abandonment of any to the applicant to ll pad which is used to within which the ts described in on described in the Notwithstanding any e landowner. W. Va.
☑ ST	JRFACE OWNER(s)	Notice DE&S Plan I	Notice	
	ne; Michael D. & Chelsee J. Stevens		Name: NO DECLARATIONS ON RECORD WITH COUNTY	<u> </u>
	ress: 402 Pee Dee Roed sville, WV 26155		Address:	
	ne: Lomax R. Kunkel	<u></u>	COAL OPERATOR	
	ress: 94 P D Road		Name: NO DECLARATIONS ON RECORD WITH COUNTY	,
	nsville, WV 26155		Address:	
	JRFACE OWNER(s) (Road a	and/or Other Disturbance)	RECEIVED
	ne:		WATER PURVEYOR(s)/OWNER(s) OF WATER WI	Office of Oil and Gas
Add	ress:	- '	SPRING OR OTHER WATER SUPPLY SOURCE	- ·
			Name: NONE WITHIN 1500	OCT 21 2024
Nan	ne:		Address:	
Add	ress:			Environmental Protection
			OPERATOR OF ANY NATURAL GAS ST	
S	JRFACE OWNER(s) (Impour	ndments or Pits)	Name:	
Nan	ne:	<u> </u>	Address:	
Add	ress:	-		
			*Please attach additional forms if necessary	

WW-6A (8-13)

47 0 9 5 0 2 9 0 5

OPERATOR WELL NO. Narrows Unit 5V

Well Pad Name: Narrows Pad

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

OCT 21 2024.

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 now be because within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet with the structure of a building two thousand five hundred square feet with the square 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

WW-6A (8-13)

API NO. 47-095

OPERATOR WELL NO. Narrows Unit 5V

Well Pad Name: Narrows Pad

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

Office of Oil and Gas

OCT 21 2024

WV Department of Environmental Protects

(304) 926-0450

Environmental Protection of 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.

WW-6A (8-13) 4709502905

OPERATOR WELL NO. Narrows Unit 5V

Well Pad Name: Narrows Pad

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

Office of Oil and Gas
OCT 21 2024
WV Department of
Environmental Protection

WW-6A
(8-13)

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

Notice is hereby given by:
Well Operator: Antero Resources Corporation
Telephone: (303) 357-7373
Denver, CO 80202
Email: cmarvel@anteroresources.com
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 deprivacyofficer@wv.gov.

CARLY RAYNE MARVEL
Notary Public
State of Colorado
Notary ID # 20224038743
My Commission Expires 10-05-2026

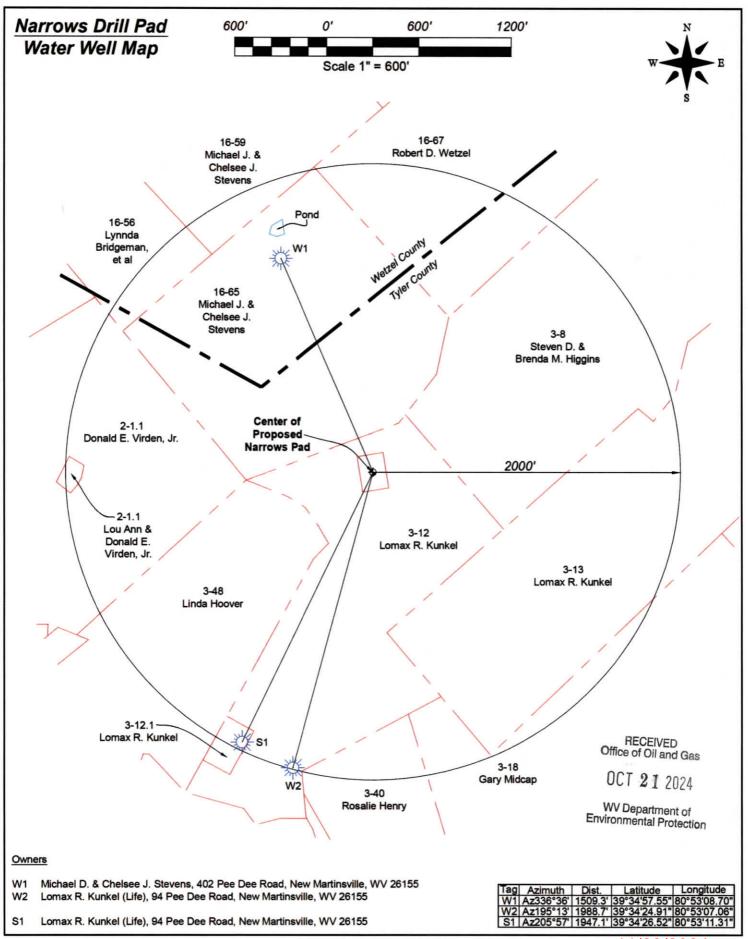
Subscribed and sworn before me this U day of OCt., 2074.

Cally lay No Mary Public

My Commission Expires 10-5-210

RECEIVED Office of Oil and Gas

OCT 21 2024



WW-6A4 (1/12)

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

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

Notice Time Date of Notic	Requirement: Notice shall be provided at lece: 10/03/2024 Date Perm	ast TEN (10) days prior to filing a lit Application Filed:10/18/2024	a permit application.		
Delivery me	thod pursuant to West Virginia Code § 22-	6A-16(b)			
☐ HAND	CERTIFIED MAIL				
DELIVE		ESTED			
	•		AT AN AN AN AN ANALYSIS		
receipt request drilling a hore of this subsect subsection ma	V. Va. Code § 22-6A-16(b), at least ten days parted or hand delivery, give the surface owner izontal well: <i>Provided</i> , That notice given putetion as of the date the notice was provided to any be waived in writing by the surface owners lee, facsimile number and electronic mail address.	notice of its intent to enter upon to resuant to subsection (a), section to the surface owner: <i>Provided</i> , how The notice, if required, shall income	he surface owner's land for the of this article satisfies the wever, That the notice required the name, address, teleptoness, teleptone	the purpose of requirements ements of this hone number,	
	reby provided to the SURFACE OWN				
	D. & Chelsee J. Stevens	Name: Lomax R. Kunkel			
Address: 402 Martinsville, WV		Address: 94 P D Road			
Martinsville, VVV	20155	Martinsville, WV 26155	<u> </u>		
State: County: District:	wner's land for the purpose of drilling a horize West Virginia Tyler Ellsworth	UTM NAD 83 Easting: Northing: Public Road Access:	510016.15m 4381033.35m Veterans Hwy		
Quadrangle:	Paden City	Generally used farm name:	Lowmax R. Kunkel		
Watershed:	Outlet Middle Island Creek	Generally used farm hance.	LOWINGS IS. NUTREI		
Pursuant to V facsimile nur related to hor	Shall Include: West Virginia Code § 22-6A-16(b), this not make and electronic mail address of the operizontal drilling may be obtained from the Set 57 th Street, SE, Charleston, WV 25304 (304)	rator and the operator's authorize cretary, at the WV Department of	ed representative. Additional	l information headquarters.	
Notice is be	reby given by:				
Well Operato	r: Antero Resources Corporation	Authorized Representative:	Mallory Turco		
Well Operato	T: Antero Resources Corporation 1615 Wynkoop St.	Authorized Representative: Address:	Mallory Turco 1615 Wynkoop St.		
Well Operato Address:				RECEIVED	
Well Operato Address: Telephone:	1615 Wynkoop St.		1615 Wynkoop St.	RECEIVED Office of Oil and (
Well Operato Address:	1615 Wynkoop St. Denver, CO 80202	Address:	1615 Wynkoop St. Denver, CO 80202	Office of Oil and O	

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

WW-6A5 (1/12)

Operator Well No. Narrows Unit 5V

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

Date of Noti	ce: 10/18/2024 Date Perm	nit Application Filed: 10/1		application.
Delivery me	thod pursuant to West Virginia Co	de § 22-6A-16(c)		
	FIED MAIL RN RECEIPT REQUESTED	□ HAND DELIVERY		
return receipt the planned of required to be drilling of a damages to the (d) The notice of notice.	requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section horizontal well; and (3) A proposed he surface affected by oil and gas operes required by this section shall be gi	surface owner whose land his subsection shall inclu- ten of this article to a surf- surface use and compen- trations to the extent the da- iven to the surface owner a	d will be used for de: (1) A copy ace owner whos sation agreemen amages are comp	cation, an operator shall, by certified mail r the drilling of a horizontal well notice of of this code section; (2) The information e land will be used in conjunction with the t containing an offer of compensation for pensable under article six-b of this chapter. ted in the records of the sheriff at the time
	eby provided to the SURFACE OV is listed in the records of the sheriff at			
	D. & Chelsee J. Stevens	,	Lomax R. Kunkel	
Address: 402	Pee Dee Road	Addres	94 P D Road	
Martinsville, WV 2	26155	Martinsvi	lle, WV 26155	
State: County:	the surface owner's land for the purp West Virginia Tyler	UTM NAD 8	Facting:	510016.15m 4381033.35m
District:	Ellsworth	Public Road		Veterans Hwy
Quadrangle:	Paden City	Generally use	ed farm name:	Lowmax R. Kunkel
Watershed:	Outlet Middle Island Creek			
Pursuant to V to be provide horizontal we surface affect information r	ed by W. Va. Code § 22-6A-10(b) tell; and (3) A proposed surface use are ted by oil and gas operations to the related to horizontal drilling may be located at 601 57 th Street, SE,	to a surface owner whose and compensation agreeme extent the damages are co- obtained from the Secret	e land will be un nt containing an empensable und ary, at the WV	code section; (2) The information required sed in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-driveness-section ;
Well Operato		Address:		Office of Oil and Gas
relephone:	T: Antero Resources Corporation 303-357-7373	Audress.	1615 Wynkoop Stree	OOT -
Email:		Facsimile:	Denver, CO 80202	OCT 21 2024
	cmarvel@anteroresources.com	1 acsimile.	303-357-7310	MAZA
	Privacy Notice: Oil and Gas processes your personal	l information, such as nam	e, address and t	Environmental Protection elephone number, as part of our regulatory

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



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Office of the District Engineer/Manager
District Four
Post Office Box 4220 · Clarksburg, West Virginia 26302 · (304) 842-1500

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

October 3, 2024

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

Subject: DOH Permit for the Narrows Well Pad, Tyler County Narrows Unit 5V Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2024-2349 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off Tyler County Route 180 WV MP 3.08.

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

Very Truly Yours,

Lacy D. Pratt

Central Office O&G Coordinator

Lacy D. Pratt

RECEIVED
Office of Oil and Gas

OCT 21 2024

WV Department of Environmental Protection

Cc: Carly Marvel

Antero Resources Corporation

OM, D-6

File

List of Anticipated Additives Used for Fracturing of Stimulating Well

Chemical Abstract Service Number					
Additives	(CAS #)				
Fresh Water	7732-18-5				
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1				
Ammonium Persulfate	7727-54-0				
Anionic copolymer	Proprietary				
Anionic polymer	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, benzyl chloride-quaternized	72480-70-7				
Solvent Naphtha, petroleum, heavy aliph	64742-96-7				
Soybean Oil, Me ester	67784-80-9				
Copolymer of Maleic and Acrylic Acid	52255-49-9				
DETA phosphonate	15827-60-8				
	34690-00-1				
	o Oil and Gas 71050-62-9				
Hexamethylene Diamine Tetra	2 1 2024 23605-75-5				
2-Propendic acid, polymer with 2 propensified	9003-06-9				
Hexamethylene diamine penta (methylene phosphonic acid) WV	U = 107-101-44-617-1-47-1				
Diethylene Glycol	111-40-0				
Methenamine	100-97-0				
Polyethylene polyamine	68603-67-8				
Coco amine	61791-14-8				
2-Propyn-1-olcompound with methyloxirane	38172-91-7				

WW-6A7 (6-12)

OPERATOR: Antero Resources Corp.	WELL NO: Narrows Unit 5V
PAD NAME: Narrows Pad	-
REVIEWED BY: Mallory Turco	SIGNATURE: MM W

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well	Restri	ctions
	√	At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
		DEP Waiver and Permit Conditions
	\checkmark	At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
		DEP Waiver and Permit Conditions
	\checkmark	At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
		DEP Waiver and Permit Conditions
	\checkmark	At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
		Surface Owner Waiver and Recorded with County Clerk, OR
		DEP Variance and Permit Conditions Office of Oil and Ga
	\checkmark	At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR OCT 21 2024
		Surface Owner Waiver and Recorded with County Clerk, OR Wy Department of Environmental Protection
		DEP Variance and Permit Conditions
	\checkmark	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
		Surface Owner Waiver and Recorded with County Clerk, OR
		DEP Variance and Permit Conditions

CENTER OF TANK

LATITUDE: 39.582850 LONGITUDE: -80.877018 (NAD 83) LATITUDE: 39.582772 LONGITUDE: -80.877193 (NAD 27) N 4381466.49 E 510561.29 (UTM ZONE 17 METERS

CENTROID OF PAD

LATITUDE: 39.578784 LONGITUDE: -80.883335 (NAD 83) LATITUDE: 39.578706 LONGITUDE: -80.883509 (NAD 27) N 4381014.51 E 510019.44 (UTM ZONE 17 METERS)

GENERAL DESCRIPTION:

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

FLOODPLAIN NOTES:

THE PROPOSED SITE IS LOCATED IN FLOOD ZONES "X" & "A" PER FEMA MAP NUMBER #54095C0035C THE SITE ENTRANCE IS LOCATED IN FLOOD ZONE "A" AND THE REST OF THE SITE IS LOCATED IN FLOOD ZONE "X". MINOR EXCAVATION IS REQUIRED FOR THE INSTALLATION OF THE ENTRANCE AND E&S CONTROL IS THE ONLY DISTURBANCE PROPOSED IN FLOOD ZONE "A". NO FILL IS PROPOSED IN FLOOD

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

ANTERO RESOURCES CORPORATION WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MM-109) FROM THE

THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF ENVIRONMENTAL PROTECTION (WVDEP). THE AUGUST 02, 2024 DELINEATION WATERS MAP WAS PREPAREI BY KLEINFELDER AND SUMMARIZES THE RESULTS OF THE FIELD DELINEATION. THE MAP DOES NOT, IN THAT THE AFOREMENTIONED AGENCIES BE CONSULTED IN AN EFFORT TO GAIN WRITTEN OF THE DELINEATION SHOWN ON THIS EXHIBIT PRIOR TO ENGAGING CONSTRUCTION ON THE 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

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

ROBERT EDDY - UTILITY COORDINATOR

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

OFFICE: (724) 772-7072 CELL: (609) 947-5296

CHRISTOPHER W. SAMIOS - PROJECT ENGINEER

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

GRANT HARDMAN - LAND AGENT

CYRUS S. KUMP, PE - PROJECT

MATT ALBRIGHT - PROJECT MANAGER

PENNSYLVANIA SOIL & ROCK, INC.

ENGINEER/SURVEYOR:

NAVITUS ENGINEERING, INC.

CELL: (304) 719-5199

CELL: (304) 627-7472

MANAGER/ENGINEER

ENVIRONMENTAL:

GEOTECHNICAL:

PROJECT CONTACTS:

<u>OPERATOR:</u> ANTERO RESOURCES CORPORATION

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

ELI WAGONER - ENVIRONMENTAL ENGINEER & REGULATORY MANAGER

OFFICE: (304) 842-4068 CELL: (304) 476-9770 JON McEVERS - SVP 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

RESTRICTIONS NOTES:

- 1. THERE ARE NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE WELL PAD AND LOD. THERE IS 1 WETLAND & 5 STREAMS WITHIN THE LOD THAT WILL NEED PERMITTED BY APPROPRIATE AGENCIES.
- THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND LOD.
- THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE WELL PAD AND LOD.
- 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 THE WELL PAD.
- 6. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD

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.

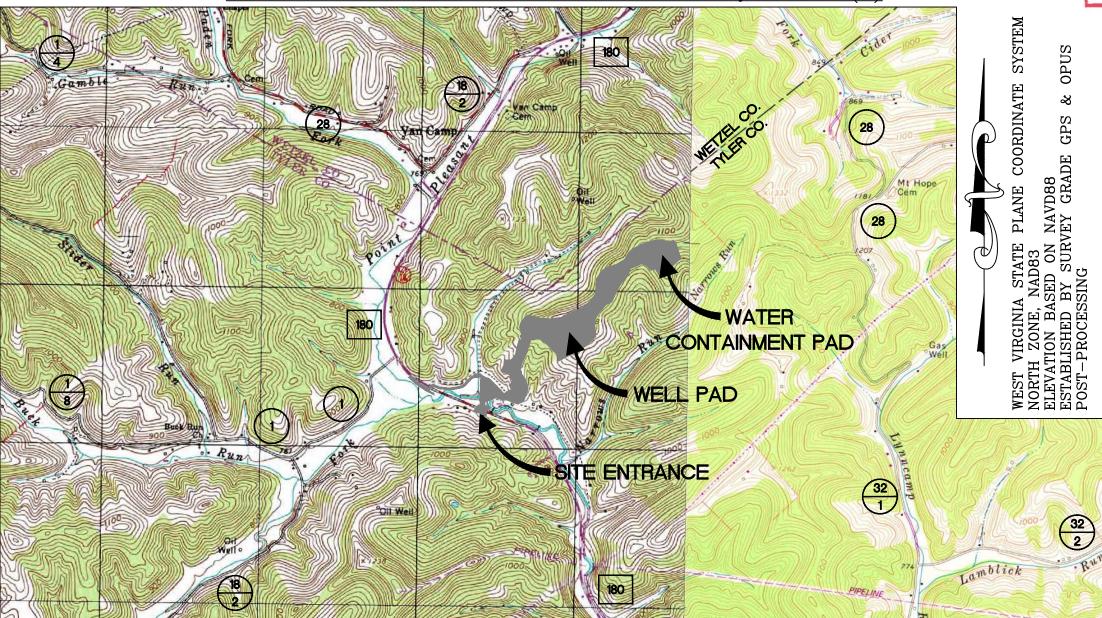
THESE PLANS WERE CREATED FOR COLOR PLOTTING AND ANY REPRODUCTIONS IN GRAY SCALE OR COLOR MAY RESULT IN A LOSS OF INFORMATION AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

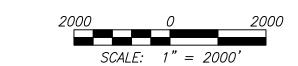
NARROWS WELL PAD & WATER CONTAINMENT PAD

SITE DESIGN & CONSTRUCTION PLAN, EROSION & SEDIMENT CONTROL PLANS

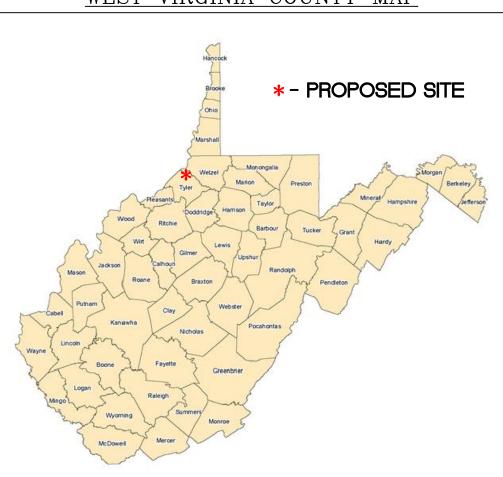
ELLSWORTH DISTRICT, TYLER COUNTY, WEST VIRGINIA POINT PLEASANT CREEK WATERSHED

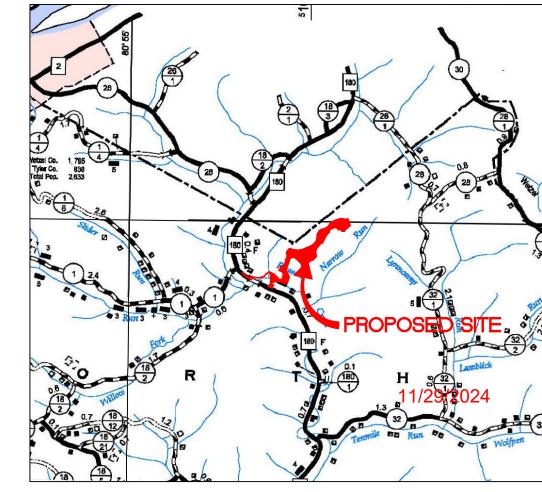
PADEN CITY & PORTERS FALLS USGS 7.5 QUAD MAP(S)





WEST VIRGINIA COUNTY MAP





WVDOH COUNTY ROAD MAP

(NOT TO SCALE)

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.

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!!

WVDEP OOG

42 - ACCESS ROAD & WELL PAD RECLAMATION PLAN 43 - ACCESS ROAD & STOCKPILE RECLAMATION PLAN 44 - ACCESS ROAD & WATER CONTAINMENT PAD RECLAMATION PLAN NARROWS LIMITS OF DISTURBANCE AREA (AC) Impacts to Jonathan R. & Mary Belle Pittman TM 2-8 Access Road "A" (159') **Total Site Total Affected Area** Access Road "A" (813') 5.86 Access Road "B" (2,922') 13.28 Total Wooded Acres Disturbed Access Road "C" (2.061') 10.83 npacts to Jenny L. Hoover Linda L. Hoover (LIFE) TM 3-48 11.79 Well Pad Access Road "A" (616') Water Containment Pad 7.44 Excess/Topsoil Material Stockpiles 11.83 **Total Affected Area** 61.03 Total Wooded Acres Disturbed 46.86 **Impacts to County Route 180** Access Road "A" (38') 1.05 Total Affected Area 1.05 Total Wooded Acres Disturbed Impacts to Charles T. Jr. & Cindy L. White TM 2-5 Access Road "A" 0.02 **Total Affected Area** 0.02 Total Wooded Acres Disturbed 0.00 Impacts to William J. & Mera Lynn Kunkel TM 2-6.1 Access Road "A" 0.38 **Total Affected Area** 0.38 Total Wooded Acres Disturbed 0.06

0.23

0.23

0.03

0.07

2.16

0.19

2.42 2.36

0.08

0.08

0.00

0.47

0.47

0.03

SHEET INDEX:

- COVER SHEET

- MATERIAL QUANTITIES

27 - STOCKPILE SECTIONS

2 - CONSTRUCTION AND E&S CONTROLS NOTES

STORM DRAINAGE & E&S COMPUTATIONS

12 - ACCESS ROAD & WELL PAD PLAN

13 - ACCESS ROAD & STOCKPILE PLAN

Access Road "B" (1,681')	8.11					
Excess/Topsoil Material Stockpiles	3.77					
Total Affected Area	14.65					
Total Wooded Acres Disturbed	6.73		TS			
acts to Michael D. & Chelsee J. Stevens	ГМ 16-65		COMMENTS			
Access Road "B" (484')	1.80	z	MM			
Access Road "C"	0.18	0	CO			
Well Pad	0.41	S_{I}	ا ك			
Excess/Topsoil Material Stockpiles	0.36	IΛ	PER			
Total Affected Area	2.75	REVISION] <u></u>			
Total Wooded Acres Disturbed	2.75		REVISED			
Impacts to Lomax R. Kunkel (LIFE)		ΞVI				
William J. Kunkel & Amy R. Warner TM 3	3-12		곱			
Access Road "B" (314')	1.21					
Access Road "C" (100')	0.42					
Well Pad	11.38		4		_	
Excess/Topsoil Material Stockpiles	2.08	闰	/2024			
Total Affected Area	15.09	DATE	1/2			
Total Wooded Acres Disturbed	15.09	D	10/01/			
npacts to Steven D. & Brenda M. Higgins	TM 3-8		1(
Access Road "C" (1,960')	10.23					
Water Containment Pad	7.44				A	4_
Excess/Topsoil Material Stockpiles	5.16	4			4/1	te
Total Affected Area	22.83					Resou
Total Wooded Acres Disturbed	19.44			HIS DO		
Impacts to Robert D. Wetzel TM 16-67	7			PREP ERO R		
Excess/Topsoil Material Stockpiles	0.27			CORPO		

Total Affected Area

Total Wooded Acres Disturbed

0.79

0.79

0.04

0.27

0.27

Well Name	WW North NAD 27	NAD 27 Lat & Long	NAD 83 UTM (METERS) ZONE 17	NAD 83 Lat & Long
		Perm	itted Location	
NARROWS	N 395952.56	LAT 39-34-43.9539	N 4381033.35	LAT 39-34-44.2318
UNIT 5V	E 1610038.80	LONG -80-53-00.7707	E 510016.15	LONG -80-53-00.1418

1	NARROWS WETLAND IMPACT (SQUARE FEET)						
	Wetland and Impact Cause	Fill (SF)	Total Impact (SF)	Total Impact (AC)			
	KLF_Wetland008 (Stockpile)	289	289	0.007			

Impacts to Donald E. Virden, JR TM 2-6

Impacts to Donald E. Virden, JR TM 2-1.1

Impacts to Donald E. Virden, JR TM 2-1.2

npacts to Jenny L. Hoover Linda L. Hoover (LIFE) TM 2-9

Access Road "A"

Total Affected Area

Total Wooded Acres Disturbed

Access Road "A"

Access Road "B" (443')

Excess/Topsoil Material Stockpiles

Total Affected Area

Total Wooded Acres Disturbed

Access Road "A"

Total Affected Area

Total Wooded Acres Disturbed

Access Road "A"

Total Affected Area

Total Wooded Acres Disturbed

NARROWS EPHEMERAL 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_Stream008 (Access Road)	81	46	127	12	43	55			
NARROWS INTERMITTENT STREAM IMPACT (LINEAR FEFT)									

Stream and Impact Cause	Permanent Impacts		Total	Temp. Impacts		
	Culvert / Fill (LF)	Inlets/Outlets Structures (LF)		Cofferdam/ E&S Controls (LF)	Distance To L.O.D. (LF)	Total Temp. Impact (LF)
KLF_Stream004 (Access Road)	45	16	61	6	6	12
KLF Stream010 (Access Road)	46	0	46	0	13	13

	Permanent Impacts		Total	Temp. Impacts		
Stream and Impact Cause	Culvert / Fill (LF)	Inlets/Outlets Structures (LF)		Cofferdam/ E&S Controls (LF)	Distance To L.O.D. (LF)	Total Temp. Impact (LF)
KLF_Stream005 (Access Road)	46	17	63	9	39	48
KLF_Point Pleasant Creek (Access Road)	87	0	87	0	24	24





DATE: 09/18/2024 SCALE: AS SHOWN

