

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, April 6, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit approval for SHAYS 2H 47-085-10422-00-00

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.

ames A. Martin Chief

Operator's Well Number: SHAYS 2H Farm Name: ELMER W PIERCE U.S. WELL NUMBER: 47-085-10422-00-00 Horizontal 6A New Drill Date Issued: 4/6/2022

Promoting a healthy environment.

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 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. 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.
- 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.

API Number:

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PERMIT CONDITIONS

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 DBPOOGNotify@wv.gov.

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RECEIVED Office of Oil & Gas

4708510422

API NO. 47-085 MAR 1 4 2022

OPERATOR WELL NO Shays Unit 2H Well Pad Nawie n Assistant Partotection

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

1) Well Operato	r: Antero	Resources	Corpora	494507062	085-Ritchie	Union	Oxford 7.5'
,				Operator ID	County	District	Quadrangle
2) Operator's W	ell Numbe	r: Shays Ur	nit 2H	Well Pad	Name: Cashe	ew Pad	
3) Farm Name/S	Surface Ow	mer: Elmer	W. Pierce	Public Road	d Access: Plea	asant Hollo	w Road
4) Elevation, cu	rrent groun	d: <u>1040'</u>	El	evation, proposed	post-construction	on: <u>~1019</u>	·
5) Well Type	(a) Gas	<u>X</u>	_ Oil	Unde	rground Storag	ge	
	Other						
	(b)If Gas	Shallow	<u>X</u>	Deep			
		Horizontal	X				50W 3/10/2022
6) Existing Pad	: Yes or No	Yes					3/10/2022
•	-			ipated Thickness a ss- 55 feet, Associa	•		
8) Proposed Tot	tal Vertical	Depth: 690	00' TVD				
9) Formation at			Marcellus				
10) Proposed To	otal Measur	red Depth:	13,900' N	1D			
11) Proposed H	orizontal L	eg Length:	5,968.6'				
12) Approximat	te Fresh Wa	ater Strata Do	epths:	53', 236'			
13) Method to I	Determine F	Fresh Water	Depths: 4	7-085-07654			
14) Approximat	te Saltwater	Depths: 1	709', 1847	1			
15) Approximat	te Coal Sea	m Depths: <u>I</u>	None Iden	tified			
16) Approximat	te Depth to	Possible Vo	id (coal mi	ne, karst, other): 1	None Anticipat	ted	
17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No X							
(a) If Yes, pro	vide Mine I	Info: Name	e:				
-		Deptl	n:				
		Seam					
		Owne	er:				

WW-6B (04/15)

API NO. 47-_085 OPERATOR WELL NO. Shays Unit 2H Well Pad Name: Cashew Pad

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size</u> (in)	<u>New</u> or Used	Grade	Weight per ft. (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	20"	New	H-40	79#	80	80	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J/K-55	54.5#	300	300	CTS, 417 Cu. Ft.
Coal	9-5/8"	New	J/K-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110CY	20#	13,900	13,900	2572 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

ТҮРЕ	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	20"	24"	0.375"	2250	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"	14,360	2500	Class G/H	~1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

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MAR 1 4 2022

PACKERS

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

WV Department of vironmenta: Protection

WW-6B (10/14) API NO. 47-_085__-OPERATOR WELL NO. Shays Unit 2H Well Pad Name: Cashew Pad

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

Drill a new horizontal shallow well into the Marcellus Shale.

*Antero will be air drilling the fresh water string which makes it difficult to determine when fresh water is encountered. Therefore, we have built in a buffer for the casing setting depth which helps to ensure that all fresh water zones are covered.

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

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

Anticipated Max Pressure - 9300 lbs Anticipated Max Rate - 80 bpm Office of Oil & Gas

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 33.75 acresvironmental Protection

22) Area to be disturbed for well pad only, less access road (acres): 14.29 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: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

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

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

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

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

*Note: Attach additional sheets as needed.

WW-9	
(4/16)	API Number 47 - 085 -
	Operator's Well No. Shays Unit 2H
	OF WEST VIRGINIA
	ENVIRONMENTAL PROTECTION CE OF OIL AND GAS
OTTR	E OF OIL ATD GAS
FLUIDS/ CUTTINGS I	DISPOSAL & RECLAMATION PLAN
Operator Name Antero Resources Corporation	OP Code 494507062
Watershed (HUC 10) South Fork Hughes River	Quadrangle Oxford 7.5
Do you anticipate using more than 5,000 bbls of water to c Will a pit be used? Yes No	omplete the proposed well work? Yes No No
If so, please describe anticipated pit waste: Nophy	will be used at this site (Driving 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 V If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Waster	s: 3/20/20
Land Application	5140120
 Underground Injection (UIC Person 1) 	ermit Number *UIC Permit # will be provided on Form WR-34
	mitted well locations when applicable. API# will be provided on Form WR-34)
Off Site Disposal (Supply form Other (Explain	WW-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98) Northwestern Landfill Permit #SWF-1025/ WV0109410
	Wetzel County Landfill (Permit #SWF-1021)
Will closed loop system be used? If so, describe: Yes, fluid	ds stored in tanks, cuttings removed offsite and taken to landfill.
Drilling medium anticipated for this well (vertical and hori:	zontal)? Air, freshwater, oil based, etc.
-If oil based, what type? Synthetic, petroleum, etc	Synthetic
Additives to be used in drilling medium? Please See Attach	ment
Drill cuttings disposal method? Leave in pit, landfill, remo	ved offsite, etc. Drill cuttings stored in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium wil	I be used? (cement, lime, sawdust)_N/A
-Landfill or offsite name/permit number?	fill Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV0109410) County Landfill (Permit #SWF-1021)
Permittee shall provide written notice to the Office of Oil an West Virginia solid waste facility. The notice shall be provi where it was properly disposed	nd Gas of any load of drill cuttings or associated waste rejected at any ided within 24 hours of rejection and the permittee shall also disclose

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Gretchen Kohler	RECEIVED Office of Oil & Gas
Company Official (Typed Name) Gretchen Kohler	MAR 1 4 2022
Company Official Title Director of Environmental & Regulate	WV Department of Environmental Protection
Subscribed and sworn before me this 17 day of	Notar Public DIANE BLAIR
My commission expires 27 Apro	NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024 04/08/2022

WW.O

Operator's Well No. Shays Unit 2H

Antero Resources Corporation

Form WW-9

Proposed Revegetation Treatme	nt: Acres Disturbed 33.75 a	cres Prevegetation p	н				
Lime 2-4	_ Tons/acre or to correct to pH	I <u>6.5</u>					
Fertilizer type	traw or Wood Fiber (will be used	where needed)					
Fertilizer amount 500		os/acre					
Mulch 2-3	Tons	acre					
Access Road (10.92 acres) + Well Pad (14.29 acres) + Staging 1 (1.04 acres) + Staging 2 (2.20 acres) + Spoil Pile 1 (1.12 acres) + Spoil Pile 2 (0.88 acres) + Topsoil Stripping (3.30 acres) = 33.75 Acres							
	See	d Mixtures					
Тетр	orary	Perm	anent				
Seed Type	Ibs/acre	Seed Type	lbs/acre				
Annual Ryegrass	40	Crownvetch	10-15				
Field Bromegrass	40	Tall Fescue	30				
See attached Table IV-3 for additional s	eed type (Cashew Pad Design)	See attached Table IV-4A for additiona	il seed type (Cashew Pad Design)				
*or type of grass seed requi	ested by surface owner	*or type of grass seed requ	ested by surface owner				

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions ($L \times W \times D$) of the pit, and dimensions ($L \times W$), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Spl White Plan Approved by: Spl White Plan (Ch as soon as Reasonably pos	sible. Upgrode
Ets as necessary per LUU DEP Ets manual	
	RECEIVED Office of Oil & Gas
	MAR 1 4 2022
· · · · · · · · · · · · · · · · · · ·	WV Department of Environmentel Protection
Title: 006 Inspector Date: 3/10/202	22
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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WV Department of Environmental Protection

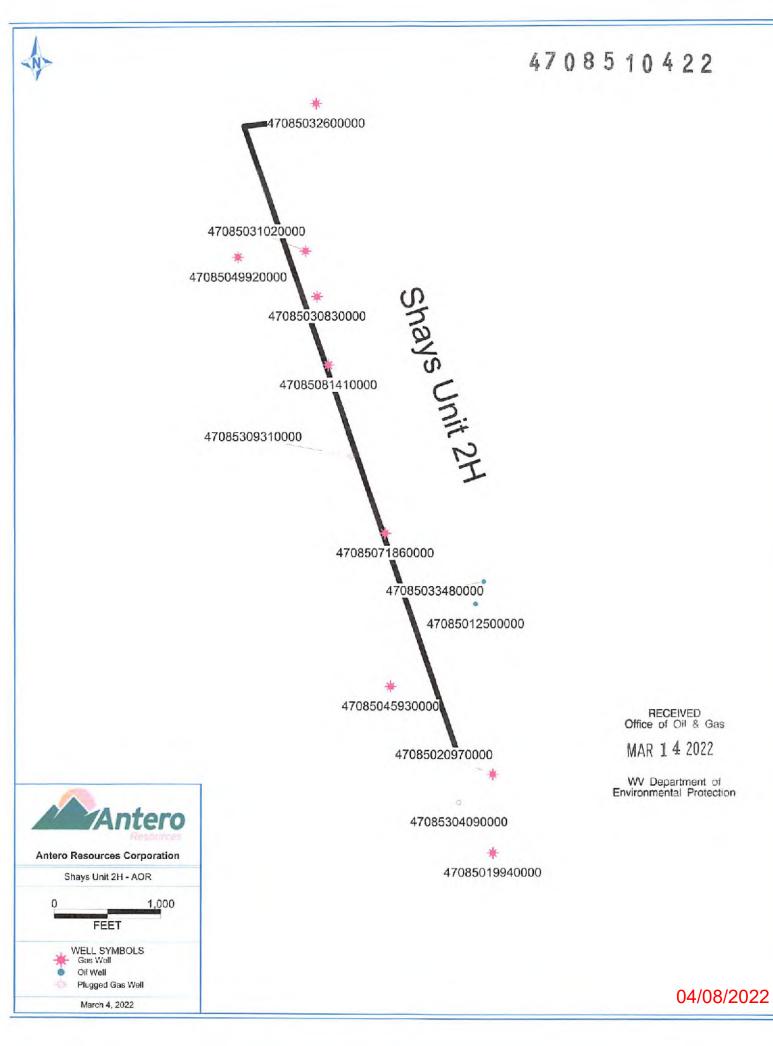
13. Escaid 110
Drilling Fluild Solvent – Aliphatic Hydrocarbon
14. Ligco
Highly Oxidized Leonardite – Filteration Control Agent
15. Super Sweep
Polypropylene – Hole Cleaning Agent
16. Sulfatrol K
Drilling Fluid Additive – Sulfonated Asphalt Residuum
17. Sodium Chloride, Anhydrous
Inorganic Salt
18. D-D
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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UWI (A	APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval	Perforated Formation(s)	Producible Formation(s) not perf'd
470850	071860000	BRITTON-PIGOTT	1	BETA HELIX ENRGY ILC	CHASE PETROLEUM CO	5,350	4,708-5,085	Benson	Warren, Berea, Weir, Big Injun, Pocono
470850	49920000	SMITH-SHEPLER	1	BETA HELIX ENRGY LLC	CHASE PETROLEUM CO	5,150	3,824-4,909	Riley, Benson	Warren, Berea, Weir, Big Injun, Pocono
470850	45930000	COX FONDA	J-236	BRAXTON O&G CORP	J & J ENTERPRISES	5,529	2,111-5,025	Alexander, Riley, Benson, Warren, Berea	Weir, Big Injun, Pocono
470853	304090000	ICY M SNIDER	1	DEEM F S	DEEM F S				
470850	081410000	JETT MYRTLE & RALPH	1	HARPER CROSBY HOLDING	FLUHARTY ENTERPRISES	5,402	4,072-5,190	Riley	Benson, Warren, Berea, Weir, Big Injun, Pocond
470853	309310000	S JETT 1	4717	PITTSBURGH&W VA GAS	PITTSBURGH&W VA GAS	2,021		Big Injun	Pocono
470850	000068060	R F KEISTER	1	R & R OIL & GAS LLC	OIL STATES SALES	2,080		Big Injun	Pocono
470850	020970000	B M PIERCE	1	TERM ENERGY	MOSSOR OIL & GAS	1,788		Big Injun	Pocono
470850	012500000	AL PIERCE	1	PIGOTTLG	PIGOTTLG	1,802		Big Injun	Pocono
470850	33480000	D J RICHARDS	2	TERM ENERGY	MOSSOR W H	1,800		Big Injun	Pocono
470850	19940000	I M SNIDER	1	ADAMS ENERGY CO	TOWER DRILLING	1,992		Big Injun	Pocono
470850	32600000	R L KEISTER	3	R & R OIL & GAS LLC	OIL STATES SALES	2,013		Big Injun	Pocono
470850	31020000	R L KEISTER	2	R & R OIL & GAS LLC	OIL STATES SALES	1,900	and the second second	Maxton, Big Injun	Pocono

Office of Oil & Gas MAR 1 4 2022 WV Department of Environmental Protection



911 Address 2184 Sugar Run Rd West Union, WV 26456

Well Site Safety Plan

Antero Resources

Well Name: Cashew Unit 5H, Elklick Unit 1H & 2H, Shays Unit 1H & 2H And Smelt Unit 1H & 2H

Pad Location: CASHEW PAD

Ritchie County Union District

5060 3110/2022

GPS Coordinates:

Entrance - Lat 39.180627'/ Long -80.850392' (NAD83) Pad Center - Lat 39.172018'/ Long -80.857550' (NAD83)

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MAR 1 4 2022

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04/08/2022

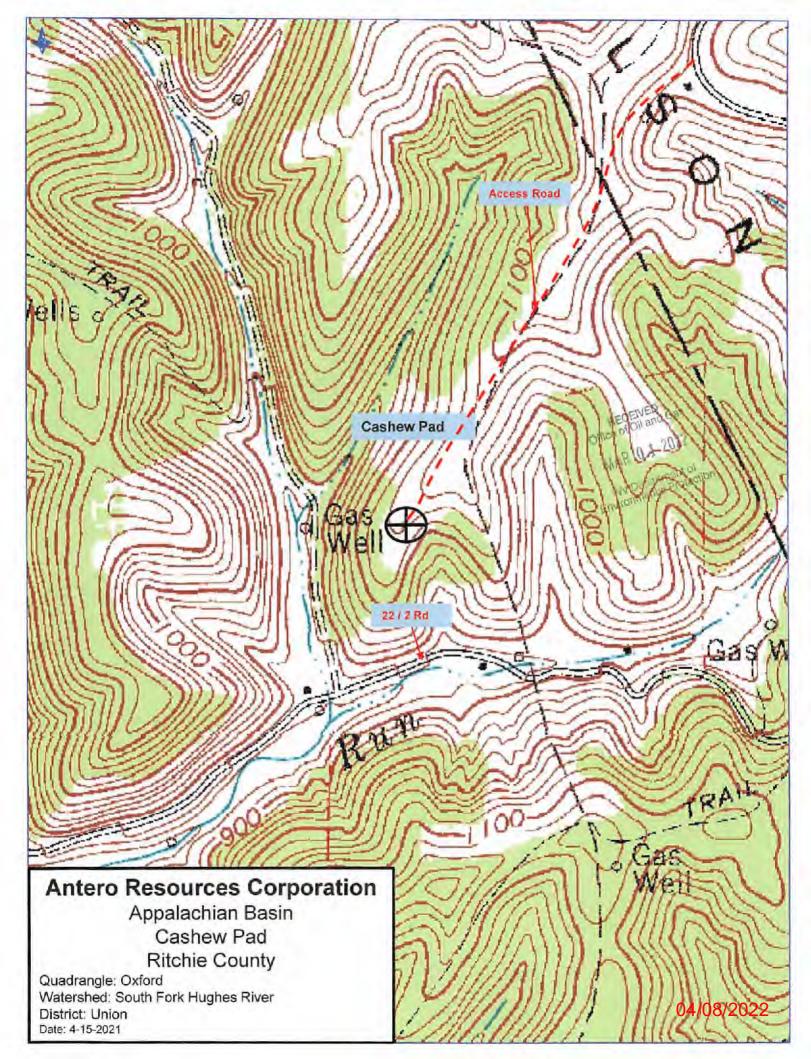
Driving Directions:

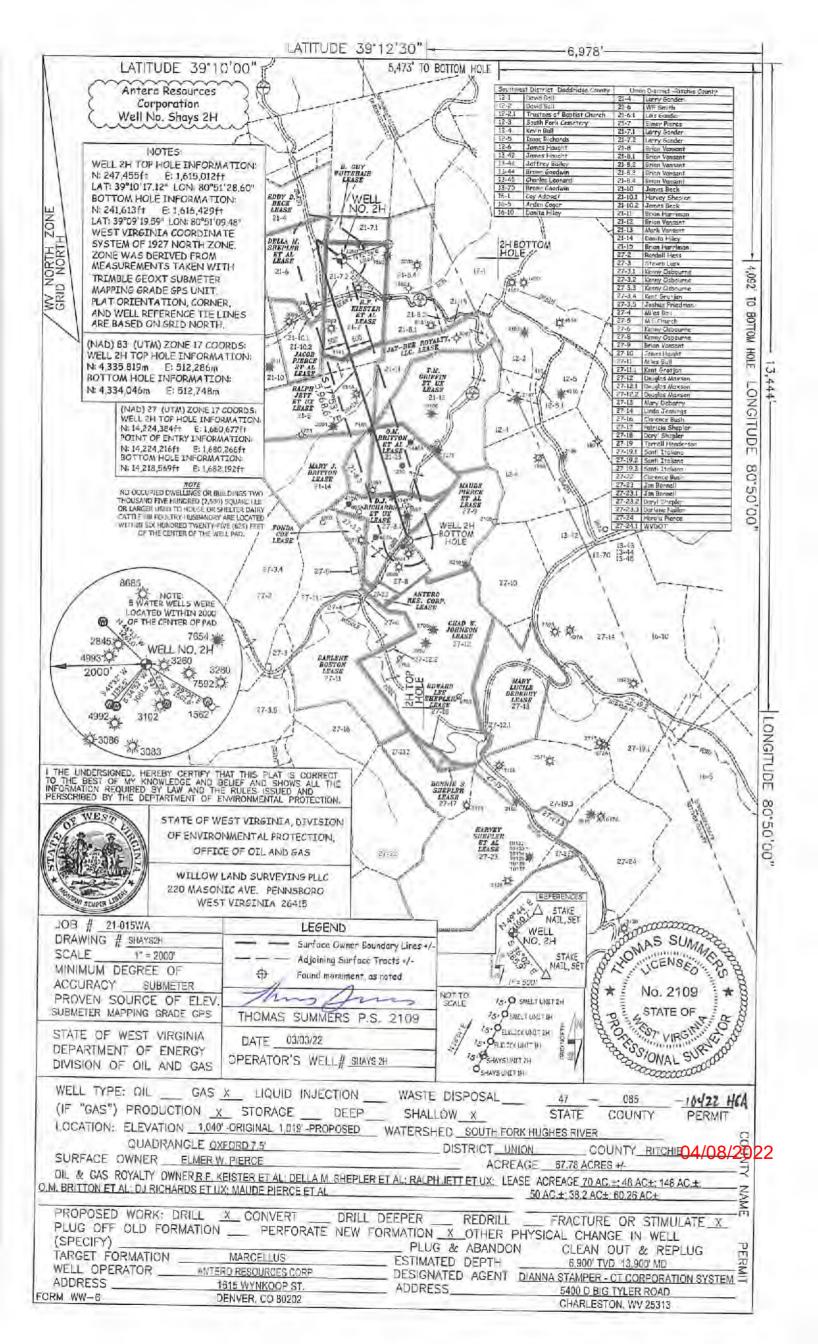
WV Department of Environmental Protection onto Oxford Road for 5.1 miles. Continue onto S. Fork of Hughes River for 0.5 miles. Turn right onto Sugar Run for 2.3 miles. Lease road will be on your right.

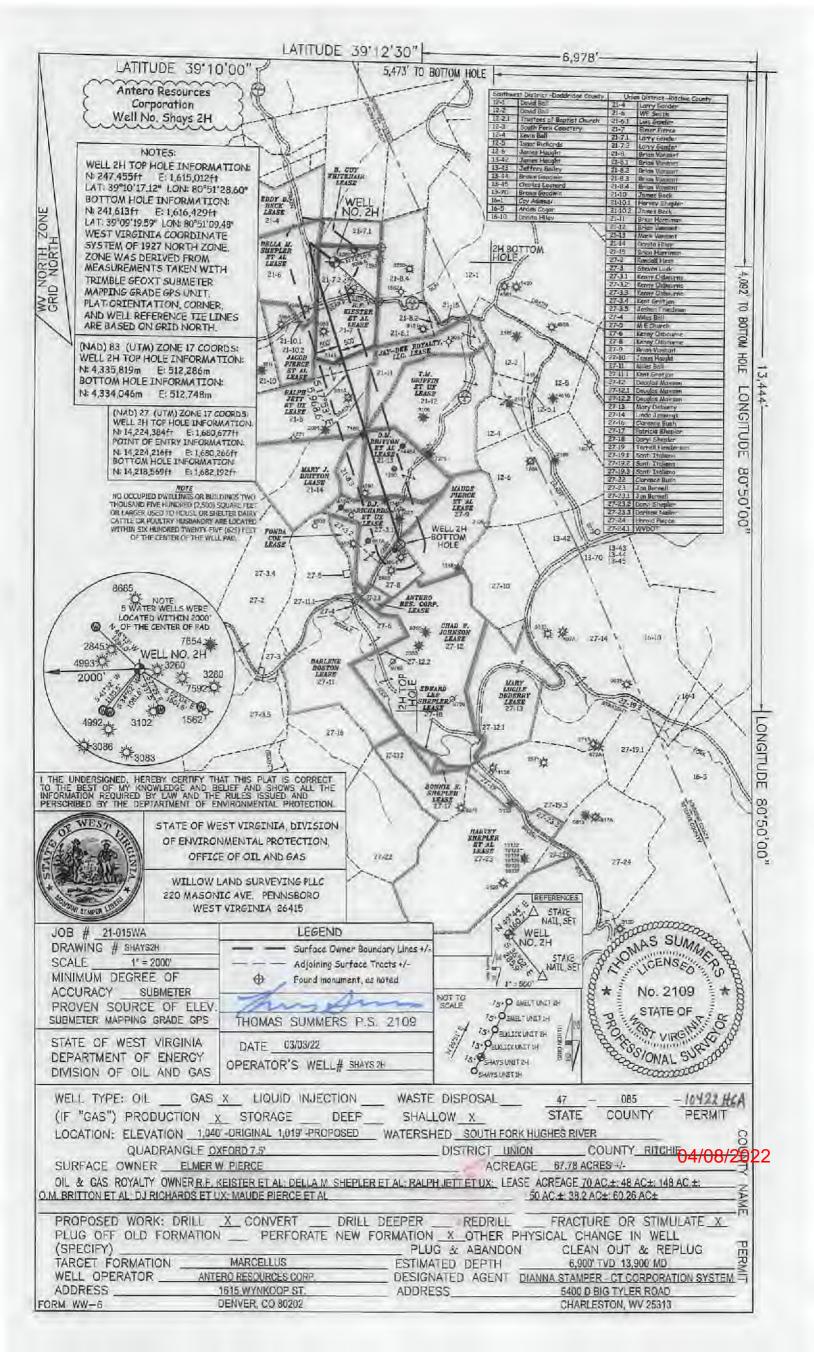
Alternate Route:

From Auburn: Head west onto Auburn Road Main Street for 30 ft. Turn right onto Toll Gate Road for 0.3 miles. Continue onto Left Fork Bone Creek for 1.0 mile. Slight left onto CO Rd 7 13 for 1.7 miles. Continue straight onto Summer Road Brushy Fork for 1.7 miles. Turn right to stay on Summer Road Brushy Fork for 1.3 miles. Turn left onto Sugar Run for 2.2 miles. Lease road will be on your left.

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







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Operator's Well Number

Shays Unit 2H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

	Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
	R.F. Keister, et al <u>Lease</u>			
1	R.F. Keister, et al	G.L. Yaste	1/8	0105/0504
	G.L. Yaste	D.L.Y., inc.	Assignment	0112/0302
	D.L.Y.m Inc.	Betty Jean Stalkner and Rosalee Roberts	Assignment	0132/0565
	Betty Jean Stalkner and Rosalee Roberts	R & S Gas Company	Assignment	0147/0548
	R & S Gas Company	BET-RO Inc	Assignment	0147/0554
	BET-RO Inc	Roberts Energy Corporation	Assignment	0240/0036
	Roberts Energy Corporation	Antero Resources Corporation	Assignment	0329/0138
/	Della M. Shepler, et al Lease			
	Della M. Shepler, et al	Aiton Skinner	1/8	0132/0345
	Alton Skinner	Crystal G. Skinner and Desari S. Garrett	Assignment	0216/0391
	Cyrstal G. Skinner and Desari S. Garrett	D C Petroleum, inc.	Assignment	0247/0245
	D C Petroleum, Inc.	Antero Resources Appalachian Corporation	Assignment	0254/0789
	Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0015/0705
	R.F. Keister, et al Lease			
/	R.F. Keister, et al	G.L. Yaste	1/8	0105/0504
	G.L. Yaste	D.L.Y., Inc.	Assignment	0112/0302
	D.L.Y.m Inc.	Betty Jean Stalkner and Rosalee Roberts	Assignment	0132/0565
	Betty Jean Stalkner and Rosalee Roberts	R & S Gas Company	Assignment	0147/0548
	R & S Gas Company	BET-RO Inc	Assignment	0147/0554
	BET-RO Inc	Roberts Energy Corporation	Assignment	0240/0036
	Roberts Energy Corporation	Antero Resources Corporation	Assignment	0329/0138
/	Ralph Jett, et ux Lease			
	Ralph Jett, et ux	W.R. Development Co. Inc.	1/8	0191/0378
	W.R. Development Co. Inc.	Whittle Corporation	Assignment	0254/0910
	Whittle Corporation	Antero Resources Appalachian Corporation	Assignment	0255/0526
	Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0015/0702 ය ^{ුදුප}
	/ O.M. Britton, et al Lease		C. C	• 1)
	O.M. Britton	L.G. Piggott	1/8 0 1	0078/0337
	L.G. Piggott	Dorothy W. Piggott, Carolyn Erambert, Janet W. Coffman, Lucia C. Anderson, and Dorthy Black	Assignment NA	0151/0137
	Dorothy W. Piggott, Carolyn Erambert, Janet W. Coffman, Lucia C. Anderson, and Dorthy Black	Chase Petroleum, Inc.	Name Change	121 PTOTO 0159/0383
	Chase Petroleum, Inc.	Antero Resources Appalachian Corporation	Assignment Environ	0254/0133
	Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0015/0705
	/ D.J. Richards, et ux Lease			
	D.J. Richards, et ux	S.W. Young	1/8	0051/0365
	S.W. Young	B.W. Foley	Assignment	0064/0271
	B.W. Foley	J.D. Foley	Assignment	0075/0051
	J.D Foley	F.S. Deem	Assignment	04/08/2922

Operator's Well Number Shays Unit 2H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
F.S. Deem	W.H. Mossor	Assignment	0075/0053
W.H. Mosor	S.W. Jack Jr., S.W. Jack Drilling Company	Assignment	0130/0385
S.W. Jack Jr., S.W. Jack Drilling Company	J&J Enterprises, Inc	Assignment	0130/0392
J&J Enterprises, Inc	Eastern American Energy Corporation	Assignment	0231/0732
Eastern American Energy Corporation	Energy Corporation of America	Merger	0006/0450
Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	0264/0266
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0015/0705

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WV Department of Environmental Protection

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

WW-6A1 (5/13) Operator's Well No. Shays Unit 2H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- 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
Maude Pierce, et al Lease				
	Maude Pierce, et al	W.H. Mossor	1/8	0090/0113
	W.H. Mossor	Term Energy Corporation	Assignment	0132/0314
	Term Energy Corporation	Antero Resources Appalachian Corp.	Assignment	0257/0362
	Antero Resources Appalachian Corp.	Antero Resources Corporation	Name Change	0015/0705

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

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

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

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

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, E6EWED and Gas nullifies the need for other permits/approvals that may be necessary and further affirms that alloieeded permits/approvals should be acquired from the appropriate authority before the affected activity is initiated a 1 2022

Well Operator:	Antero Resources Corporation	WV Department of Environmental Protection
By:	Tim Rady	Environmental Front
lts:	VP of Land	

Page 3 of 3 04/08/2022



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

February 14, 2022

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

RE: Shays Unit 1H-2H Quadrangle: Oxford 7.5' Ritchie County/Union District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permits for the Shays Unit 1H - 2H horizontal shallow wells. 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 Shays Unit 1H - 2H horizontal laterals will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

to ellande

Tyler Skavdahl Senior Landman

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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE CERTIFICATION</u>

Date of Notice Certification: 02/25/2022

API No. 47- 085	-
Operator's Well No.	Shays Unit 2H
Well Pad Name:	Cashew Pad

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	West Virginia	T 1773 & NI & TN 02	Easting:	512286m
County:	Ritchie	UTM NAD 83	Northing:	4335819m
District:	Union	Public Road Ac	cess:	Pleasant Hollow Road
Quadrangle:	Oxford 7.5'	Generally used	farm name:	Elmer W. Pierce
Watershed:	South Fork Hughes River			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/
□ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SURVEY WAS CONDUCTED	
3. NOTICE OF INTENT TO DRILL or ONTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/
U WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION RECEIVED Office of Oil and Gas	
5. PUBLIC NOTICE Office of Oil and Gas MAR 3 2022	
6. NOTICE OF APPLICATION WV Department of Environmental Protection	

Required Attachments:

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

Certification of Notice is hereby given:

THEREFORE, I Diana Hoff _______, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A. I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator:	Antero Resources Corporation	Address:	1615 Wynkoop Street
By:	Diana Hoff Diana O. Hoff	_	Denver, CO 80202
Its:	Senior VP of Operations	Facsimile:	303-357-7315
Telephone:	303-357-7310	Email:	mstanton@anteroresources.com
		beeribed and mu	orn before me this 28 day of Joh 2022

DIANE BLAIR NOTARY PUBLIC STATE OF COLORADO	Subscribed and sworn before me this 28 day of the 2022 Diane Blain Notary P		Notary Public
NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024	My Commission Expires	27 Apr 2024	0

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 <u>depprivacyofficer@wv.gov</u>.

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MAR 3 2022

WV Department of Environmental Protection

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: 02/28/2022 Date Permit Application Filed: 02/28/2022

Notice of:

\checkmark	PERMIT FOR ANY	CERTIFICATE OF APPROVAL FOR THE
	WELL WORK	CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

PERSONAL	REGISTERED	METHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURF	ACE OWNER(s)	COAL OWNER OR LESSEE	
Name:	Elmer W. Pierce	Name: NO DECLARATIONS ON RECORD WITH COUNTY	
Address:	1634 Pleasant Hollow Road	Address:	
	West Union, WV 26456		-
Name:	Larry & Lois Gander	COAL OPERATOR	Office of Oil and Gas
Address:	2249 Clairmont Drive	Name: NO DECLARATIONS ON RECORD WITH COUNTY	of Oil and G
	Pittsburgh, PA 15241	Address:	MAR 2 200
SURF/	ACE OWNER(s) (Road and/or Other Disturbance)		3 2022
Name:		Address: WATER PURVEYOR(s)/OWNER(s) OF WATER WELLE SPRING OR OTHER WATER SUPPLY SOURCE Name: _PLEASE SEE ATTACHMENT	WV Depattment of
		Name: PLEASE SEE ATTACHMENT	rotection
Name:		Address:	
Address:			_
		OPERATOR OF ANY NATURAL GAS STOR	AGE FIELD
	ACE OWNER(s) (Impoundments or Pits)	Name:	
Name:	·····	Address:	
Address:			-
		*Please attach additional forms if necessary	

APINO.4700 8510 OPERATOR WELL NO. Shays Unit 2H Well Pad Name: Cashew 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.

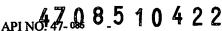
Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental or Oil and Bas Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.uoy/off and gas/pages/default.aspx;

Well Location Restrictions

Environmenia 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

04/08/2022

WV Department of



OPERATOR WELL NO. Shays Unit 2H Well Pad Name: Cashew 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 of Oil and Gas 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.

WV Department of Environmental Protection

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PINO 4708 0 8 5 10 4 2 2

OPERATOR WELL NO. Shays Unit 2H Well Pad Name: Cashew 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-

<u>Permits/Pages/default.aspx</u> 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

MAR 3 2022

WV Department of Environmental Protection

APING 47 0 8 5 1 0 4 2 2

OPERATOR WELL NO. Shays Unit 2H Well Pad Name: Cashaw Pad

Notice is hereby given by:

Well Operato	C Antero Resources Corporation			
Telephone:	(303) 357-7310	Diana O.	Hold	
Email:	mstanton@antero	resources.com	a	

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.

DIANE BLAIR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871	Subscribed and sworn before me this $\frac{28}{28}$ day of $\frac{1}{5}$	Notary Public
MY COMMISSION EXPIRES 27-Apr-2024	My Commission Expires 27 Apr 20	024

RECEIVED Office of Oil and Gas

MAR 3 2022

WV Department of Environmental Protection

WW-6A Notice of Application to Water Source Owner:

Water Source Owners:

<u>W1:</u>

Owner:	Larry & Lois Gander
Address:	2249 Clairmont Dr.
	Pittsburgh, PA 15241-3251

<u>W2 & W3:</u>

Owner:	WF Smith Heirs	
Address:	2249 Clairmont Dr.	
	Pittsburgh, PA 15241-3251	

<u>W4:</u>

Owner:	Elmer W. Pierce
Address:	1634 Pleasant Hollow Road
	West Union, WV 26456-6272

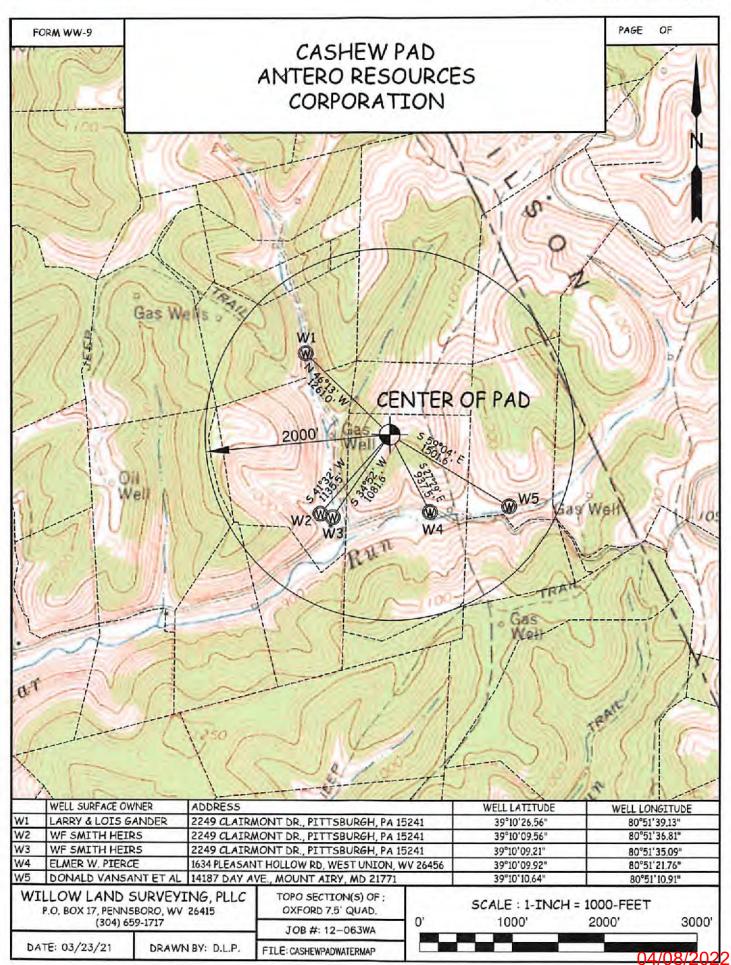
<u>W5:</u>

Owner:	Donald Vansant, et al
Address:	14187 Day Ave.
	Mount Airy, MD 21771-4631

RECEIVED Office of Oil and Gas

MAR **3** 2022

WV Department of Environmental Protection



WW-6A4 (1/12)

4708510422

Operator Well No. Shays Unit 2H

Cashew Pad

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 Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date Permit Application Filed: 02/28/2022 Date of Notice: 02/17/2022

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND	CERTIFIED MAIL
DELIVERY	RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name:	Elmer W. Pierce	Name:	Larry & Lois Gander	RECEIVED Gas
Address:	1634 Pleasant Hollow Road	Address:	2249 Clairmont Drive	Office of Oil and Car
	West Union, WV 26456		Pittsburgh, PA 15241	MAR 0 1 2022
				MOR O I LUCE

Notice is hereby given:

WV Decentment of Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon cuch the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	LITNANAD 02	Easting:	512286m	
County:	Ritchie	UTM NAD 83	Northing:	4335819m	
District:	Union	Public Road Acc	ess:	Pleasant Hollow Road	
Quadrangle:	Oxford 7.5	Generally used fa	arm name:	Gander, Larry and Lois	
Watershed:	South Fork Hughes River	and the second se			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator:	Antero Resources Corporation	Authorized Representative:	Mallory Stanton
Address:	1615 Wynkoop St.	Address:	1615 Wynkoop St.
	Denver, CO 80202		Denver, CO 80202
Telephone:	303-357-7310	Telephone:	303-357-7310
Email:	mstanton@anteroresources.com	Email:	mstanton@anteroresources.com
Facsimile:	303-357-7315	Facsimile:	303-357-7315

Oil and Gas Privacy Notice:

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

RECIEIVED, Cas

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 02/28/2022 Date Permit Application Filed: 02/28/2022

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

1	CERTIFIED MAIL	HAND
	RETURN RECEIPT REQUESTED	DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name:	Elmer W. Pierce	Name:	Larry & Lois Gander	Office of Oll and Cad
Address:	1634 Pleasant Hollow Road	Address:	2249 Clairmont Drive	0 1 2022
	West Union, WV 26456		Pittsburgh, PA 15241	MAR 0 1 LOLL
Notice is	s hereby given:			WV Department of

Notice is hereby given:

mental Protection Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	LITMANIAL East	sting:	512285m	
County:	Ritchie	UTM NAD 83 No	rthing:	4335819m	
District:	Union	Public Road Access:		Pleasant Hollow Road	
Quadrangle:	Oxford 7.5'	Generally used farm	name:	Elmer W. Pierce	
Watershed:	South Fork Hughes River				

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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-andgas/pages/default.aspx.

Well Operator:	Antero Resources Corporation	Address:	1615 Wynkoop Street	
Telephone:	(303) 357-7310		Denver, CO 80202	
Email:	mstanton@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 depprivacyofficer@wv.gov.

API NO. 47- 085 -OPERATOR WELL NO. Shays Unit 2H Well Pad Name: Cashew Pad

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

Instructions to Persons Named on Page WW-6A

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

Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

I, ______, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through ______, including the erosion and sediment control plan, if

required, and	the well plat, all for proposed well	work on the tract of land as following	lows:		
State:	West Virginia	UTM NAD 83	Easting:	512286m	
County:	Ritchie	UTMINAD 83	Northing:	4335819m	
District:	Union	Public Road Acc	ess:	Pleasant Hollow Road	
Quadrangle:	Oxford 7.5'	Generally used f	arm name:	Elmer W. Pierce	-
Watershed:	South Fork Hughes River				

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

*Please check the box that applies	FOR EXECUTION BY A NATURAL PERSON		
□ SURFACE OWNER	Signature:		
□ SURFACE OWNER (Road and/or Other Disturbance)	Print Name: Date:		
□ SURFACE OWNER (Impoundments/Pits)	FOR EXECUTION BY A CORPORATION, ETC.		
COAL OWNER OR LESSEE	Company:		
COAL OPERATOR	By:		
□ WATER PURVEYOR	Signature: MAR 0 1 . J22		
□ OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date:		

Oil and Gas Privacy Notice:

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



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

D. Alan Reed, P.E. State Highway Engineer (304) 558-3505 Jimmy Wriston, P. E. Secretary of Transportation

February 10, 2022

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 Cashew Pad, Ritchie County Shays Unit 2H Well Site RECEIVED Office n. Cil and Gas

MAR 0 1 2022

Commissioner of Highways

W1 Dependents of Environmental Protection

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2019-0091 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off Doddridge County Route 52 SLS MP 2.97.

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 October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Dary K. Clayton

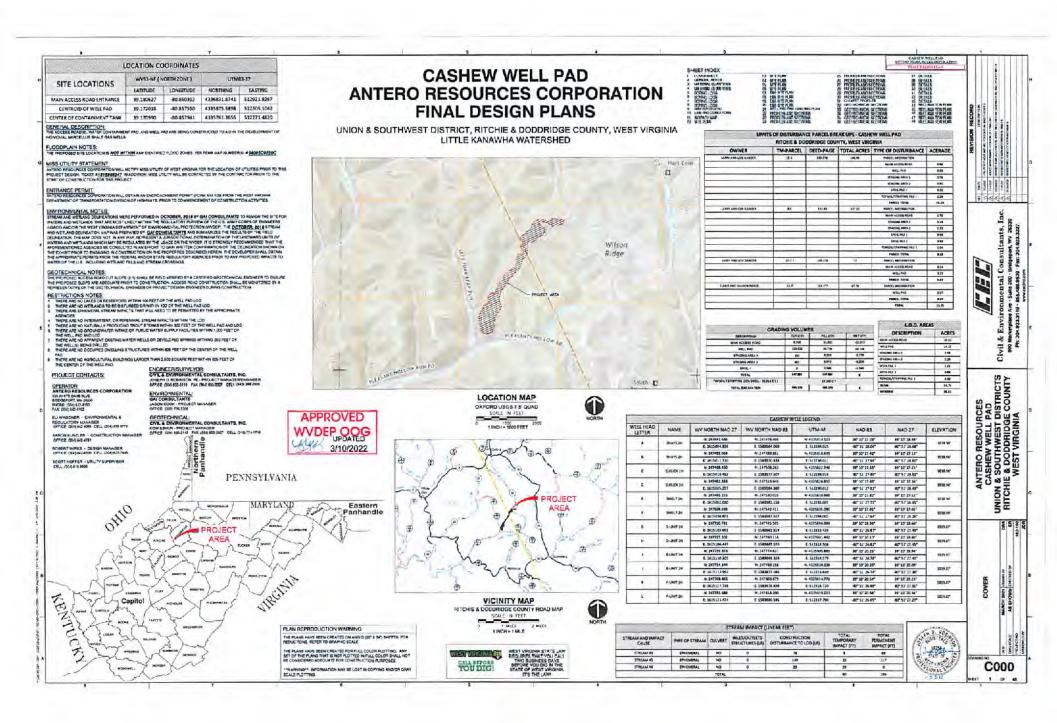
Gary K. Clayton, P.E. Regional Maintenance Engineer Central Office O&G Coordinator

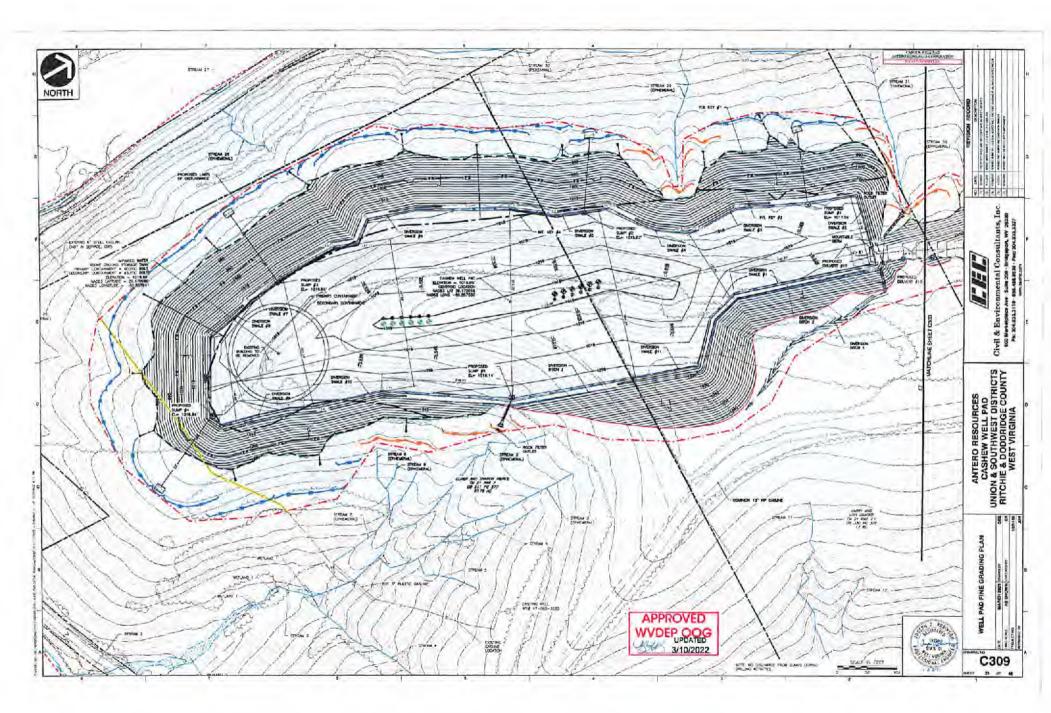
Cc: Diane Blair Antero Resources Corporation CH, OM, D-3 & 4 File

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

FRACTURING/STIMULATING INTERVAL

	Additive	Chemical Abstract Service Number (CAS #)
1.	Fresh Water	7732-18-5
2.	2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
3.	Ammonium Persulfate	7727-54-0
4.	Anionic copolymer	Proprietary
5.	Anionic polymer	Proprietary
6.	BTEX Free Hydrotreated Heavy Naphtha	64742-48- 9
7.	Cellulase enzyme	(Proprietary)
8.	Demulsifier Base	(Proprietary)
9.	Ethoxylated alcohol blend	Mixture
10.	Ethoxylated Nonylphenol	68412-54-4
	Ethoxylated oleylamine	26635-93-8
	Ethylene Glycol	107-21-1
	Glycol Ethers	111-76-2
	Guargum	9000-30-0
	Hydrogen Chloride	7647-01-0
	Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
	Isopropyl alcohol	67-63-0
18.	Liquid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2
19.	Microparticle	Proprietary
20.	Petroleum Distillates (BTEX Below Detect)	64742-47-8
21.	Polyacrylamide	57-55-6
22.	Propargyl Alcohol	107-19-7
23.	Propylene Glycol	57-55-6
24.	Quartz	14808-60-7
25.	Sillica crystalline quartz	7631-86-9
	Sodium Chloride	7647-14-5
27.	Sodium Hydroxide	1310-73-2
	Sugar	57-50-1
	Surfactant	68439-51-0
	Suspending agent (solid)	14808-60-7
	Tar bases, quinolone derivs, benzyl chloride-quarternized	72480-70-7
	Solvent Naptha, 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
	Hexamythylene Triamine Penta	34690-00-1
	Phosphino Carboxylic acid polymer	
	Hexamethylene diamine penta	71050-62-9
		23605-74-5
	2-Propenoic acid, polymer with 2 propenamide	9003-06-9
	Hexamethylene diamine penta (methylene phosphonic a	•
	Diethylene Glycol	111-46-6
	Methenamine	100-97-0
	Polyethylene polyamine	68603-67-8
	Coco amine	61791-14-8
45.	2-Propyn-1-olcompound with methyloxirane	38172-91-7





1	OCATION CO	DORDINATES		
SITE LOCATIONS	WV03-NF (NORTH ZONE)		UTME3-17	
SHELOCATIONS	LAITTUDE	LONGITUDE	NORTHING	EASTING
MAIN ACCESS ROAD ENTRANCE	39.180627	-80.850392	4336831.8741	511921.8257
CENTROID OF WELLPAD	39.172038	-80.857550	4335875.5898	512305.1042
CENTER OF CONTAINMENT TANK	39.170990	-30.857941	4335761.3650	512271.4820

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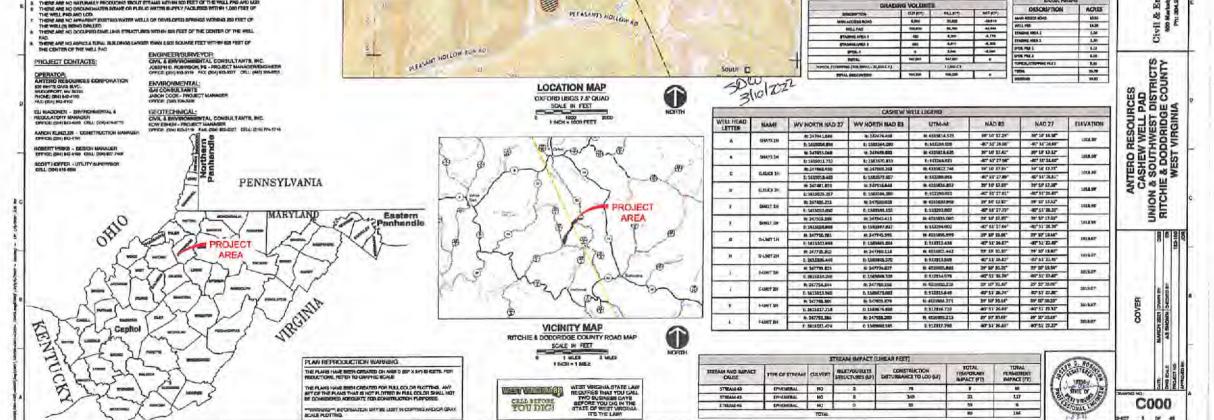
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UNION & SOUTHWEST DISTRICT, RITCHIE & DODDRIDGE COUNTY, WEST VIRGINIA LITTLE KANAWHA WATERSHED



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CASHEW WELL PAD ANTERO RESOURCES CORPORATION FINAL DESIGN PLANS