

west virginia department of environmental protection

Office of Oil and Gas 601 57<sup>th</sup> 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 ELKLICK 2H 47-085-10420-00-00

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. Man Chief

Operator's Well Number: ELKLIOK 2H Farm Name: ELMER W PIERCE U.S. WELL NUMBER: 47-085-10420-00-00 Horizontal 6A New Drill Date Issued: 4/6/2022

Promoting a healthy environment.

API Number:

## PERMIT CONDITIONS

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

#### CONDITIONS

- 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
- 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.
- 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.

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 DEPOOGNotify@wv.gov.

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04/08/2022

4708510420 API NO. 47-085

WW-6B (04/15)

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

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

1) Well Operator	: Antero F	Resources	Corpora	494507062	085-Ritchie	Union	Oxford 7.5'	
				Operator ID	County	District	Quadrangle	
2) Operator's We	ell Number:	Elklick Un	it 2H	Well Pad	Name: Cashe	ew Pad		
3) Farm Name/S	urface Own	er: Elmer	N. Pierce	Public Road	d Access: Plea	asant Hollo	w Road	
4) Elevation, cur	rent ground	: 1040'	El	evation, proposed	post-construction	on: <u>~1019</u>	I	
, ,,	a) Gas <u>&gt;</u> Other	<b>K</b>	_ Oil	Unde	rground Storag	ge		
(		Shallow Horizontal	X X	Deep			50eu 3(10/2022	
6) Existing Pad:			<u> </u>				3/10/2022	
7) Proposed Targ	<ul> <li>7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):</li> <li>Marcellus Shale: 6900' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#</li> </ul>							
8) Proposed Tota	l Vertical D	epth: 690	0' TVD					
9) Formation at			Marcellus	\$				
10) Proposed To	tal Measure	d Depth:	21,100' N	/ID		Offic	RECEIVED ce of Oil & Gas	
11) Proposed Ho	rizontal Leg	g Length:	7588.5			MA	R 1 4 2022	
12) Approximate	Fresh Wate	er Strata De	pths:	53', 236'		WV Environ	Department of mental Protection	
13) Method to D	etermine Fr	esh Water I	Depths:	47-085-07654			mental Protection	
14) Approximate	e Saltwater I	Depths: <u>1</u> 7	709', 1847	"				
15) Approximate	coal Seam	Depths: <u>N</u>	lone Iden	ntified				
16) Approximate	e Depth to P	ossible Voi	d (coal mi	ine, karst, other):	None Anticipat	ted	· _ ·	
17) Does Propos directly overlyin				ms Yes	No	x		
(a) If Yes, prov	ide Mine In	fo: Name	•					
· / / #		Depth						
		Seam						
		Owne	r:					

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API NO. 47-<u>085</u>-\_\_\_

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

WW-6B (04/15)

#### 18)

### CASING AND TUBING PROGRAM

ТҮРЕ	<u>Size</u> (in)	<u>New</u> or <u>Used</u>	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	16"	New	H-40	65#	80	80	CTS, 77 Cu. Ft.
Fresh Water	10-3/4"	New	J/K-55	40.4#	300	300	CTS, 417 Cu. Ft.
Coal	7-5/8"	New	P-110CY	26.4#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5"	New	P-110CY	18#	21,100	21,100	4387 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							
L	I				·	•	SOW

3/10/2022

ТҮРЕ	Size (in)	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	16"	20"	0.375"	1530	50	Class A	~1.16
Fresh Water	10-3/4"	13-1/2"	0.35"	2730	1000	Class A	~1.16
Coal	7-5/8"	9-7/8"	0.328"	9410	1500	Class A	~1.16
Intermediate							
Production	5"	6-3/4"	0.362"	15,840	12,000	Class G/H	~1.16
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

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MAR 1 4 2022

### PACKERS

WV Department of Environmental Protection

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

API NO: 47-085	5	1	0	4	2	0
OPERATOR WE						
Well Pad Name	e:	Cash	ew P	ad		

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

Drill a new horizontal shallow well into the Marcellus Shale.

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

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

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

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

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

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.

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#### 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.



SOW 3/10/2022

WF-1032-98)

Surface - Air/Freshwetter, Intermediate -Dust/Stiff Foam, Production - Water Based Med

(4/16)	API Number 47 - 085 -
(410)	Operator's Well No. Elklick Unit 2H
STATE O	F WEST VIRGINIA
DEPARTMENT OF EN	WIRONMENTAL PROTECTION
	E OF OIL AND GAS
FLUIDS/ CUTTINGS DI	SPOSAL & 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 con Will a pit be used? Yes <u>No</u> No If so, please describe anticipated pit waste: <u>No pit will</u> Will a synthetic liner be used in the pit? Yes <u>Proposed Disposal Method For Treated Pit Wastes</u> :	be used at this sile (Drising and Flowback Fluids will be stored in bries. Cuttage will be banked and hasked off siles.)
Land Application Underground Injection (UIC Per	mit Number "UIC Permit # will be provided on Form WR-34 )
	nitted well locations when applicable. APt# will be provided on Form WR-34 )
	WW-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-9
Other (Explain	Northwestern Landfill Permit #SWF-1025/ WV0109410
	Wetzel County Landfill (Permit #SWF-1021)
Will closed loop system be used? If so, describe: Yes, fluids	s stored in tanks, cuttings removed offsite and taken to landfill.
will closed loop system of useri in so, diserior.	

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? Please See Attachment

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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.

-Landfill or offsite name/permit number? \_\_\_\_\_Meadowfill Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV0109410) Wetzel County Landfill (Permit #SWF-1021)

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Drill cuttings stored in tanks, removed offsite and taken to tandfill,

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. DECENTER

Gretchen Kohler	Office of Oil & Gas
Company Official Signature Of Economic Toories Company Official (Typed Name) Gretchen Kohler	MAR 1 4 2022
Company Official Title Director of Environmental & Regulatory Co	mpliance WV Department of Environmental Protection
Subscribed and swom before me this 17 day of	Feb . 2022 Notary Public DIANE BLAIR
My commission expires 27 Apr 2	NOTADY DIRI IC
	04/08/2022

Operator's Well No. Elklick Unit 2H

### Antero Resources Corporation

Form WW-9

Proposed Revegetation Treatmen	nt: Acres Disturbed 33.75 a	cres Prevegetation p	н	
Lime 2-4	_ Tons/acre or to correct to pH	6.5		
Fertilizer type	rew or Wood Fiber (will be used	where needed)		
Fertilizer amount 500	1b	s/acre		
Mulch 2-3	Tons/a	acre		
Access Road (10.9	2 acres) + Well Pad (14.29 acres) + Staging (0.88 acres) + Topso	<u>s 1 (1.04 acres) + Staging 2 (2.20 acres) + Spoil Pil</u> 1] Stripping (3.30 acres) = 33.75 Acres	c. <u>1.(1.12 sorcs) + Spoil Pile 2</u>	
	See	d Mixtures		
Temp	orary	Perm	anent	
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 s	eed type (Cashew Pad Design)	See attached Table IV-4A for additiona	I seed type (Cashew Pad Desi	
*or type of grass seed requi	ested by surface owner	*or type of grass seed requ	ested by surface own	

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 x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:	
comments: Pre-Seed/mulch as somas person	nably possible. Upgrade
Ets por WU DEP Ets manual as neces	
	1
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	MAR 1 4 2022
	WV Department of Environmental Protection
Title: CC) 6 Inspector Date: 3/10	0. 2027

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	
10	Sodium Hydroxide – Alkalinity Control . Mil-Lime	RECEIVED Office of Oil and Gas
10	Calcium Hydroxide – Lime	
11	. LD-9	MAR <b>01</b> 2022
11	Polyether Polyol – Drilling Fluid Defoamer	WV RECEIVED t of
12	. Mil Mica	EQUIDENCIPERIO
14	Hydro-Biotite Mica – LCM	MAR 3 2022
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WV Department of Environmental Protection 04/08/2022

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	RE	CEIVED
S1. Militarch – Fluid Loss Reducer For Water Based Muds	Unice of	Oil and Gas
32. Mil-Lube	MAR	3 2022
52. MII-Lube Drilling Fluid Lubricant		-
Diming Find Lubican	WV Der	DartiREGEVEL

WV Depart A SAE YED Environm A to the Poided Rod Gas

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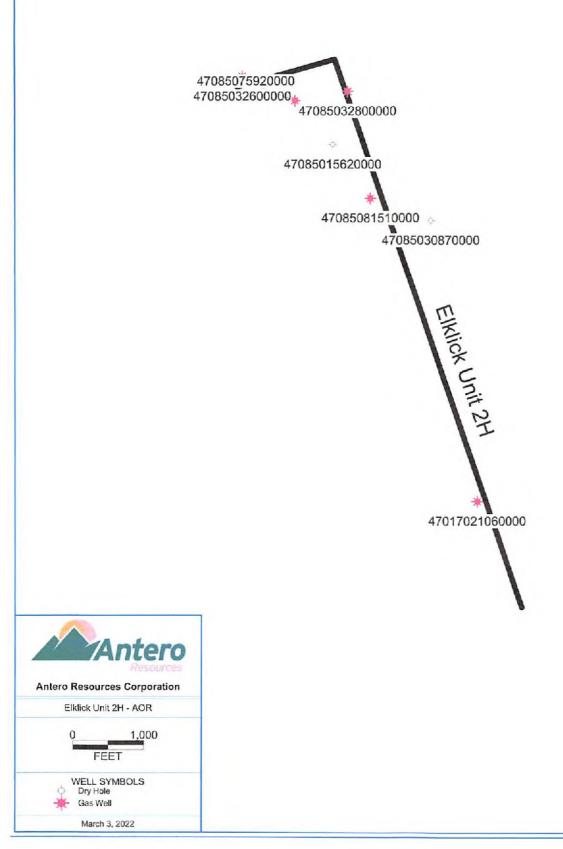
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MAR 1 4 2022

WV Department of Environmental Protection

# 4708510420



04/08/2022

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47017021060000	E W SUMMERS	4970	EQT PRODUCTION CO	PITTSBURGH&W VA GAS	2,038	1,931-1,996	Big Injun	Pocono
47085081510000	RALPH MYRTLE & JETT	2	HARPER CROSBY HOLDNG	FLUHARTY ENTERPRISES	5,462	4,770-5,160	Benson	Warren, Berea, Weir, Big Injun, Pocono
47085015620000	O D JETT	1	P & M OIL CO	P&MOILCO	1,890		Big Injun	Pocono
47085032800000	S JETT	1	R & R OIL & GAS LLC	FRIESTAD FRANCIS	1,954		Pocono	
47085030870000	S & M COOPER	1	FERRELL WILLARD E	FERRELL WILLARD E	2,300		Berea	Weir, Big Injun, Pocono
47085032600000	R L KEISTER	3	R & R OIL & GAS LLC	OIL STATES SALES	2,013		Big Injun	Pocono
47085075920000	JETT MYRTLE ET AL	1	CHARITY GAS INC	STALNAKER GENE INC	5,231	3800 - 5200	Riley, Lower Huron, Benson, Angola	Weir, Big Injun, Pocono

10420 5 4708

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

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MAR 1 4 2022

Pad Location: CASHEW PAD

**Ritchie County Union District** 

WV Department of Environmental Protection

SACO

3(10/2022

**GPS Coordinates:** 

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

## **Driving Directions:**

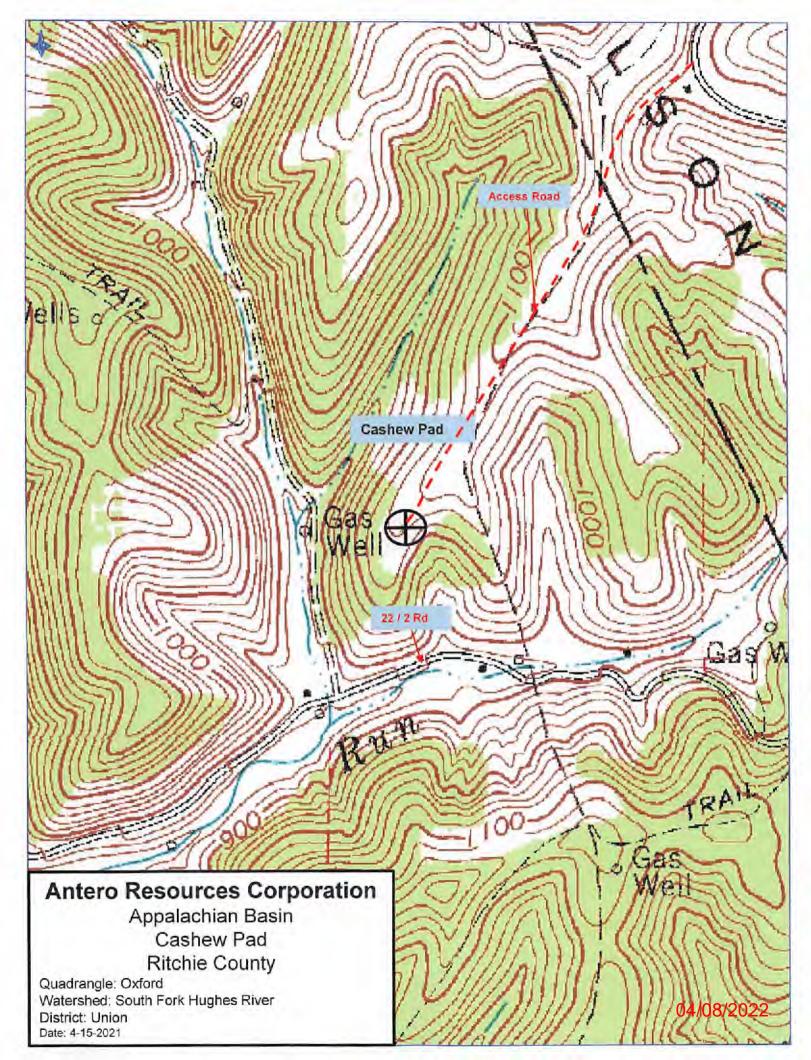
From Pullman: Head northeast on Main Street toward Ash Hill Street for 0.3 miles. Turn right onto Oxford Road for 5.1 miles. Continue onto S. Fork of Hughes River for 0.5 miles. Turn right onto Sugar Run for 2.3 miles. Lease road will be on your right.

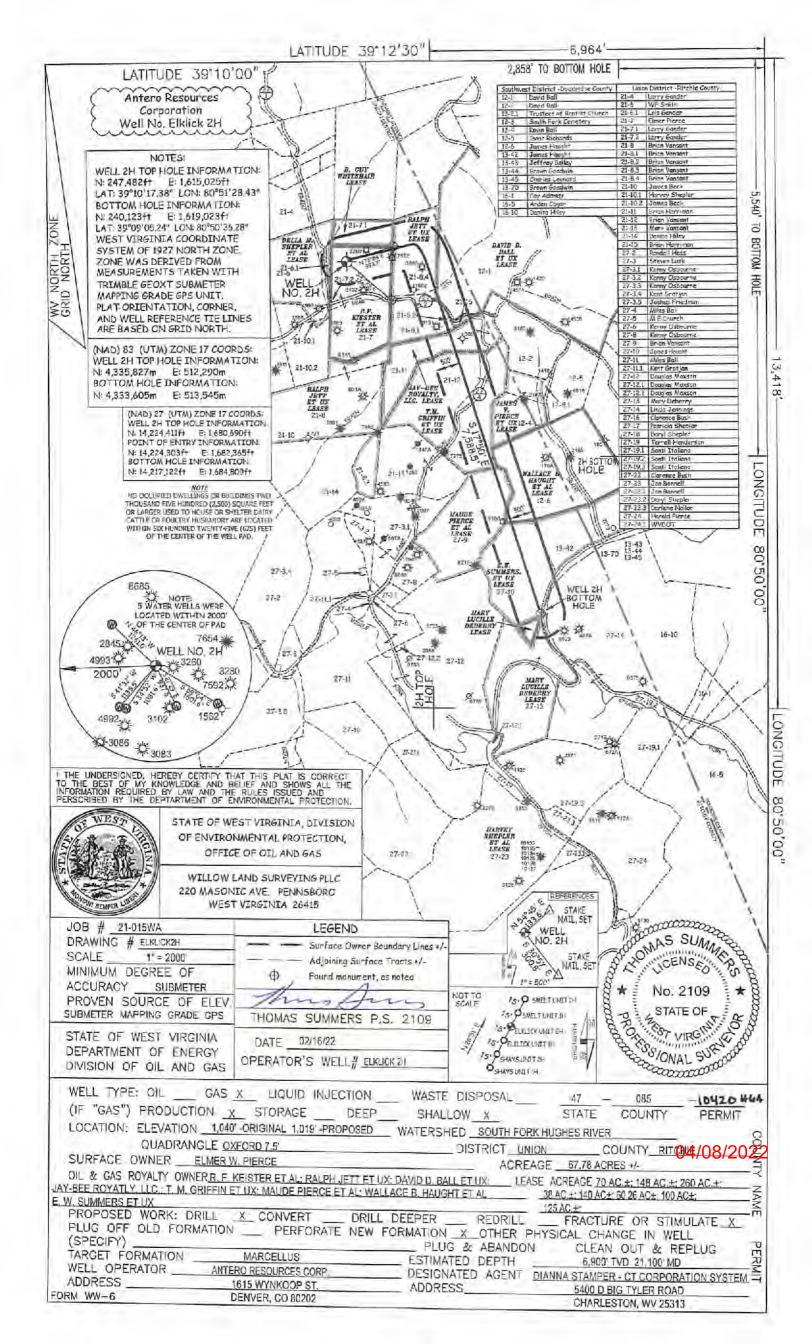
### **Alternate Route:**

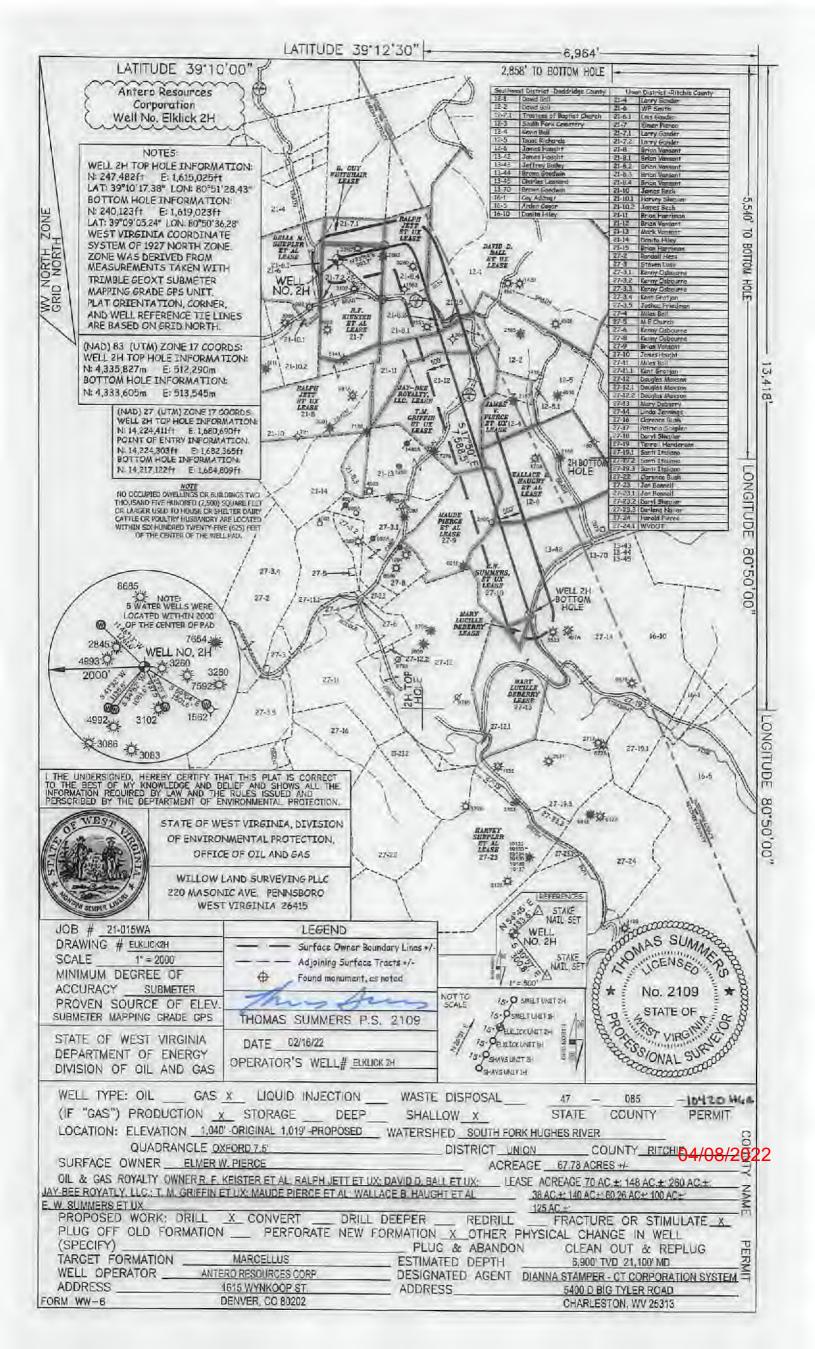
From Auburn: Head west onto Auburn Road Main Street for 30 ft. Turn right onto Toll Gate Road for 0.3 miles. Continue onto Left Fork Bone Creek for 1.0 mile. Slight left onto CO Rd 7 13 for 1.7 miles. Continue straight onto Summer Road Brushy Fork for 1.7 miles. Turn right to stay on Summer Road Brushy 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** 

1







Operator's Well Number Elklick 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
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
David D. Ball, et ux Lease			
David Dale Ball Jr.	Antero Resources Corporation	1/8+	04170123
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
Jay-Bee Royalty, LLC Lease			
Jay-Bee Royalty, LLC	Antero Resources Corporation	1/8+	0330/0506
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	RECEIVED 0255/0526 e of Oil and Gas 0015/0702
Antero Resources Appalachian Corporation	Antero Resources Corporation		
T.M. Griffin, et ux Lease		MA	-
T.M. Griffin, et ux	The Philadelphia Company of West Virginia	1/8	Department of 0029/0385
The Philadelphia Company of West Virginia	Pittsburgh and West Virginia Gas Company	Assignment Environ	Department of <b>0029/0385</b> mental Protec <b>0082/0253</b>
Pittsburgh and West Virginia Gas Company	Equitable Gas Company	Conveyance	0126/0473
Equitable Gas Company	Equitrans, Inc	Assignment	0154/0475
Equitrans, Inc.	EQT Capital Corporation	Merger	0006/0751

Operator's Well Number Elklick 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
EQT Capital Corporation	Equitable Resources, Inc	Merger	0023/032
Equitable Resources, Inc	Equitrans, LP	Assignment	0329/0645
Equitrans, LP	Equitable Production - Eastern States, Inc	Assignment	0234/0830
Equitable Production - Eastern States, Inc	Equitable Production Company	Merger	0281/0346
Equitable Production Company	EQT Production Company	Name Change	0218/0346
EQT Production Company	Antero Resources Corporation	Assignment	0323/0964
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 Corporation	Assignment	0257/0362
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0015/0705
Wallace B Haught, et al Lease			
Wallace B. Haught, et al	Consolidated Gas Supply Corporation	1/8+	0095/0375
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0135/0583
Consolidated Gas Transmission Corporation	CNG Development Company	Assignment	0139/0041
CNG Development Company	CNG Producing Company	Merger	0167/0210
CNG Producing Company	Dominion Exploration and Production, Inc	Merger	0049/0340
Dominion Exploration and Production, Inc	CONSOL Gas Company	Name Change	0293/0252
CONSOL Gas Company	CNX Gas Company	Merger	0293/0252
CNX Gas Company	Antero Resources Corporation	Assignment	0409/0672

\*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. Elklick 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:

	Lease Name or		-		
1	Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
1	E.W. Summers, et ux Lease				
		E.W. Summers, et ux	G.W. Thompson	1/8	0025/0260
		G.W. Thompson	The Philadelphia Company of West Virginia	Assignment	Unrecorded
		The Philadelphia Company of WV	Pittsburgh and West Virginia Gas Co.	Assignment	0032/0253
		Pittsburgh and West Virginia Gas Co.	Equitable Gas Company	Conveyance	0126/0473
		Equitable Gas Company	Equitrans, Inc.	Assignment	0154/0475
		Equitrans, Inc.	EQT Capital Corporation	Merger	0006/0751
		EQT Capital Corporation	Equitable Resources, Inc.	Merger	0023/0032
		Equitable Resources, Inc.	Equitrans, LP	Assignment	0329/0645
		Equitrans, LP	Equitable Production-Eastern States, Inc.	Assignment	0234/0830
		Equitable Production-Eastern States, Inc	. Equitable Production Company	Merger	0281/0346
		Equitable Production Company	EQT Production Company	Name Change	0218/0346
		EQT Production Company	Antero Resources Corporation	Assignment	0487/0641

\*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.

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

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

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

Office of Oil and Ga	S

Well Operator:	Antero Resources Corporation	
By:	Tim Rady ( \ leven	MAR 3 2022
Its:	VP of Land	WV Department of

Page 1 of 1

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 57<sup>th</sup> Street SE Charleston, WV 25304

RE: Elklick 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 Elklick 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 Elklick Unit 1H - 2H horizontal laterals will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Kartalk

Tyler Skavdahl Senior Landman

RECEIVED Office of Oil and Gas

MAR 3 2022

WV Department of Environmental Protection



#### 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	-
<b>Operator's Well No.</b>	Elklick 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	UTM NAD 83	Easting:	512290m
County:	Ritchie	UTMINAD 85	Northing:	4335827m
District:	Union	Public Road Acc	cess:	Pleasant Hollow Road
Quadrangle:	Oxford 7.5'	Generally used f	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:	OOG OFFICE USE
*PLEASE CHECK ALL THAT APPLY	ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
□ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SURVEY WAS CONDUCTED	
3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED
U WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION     6 Office of Oil and Gas	
■ 5. PUBLIC NOTICE 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:

1615 Wynkoop Street	
sources.com	
28 day of Feb 2022.	

DIANE BLAIR	Subscribed and sworn before in	ie uns <u>40</u> day of	Do alle.
NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024	Diques	Elair	Notary Public
	My Commission Expires	27 Apr 2	.024

#### **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.

RECEIVED Office of Oil and Gas

MAR 3 2022

WV Department of Environmental Protection

04/08/2022

#### 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		— RECEIVED —Office of Oil and Gas
Name:	Larry & Lois Gander	COAL OPERATOR	
Address:	2249 Clairmont Drive	Name: NO DECLARATIONS ON RECORD WITH COUNTY	MAR <b>3</b> 2022
	Pittsburgh, PA 15241	Address:	
U SURF	ACE OWNER(s) (Road and/or Other Disturbance)		WV Department of
Name:		WATER PURVEYOR(s)/OWNER(s) OF WATER WEL	Environmental Protection
		Name: PLEASE SEE ATTACHMENT	
Name:		Address:	-
Address:			
		OPERATOR OF ANY NATURAL GAS STO	RAGE FIELD
	ACE OWNER(s) (Impoundments or Pits)	Name:	
Name:	···· · · · · · · · · · · · · · · · · ·	Address:	-
Address:			
		*Please attach additional forms if necessary	—

10420 APINO, 47 OPERATOR WELL NO. Endick 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 who may file written comments; (3) the name and address of the secretary for the purpose of submitting written comments, notice of the  $\frac{R_{1}}{R_{1}} = 0$ permit decision and a list of persons qualified to test water. MAR

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 WV Department of purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Environmental Protection 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/oiland-gas/pages/default.aspx.

#### Well Location Restrictions

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

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APINO 470 8510420

OPERATOR WELL NO. Elklick 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 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 57<sup>th</sup> 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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API NO. 47- 457 0 8 5 1 0 4 2 0 OPERATOR WELL NO. Elklick 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.

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MAR 3 2022

WV Department of Environmental Protection

04/08/2022

API NO. 47-085 0 8 5 1 0 4 2 0 OPERATOR WELL NO. Elklick Unit 2H

Well Pad Name: Cashew Pad

#### Notice is hereby given by:

Well Operate	or: Antero Resources	Corporation	. 1	
Telephone:	(303) 357-7310	Diana O.	Noll	
Email:	mstanton@anteror	esources.com	$\omega$	

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
MY	COMMISSION EXPIRES 27-Apr-2024

Subscribed and sworn before a	me this 28 day of	Feb. 2022 .
Diane	Blair	Notary Public
My Commission Expires	27 Apr	2024

RECEIVED Office of Oil and Gas

MAR 3 2022

WV Department of Environmental Protection

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

1

### Water Source Owners:

<u>W1:</u>

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

<u>W2 & W3:</u>

<b>Owner:</b>	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>

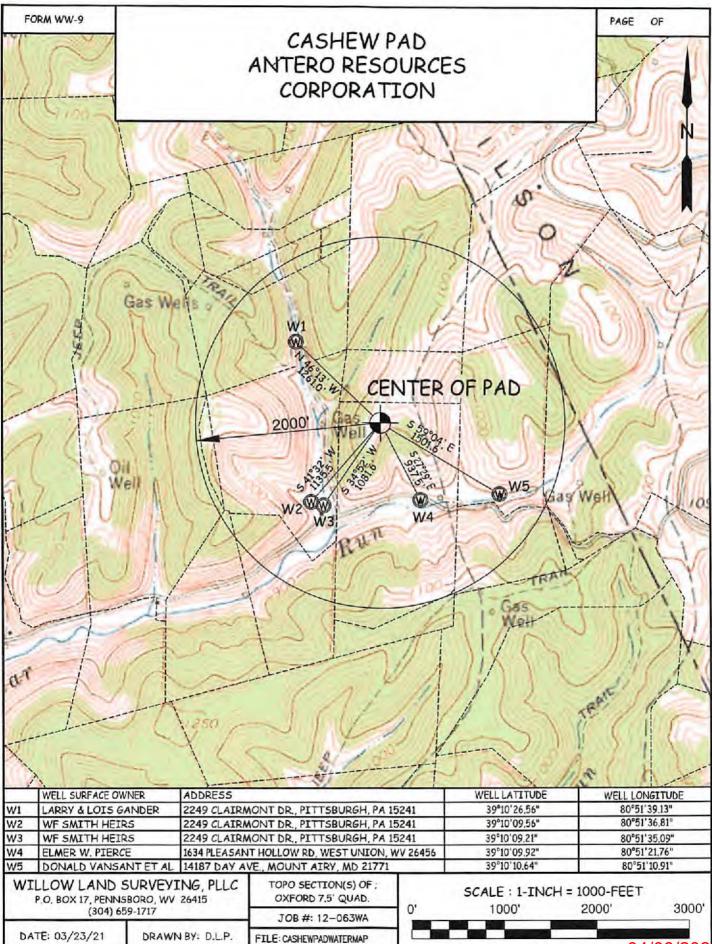
<b>Owner:</b>	Donald Vansant, et al
Address:	14187 Day Ave.
	Mount Airy, MD 21771-4631

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RECEIVED Office of Oil and Gas

MAR 3 2022

WV Department of Environmental Protection



04/08/2022

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF INTENT TO DRILL</u>

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 of Notice:
 02/17/2022

 Date Permit Application Filed:
 02/28/2022

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
Address:	1634 Pleasant Hollow Road	Address:	2249 Clairmont Drive
	West Union, WV 26456		Pittsburgh, PA 15241

#### Notice is hereby given:

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

State:	West Virginia	UTM NAD 83 Eastin	g: 512290m
County:	Ritchie	UTM NAD 83 North	ing: 4335827m
District:	Union	Public Road Access:	Pleasant Hollow Road
Quadrangle:	Oxford 7.5	Generally used farm nar	ne: Gander, Larry and Lois
Watershed:	South Fork Hughes River		

#### 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

#### Notice is hereby given by:

Well Operator:	Antero Resources Corporation	Authorized Representative:	Mallory Stanton		
Address:	1615 Wynkoop St.	Address:	1615 Wynkoop St.	BECEIVED	
	Denver, CO 80202		Denver, CO 80202	Office of Oil and Gas	
Telephone:	303-357-7310	Telephone:	303-357-7310	AAD 0 2022	
Email:	mstanton@anteroresources.com	Email:	mstanton@anteroresou	irces.com	
Facsimile:	303-357-7315	Facsimile:	303-357-7315	WAY Department of	
				Environmental Protectic	

**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>deprivacyofficer@wv.gov</u>.

#### 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)

8	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
Address:	1634 Pleasant Hollow Road	Address:	2249 Clairmont Drive
	West Union, WV 26456		Pittsburgh, PA 15241

#### Notice is hereby given:

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	UTM NAD 83	Easting:	512290m	
County:	Ritchie	UTM NAD 83	Northing:	4335827m	
District:	Union	Public Road Acc	Public Road Access:		
Quadrangle:	Oxford 7.5	Generally used f	arm 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: Telephone: Email:	Antero Resources Corporation	Address:	1615 Wynkoop Street	Office of Oil and Gas
	(303) 357-7310		Denver, CO 80202	MAR 3 2022
	mstanton@anteroresources.com	Facsimile:	303-357-7315	0 2022
Oil and Gas Pr	ivacy Notice:			Environmental Protection

#### **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.

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

#### Instructions to Persons Named on Page WW-6A

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

#### **Comment and Waiver Provisions**

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

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

### VOLUNTARY STATEMENT OF NO OBJECTION

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

he well plat, all for proposed well work on the
West Virginia
Ritchie
Union
Oxford 7.5'
South Fork Hughes River

Easting: UTM NAD 83 Northing: Public Road Access: Generally used farm name:

512290m	
4335827m	
Pleasant Hollow Road	
Elmer W. Pierce	

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: RECEIVED Its: Office of Oil and Gas
U WATER PURVEYOR	Signature:
□ OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date:

#### Environmental Protection

#### **Oil and Gas Privacy Notice:**

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

February 10, 2022

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

Subject: DOH Permit for the Cashew Pad, Ritchie County Elklick Unit 2H Well Site

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

RECEIVED Office of Oil and Gas

MAR 3 2022

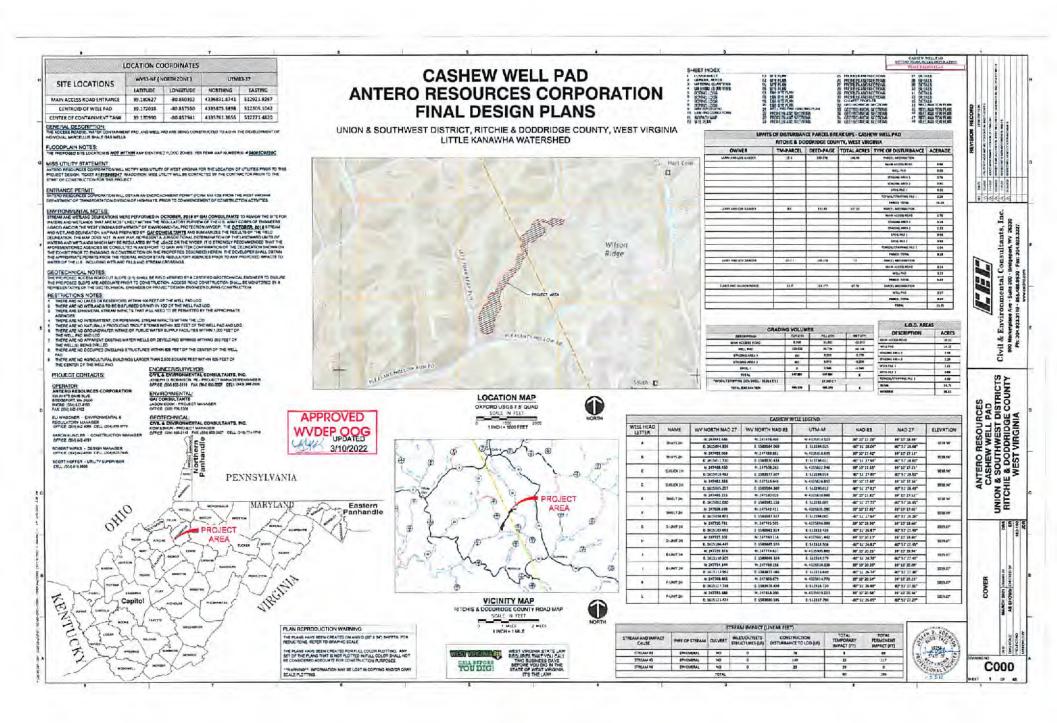
WV Department of Environmental Protection

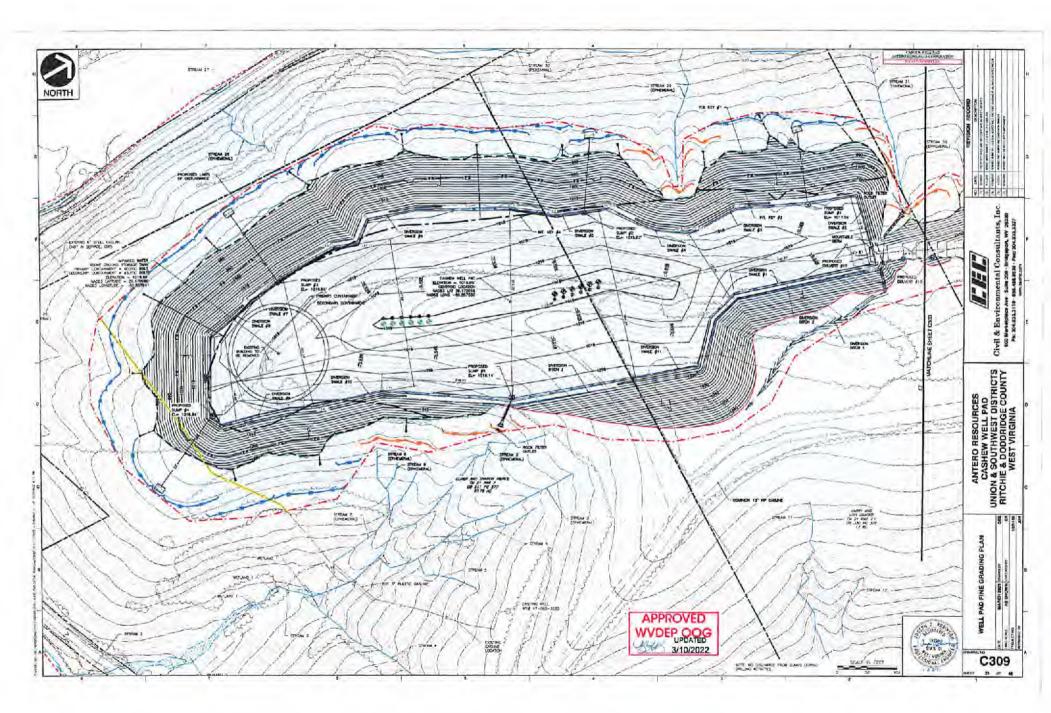
Cc: Diane Blair Antero Resources Corporation CH, OM, D-3 & 4 File

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
11.	Ethoxylated oleylamine	26635-93-8
12.	Ethylene Glycol	107-21-1
	Glycol Ethers	111-76-2
	Guargum	9000-30-0
	Hydrogen Chloride	7647-01-0
16.	Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
17.	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
	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, quinolone derivs, benzyl chloride-quarternized	
	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	71050-62-9
	Hexamethylene diamine penta	23605-74-5
	2-Propenoic acid, polymer with 2 propenamide	9003-06-9
	Hexamethylene diamine penta (methylene phosphonic	•
	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





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CENTROID OF WELLPAD	39.172038	-80.857550	4335675.5898	512305.1042	
CENTER OF CONTAINMENT TANK	39.170990	-30.857941	4335761.3650	512271.4820	

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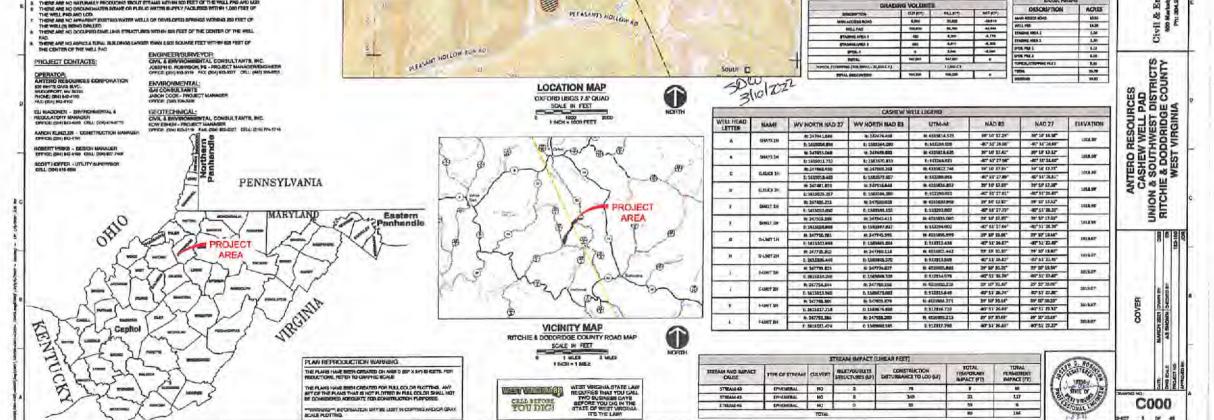
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### CASHEW WELL PAD ANTERO RESOURCES CORPORATION FINAL DESIGN PLANS