

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 SMELT 1H 47-085-10423-00-00

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. Mari

Chief

Operator's Well Number: SMELT 1H

Farm Name: ELMER W PIERCE U.S. WELL NUMBER: 47-085-10423-00-00

Horizontal 6A New Drill

Date Issued: 4/6/2022

API Number:	
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PERMIT CONDITIONS

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

CONDITIONS

- This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 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:	

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.

47085 10423

OPERATOR WELL NO. Smelt Unit 1H
Well Pad Name: Cashew Pad

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

1) Well Operato	r: Antero	Resou	ırces (Corpora	494507062	085-Ritchie	Union	Oxford 7.5'
•		-			Operator ID	County	District	Quadrangle
2) Operator's W	ell Numbe	r: Sme	lt Unit	1H	Well Pac	Name: Cash	ew Pad	
3) Farm Name/S	Surface Ow	ner: E	lmer V	V. Pierce	Public Roa	d Access: Ple	asant Hollo	ow Road
4) Elevation, cu	rrent groun	id: <u>10</u>	040'	Ele	evation, proposed	post-construct	ion: <u>~1019</u>)'
5) Well Type	(a) Gas	X		_ Oil	Unde	erground Stora	ge	
	Other							
	(b)If Gas	Shall	ow	<u>X</u>	Deep			- 100 l
		Horiz	ontal	X				58W 3/10/2022
6) Existing Pad	: Yes or No	Yes Yes				-		2/10/2022
•	_		_		ipated Thickness a			
Marcellus Sh	ale: 6900' T	VD, Ant	ticipate	d Thickne	ss- 55 feet, Associa	ated Pressure-	2850# 	
8) Proposed To	tal Vertical	Depth:	6900	D' TVD				
9) Formation at	Total Vert	ical De	pth: 💆	Marcellus	· · · · · · · · · · · · · · · · · · ·			
10) Proposed To	otal Measu	red Dep	oth: 2	23,300' N	1D			
11) Proposed H	orizontal L	eg Len	gth: 6	6790.6'				
12) Approximat	te Fresh Wa	ater Stra	ata De _l	pths:	53', 236'			
13) Method to I	Determine l	Fresh W	ater D	epths: 4	17-085-07654			
14) Approxima	te Saltwate	r Depth	s: <u>17</u>	09', 1847	I			
15) Approxima	te Coal Sea	ım Dept	ths: N	one Iden	tified			
16) Approxima	te Depth to	Possib	le Void	d (coal mi	ne, karst, other):	None Anticipa	ated	
17) Does Propo directly overlyi					ns Yes	No	x	
(a) If Yes, pro	vide Mine	Info:	Name					RECEIVED Office of Oil & Gas
(a) 11 1 00, pro			Depth					MAR 1 4 2022
			Seam:					WV Department of Environmental Protection
			Owner	r:				- Torochon

WW-6B (04/15) 4708510423

API NO. 47-_085

OPERATOR WELL NO. Smelt Unit 1H

Well Pad Name: Cashew Pad

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	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#	23,300	23,300	4941 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

50W 310/2021

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<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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PACKERS

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Kind:	N/A		WV Department of Environmental Protection	of ction
Sizes:	N/A			
Depths Set:	N/A			

WW-6B (10/14) 4708510423

OPERATOR WELL NO. Smelt Unit 1H

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

- 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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Environmental Protection

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. Smell Unit 1H

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

FLUIDS/CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation	OP Code 494507062
Watershed (HUC 10) South Fork Hughes River	Quadrangle Oxford 7.5'
Do you anticipate using more than 5,000 bbls of water to comple Will a pit be used? Yes No	ete the proposed well work? Yes V No No
If so, please describe anticipated pit waste: No pt will be use	ed at this site (Drilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and hauled eff site.)
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? N/A SYNCO
Proposed Disposal Method For Treated Pit Wastes:	No
Land Application	3,00
Underground Injection (UIC Permit	Number *UIC Permit # will be provided on Form WR-34
The state of the s	well locations when applicable. AP# will be provided on Form WR-34
Other (Explain	-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, fluids sto	ored in tanks, cuttings removed offsite and taken to landfill. Surface - Als/Freshwater, Intermediate -
Drilling medium anticipated for this well (vertical and horizonta	
-If oil based, what type? Synthetic, petroleum, etc. Syn	nthetic
Additives to be used in drilling medium? Please See Attachment	
Drill cuttings disposal method? Leave in pit, landfill, removed of	offsite, etc. Drill cuttings stored in tanks, removed offsite and taken to landfill.
Drill cuttings disposal method? Leave in pit, landfill, removed of	outlined ages.
-If left in pit and plan to solidify what medium will be u	used? (cement, lime, sawdust) N/A
-If left in pit and plan to solidify what medium will be u -Landfill or offsite name/permit number? Meadowfill Land	outlined ages.
-If left in pit and plan to solidify what medium will be u -Landfill or offsite name/permit number?	used? (cement, lime, sawdust) N/A dtill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV0109410) by Landfill (Permit #SWF-1021) as of any load of drill cuttings or associated waste rejected at any
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Form WW-9 Operator's Well No. Smelt Unit 1H **Antero Resources Corporation** Proposed Revegetation Treatment: Acres Disturbed 33.75 acres Prevenetation pH Tons/acre or to correct to nH 6.5 Lime 2-4 Hay or straw or Wood Fiber (will be used where needed) Fertilizer type Fertilizer amount 500 lbs/acre Mulch 2-3 Tons/acre Acress 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 Seed Mixtures Permanent Temporary Seed Type lbs/acre lbs/acre Seed Type 10-15 Crownvetch 40 **Annual Ryegrass** 30 Tall Fescue 40 Field Bromegrass See attached Table IV-4A for additional seed type (Cashew Pad Design) See attached Table IV-3 for additional seed type (Cashew Pad Design) *or type of grass seed requested by surface owner *or type of grass seed requested by surface owner 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. comments: Pre-seed/mulch as somes reasonally possible. Upgrade Ets as necessary for WU DEP Ets manual. Office of Oil & Gas WV Department of Environmental Protection

Date: 3(10/2022

Title: 606 Inspector

Field Reviewed?

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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MAR 01 2022

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

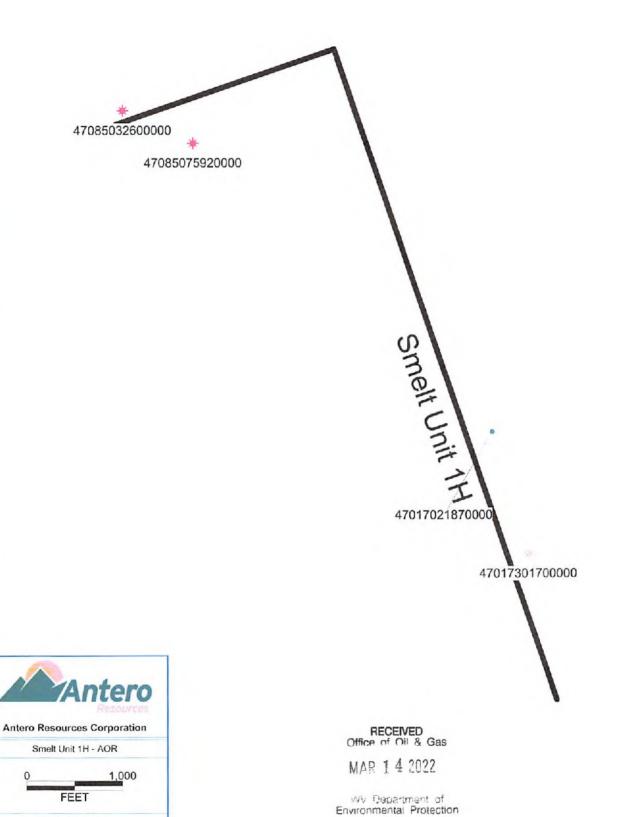
32. Mil-Lube

Drilling Fluid Lubricant



WELL SYMBOLS Gas Well Oil Well Plugged Gas Well

March 3, 2022



04/08/2022

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval	Perforated Formation(s)	Producible Formation(s) not perf'd
47085007210000	R E BRITTON	1	BICKERSTAFF W A	BICKERSTAFF W A	1,911		Big Injun	Pocona
47085306650000	D J RICHARDS	T	DEEM F.S	DEEM FS				
47085304020000	D J RICHARDS	2	DEEM FS	DEEM F.S				
47085040030000	BRITTON ELIZABETH	4942	EQT PRODUCTION CO	PITTSBURGH&W VA GAS	1,940	1,880-1,905	Big Injun	Pocono
47085086110000	PIERCE JACOB A	1	KEY OIL CO	KEY OIL INC	5,370	3,300-5,118	Warren	Berea, Weir, Big Injun, Pocono
47085048870000	COX FONDA	J-301	ROSS & WHARTON GAS	J & J ENTERPRISES	2,325	1,884-2,129	Welr	Big Injun, Pocono
47085097550000	DOUGLAS MAXSON	1	WEST VAIDEPT ENERGY	WEST VA DEPT ENERGY				
47085030860000	J PIERCE HRS	1	R & R OIL & GAS LLC	FRIESTAD FRANCIS	1,863		Big Injun	Pocono
47085020910000	MARY BRITTON	2	HAUGHT ENERGY CORP	MOSSOR OIL & GAS	1,927		Big Injun	Pocono
47085032600000	R L KEISTER	3	R & R OIL & GAS LLC	OIL STATES SALES	2,013		Big Injun	Pocono

MAR 14 2022

Wx 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

RECEIVED Office of Oil & Gas

Pad Location: CASHEW PAD

MAR 1 4 2022

Ritchie County Union District

WV Department of Environmental Protection

GPS Coordinates:

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

SDW 3/10/2022

Driving Directions:

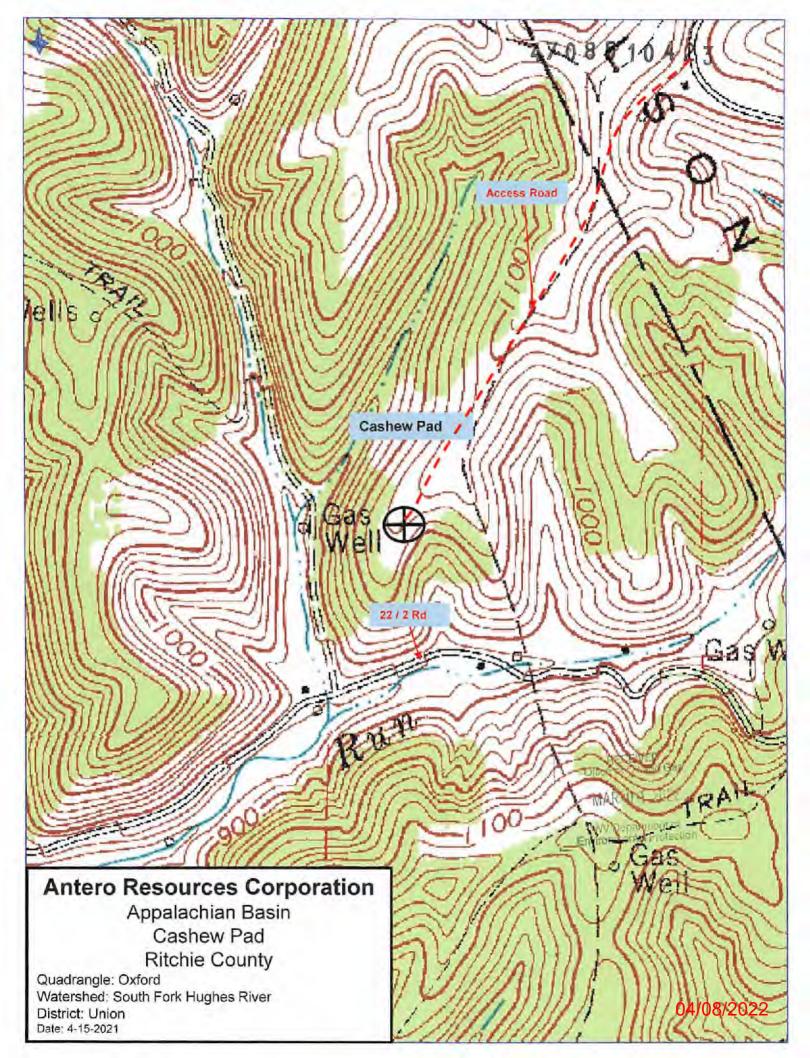
From Pullman: Head northeast on Main Street toward Ash Hill Street for 0.3 miles. Turn right onto Oxford Road for 5.1 miles. Continue onto S. Fork of Hughes River for 0.5 miles. Turn right onto Sugar Run for 2.3 miles. Lease road will be on your right.

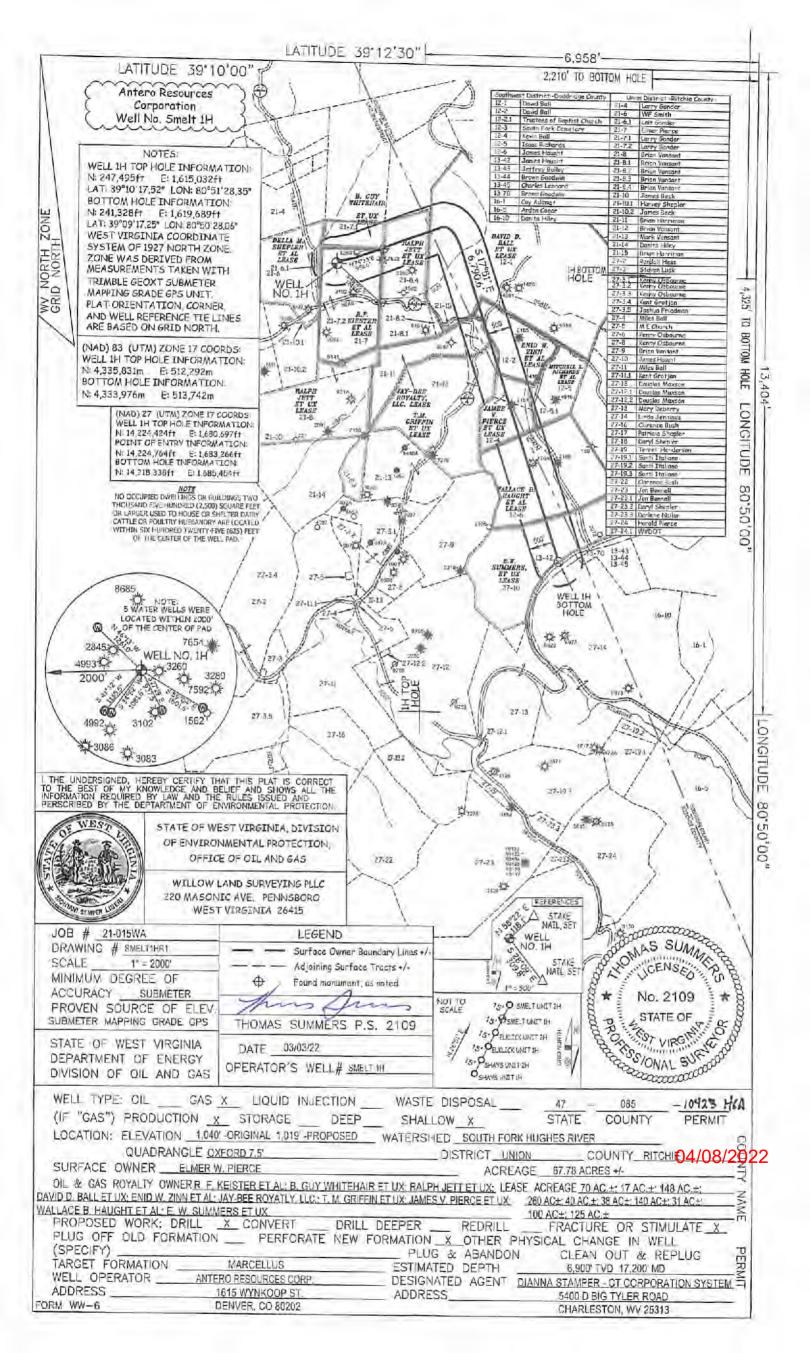
Alternate Route:

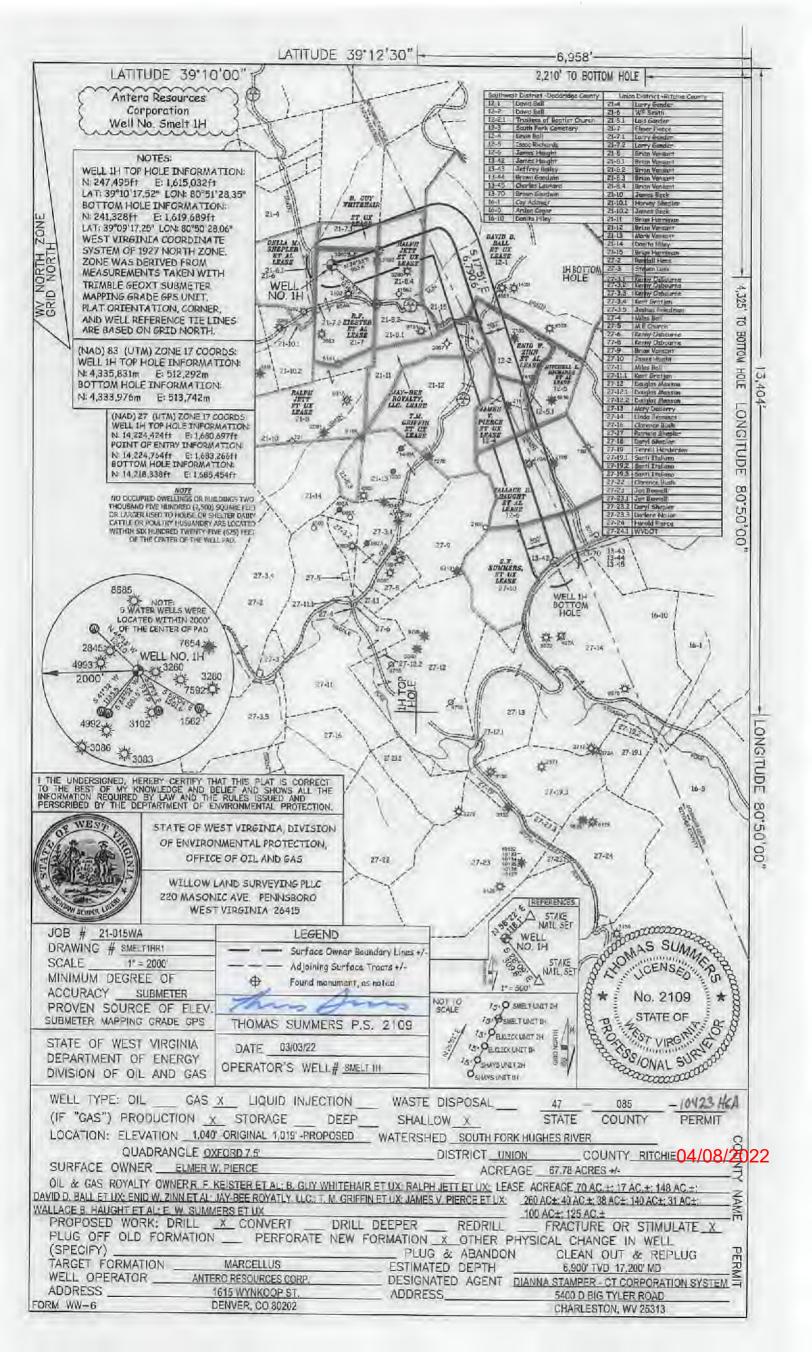
From Auburn: Head west onto Auburn Road Main Street for 30 ft. Turn right onto Toll Gate Road for 0.3 miles. Continue onto Left Fork Bone Creek for 1.0 mile. Slight left onto CO Rd 7 13 for 1.7 miles. Continue straight onto Summer Road Brushy Fork for 1.7 miles. Turn right to stay on Summer Road Brushy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

Smelt Unit 1H

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. Keis	ter, et al Lease			
R.F. Keist		G.L. Yaste	1/8	0105/0504
G.L. Yast	e	D.L.Y., Inc.	Assignment	0112/0302
D.L.Y.m I	nc.	Betty Jean Stalkner and Rosalee Roberts	Assignment	0132/0565
Betty Jea	n Stalkner and Rosalee Roberts	R & S Gas Company	Assignment	0147/0548
R & S Ga	s Company	BET-RO Inc	Assignment	0147/0554
BET-RO I	nc	Roberts Energy Corporation	Assignment	0240/0036
Roberts	Energy Corporation	Antero Resources Corporation	Assignment	0329/0138
B. Guy W	/hitehair Lease			
B. Guy W	/hitehair, et ux	L.E. Mossor and Harry Haddox	1/8	0107/0343
-	sor and Harry Haddox	Francis Friestad	Assignment	0089/0497
Francis F	riestad	W.H. Thomson	Assignment	0152/0213
W.H. Tho	omson	BET-RO Inc	Assignment	0177/0011
BET-RO I	nc.	Jesam Energy	Assignment	0204/0134
Jesam En	ergy	Roberts Energy	Assignment	0204/0705
Roberts I	Energy	Key Oil Company	Assignment	0258/0619
Key Oil C	ompany	Antero Resources Appalachian Corporation	Assignment	0263/0629
Antero R	lesources Appalachian Corporation	Antero Resources Corporation	Name Change	0046/0523
Ralph Jet	tt, et ux Lease			
' Ralph Jet	rt, et ux	W.R. Development Co. Inc.	Assignment AR 01 (D22	0191/0378
W.R. Dev	velopment Co. Inc.	Whittle Corporation	Assignment Control and	0254/0910
Whittle (Corporation	Antero Resources Appalachian Corporation	Assignment 1922	0255/0526
Antero R	esources Appalachian Corporation	Antero Resources Corporation	Assignment of Assignment of Assignment of the As	0015/0702
/ David D.	Ball, et ux Lease		Wy Departies Wy Departies)(I
David Da	ile Ball Jr.	Antero Resources Corporation	Name Change MAR U I servent of WV Devented Protection Environmental Protection	04170123
/ Enid W.	Zinn et al Lease			
Enid W. Z	Zinn, et al	Consolidated Gas Supply Corporation	1/8	0103/0080
Consolida	ated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0135/0583
Consolida	ated Gas Transmission Corporation	CNG Development Company	Assignment	0139/0041
CNG Dev	elopment Company	CNG Producing Company	Merger	0167/0210
CNG Prod	ducing Company	Dominion Exploration and Production, Inc	Merger	0049/0340
	n Exploration and Production, Inc	CONSOL Gas Company	Name Change	0293/0252
	Gas Company	CNX Gas Company	Merger	0293/0252
CNX Gas	Company	Antero Resources Corporation	Assignment	0409/0672
	Royalty, LLC Lease			
Jay-Bee I	Royalty, LLC	Antero Resources Corporation	1/8+	0330/0506

Operator's Well Number

Smelt Unit 1H

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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- (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
T.M. Griffin, et ux Lease			
T.M. Griffin, et ux	The Philadelphia Company of West Virginia	1/8	0029/0385
,	Pittsburgh and West Virginia Gas Company	·	0032/0253
The Philadelphia Company of West Virginia		Assignment	0126/0473
Pittsburgh and West Virginia Gas Company	Equitable Gas Company	Conveyance	0154/0475
Equitable Gas Company	Equitrans, Inc.	Assignment	0006/0751
Equitrans, Inc.	EQT Capital Corporation	Merger	•
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	0323/0964
Enid W. Zinn et al Lease			
Enid W. Zinn, et al	Consolidated Gas Supply Corporation	1/8	0103/0080
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		0293/0252
CNX Gas Company	Antero Resources Corporation	Assignment	0409/0672
James V. Pierce, et ux Lease		Assignment 1/8 office of the control of the contro	1
James V. Pierce	Consolidated Gas Supply Corporation	1/9 55 7	0102/0228
Consolidated Gas Supply Corporation	Consolidated Gas Supply Corporation	Assignment Assignment MAR Merger Merger Name Change	nt of citoth 0135/0583
** * *	Consolidated Gas Transmission Corporation	Assignment	VI - 0133/0393
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
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

Operator's Well No. Smell Unit 1H

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
/ 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-Fastern 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, RECENED, Office of Oil and Gas, including but not limited to the following:

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

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

Well Operator:	Antero Resources Corporation				
By:	Tim Rady				
Its:	VP of Land				

Page 3 of 3

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Environmental Protection



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

Sincerely,

Tyler Skavdahl Senior Landman

04/08/2022

Date of Notice Certification: 02/25/2022

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

API No. 47- 085

			Operator's	Well No. S	melt Unit 1H
			Well Pad N	Vame:C	ashew Pad
	ne provisions in West Virginia Code	§ 22-6A, the Operator has prov	vided the rec	quired partie	s with the Notice Forms listed
State:	tract of land as follows: West Virginia		Easting:	512292m	
County:	Ritchie	UTM NAD 83	Northing:	4335831m	
District:	Union	Public Road Acc	_	Pleasant Holk	ow Road
Quadrangle:	Oxford 7.5'	Generally used fa		Elmer W. Pier	°C9
Watershed:	South Fork Hughes River				
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and ed the owners of the surface descrequired by subsections (b) and (c), so surface owner notice of entry to so of subsection (b), section sixteen the § 22-6A-11(b), the applicant shall have been completed by the application.	shall contain the following info ibed in subdivisions (1), (2) a section sixteen of this article; (i survey pursuant to subsection of this article were waived in tender proof of and certify to t	ormation: (1- and (4), sub- i) that the re (a), section writing by	4) A certific section (b), equirement we ten of this at the surface	ation from the operator that (i section ten of this article, the vas deemed satisfied as a resularticle six-a; or (iii) the notice owner; and Pursuant to Wes
Pursuant to	West Virginia Code § 22-6A, the C	perator has attached proof to t	his Notice C	Certification	
	erator has properly served the requir				
*PLEASE CHI	ECK ALL THAT APPLY				OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY o	NOTICE NOT REQUIRES SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SUR	VEY or 🔳 NO PLAT SURV	EY WAS C	ONDUCTE	P RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIINOTICE OF ENTRY FOR WAS CONDUCTED or			☐ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER : (PLEASE ATTACH)		CE OWNEI	
■ 4. NO	TICE OF PLANNED OPERATION	I	م	D. Gas	☐ RECEIVED
■ 5. PUI	BLIC NOTICE		Office of the original orig	17 July	RECEIVED
■ 6. NO	TICE OF APPLICATION	1	į.s.		RECEIVED
Described A	tto shmonts:		Envi	io.	

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:

, have read and understand the notice requirements within West Virginia Code § 22-THEREFORE, I Diana Hoff 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 By: Diana Hoff Senior VP of Operations

Its: Telephone:

303-357-7310

Address: 1615 Wynkoop Street

Denver, CO 80202 Facsimile: 303-357-7315

mstanton@anteroresources.com Email:

NOTATEY BEALR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024 Subscribed and sworn before me this 28 day of Feb 7072

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.

My Commission Expires

WW-6A (9-13) API NO. 47-085 - 1 0 4 2 3
OPERATOR WELL NO. Smelt Unit 1H
Well Pad Name: Cashew Pad

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 02/28/2022 Date Permit Application Filed: 02/28/2022 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT WELL WORK Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ REGISTERED ✓ METHOD OF DELIVERY THAT REQUIRES A **PERSONAL SERVICE** MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: ☑ SURFACE OWNER(s) COAL OWNER OR LESSEE Name: NO DECLARATIONS ON RECORD WITH COUNTY Name: Elmer W. Pierce Address: 1634 Pleasant Hollow Road Address: West Union, WV 26456 Name: Larry & Lois Gander COAL OPERATOR Address: 2249 Clairmont Drive Name: NO DECLARATIONS ON RECORD WITH COUNTY Pittsburgh, PA 15241 Address: ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) WATER PURVEYOR(s)/OWNER(s) OF WATER WELL. SPRING OR OTHER WATER SUPPLY SOURCE Address: Name: PLEASE SEE ATTACHMENT Name: Address: OPERATOR OF ANY NATURAL GAS STORAGE FREED Name: Address: ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Address: Address: *Please attach additional forms if necessary

API NO 77 088 5 1 0 4 2 3 OPERATOR WELL NO. Smell Unit 1H 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 Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oill/nad-gas/pages/default.aspv.

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

WW-6A (8-13) API NO. 44-765 0 8 5 1 0 4 2 3
OPERATOR WELL NO. Smelt Unit 1H

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 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.

WW-6A (8-13) API NO. 47-086 8 5 1 0 4 2 3

OPERATOR WELL NO. Smelt Unit 1H

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-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

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

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

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

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

WW-6A (8-13)

Email:

API NO. 47-085 OPERATOR WELL NO. Smelt Unit 1H Well Pad Name: Cashew Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

(303) 357-7310 Diana Telephone: mstanton@anteroresources.com

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 me this 28 day of Feb, 2022 Notary Public

My Commission Expires

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

Water Source Owners:

W1:

Owner: Address:

Larry & Lois Gander 2249 Clairmont Dr.

Pittsburgh, PA 15241-3251

W2 & W3:

Owner: Address:

WF Smith Heirs 2249 Clairmont Dr.

Pittsburgh, PA 15241-3251

W4:

Owner:

Elmer W. Pierce

Address:

1634 Pleasant Hollow Road

West Union, WV 26456-6272

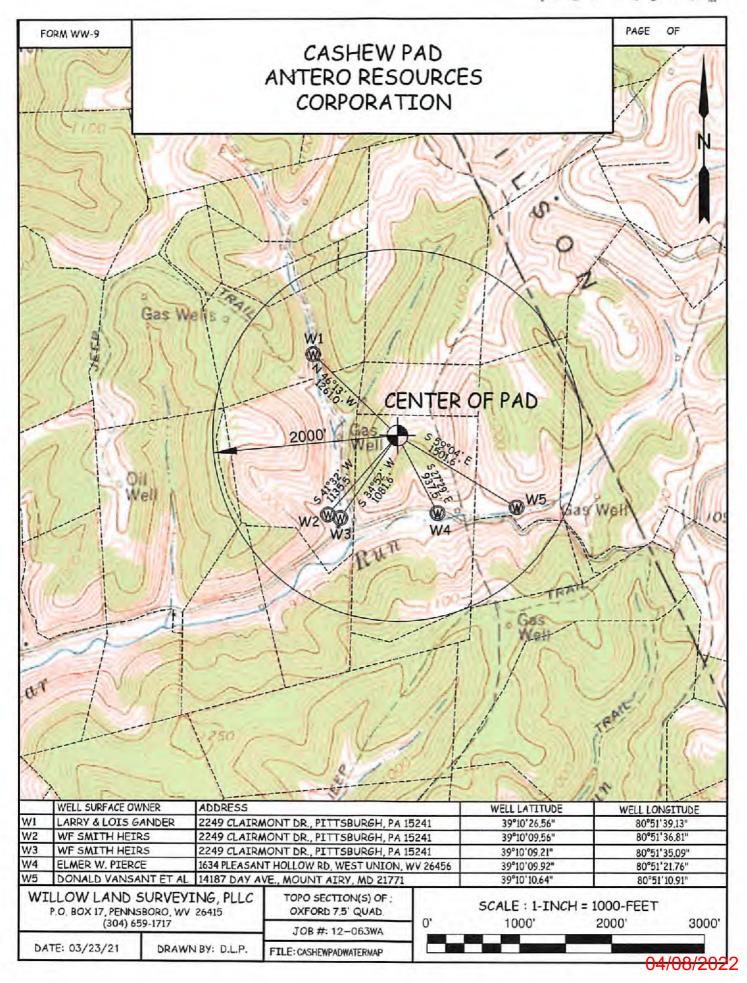
<u>W5:</u>

Owner: Address:

Donald Vansant, et al

14187 Day Ave.

Mount Airy, MD 21771-4631



4708510423

Operator Well No. Smelt Unit 1H

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.

otice Time R ate of Notice	02/17/2022	provided at least TEN (10) days p Date Permit Application Filed	02/28/2022	
elivery meth	od pursuant to West Virg	inia Code § 22-6A-16(b)		
	■ CERTIFIED			
HAND	- war milion	ECEIPT REQUESTED		
DELIVER	RETURN R	ECEIPT REQUESTED		1. II by contified mail return
eceipt request rilling a horiz of this subsect ubsection may and if availabl	ed or hand derivery, give to contal well: <i>Provided</i> . That ion as of the date the notice by be waived in writing by the e, facsimile number and ele	t notice given pursuant to subsection was provided to the surface owner: ne surface owner. The notice, if requestronic mail address of the operator	(a), section ter Provided, how	an operator shall, by certified mail return the surface owner's land for the purpose on of this article satisfies the requirement rever, That the notice requirements of thit and the name, address, telephone number of a authorized representative.
Notice is her	eby provided to the SU	Name:	Larry & Lois Gand	er
	W, Pierce	Address:	2249 Clairmont Dri	ve
Address: 1634 Pleasant Hollow Road				
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A5 (1/12)

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

Notice Time Date of Notic	Requirement: notice shall be pree: 02/28/2022 Date I		plication Filed: 02/2		
Delivery met	hod pursuant to West Virginia	a Code § 2	22-6A-16(c)		
■ CERTIE	FIED MAIL	П	HAND		
	RN RECEIPT REQUESTED		DELIVERY		
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eturn receipt he planned of equired to be drilling of a l damages to th d) The notice of notice.	requested or hand delivery, give operation. The notice required e provided by subsection (b), sec horizontal well; and (3) A propo- ne surface affected by oil and gas	e the surfactory this substitution ten of cosed surfactory to given to the cosed surfactory to the cos	ce owner whose land absection shall include if this article to a surfa- ace use and compens as to the extent the da to the surface owner a	will be used for le: (1) A copy ace owner whos ation agreemen mages are comp	cation, an operator shall, by certified mains the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter sted in the records of the sheriff at the time.
at the address	s listed in the records of the sher				
Tamas Elmo	er W. Pierce		Name:	Larry & Lois Gande	
Address: 1634	Pleasant Hollow Road		Address	: 2249 Clairmont Dri	
Address: 1634 West	Union, WV 26456 eby given:	c), notice is	-	Pittsburgh, PA 1524	41
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Oil and Gas Privacy Notice:

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

provisions lis	, hereby state that I have read the sted above, and that I have received copies of a No attachments consisting of pages one (1) through	otice of Application, an Ap	plication for a W	/ell Work Permit on Form sedimentPeontroEplan, if
required, and State: County:	the well plat, all for proposed well work on the trace. West Virginia Ritchie	ct of land as follows: UTM NAD 83 Easting: Northing:	512292m 4335831m	MAR 0.1 2022
District: Quadrangle:		Public Road Access: Generally used farm name:	Pleasant Hollow Roa	WV-Department of Environmental Protection
Watershed:	South Fork Hughes River	denotary used farm name.	Lines W. Flores	Environmental Protection
*Please check	se materials. k the box that applies	FOR EXECUT	TION BY A NAT	TURAL PERSON
□ SURFA	CE OWNER	Ciamatuma		
□ SURFAC	CE OWNER (Road and/or Other Disturbance)	Print Name:		
□ SURFAC	CE OWNER (Impoundments/Pits)			RPORATION, ETC.
□ COAL C	OWNER OR LESSEE	Company:	Mr. British	2500
□ COAL C	PERATOR	Ву:		
□ WATER	PURVEYOR	Signature:		
□ OPERA	TOR OF ANY NATURAL GAS STORAGE I	C		

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

D. Alan Reed, P.E. State Highway Engineer 1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

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 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Cashew Pad, Ritchie County
Smelt Unit 1H 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,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Dary K. Clayton

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
	Ethoxylated Nonylphenol	68412-54-4
	Ethoxylated oleylamine	26635-93-8
	Ethylene Glycol	107-21-1
	Glycol Ethers	111-76-2
	Guar gum	9000-30-0
	Hydrogen Chloride	7647-01-0
	Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
	Isopropyl alcohol	67-63-0
	Liquid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2
	Microparticle	Proprietary
	Petroleum Distillates (BTEX Below Detect)	64742-47-8
	Polyacrylamide	57-55-6
	Propargyl Alcohol	107-19-7
	Propylene Glycol	57-55-6
	Quartz	14808-60-7
	Sillica crystalline quartz	7631-86-9
	Sodium Chloride	7647-14-5
	Sodium Hydroxide	1310-73-2
	Sugar	57-50-1
	Surfactant	68439-51-0
	Suspending agent (solid)	14808-60-7
	Tar bases, quinolone derivs, benzyl chloride-quarternized	72480-70-7
	Solvent Naptha, petroleum, heavy aliph Soybean Oil, Me ester	64742-96-7
	Copolymer of Maleic and Acrylic Acid	67784-80-9
	DETA Phosphonate	52255-49-9 15827-60-8
	Hexamythylene Triamine Penta	15827-60-8 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
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	Diethylene Glycol	111-46-6
	Methenamine	100-97-0
	Polyethylene polyamine	68603-67-8
	Coco amine	61791-14-8
	2-Propyn-1-olcompound with methyloxirane	38172-91-7
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THE WELLS, BERNS ON LEG.

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THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE PRETWITHIN SOS FEET OF
THE CENTER OF THE WELL PAID.

PROJECT CONTACTS:

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

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



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			-	PARCO TOTAL	8.0
ANTENNA COLUMNIA	Oil	200,018	7.0	MILES MECHANISM	
				MAN ACCESSIONS	834
				WELL PLOT	371
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DATE AND DESIGNATION	16.0	789.75	47.70	PARCEL MACHINETICS	
			-	WELLERS	207
				PARES, FORM	100
				TOTAL.	13.85

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OPERATOR
ANTERO RESOURCES CORPORATION ANTERO RESOURCE SM WATE GARD BLAC BRIDGEFORT, WY JULY BROSE (55) 4-5-455 FAX (55) 4-2-455 FAX (55) 4-2-455 EU WASCHER - ENVIRONMENTAL & REGULLATORY MANAGER OFFICE (201) 42 494 CELL (304) 478-9779 GEOTECHNICAL CIVIL & ENVIRONME MRDJECT MANAGER 883118 FAR (884) 805-3827 CELL D-01774-1716

APPROVED WVDEP OOG 3/10/2022



LOCATION MAP OXFORD USGS 7.5' QUAD

1 INCH - 1000 FFFT

WELL HEAD	NAME	WY NORTH NAC 27	WV NORTH NAD 83	UTM-M	NAD 83	NAD 27	ELEVATION
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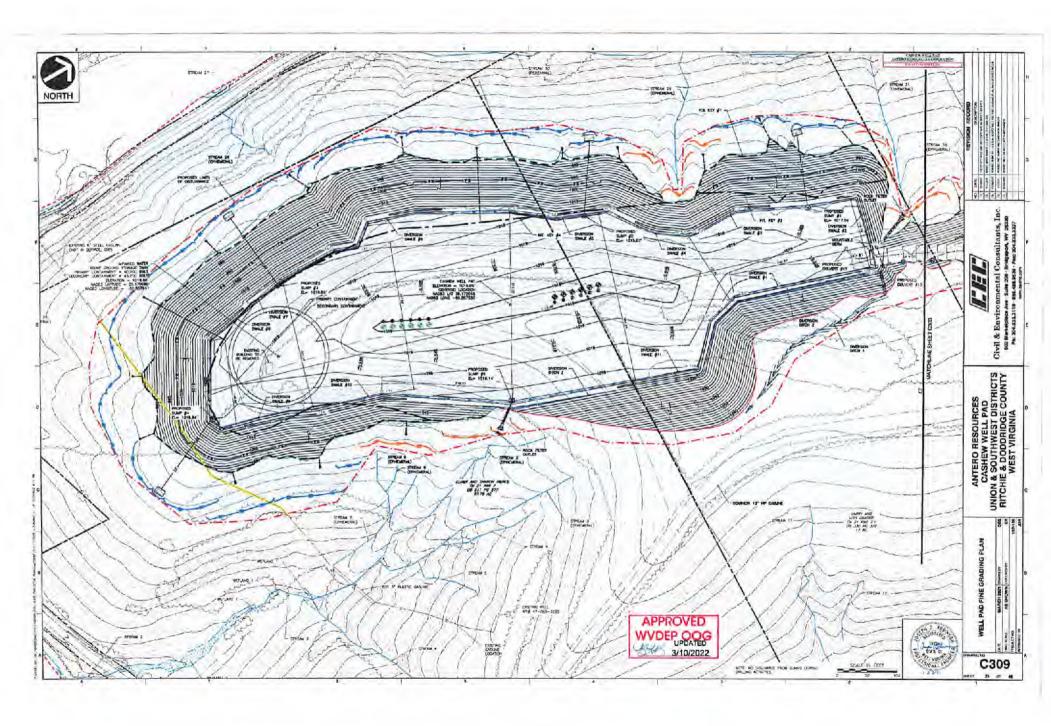
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ANTERO RESOURCES
CASHEW WELL PAD
UNION & SOUTHWEST DISTRICTS
RITCHE & DODDRIDGE COUNTY
WEST VIRGINIA

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ARROW KLANZLER - CONSTRUCTION MANAGER OFFICE (004) 647-4991 ROBERT WIRKS - DESIGN MANAGER OFFICE (DR) 447-490 CELL (DR) 427-748 NOT HOPFER - UTILITY SUPERVISOR CILL CO.) 615-3600 PENNSYLVANIA VIRGINIA

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- ENGINEER/SURVEYOR:

PROJECT CONTACTS:

REQULATORY MANAGER DIFFCE (CHIECHOR CHL: DOGGREST)

COST LOFFER - LITLITY SUPERVISOR

CASHEW WELL PAD ANTERO RESOURCES CORPORATION FINAL DESIGN PLANS

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



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GHADI	VOLUME		
DESCRIPTION	cm los	earrico.	MET SCY
MAN ACCESS BOAD	K/MI	71,60	-20.911
HISLENAT	team	RL764	M-m
STAINING AND A		C20	4,770
(PASAGLIPEA)	-	APP	4300
POLI		234	4100
FUTAL	167,011	NO. NO.	
POPULATION POR SWILL DESIGNATION	Chicot	17,800 CT	
POTAL GECAVATION	Vol. for	116,259	

12. SITE PLAN
14. SITE PLAN
15. SITE PLAN
15. SITE PLAN
17. FALS SITE PLAN
16. EAS SITE PLAN
16. EAS SITE PLAN
16. EAS SITE PLAN
16. EAS SITE PLAN
17. MOLE AND FREE GIVE
17. MOULE AND SECTION
17. MO

LO,O, AREA	S
DESCRIPTION	ACRES
AVAILABILITY STATES	1532
WILMS	1829
EDWING MEXT	LM
ETNOMIC AREA 3.	1.30
POLYU L	1,11
DOLUMN X	0.46
TOPROGRAMME PLET	1.80
TOTAL	18.79
WOODIE	TRAC

a a	3	Way S	B-@	7
		1 15	> -0	
1	(F)		PROJECT	B
7 5	£ 100			0
1.5	Sha Sha	NE		00

LOCATION MAP OXFORD USGS 7.5' QUAD SCALE IN FEET

I INCH - 1000 FEET

VICINITY MAP RITCHIE & DODDRIDGE COUNTY ROAD MAP SCALE IN FEET

IT'S THE LAWS

			CASHEW WI	ELL LUGEND			
WELL HEAD	NAME	WV NORTH HAD 27	WV HORTH HAD ES	ШТМ-М	NAD 83	NAD 27	ELEVATION
A SHAYEZH	Rt 24794 1,686	N: 253474.498 M:	M. ASERCASES	88C FOL2325.	30" 30" 14.52"	1004.00	
	E 1415094.9M	E: 1505564,000	#; NEXT HA COM	407.527.28.000	-97" \$1" 24,68"	100,000	
e belays be	W. 347455.060	W-247429.800	MADESTRANS	36.10 MYC.	30° LE 13.12"	1018.58°	
	E:161501E710	E: 1583570.815	T; STOSSOTS	AC" ST 27 5A"	-80° 51° 34.80°	SHESE	
11.	13.5 (100.30)	RESERVED ASO	16:247503.253	Ht 4325822.748	39" 10 17.51"	99" NE 13.25"	1018.80
C ERIOTH	E-1610018-401	E:1583577.507	E-S122ME-DIS	-82" SE" 27.89"	-82°51'39.91"	(100,00	
e unos	# 3474F1.831	N:307516648	W. 4319/DE-#57	39' 10' 17.50"	99° 10° 17.10°	MALSE	
	E-1615025.257	E. 158358A,380	8: \$12290 mtg	AC 53' 37 81"	-80" S1"26.80"	TOTAL PO	
E SMOT SH	100.440	N: 247425.215	N: 347520.023	M CONTROL DES	DA NG 23 EL.	28° 12' 17.52"	100.00
	b-sessessed	6.1588994.1St	L/S12291.007	-ALT 51' 27 20'	-87°51'36.35"	1000.00	
	Total Contract	W: 247508.598	M:347543.431	M: 413503.000	26. 10, 15.62	39" tir 17.83"	and the same of
E DIMET TH	R 16182R48R8	E 1583307.327	6:X1294/002	-RT SE 27.64*	-40, 27, 34 34.	TUTTAR	
	43346	N: 247710.781	H: 247745.595	N 422/2005/2019	5F 10 10.8(*	3F W 1946"	Image
	D-LWITTH	E-1615302#4K	E-1589861.254	E-51ET12-430	-87°51'36.67"	-87"51"27.AF	THE REAL PROPERTY.
H D-LINET 2H		W: 247725.622	m/247780.116	Rt 4333901.442	FA 10, 10'10.	26, 70, 18 30.	10107
	L-161530E-440	b 1383965.570	E 513013.508	40,11,5910,	-8F 5F 77,45"	10000	
) SAMETAN		N: 347799.625	# 307734.637	N. 4139905.845	34.70, 8712,	25 20 1934	10,507
	5-1967 TA E 26/23/23/23/5 E 25/25/43/29 E 51/25/45/29	92.21.2018.	40° ST TIAC	4625.07			
I contain	R: 267754.364	B:347760.356	R-CONSOLIN	27 10" 10.80"	397.50730.00F	3013-87	
	E-UNIT 201	E-1613111.562	0,1589679.003	E-532815.648	47'51'26.74"	87 ST 20.36	and see .
Acres Income	Ta a service	Pt 147798.565	N: 3476CB-879	6 403904.775	38 M 3026	107 107 1022	100.007
	H-UNIT 2H	N: 2615217.718	£: 1549676.839	0.512916.729	40"51"26.69"	40" 51" 29.31"	ACT WAT
0.0	Louisia	N. 267793_386	N: 247938.200	N 4100093113	AL M. MIN.	36. 20.3038.	300,507
	F-LINET Zei	F-9015021.474	£ 2562692.535	E 112317,790	-N7'31'26.85T	40°51 7.27	300,947

		3	THEAM IMPACT	LINEAR FEET]		
TEEAM AND SUPACT CAUSE	THE OF STREAM	CHLYENT	MILIET/OUTLETS STRUCTURES (LF)	CONSTRUCTION DISTURBANCE TO LOD (L/)	TEMPORARY MAPACT (FT)	PERMITMENT (PT)
STMAN43	EPHEMERAL	RO .	2	n		- 10
STREAM 45	EPHILISHERAL.	100	0	348	32	1.17
STREAM 46	EMIGRIPAL	660	. 0	#	39	4
TOTAL				10	105	

C000

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Civil &

ANTERO RESOURCES
CASHEW WELL PAD
UNION & SOUTHWEST DISTRICTS
RITCHIE & DODDRIDGE COUNTY
WEST VIRGINIA

PENNSYLVANIA

PLAN REPRODUCTION WARRING

THE PLANE HAVE BEEN CREATED ON ARE DISC X 347 GIVETTS FOR REDUCTIONS, REFER TO CHANTEL SCALE

THE PLANS HAVE BRIEN CHEATED FOR FULL COLOR FLOTTING. ANY SET OF THE PLANS THAT IS NOT PLOTTED IN FILL COLOR SHALL NOT BE CONSIDERED AGEOLETY FOR CONSTRUCTION PLAYOSES.

Eastern