

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

Tuesday, September 20, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit approval for LEAP UNIT 1H 47-095-02818-00-00

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 . Martin Chie

Operator's Well Number: LEAP UNIT 1H Farm Name: DENNIS & CLISTA HEINTZM U.S. WELL NUMBER: 47-095-02818-00-00 Horizontal 6A New Drill Date Issued: 9/20/2022

Promoting a healthy environment.

PERMIT CONDITIONS

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

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

4709502818 API NO. 47-095

OPERATOR WELL NO. Leap Unit 1H Well Pad Name: Heintzman Pad

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

1) Well Operat	or: Antero R	esources	Corporat	494507062	095 - Tyler	Ellsworth	Porter Falls 7.5'
14 Y 210 24 24 21				Operator ID	County	District	Quadrangle
2) Operator's V	Well Number:	Leap Unit	1H	Well P	ad Name: Heir	ntzman Pad	
3) Farm Name	/Surface Owne	r: Dennis &	Clista Heint	zman Public Ro	bad Access: El	k Fork Rd	
4) Elevation, c	urrent ground:	1215'	Ele	evation, propose	d post-construc	tion: ~1193	l,
5) Well Type	(a) Gas \underline{X} Other		_ Oil	Un	derground Stor	age	
	(b)If Gas S	Shallow	Х	Deep			
	ŀ	Iorizontal	Х				
6) Existing Pac	d: Yes or No 🖄	/es	_		_		
1	0	A 24 A	N	pated Thickness ss- 55 feet, Assoc	and the second	2850#	WED
	otal Vertical De					R	ECEIVED of Oil and Gas
	it Total Vertica		Marcellus			Office	NG 29 2022
		- 2 op	26000' MI			P	UG -
10) Proposed 1	Fotal Measured						WV Department of Wironmental Protection
11) Proposed H	Horizontal Leg	Length: 1	15954.4'			ET	Witom
12) Approxima	ate Fresh Wate	r Strata Dej	pths:	420', 475'			
	Determine Fre		cpuis	7-095-00269 Offset wel	I records. Depths have	e been adjusted ad	cording to surface elevation
	ate Saltwater D						
15) Approxima	ate Coal Seam	Depths: 50	8.		10	10.1	
16) Approxima	ate Depth to Po	ssible Void	d (coal mi	ne, karst, other):	None Anticip	ated	
the second se	osed well locat ing or adjacent			ns Yes	N	lo X	
(a) If Yes, pr	ovide Mine Inf	o: Name:		_			
		Depth:		Ú.			
		Seam:					
		Owner					
						Steve	myory
						Steve 81	
							Page 1 of 3 09/23/202

WW-6B (04/15)

4709502818 API NO. 47-095

OPERATOR WELL NO. Leap Unit 1H

Well Pad Name: Heintzman Pad

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

ТҮРЕ	<u>Size</u> (in)	<u>New</u> or Used	Grade	Weight per ft. (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	90	90	CTS, 86 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	525	525	CTS, 313 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate		I Torrest	h de la la			51	
Production	5-1/2"	New	P-110	23#	26000	26000	5634 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

ТҮРЕ	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <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	20"	24"	0.438"	1530	50	Class A	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	~1.18
Intermediate				1			
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	2500	Lead-H/POZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			[]
Liners							

PACKERS

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	1.2	0	21	122
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Kind:	N/A	Hou Department of
Sizes:	N/A	WV Department of Environmental Protection
Depths Set:	N/A	

Steve Mg 8/26/22

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OPERATOR WELL NO. Leap Unit 1H Well Pad Name: Heintzman 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): 56.03 acres

22) Area to be disturbed for well pad only, less access road (acres): 7.82 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.

Office of Oil and Gas

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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.

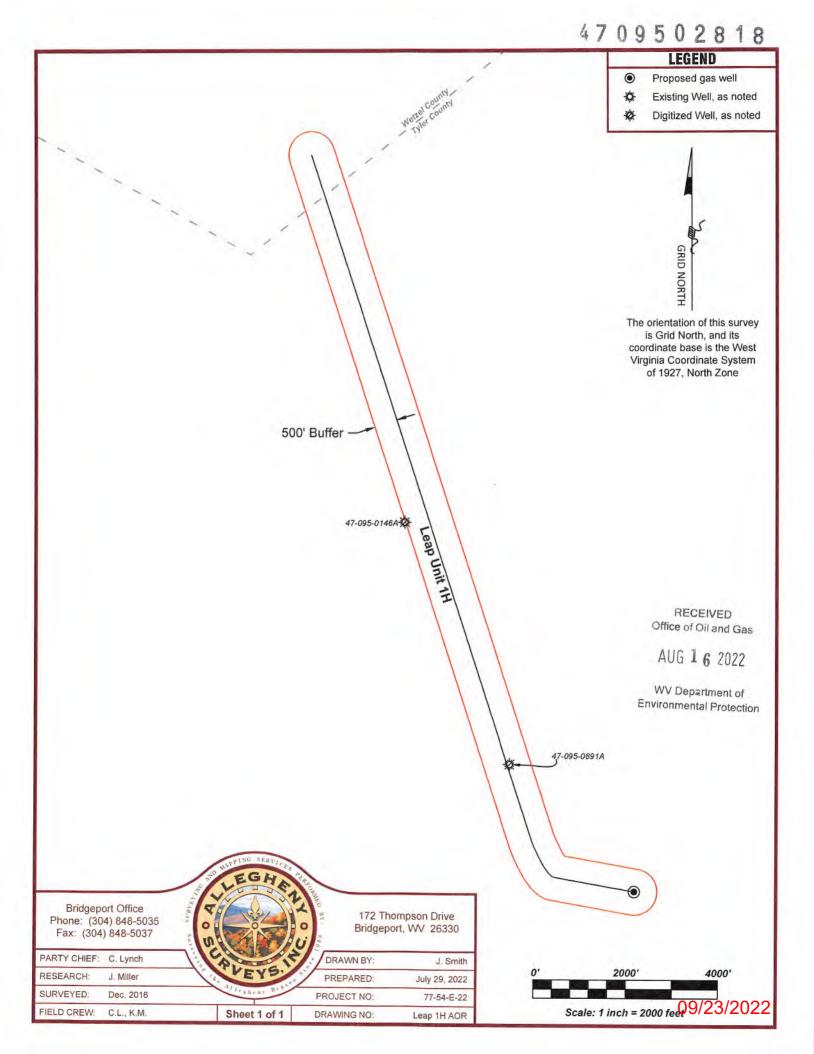
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

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.

Stur 19123/2022 B/Ub/22



UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	Ð	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47095301460000	S B WATKINS	2	DEEM F S	DEEM F S				
47095308910000	JOHN W FULMER	1	HENTHORN DAN	HENTHORN DAN				

WV Department of Environmental Protection

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RECEIVED Office of Oil and Gas WW-9 (4/16)

API Number 47 - 095

Operator's Well No. Leap 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) Outlet Middle Island Creek Quadrangle Porter Falls 7.5	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No No Will a pit be used? Yes No V	
If so, please describe anticipated pit waste: No pit will be used at this site (Drilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and neuled off site.)	
Will a synthetic liner be used in the pit? Yes No V If so, what ml.? N/A	
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number *UIC Permit # will be provided on Form WR-34)	
Reuse (at API Number Future permitted well locations when applicable. API# will be provided on Form WR-34	
Off Site Disposal (Supply form WW-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98 Other (Explain	Ð
Wetzel Co Landfill Permit #SWF-1021 Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings removed offsite and taken to landfill.	
Surface - Alt/Freshwater, Intermediate -	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.	
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Please See Attachment	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Drill cuttings stored in tanks, removed offsite and taken to landfill.	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A	
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV0109410)	
Wetzel Co Landfill (Permit #SWF-1021)	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT is on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applie 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 application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are signifi- penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Just Kehler	at the cable this for

AUG 2 9 2022 Company Official (Typed Name) Gretchen Kohler Company Official Title Director of Environmental & Regulatory Compliance WV Department of Environmental Protection lug Subscribed and sworn before me this 20 22 day of DIANE BLAIR NOTARY PUBLIG STATE OF COLORADO prouners Notary Public 27 Apr My commission expires 2014 NOTARY ID 10994011871 MY COMMISSION EXPIRES 27-Apr-2024

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Form WW-9

Operator's Well No. Leap Unit 1H

See attached Table IV-4A for additional seed type (Heintzman Pad Design)

*or type of grass seed requested by surface owner

Antero Resources Corporation

Proposed Revegetation Treatme	nt: Acres Disturbed 5	6.03 acres	Prevegetation pl	Ŧ
Lime 2-4	_ Tons/acre or to correct	ct to pH 6.5		
Fertilizer type Hay or s	traw or Wood Fiber (will)	be used where needed)		
Fertilizer amount 500		lbs/acre		
Mulch 2-3		_Tons/acre	March 1 (1 (1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
Access R	oad "D" (16.60 acres) + Well Pac	Seed Mixtures	Maleriai Stockpiles (ST.07 aci	<u>191-30.03 AUGS</u>
Temp	orary		Perm	inent
Seed Type	lbs/acre		Seed Type	lbs/acre
Annual Ryegrass	40	Crowr	vetch	10-15
Field Bromegrass	40	Tall Fe	escue	30

See attached Table IV-3 for additional seed type (Heintzman Pad Design)

*or type of grass seed requested by surface owner

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L 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: teve M Cay	RECEIVED Office of Oil and Gas AUG 2 9 2922
Comments:	Office of One 2007
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citle: Oils for Luspecture	Date: 8/210/22
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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	RECEIVED Office of Oil and Gas
8.	New Drill	Gince of Oll and Gas
	Anionic Polyacrylamide Copolymer Emulsion – Shale Stabilizer	AUG 16 2022
9.	Caustic Soda	
	Sodium Hydroxide – Alkalinity Control	WV Department of
10	. Mil-Lime	Environmental Protection
	Calcium Hydroxide – Lime	
11.	. LD-9	
	Polyether Polyol – Drilling Fluid Defoamer	
12.	. Mil Mica	

.

Hydro-Biotite Mica – LCM

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	
22. Aai-Flex 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	ECEIVED
31. Milstarch	of Oil and Gas
32. Mil-Lube	16 2022
Drilling Fluid Lubricant	

/V Department of Environmental Protection

4709502818



911 Address 2176 Elk Fork Road Middlebourne, WV 26149

Well Site Safety Plan

Antero Resources

Well Name: Heintzman Unit 5H, Leap Unit 1H-2H, Mamba Unit 1H-2H, Nomad Unit 1H-2H

Pad Location: HEINTZMAN PAD

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AUG 2 9 2022

Tyler County/Ellsworth District

WV Departmane of Environmental Protection

GPS Coordinates:

Entrance - Lat 39.539881'/ Long -80.887809' (NAD83) Pad Center - Lat 39.543135'/ Long -80.855725 (NAD83)

Driving Directions:

From the U.S Post Office in Middlebourne, head east on Dodd St toward Fair St for 364 ft. Turn left onto WV-18 N/Main Street for 4.2 miles. Turn right onto WV-180 N for 0.5 miles, lease road will be on your right.

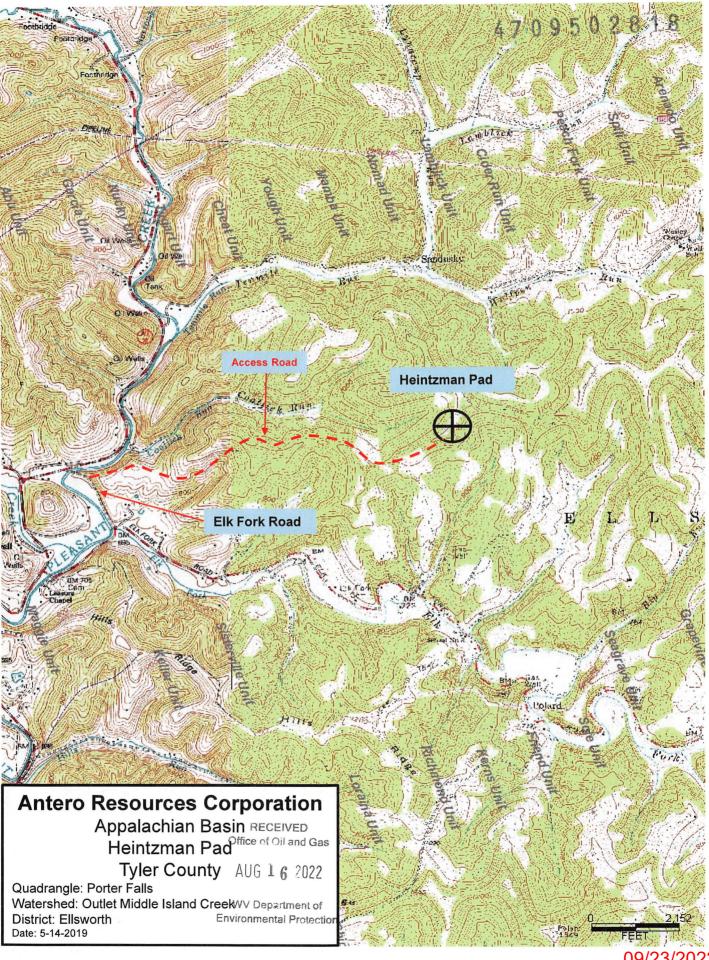
Alternate Route:

From the U.S Post Office in Sistersville, head southeast on Wells Street toward Elizabeth Street for 72 ft. Turn left at the 1st cross street onto Elizabeth Street. Elizabeth Street turns right & becomes WV-2 S/Chelsea Street for 1 mile. Continue straight onto WV-18S for 6.9 miles. Turn left onto WV-180 N for 0.5 miles, lease road will be on your right.

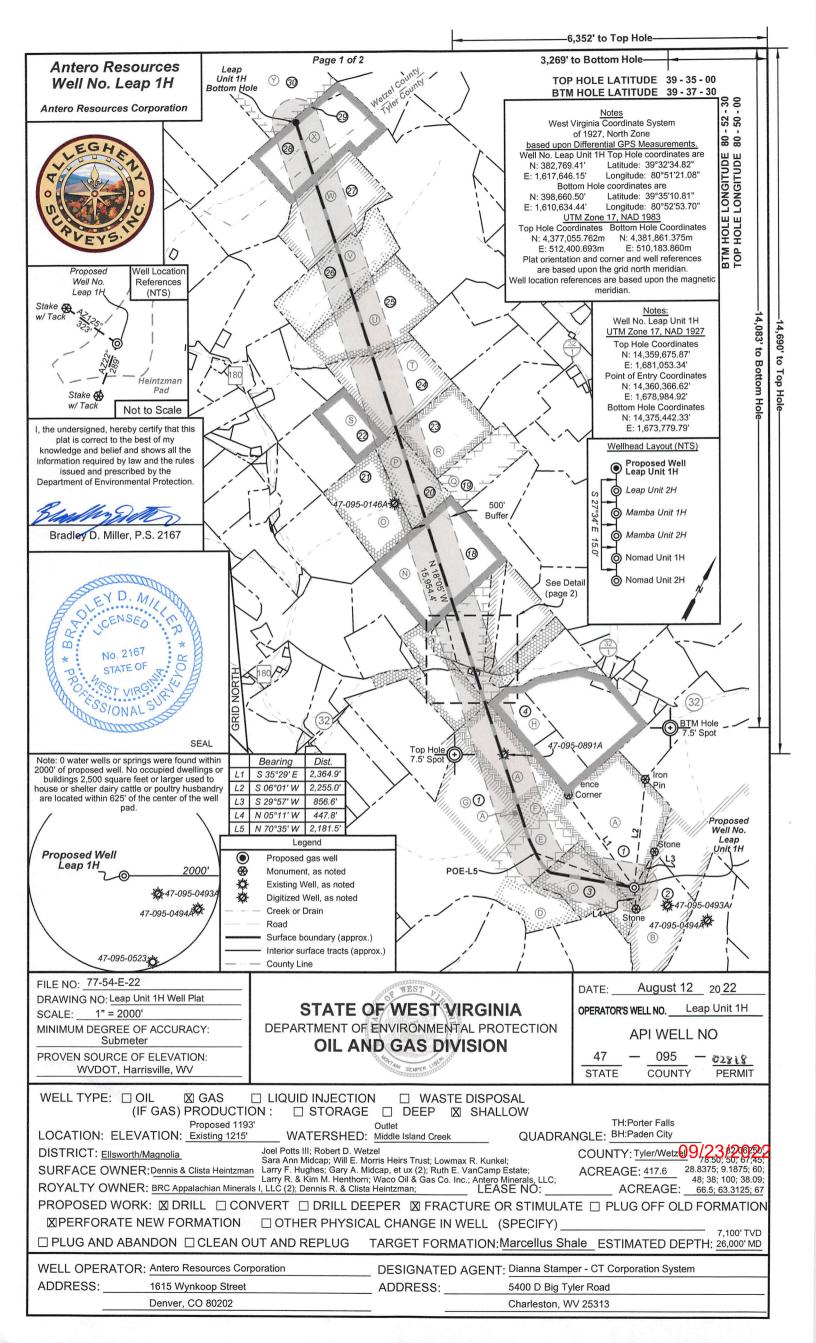
EMERGENCY (24 HOUR) CONTACT 1-800-878-1373

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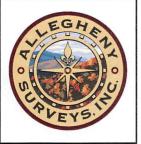


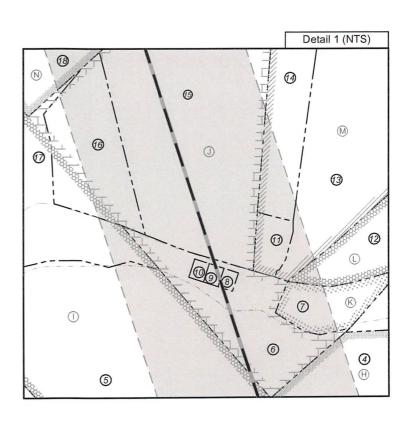
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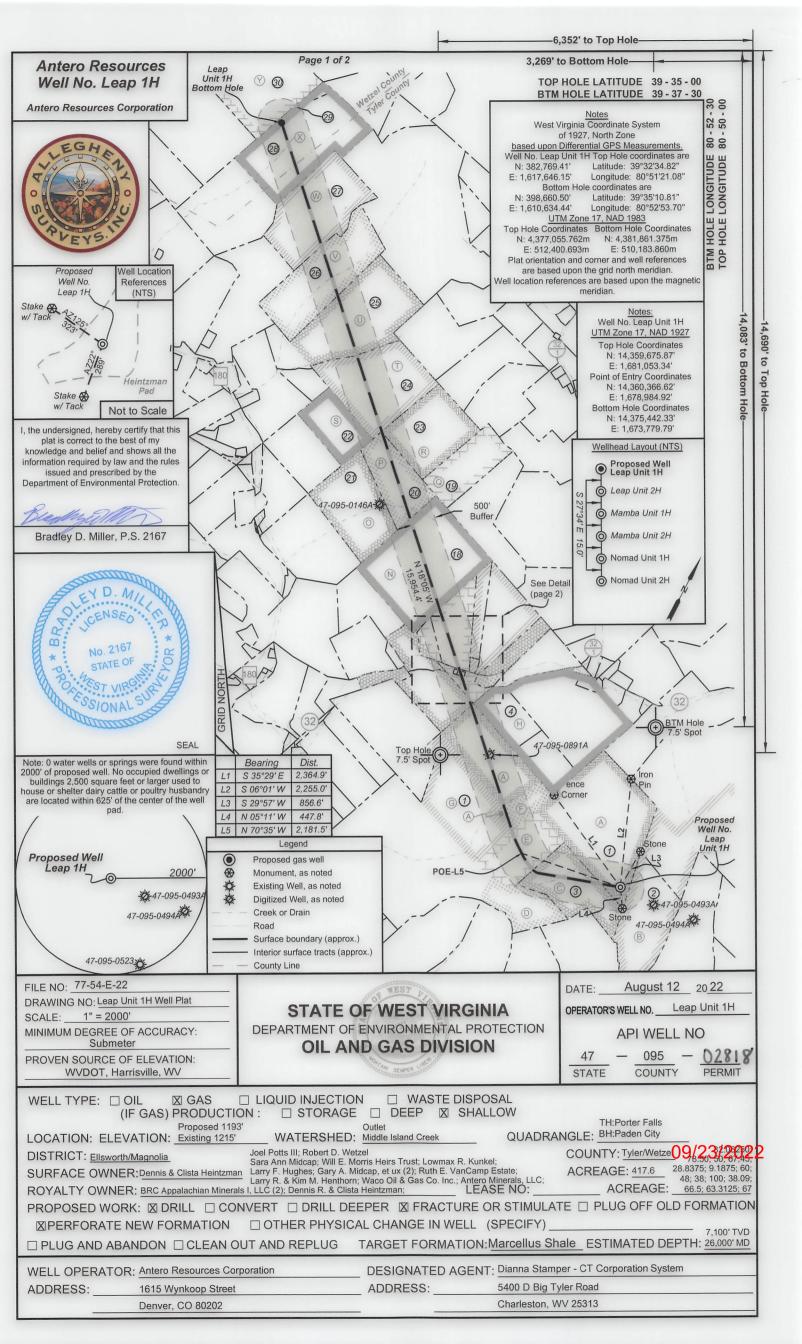
Antero Resources Well No. Leap 1H

Antero Resources Corporation





		ID	TM/Par		Owner	Bk/Pg	Acres
		1	6-36	Denr	is & Clista Heintzman	297/640	417.60
		2	10-4	Stefan	L. & Alberta B. Smolski	356/467	56.08
		3	6-49	Dennis	s & Clista A. Heintzman	297/637	45.00
		4	6-26	Ron	nie L. VanCamp, et al	670/641	23.00
Leases		5	6-25.2	Joshua	M. & Crystal L. Rocchio	543/206	32.00
A BRC Appalachian Minerals I, LLC		6	6-17.3		Tracy Postlehwait	354/74	3.00
B Rose Enterprises, LLC		7	6-17.2	Micha	el L. & Donna S. West	243/175	2.66
C Dennis R. & Clista A. Heintzman		8	6-52	Jua	inita A. Morgan, et al	296/313	0.18
D Nina A. Whitefield		9	6-51	Jua	inita A. Morgan, et al	296/313	0.18
E Larry R.and Kim M. Henthorn		10		Jua	inita A. Morgan, et al	296/313	0.18
F Waco Oil and Gas Co. Inc.		11		M	Maxine M. Ankrom	362/75	1.16
G BRC Appalachian Minerals I, LLC		12		Lind	a J. & Jack E. Mason	OR101/678	10.00
H Judy P. Meyers		13			Kirk Family Trust	511/171	39.00
Antero Minerals, LLC		14			Kirk Family Trust	511/169	11.00
J Larry F. Hughes		15			Larry Henthorn	560/660	25.00
K Michael L. West, et ux		16			William McClain	297/87	10.24
L Linda J. & Jack E. Mason		17			William L. McClain	253/323	11.87
M Paula Sue Porfeli		18		Gary	A. & Penny K. Midcap	301/265	100.00
N Gary A. Midcap, et ux		19		Gary	A. & Penny K. Midcap	301/265	40.00
O Ruth E. VanCamp Estate		20		Gary	A. & Penny K. Midcap	301/265	38.09
P Ruth E. VanCamp Estate		21		Gary	A. & Penny K. Midcap	301/265	75.55
Q Gary A. Midcap, et ux		22			Rosalie B. Henry	362/339	27.00
R Sara Ann Midcap		23	3-26		Gary Midcap	318/496	50.00
S Linda Allen		24		Gary	A. & Penny K. Midcap	301/265	66.50
T Will E. Morris Heirs Trust		25	3-18		Gary Midcap	322/108	80.33
U Gary A. Midcap, et ux		26	3-13		Lomax R. Kunkel	297/692	63.50
V Lowmax R. Kunkel		27	3-8	Stever	D. & Brenda M. Higgins	313/623	67.00
W Joel Potts III		28	16-67		Robert D. Wetzel	404/372	82.06
X Robert D. Wetzel		29			Robert D. Wetzel	184/351	3.00
Y Bounty Minerals, LLC		30		Kennet	h W. & Norma A. Headley	355/347	41.75
					August 1		
FILE NO: 77-54-E-22		DE WEST DE			DATE: August 12	2022	
DRAWING NO: Leap Unit 1H Well Plat	OTATE C	EAVERTAUDOU				eap Unit	1H
SCALE:1" = 2000'	IV.	E OF WEST VIRGINIA OPERATOR'S WELL NO. Leap Unit					
MINIMUM DEGREE OF ACCURACY:	DEPARTMENT OF	T OF ENVIRONMENTAL PROTECTION API WELL NO					
Submeter	ß				AFIVEL		
	UIL AN	D GAS DIVISIO		1	47 — 095	- 028	18
PROVEN SOURCE OF ELEVATION:		SONTANI SEMPER LIBER DOCO					
WVDOT, Harrisville, WV		SEMPER SEMPER			STATE COUNTY	PEF	RMIT
WELL TYPE: 🗆 OIL 🛛 🖾 GAS	LIQUID INJECTIOI						
(IF GAS) PRODUC	ION : 🗆 STORAGE	🗆 DEEP 🖾 SHA	LLOW				
Proposed 1		Outlet			TH:Porter Falls		
LOCATION: ELEVATION: Existing 121			QUA	DRAN	GLE: BH:Paden City		
	Joel Potts III; Robert D. Wet				COUNTY: Tyler/Wet	a/22/8	06250
DISTRICT: <u>Ellsworth/Magnolia</u>	Sara Ann Midcap: Will E. Mo	orris Heirs Trust: Lowmax R. Kur	nkel;				
SURFACE OWNER: Dennis & Clista Heintz	han Larry F. Hughes; Gary A. M	idcap, et ux (2); Ruth E. VanCam	np Estate;	1.0.	ACREAGE: <u>417.6</u> 2	28.8375; 9.1 48; 38; 100	
ROYALTY OWNER: BRC Appalachian Min	Larry R. & Kim M. Henthorn	; Waco Oil & Gas Co. Inc.; Anter		LU;	ACREAGE:	66.5: 63.3	3125: 67
PROPOSED WORK: 🛛 DRILL 🗆 C	ONVERT	EPER 🖾 FRACTURE	OR STIN	IULATE		JFORM	ATION
PERFORATE NEW FORMATION	OTHER PHYSIC	AL CHANGE IN WELL	(SPECI	=Y)			
							0' TVD
PLUG AND ABANDON CLEAN	OUT AND REPLUG	TARGET FORMATION	N:Marcell	us Sha	ESTIMATED DE	PTH: <u>26,0</u>	00' MD
WELL OPERATOR: Antero Resources (orporation	DESIGNATED AGEN	T: Dianna	Stampe	r - CT Corporation Syste	m	
ADDRESS: 1615 Wynkoop Stre	et	ADDRESS:	5400 D	Big Tyle	er Koad		
Denver, CO 80202			Charles	ston, WV	25313		
	and the second of the second		In the second	Contraction of the local division of the loc			



Antero Resources Well No. Leap 1H	Page 2 of 2
Antero Resources Corporation	
COL	
EGHOUS CONTRACTOR	Detail 1 (NTS)
Leases A BRC Appalachian Minerals I, LLC B Rose Enterprises, LLC C Dennis R. & Clista A. Heintzman D Nina A. Whitefield E Larry R.and Kim M. Henthorn F Waco Oil and Gas Co. Inc. G BRC Appalachian Minerals I, LLC	ID TM/Par Owner Bk/Pg Acres 1 6-36 Dennis & Clista Heintzman 297/640 417.6 2 10-4 Stefan L. & Alberta B. Smolski 356/467 56.02 3 6-49 Dennis & Clista A. Heintzman 297/637 45.00 4 6-26 Ronnie L. VanCamp, et al 670/641 23.00 5 6-25.2 Joshua M. & Crystal L. Rocchio 543/206 32.00 6 6-17.3 Tracy Postlehwait 354/74 3.00 7 6-17.2 Michael L. & Donna S. West 243/175 2.66 8 6-52 Juanita A. Morgan, et al 296/313 0.18 9 6-51 Juanita A. Morgan, et al 296/313 0.18 10 6-50 Juanita A. Morgan, et al 296/313 0.18 11 6-18.1 Maxine M. Ankrom 362/75 1.16 12 6-19 Linda J. & Jack E. Mason OR101/678 10.00
H Judy P. Meyers I Antero Minerals, LLC J Larry F. Hughes K Michael L. West, et ux L Linda J. & Jack E. Mason M Paula Sue Porfeli	13 6-18 Kirk Family Trust 511/171 39.0 14 6-18.2 Kirk Family Trust 511/169 11.0 15 6-17.1 Larry Henthorn 560/660 25.0 16 6-17 William McClain 297/87 10.2 17 6-25 William L. McClain 253/323 11.8 18 6-6 Gary A. & Penny K. Midcap 301/265 100.0
N Gary A. Midcap, et ux O Ruth E. VanCamp Estate P Ruth E. VanCamp Estate	19 3-26.1 Gary A. & Penny K. Midcap 301/265 40.0 20 3-32 Gary A. & Penny K. Midcap 301/265 38.0 21 6-5 Gary A. & Penny K. Midcap 301/265 75.5
Q Gary A. Midcap, et ux R Sara Ann Midcap S Linda Allen T Will E. Morris Heirs Trust U Gary A. Midcap, et ux V Lowmax R. Kunkel	22 3-42 Rosalie B. Henry 362/339 27.0 23 3-26 Gary Midcap 318/496 50.0 24 3-24 Gary A. & Penny K. Midcap 301/265 66.5 25 3-18 Gary Midcap 322/108 80.3 26 3-13 Lomax R. Kunkel 297/692 63.5 27 3-8 Steven D. & Brenda M. Higgins 313/223 67.0
W Joel Potts III	28 16-67 Robert D. Wetzel 404/372 82.0
W Joel Potts III X Robert D. Wetzel Y Bounty Minerals, LLC	28 16-67 Robert D. Wetzel 404/372 82.0 29 16-61.1 Robert D. Wetzel 184/351 3.0 30 16-61 Kenneth W. & Norma A. Headley 355/347 41.3
W Joel Potts III X Robert D. Wetzel	28 16-67 Robert D. Wetzel 404/372 82.0 29 16-67.1 Robert D. Wetzel 184/351 3.0 30 16-61 Kenneth W. & Norma A. Headley 355/347 41.1 30 16-61 Kenneth W. & Norma A. Headley 355/347 41.1 DATE: August 12 20 22 OPERATOR'S WELL NO. Leap Unit 1H API WELL NO
W Joel Potts III X Robert D. Wetzel Y Bounty Minerals, LLC FILE NO: _77-54-E-22 DRAWING NO: Leap Unit 1H Well Plat SCALE: _1" = 2000' MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV WELL TYPE: □ OIL ⊠ GAS (IF GAS) PRODUCT Proposed 1 LOCATION: ELEVATION: Existing 121 DISTRICT: Ellsworth/Magnolia SURFACE OWNER:Dennis & Clista Heintzr	28 16-67 Robert D. Wetzel 404/372 82.0 29 16-61.1 Robert D. Wetzel 184/351 3.0 30 16-61 Kenneth W. & Norma A. Headley 355/347 41.3 30 16-61 Kenneth W. & Norma A. Headley 355/347 41.3 DEPARTMENT OF ENVIRONMENTAL PROTECTION OREATOR'S WELL NO. Leap Unit 1H API WELL NO 47 095 023 31 Outlet STATE COUNTY PERMIT 15' WATERSHED: Middle Island Creek QUADRANGLE: BH:Paden City Joel Potts III; Robert D. Wetzel Saar Ann Midcap, Will E. Morris Heirs Trust; Lowmax R. Kunkel; COUNTY: Tyler/Wetzel 9/23 28.8375; 9.1875; 6.43; 100; 38.0 man Larry F. Hughes; Gary A. Midcap, et ux (2); Ruth E. VanCamp Estate; ACREAGE: 417.6 28.8375; 9.1875; 6.43; 100; 38.0
W Joel Potts III X Robert D. Wetzel Y Bounty Minerals, LLC FILE NO: 77-54-E-22 DRAWING NO: Leap Unit 1H Well Plat SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV WELL TYPE: OIL ICCATION: Existing 121 DISTRICT: Ellsworth/Magnolia SURFACE OWNER: BOURFACE BRC Appalachian Mining PROPOSED WORK:	28 16-67 Robert D. Wetzel 404/372 82.4 29 16-61.1 Robert D. Wetzel 184/351 3.0 30 16-61 Kenneth W. & Norma A. Headley 355/347 41.1 30 16-61 Kenneth W. & Norma A. Headley 355/347 41.1 DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION DATE: August 12 20.22 OPERATOR'S WELL NO. Leap Unit 1H API WELL NO 47 - 095 - 02.81 TION : STORAGE DEEP SHALLOW TH:Porter Fails 0utlet QUADRANGLE: BH:Paden City PERMIT Joel Potts II: Robert D. Wetzel Gutlet QUADRANGLE: ACREAGE: 417.6 28.8375: 9.1875: 9.1875; 0.1875;

DDRESS:	1615 Wynkoop Street	ADDRESS:
	Denver, CO 80202	

A

5400 D Big Tyler Road Charleston, WV 25313

Operator's Well Number Leap 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
A: BRC Appalachian Minerals I LLC Lease			
BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	1/8	0369/0300
BRC Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	0369/0784
Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc	Assignment	0378/0764
Statoil USA Onshore Properties Inc	SWN Exchange Titleholder LLC	Assignment	0470/0668
SWN Exchange Titleholder LLC	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
C: Dennis R. & Clista A. Heintzman Lease			
Dennis R. Heintzman and Clista A. Heintzman	Stone Energy Corporation	1/8+	0387/0080
Stone Energy Corporation	Antero Resources Corporation	Assignment	0447/0767
E: Larry R. and Kim M. Henthorn Lease			
Larry R. and Kim M. Henthorn	Antero Resources Corporation	1/8+	0572/0349
G: BRC Appalachian Minerals I LLC Lease			
BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	1/8	0369/0300
BRC Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	0369/0784
Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc	Assignment	0378/0764
Statoil USA Onshore Properties Inc	SWN Exchange Titleholder LLC	Assignment	0470/0668
SWN Exchange Titleholder LLC	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
F: Waco Oil and Gas Co., Inc. Lease			
Waco Oil & Gas Co., Inc.	Antero Resources Corporation	1/8+	0579/0162
A: BRC Appalachian Minerals LLC Lease			00.00
BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	1/8	0369/0300
BRC Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	0369/0784
Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc	Assignment	0378/0764 0470/0668
Statoil USA Onshore Properties Inc	SWN Exchange Titleholder LLC	Assignment	0539/0239
SWN Exchange Titleholder LLC	EQT Production Company	Assignment	0663/0239
EQT Production Company	Antero Resources Corporation	RECEIVED ^{Assignment} Office of Oil and Gas	0003/0001
G: BRC Appalachian Minerals I LLC Lease			
BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	AUG 1 6 2022 ^{1/8} Assignment	0369/0300
BRC Working Interest Company LLC	Chesapeake Appalachia LLC	Āssignment	0369/0784
Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc	WV Department Assignment Environmental Protection Assignment	0378/0764
Statoil USA Onshore Properties Inc	SWN Exchange Titleholder LLC	Crivironmental Protection	0470/0668
SWN Exchange Titleholder LLC	EQT Production Company		0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001

CONTINUED ON NEXT PAGE

09/23/2022

Operator's Well Number Leap 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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- (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
A: BRC Appalachian Minerals I LLC Lease			
BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	1/8	0369/0300
BRC Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	0369/0784
Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc	Assignment	0378/0764
Statoil USA Onshore Properties Inc	SWN Exchange Titleholder LLC	Assignment	0470/0668
SWN Exchange Titleholder LLC	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
I: Antero Minerals, LLC Lease			
Antero Minerals, LLC	Antero Resources Corporation	1/8+	0067/0486
J: Larry F. Hughes Lease			
Larry F. Hughes	Antero Resources Corporation	1/8+	0529/0542
N: Gary A. Midcap, et ux Lease			
Gary A. Midcap, et ux	Antero Resources Corporation	1/8+	0070/0182
P: Ruth E. VanCamp Estate Lease			
The Estate of Ruth E. VanCamp by James D. VanCamp	Antero Resources Appalachian Corporation	1/8+	0404/0380
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0557/0430
R: Sara Ann Midcap Lease			
Sara Ann Midcap	Antero Resources Corporation	1/8+	0080/0659
T: Will E. Morris Heirs Trust Lease			
Will E. Morris heirs Trust	Antero Resources Corporation	1/8+	0080/0072
U: Gary A. Midcap, et ux Lease			
Gary A. Midcap, et ux	Antero Resources Corporation	1/8+	0070/0182
V: Lowmax R. Kunkel Lease			
Lowmax R. Kunkel	EQT Production Company	1/8+	0596/0048
EQT Production Company	Antero Resources Corporation	Christen of Oil and Gas	0663/0001
W: Joel Potts III Lease		ALIGIC	
Joel Potts, III	Antero Resources Corporation	1/8+	0568/0827
		WV Dei	
		Environmenta	

WW-6A1 (5/13) Operator's Well No. Leap 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 –

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- (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
X: Robert D. Wetzel Lease				
	Robert D. Wetzel	Antero Resources Corporation	1/8+	0076/0499
		Antero headerees corporation	A_0+	007070499

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

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

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

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

The applicant further acknowledges that any Office of Oil and Gas permit in no way or registering of Gilard Gas de necessary and further affirms that all fielded permits/approvals should be acquired from the appropriate authority before the affected activity scinitized.

Well Operator:	Antero Resources CorporationWV Department of		
By:		Im Veily	Environmental Protection
Its:	Senior VP of	of Land	

4709502818



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

August 11, 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: Leap Unit 1H & 2H Quadrangle: Porter Falls 7.5' Tyler County/Ellsworth District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Leap Unit 1H & 2H horizontal shallow well. As an authorized representative, I certify that Antero has the right to extract, produce or market the oil or gas for all leases through which the Leap Unit 1H & 2H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plats.

Sincerely,

Max Green VP Land

RECEIVED Office of Oil and Gas

AUG 1 6 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: 08/11/2022

API No. 47- 095	
Operator's Well No.	Leap Unit 1H
Well Pad Name: H	eintzman 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:	512400.69m
County:	Tyler	UTWINAD 65	Northing:	4377055.76m
District:	Elisworth	Public Road Acc	cess:	Elk Fork Rd
Quadrangle:	Porter Falls 7.5'	Generally used f	farm name:	Dennis & Clista Heintzman
Watershed:	Outlet Middle Island Creek			

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 have been completed by the applicant.

that the Operator has properly served the required parties with the following:	
*PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO	C RECEIVED/
SEISMIC ACTIVITY WAS CONDUCTED	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	RECEIVED/
NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	NOT REQUIRED
U WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION RECEIVED Office of Oil and Gas	RECEIVED
■ 5. PUBLIC NOTICE AUG 1 6 2022	RECEIVED
6. NOTICE OF APPLICATION WV Department of Environmental Protection	RECEIVED

Required Attachments:

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

Certification of Notice is hereby given:

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

Well Operator:	Antero Resources Corporation		Address: Facsimile: Email:	1615 Wynkoop Street Denver, CO 80202 303-357-7315 mstanton@anteroresources.com	
By:	Robert Odenthal Robert S. Odenthal				
Its:	VP of Drilling				
Telephone: 303-357-7310					
NO	DIANIER SHAL NOTARY PUBLIC STATE OF COLORADO DTARY ID 19994011871 MISSION EXPIRES 27-Apr-2024	Subscr	1.2	orn before me this 12 day of Aug	

My Commission Expires

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

2024

AUG 1 6 2022

WV Department of Environmental Protection WW-6A (9-13)

OPERATOR WELL NO. Leap Unit 1H Well Pad Name: Heintzman Pad

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 06/23/2022	Date Permit Application Filed:	08/12/2022
Notice of:		

7	PERMIT FOR A WELL WORK		FICATE OF APPROVAL FOR THE IRUCTION OF AN IMPOUNDMENT OR PIT
Del	ivery method pur	suant to West Virginia	Code § 22-6A-10(b)
	PERSONAL SERVICE	REGISTERED MAIL	METHOD OF DELIVERY THAT REQUIRES A 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: Dennis R. & Clista A. heintzman	Name: NO DECLARATIONS ON RECORD WITH COUNTY
Address: 980 Sand Gap Road	Address:
Pennsboro WV 26415-3051	
Name: Stefan L. & Alberta B. Smolski	COAL OPERATOR
Address: 510 Pittsburgh Avenue	COAL OPERATOR Office of Oil and Gas
Fairmont WV 26554-4162	
SURFACE OWNER(s) (Road and/or Other Disturba	nce) Address: $AUG \ 1 \ 6 \ 2022$
Name:	T SUBEACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
	Name: NO WATER WELLS WITHIN 2000' Environmental Protection
Name:	Address:
Address:	
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name:	Address:
Address:	
	*Please attach additional forms if necessary

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 gualified 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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

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 will draited within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or Withwashree hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet All Surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be intraduced 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)

Well Pad Name: Heintzman 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

WV Department of Environmental Protection

AUG 1 6 2022

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)

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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AUG 1 6 2022

WV Department of Environmental Protection

09/23/2022

WW-6A (8-13) API NO. 47- 09547.09502818

OPERATOR WELL NO. Leap Unit 1H Well Pad Name: Heintzman Pad

Notice is hereby given by:

Well Operator	Antero Resources Corporation	Robert S. Odenthal
Telephone: (3	03) 357-7310	
Email: 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 <u>depprivacyofficer@wv.gov</u>.

	DIANE BLAIR
	NOTARY PUBLIC
	STATE OF COLORADO
	NOTARY ID 19994011871
VAN	COMMISSION EXPIRES 27-Apr-2024

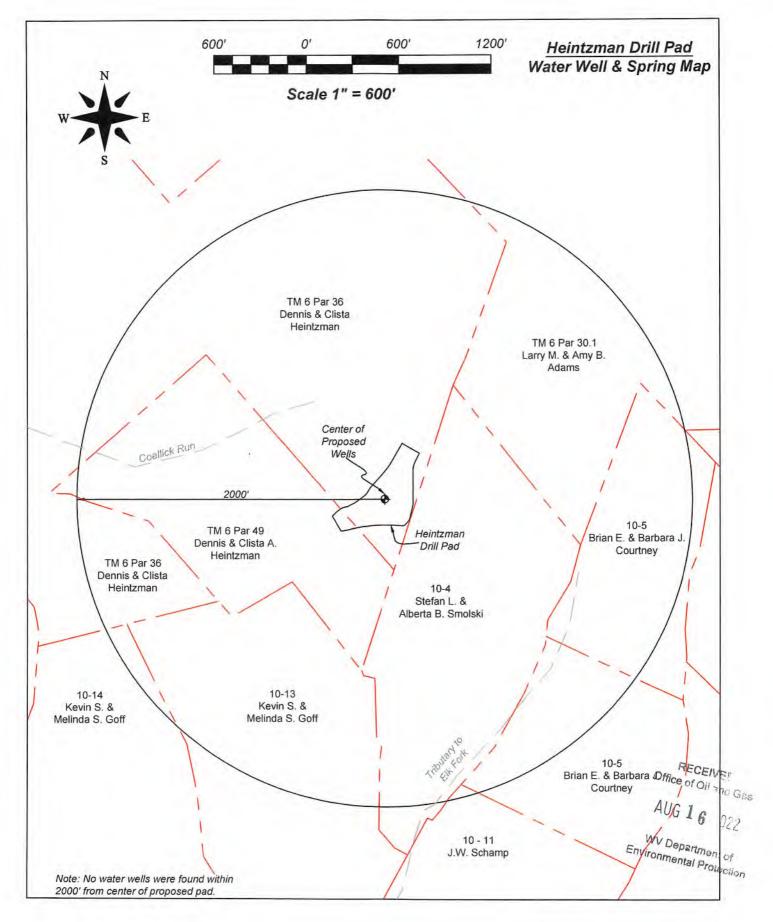
Subscribed and sworn before	e me this <u>12</u> day of <u>Au</u>	g <u>2027</u> .
Orounel	plair	Notary Public
My Commission Expires	27 Apr 2024	1

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WV Department of Environmental Protection

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09/23/2022

Heintzman Pad

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: 06/23/2022 Date Permit Application Filed: 08/12/2022

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:	Dennis R. & Clista A. Heintzman	/	Name:	Stefan L. & Alberta B. Smolski	/
ddress:	980 Sand Gap Road		Address:	510 Pittsburgh Avenue	
1.1.1.1.1.1.1.4	Pennsboro WV 26415-3051		1.12.20.000	Fairmont, WV 26554-4162	

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	LITMANIAD 02	Easting:	512400.69m	
County:	Tyler	UTM NAD 83	Northing:	4377055.76m	
District:	Elisworth	Public Road Acc	cess:	Elk Fork Rd	
Quadrangle:	Porter Falls 7.5	Generally used f	farm name:	Dennis Heintzman et al	
Watershed:	Outlet Middle Island Creek				

This Notice Shall Include:

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

Notice is hereby given by:

Well Operator:	Antero Resources Corporation	Authorized Representative:	Mallory Stanton
Address:	1615 Wynkoop St.	Address:	1615 Wynkoop St. AUG 1 Co
	Denver, CO 80202		Denver, CO 80202 6 2022
Telephone:	303-357-7310	Telephone:	303-357-7310 WV Depar
Email:	mstanton@anteroresources.com	Email:	mstanton@anteroresources.commental Protection
Facsimile:	303-357-7315	Facsimile:	303-357-7315 Totection

Oil and Gas Privacy Notice:

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

OF RECEIVE

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:
 08/12/2022

 Date Permit Application Filed:
 08/12/2022

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

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):

ennis R. & Clista A. Heintzman	/	Name:	Stefan L. & Alberta B. Smolski	/
80 Sand Gap Road		Address:	510 Pittsburgh Avenue	5
Pennsboro WV 26415-3051			Fairmont, WV 26554-4162	
18	30 Sand Gap Road	30 Sand Gap Road	30 Sand Gap Road Address:	30 Sand Gap Road Address: 510 Pittsburgh Avenue

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:

West Virginia	LITM NIAD 92	Easting:	512400.69m	
Tyler	UTMINAD 83	Northing:	4377055.76m	
Ellsworth	Public Road Acces	Public Road Access:		
Porter Falls 7.5'	Generally used far	m name:	Dennis & Clista Heintzman	
Outlet Middle Island Creek				
	Tyler Ellsworth Porter Falls 7.5'	Tyler UTM NAD 83 Ellsworth Public Road Acce Porter Falls 7.5' Generally used far	Tyler UTM NAD 83 Northing: Ellsworth Public Road Access: Porter Falls 7.5' Generally used farm name:	Tyler UTM NAD 83 Northing: 4377055.76m Ellsworth Public Road Access: Elk Fork Rd Porter Falls 7.5' Generally used farm name: Dennis & Clista Heintzman

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.defines.evel.

Well Operator:	Antero Resources Corporation	Address:	1615 Wynkoop Street	AUG 1 6 2022
Telephone:	(303) 357-7310		Denver, CO 80202	E WV Der-
Email:	mstanton@anteroresources.com	Facsimile:	303-357-7315	environmental a
				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.

4709502818



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

July 18, 2022

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

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 Heintzman Pad, Tyler County Leap Unit 1H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2017-0767 which has been issued to Antero Resources for access to the State Road for a well site located off Tyler County Route 11/6 SLS MP 0.33.

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

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WV Department of Environmental Protection

Cc: Diane Blair Antero Resources CH, OM, D-6 File

09/23/2022

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 Num	ber (CAS #)
1.	Fresh Water	7732-18-5	
	2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1	
	Ammonium Persulfate	7727-54-0	
	Anionic copolymer	Proprietary	
	Anionic polymer	Proprietary	
	BTEX Free Hydrotreated Heavy Naphtha	64742-48-9	
	Cellulase enzyme	(Proprietary)	
8. I	Demulsifier Base	(Proprietary)	
9. 1	Ethoxylated alcohol blend	Mixture	
10. 1	Ethoxylated Nonylphenol	68412-54-4	
11. I	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 (
	sopropyl 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 Surfactant	57-50-1	
	Suspending agent (solid)	68439-51-0 14808 co 7	
	Far bases, quinolone derivs, benzyl chloride-quarter	rnized 72480-60-7	
	Solvent Naptha, petroleum, heavy aliph		
	Soybean Oil, Me ester	64742-96-7 67784-80-9	
	Copolymer of Maleic and Acrylic Acid	52255-49-9	
	DETA Phosphonate	15827-60-8	D -
	lexamythylene Triamine Penta	34690-00-1	RECEIVED
	Phosphino Carboxylic acid polymer	71050-62-9	on on and o
	lexamethylene diamine penta	23605-74-5	AUG 1 6 2022
	2-Propenoic acid, polymer with 2 propenamide	9003-06-9	6 2022
	lexamethylene diamine penta (methylene phosph		
	Diethylene Glycol	111-46-6	Chvironmental Provident
	Methenamine	100-97-0	WV Dep⊋rtment of Environmental Protection
	Polyethylene polyamine	68603-67-8	
	Coco amine	61791-14-8	
45. 2	Propyn-1-olcompound with methyloxirane	38172-91-7	
	· · · · · ·		



LOTATION CUORDINATES: IENTYAMA (REEL) ACCESS ROAD 'A" ENTRANCE LATITUDE: 39.539804 LONGTUDE: -RO.887800 (NAD B3) LATITUDE: 39.539804 LONGTUDE: -RO.887802 (NAD 27) N 4376896.59 E 50840.55 (UTN ZONE IT METLES)

CENTROID OF PAD LATTUDE: 19.53105 LONGITUDE: -80.855716 (NAD 83) LATTUDE: 39.543027 LONGITUDE: -80.8556890 (NAD 27) N.437700244 E 516297.71 (UTM 20NE 17 MSTERS)

GENERAL DESCRIPTION: THE ACCESS ROADS). AND VELL PAD ARE BEING CONSTRUCTED TO AUD IN THE DEVELOPMENT OF MARCELLUS SHALE GAS VELLS

FLOODPLAIN NOTES: The proposed site is located within fema flood zone X^* fer pema flood map number 15409250045.

MISS UTILITY STATEMENT: INTER: RESULTS CONFORMED WELL NOTIFY MISS UTILITY OF WEST VIRCINIA FOR THE LOCATING OF UTILITIES FROM TO THE FROMET DESIGN. TICKET 1007CR0380. DX ADDITON, MISS UTILITY WILL BE CONTACTLE DY THE CONTACTORS PRORE TO THE TAKET OF CONSTRUCTORS FOR THIS FROME.

ENTRANCE PERMIT:

ANTERNATION CONTRELLE CONTRELL ANTERNA RESOLUCIÓN CONTRELLA CONTRELLA CONTRELA CONTR

ENVIRONMENTAL NOTES: STREM AND WETLAND DELINEATIONS VERE PERFORMED IN 2016 & 2019. BY ALLSTAR ECOLOGY TO REVIEW HIE STRE FOR WEIES AND METLANDE THAT ARE MOST LIKELY WITHIN THE REDULATION PLANNER OF THE U.S. ADAY COMPS OF INCINETES (20:AC2) AND/OF THA HIGT WITHOUT DELINEATON NUMBER AND WEIE DEFENDED BY ADATANG EVENCE (20:AC2) AND/OF THAT WITH THE ADD DELINEATON NUMBER AND WAS HEREARDD BY ADATANG EVENCE AND DELINARIZET HE REDULATOR OF THE REDULATION NUMBER AND METRICAND WITHOUT AND THAT AND AND AND ADATANTIC AND ADATANT METRICAND WITHOUT AND THAT AND ADATANT ADATANT METRICAND WITHOUT AND ADATANT ACCOUNT AND INCIDENT ADATANT METRICAND WITHOUT AND THAT AND ADATANT METRICAND WITHOUT AND ADATANT ACCOUNT AND THE ADATANT CONTINUATION OF THE DELINEATION SUBJECT ON ADATANT METRICAND WITHOUT AND THE ADATANT ACCOUNT ADATANT METRICAND WITHOUT AND THE ADATANT ACCOUNT AND ADATANT METRICAND WITH ADATANT ACCOUNT AND ADATANT METRICAND WITH AND AND ADATANT METRICAND WITH ADATANT ACCOUNT AND ADATANT METRICAND WITH ADA

<u>GEOTECHNICAL NOTES</u>: a subsubrace dovestication of the proposed site was performed by perneytiania soil & rock, nc. on march 19 - may 22 obje, and perimed february 19, 2020. The report pherabed by penneytiania soil & rock, nc. dated may 34, 2014, and reversed way 27, 2021, reflects the results of the subsubrace divestication. The information and recomberations contained the herder whe deside in the pherabation of direct plant and recomberations of the information investigation report of penneytaman and information as information. As infeder

	CHARLES E. COMPTON. III - UTILITY COORDINATOR
anna anan.	(304) 719-8449
OPERATOR: ANTERO RESOURCES CORPORATION	MARK HUTSON - LAND AGENT
535 WHITE OAKS BLVD.	CELL: (304) 689-8315
REIDGEPORT. WV 26230	CHIAL (1994) 000-0010
PHONE: (304) 842-4100	ENGINEER/SURVEYOR:
FAX (304) 842-4102	NAVITUS ENGINEERING, INC.
all a contract of the second sec	CYRUS S. KUMP. PE - PROJECT MANAGER/ENGINEED
ELI WACONER - ENVIRONMENTAL ENGINEER &	OFFICE: (688) 662 4185 CELL (540) 686-6747
RECULATORY MANAGER OFFICE: (304) 842-4068 CELL (304) 476-9770	(a) (the final and areas clear (nam) and that
OFFICE: (304) 845-4068 CEFT (304) 410-8110	ENVIRONMENTAL
DIANA HOFF- SVF OPERATIONS	ALLSTAR ECOLOGY, LLC
OFFICE: (303) 357-6904	RYAN L WARD - ENVIRONMENTAL SCIENTIST
	(866) 213-2668 CELL (304) 592-7477
AARON KUNZLER - CONSTRUCTION MANAGER	the second se
CELL (304) 842-4191	GEOTECHNICAL:
and the second se	PENNSYLVANIA SOIL & ROCK, INC.
ROBERT WIRKS - DESIGN MANAGER	CHRISTOPHER W. SAMIOS - PROJECT ENGINEER (412) 372-4000 CELL: (412) 560-0662
OFFICE: (304) 942-4100 CELL: (304) 627-7405	(415) 24S-4000 CRTT: (415) 298-0805
RESTRICTIONS NOTES: 1. VILERE ARE NO PERENNIAL STREAMS, LAKES, F THE WELL PAD AND LOB. THERE ARE WETLAND REMAIN UNDISTURBED.	S ADJACENT TO STOCKPILES WHICH WILL
2: THERE ARE NO ANTIFARLY PRODUCING TROUT PAD AND LOS 3: THERE ARE NO GROUNDWATER INTAKE ON PUT FEET OF THE WILL AND AND LOD 4: THERE ARE NO AFFARENT EXISTING WATER W FEET OF THE WILL(S) BUILD 5: THERE ARE NO CONCUMPTION FALLS 5: THERE ARE NO CONCUMPTION FALLS 5: THERE ARE NO CONCUMPTION FALLS 5: THERE ARE NO CONCUMPTION FALLS	NUC WATER SUPPLY FACILITIES WITHIN 1000 LLS OR DEVELOPED SPRINGS WITHIN 250 RES WITHIN 825 FEET OF THE CENTER OF

REPRODUCTION NOTE THESE PLANS WERE CREATED TO BE PLOTTED IN 32 THAT (ADDI D) PAPER HALP SCALE DRAWINGY AND ON 11757" (AND D) TAPER

THESE PLANS WERE LELATED FOU COLOR FLATTING AND NOT PERMODICTIONS IN GAAT SCALE ON COLOR MAY RESULT IN A LOSS OF WEDEDATION AND STOLED NOT EN USED FOR CONSTRUCTION FURINEES







(NOT TO SCALE)

DESIGN CERTIFICATION: THE BIANNES, CONTRACTION KOTES, AND HEFERENCE DAIGNARIE. ATACOMENCE WITH THE HEEN PREVANED IN ACCOMENCE WITH THE HEET VIGNAL CODE OF STATE RULES, DIVISION OF EXVIDENMENTAL PROTECTION, OFFICE OF OIL AND GAS CEN 35-8



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



Well Pad				1.06	
			1.06		
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	WW North NAD 27	NAD 27 Las & Long	UTM (METERS) 20NE 17	NAD 83 Lat & Long	
	8	Parmit	Hd Location	Statement of the local division of the local	
-	N-382769-41	LAT 39-32-34 MI50	N-437 1053 76	LAT 39-32-35 0903	
	E 1817848 16	LONG -80-51-21 0790	E 512400 88	LONG -83-51-20 4535	
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	E 1617683 09	1.0NC -80-81-20 9817	6 512402 87	LONG-89-51-20 3626	
-	N 382742.82	LAT 39-32-34 5543	N-4377047.73	LAT 30-32-34 8353	
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	E 1017005 10	LONG -80-51-20 8054	E 512407 24	LONG -63-51-20 1802	
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	E 1817673.52	LDM/3-80-51-20.7152	E.512409-42	LONG -80-51-20.0891	
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the ci)	N 382773 40	LAT 39-32-34 8529	N-4377056 112	LAT 30-32-36 1330	
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Unit 2H Normed Unit 1H

Unit 2H

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ENGINEERING

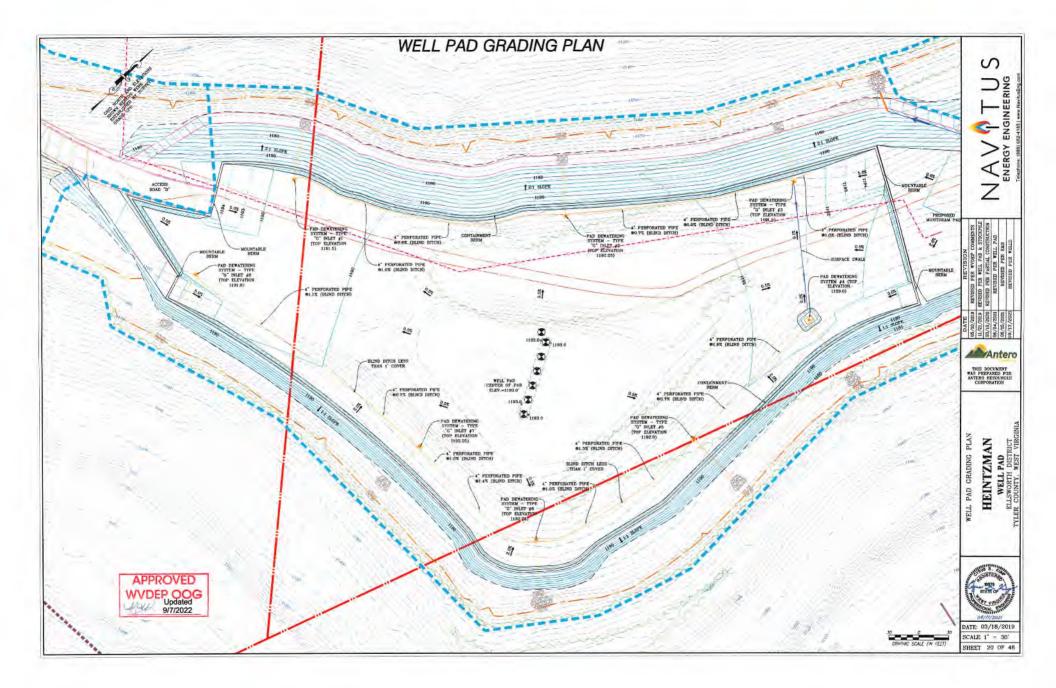
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REVLAT. DPR WORP COMMEN. J PR MELL P.O. 6 STOCK D PR MELL P.O. 6 STOCK OKTOR PR WILL P.O. UNUSCO PER WILL P.O. UNUSCO PER REL. P.O. UNUSCO PER REL. P.O.

REVISED PE EVISED PE REVIS





LOCATION COORDINATES: HEDRIZMAN (REL) ACCESS HOAD 'A' ENTRANCE LATTUDE: 39 S308HE LONGTUDE: -00.847889 (NAD 27) 43743845 (NAD 27) 43743845 0 E 55044045 (UTN 20NE 17 METERS)

CENTROID OF PAD LATITUDE: 38.943105 LONGITUDE -80.065716 (NAD 83) LATITUDE: 38.043027 LONGITUDE -80.065890 (NAD 27) N. 4377305.24 E 512397.71 (UTH ZONE 17 METERS)

GENERAL DESCRIPTION: THE ACCESS ROAD(S), AND WELL PAD ARE BEING CONSTRUCTED TO AND IN THE DEVELOPMENT OF MARCELLYS SHARE GAS WELLS.

ELOODPLAIN NOTES: THE PROPOSED STE IS LOCATED WITHIN FEMA FLOOD 20162 X* FER FEMA FLOOD MAP SUMBER FACESSORIES STATES

MISS UTILITY STATEMENT: Antro seconds comparing the northy miss utility of west virginity and the locating of antro seconds comparing the project define, ticket isorgades, in addition, miss utility will be contracted by the contactor field to the easy of constructions for this project.

ENTRANCE PERMIT:

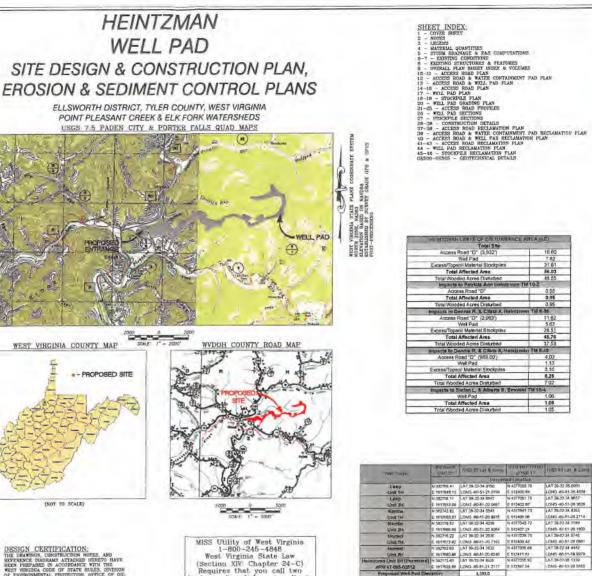
ANTERO RESOURCES CONFORMATION WEL, OFTAIN AN ENCROACHMENT PERMIT (FORM MM-109) FROM THE WEST VHEIMA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES

ENVIRONMENTAL NOTES: ENTRAM AND WITLAND DELINEATIONS WERE PERFORMED IN 2018 A 2018, IT ALISTAR ECOLOGY TO REVIEW THE SITE FOR WATERS AND WATERANDS HIAT ARE MOST LIKELY WITHIN THE REULILATORY PURPHER OF THE U.S. ARMY CORPS OF NORDHERSE (UZACZ) AND/OR THE WAT WARDIN IN EXAMINENT OF ENTROMMENTAL WAY CORPS OF NORDHERSE (UZACZ) AND/OR THE WAY WARDIN IN EXAMINENT OF ENTROMMENTAL WAY CORPS OF NORDHERSE (UZACZ) AND/OR THE WAY DEFENSED OF LAISTAR FOLIOLOGY AND SUMMARIZES THE RESILTS OF THE FLAD DOES NOT. IN ANY WAY, HEFRENSAT A JURNEUCTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATTERS AND WITLANDE WHICH MAY OR REGULATORS IT HE GAUGE OR THE FORMER I. IS STRONGTONED DOES NOT. IN ANY WAY, HEFRENSAT A JURNEUCTIONAL DETERMINATION OF THE LANDWARD LIMITS OF PARTERS AND WITLANDE WHICH HAV OR REGULATORS IT HE GAUGE OR THE FORMER I. IS STRONGTONED HERREN AND VIEWER AND THE REVELOPMENT BIT IN USACCION IT IN THE AND PARTERS AND WICH THE REVELOPMENT BIT IN USACCION IT IN THE AND PARTERS AND THE AND THE REVELOPMENT BIT IN USACCION IT IN THE AND HERREN AND THE REVELOPMENT IN THE REVELOPMENT BILL OFFAN THE APROPHENT DEFENSION ON THE PROPHENT DESCRIBED HERREN AND STRONG VIEWER FROM TO ANY PROPOSED HERREN FEMILES FORM TO ANY PROPOSED HERREN STRONGTON ANTER PROPHENAL AND/OR WITH REVELOPMENT AND STRUCTURE ON AND PROPOSED HERREN STRONGTON OF THE VELOPHICAL AND/OR WITH REVELOPMENT FOR AN PROPOSED HERREN FEMILES FORM TO ANY PROPOSED HERREN STRONGTON OF THE WAS, INCLUDING WAS HERREN AND STREAM CONSTRUCTION ON THE

GEOTECHNICAL NOTES: A SUBSURFACE DVISTIGATION OF THE PROPOSED SITE WAS PERFORMED BY PENNSTIVANIA 501. & ROCK. NC ON MARCH 19 - MAY 22, 2019, AND REVISED FEBRUARY 10, 5020. THE REPORT PERFARED BY PENNSTIVANIA 501. & ROCK INC. DATED MAY 34. 2019, AND REVISED MAY 27, 2021, REFLECTS THE RESOLUTE OF THE SUBSURFACE INVESTIGATION. THE INFORMATION AND RECOMMENDINGNO, DOING DATA THIS REPORT WERE LISED IN THE PERFARENCE AR ROCK DE FOR ADDITIONAL SUPERIOR MARCH RESOLUTION INFORMATION. REVENUE: A ROCK INC. DATED MAY 24. 2019, AND REVISED MAY 27, 2021, REFLECTS THE DESIDING OF THE SUBSURFACE INVESTIGATION OF THESE FLARS. PELARE REFLECT INTO MARCHENIA INFORMATION, REVENUE AND AND REVENUE AND REVENUE AND REVENUE AND REVENUE AND REVENUE AND REVENUE INFORMATION, REVENUE AND REVENUE AND REVENUE AND REVENUE AND REVENUE AND REVENUE AND REVENUE INFORMATION, REVENUE AND REVENUE AND

and a second secon		
PROJECT CONTACTS:	CHARLES E. COMPTON, III - UTILITY COORDINATOR (304) 717-6449	
OPERATOR: ANTERO RESOURCES CORPORATION	MARK HUTSON - LAND AGENT	
ANTERD RESOURCES CORPORATION	CRIA H01508 - LAND MODRI CRIA: (304) 689-6315	
BRIDGEPORT, WY 26320	CELLE (SON) GOD-HOLD	WEST VIRGIN
PHONE: (304) 842-4100	ENGINEER/SURVEYOR:	1
FAX: (304) 842-4102	NAVITUS ENGINEERING, INC.	
ELI WAGONER - ENVIRONMENTAL ENGINEER &	CYRUS S. KUMP, PE - PROJECT MANAGER/ENGINEER	<u> </u>
REGULATORY MANAGER	OFFICE (888) 662-4165 CELL: (540) 686-8747) <u></u>
FFICE: (304) 842-4088 CELL (304) 476-9770		Just
	ENVIRONMENTAL:	(ma
HANA HOFF- SVP OFERATIONS	ALLSTAR ECOLOGY, LLC RYAN L. WARD - ENVERONMENTAL SCIENTIST	(marine)
FFICE: (303) 307-6904	(BAB) 213-2086 CELL: (304) 682-7477	1-11-
AARON KUNZLER - CONSTRUCTION MANAGER	transh seen soon came tendet (1965-1411)	1-1
SKL: (304) 642-4191	GEOTECHNICAL:	and the
the state of the s	DENNERT VANDA SOIL & POLY INC	-7-+
ROBERT WIRKS - DESIGN MANAGER SFFICE: (304) 842-4100 CELL: (304) 527-7405	CHRISTOPHER W. SAMIOS - PROJECT ENGINEER	- A shart
SFFICE: (304) 842-4100 CELL: (304) 527-7405	(412) 372-4000 CELL (412) 589-0682	The second
		1-51-17-1
RESTRICTIONS NOTES:		MI-M-Jack
THERE ARE NO PERFINIAL STREAMS, LAKES, P.	ONDS, OR RESERVOIRS WITHIN 100 FEET OF	1546-121
THE WELL PAD AND LOD THERE ARE WETLAND	S ADJACENT TO STOCKPILES WHICH WILL	I have been theme to
REMAIN UNDISTURBED. THERE ARE NO NATURALLY PRODUCING TROUT	STREAMS WITHIN 300 FEET OF THE WELL.	The faith
PAD AND LOD		15200-1-
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FEET OF THE WELL PAD AND LOD.	the state second company southing rates	17-147-
THERE ARE NO APPARENT EXISTING WATER WE	1% OK DEALTONED SUJUMPS WILDLE ADD	
FEST OF THE WELL(S) BEING DRILLED. THERE ARE NO OCCUPIED DWELLING STRUCTUR	PS WITTEN ASK WERT OF THE CENTER OF	a ser
THE WELL PAD		
THERE ARE NO AGRICULTURAL BUILDINGS LARG	ER THAN 2,500 SQUARE FEST WITHIN 825	(NOT -
FEET OF THE CENTER OF THE WELL PAD		truck .
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REPRODUCTIO	IN NOTE	THE DRAWINGS, CONST
THESE FLAMS WERE CREATED TO DE T	LOTTEL DN 227274" (ASIS D)	REFERENCE DIAGRAMS
PAYER HALF STALF DRAWINGS ARE	DN 11 TIT (ANSI B) PAPER	BEEN PREPARED IN AC
		WEST VIRGINIA CODE C OF ENVIRONMENTAL PR
THESE PLANS NERE CREATED FOR	COLDR. POOTTING AND ANY	AND GAS CRS 35-8.

REPRODUCTIONS IN CRAY SCALE ON COLDN MAY RESULT ON A LOSS OF MUNIMATION AND SHOULD NOT BE USED FOR CONSTRUCTION PERFORMS



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DATE D0/10/2019 11/21/2019 03/10/2020 06/04/2021 06/15/2021 06/15/2021

Antero

THIS DOCUMENT WAS PREPARED FOR: ANTERD HESOURCES CORPORATION

HEINTZMAN

DATE: 03/18/2019 SCALE: AS SHOWN SHEET 1 OF 45

8/1/1/22

Stephen Mig

COVER SHEET

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RCT

WELL PAD ELLSWORTH DISTR

TICATION: TRUCTION NOTES, AND ATTACHED HERETO HAVE CCORDANCE WITH THE OF STATE RULES DIVISION ROTECTION, OFFICE OF OIL

Vest Virginia State Law (Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia.

IT'S THE LAW!