

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Wednesday, March 2, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit approval for BALDY UNIT 1H

47-103-03478-00-00

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.

Operator's Well Number: BALDY UNIT 1H

Farm Name: MARGARET LANCASTER

James A. Martin-

U.S. WELL NUMBER: 47-103-03478-00-00

Horizontal 6A New Drill Date Issued: 3/2/2022

API Number:	

PERMIT CONDITIONS

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

CONDITIONS

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

API Number:	

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

API NO. 47- 103	_ 03478
OPERATOR V	VELL NO. Baldy Unit 1H
Well Pad Na	me: Red Lady Pad

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

1) Well Operator: Antero R	esources	Corpora	1 494507062	103-Wetzel	Green	Porter Falls 7.5'
A Little for the same			Operator ID	County	District	Quadrangle
2) Operator's Well Number:	Baldy Unit	1H	Well Pa	nd Name: Red	Lady Pad	
3) Farm Name/Surface Owne	er: Margar	et Lanca	ster Public Ro	ad Access: We	tzel Tyler	Ridge Rd
4) Elevation, current ground:	1237'	E	levation, proposed	l post-constructi	ion: ~120	6'
5) Well Type (a) Gas X	A .	_ Oil	Und	derground Stora	ge	
Other						
	Shallow	X	Deep	-		
	Horizontal	X			90	8 3/1/2022
6) Existing Pad: Yes or No	No				0	
7) Proposed Target Formation						
Marcellus Shale: 7300' TVD), Anticipate	d Thickne	ess- 55 feet, Assoc	iated Pressure-2	2850#	
8) Proposed Total Vertical De	epth: 730	O' TVD				
) Formation at Total Vertica		Marcellus	3			
10) Proposed Total Measured	Depth:	11,200'				
11) Proposed Horizontal Leg	Length:	2730.5'				
12) Approximate Fresh Wate	r Strata De	pths:	33', 283', 831	'		
13) Method to Determine Fre	sh Water D	epths:	095-02177, 095-02104 Offse	et well records. Depths ha	ave been adjuste	d according to surface elevation
(4) Approximate Saltwater D	epths: 15	92'				
15) Approximate Coal Seam	Depths: 8	51'				
16) Approximate Depth to Po	ssible Voi	d (coal m	ine, karst, other):	None Anticipa	ted	
17) Does Proposed well locat directly overlying or adjacent			ms Yes	No	X	
(a) If Yes, provide Mine Inf	o: Name:					
	Depth	_				
	Seam:				Offic	RECEIVED e of Oil and Gas
	Owner	:			MA	AR 0 1 2022
	000000000000000000000000000000000000000	-			-107	# 10 - 52 W 10 70 FT

WV Department of Environmental Protection

API NO. 47-103 - 03478

OPERATOR WELL NO. Baldy Unit 1H

Well Pad Name: Red Lady Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	79#	80'	80'	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J/K-55	54.5#	881'	881'	CTS, 557Cu. Ft.
Coal	9-5/8"	New	J-/K55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110CY	20#	11,200'	11,200'	CTS, 1900 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

JC8 3/1/2022

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.375"	2250	50	Class A	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	14,360	2500	Class G/H	~1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

Kind:	N/A	
Sizes:	N/A	
Depths Set:	N/A	RECEIVED Office of Oil and Gas

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WV Department of Environmental Protection WW-6B (10/14) API NO. 47- 103 - 03478

OPERATOR WELL NO. Baldy Unit 1H

Well Pad Name: Red Lady 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 JCB 3/1/2022

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 51.15 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 9.42 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

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

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

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

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

Conductor: no additives, Class A cement.

Surface: Class A cement with 2-3% calcium chloride and 1/4 lb of flake Intermediate: Class A cement with 1/4 lb of flake, 5 gallons of clay treat

Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51 Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

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*Note: Attach additional sheets as needed.

WW-9 (4/16)

API Number 47 - 103 Operator's Well No. Baldy Unit 1H

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

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FLUIDS/ CUTTING	S DISPOSAL & RECLAMATION P	LAN FEB 1 4 2022
Operator Name Antero Resources Corporation	OP Code	494507062 WV Department of
Watershed (HUC 10) Fishing Creek	Quadrangle Porter Falls	
Do you anticipate using more than 5,000 bbls of water to Will a pit be used? Yes No	o complete the proposed well work?	Yes No No
If so, please describe anticipated pit waste:	o pit will be used at this site (Onling and Flowback Fluids will be at	ored in tanks. Cuttings will be tanked and hauled off site.)
Will a synthetic liner be used in the pit? Yes	No ✓ If so, what mi	.? N/A
Proposed Disposal Method For Treated Pit Wa	stes:	
Land Application		
	Permit Number *UIC Permit # will be	provided on Form WR-34
	permitted well locations when applicable. API# v	
Off Site Disposal (Supply fo	WV010	estern Landfill Permit #SWF-1025/ 09410
Will be die and the desired with Ver		Co Landfill Permit #SWF-1021
Will closed loop system be used? If so, describe: Yes,		Surface - Air/Freshwater, intermediate
Drilling medium anticipated for this well (vertical and h	orizontal)? Air, freshwater, oil based	etc. Dust/stiff Feam, Production - Water Based Mud
-If oil based, what type? Synthetic, petroleum,	etc. Synthetic	
Additives to be used in drilling medium? Please See At	tachment	
Drill cuttings disposal method? Leave in pit, landfill, re	moved 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, sawdus	n) N/A
	dowfill Landfill (Permit #SWF-1032-98), Northwest	The second section of the second
	el Co Landfill (Permit #SWF-1021)	,
Permittee shall provide written notice to the Office of O West Virginia solid waste facility. The notice shall be p where it was properly disposed.		
I certify that I understand and agree to the term on August 1, 2005, by the Office of Oil and Gas of the provisions of the permit are enforceable by law. Viola law or regulation can lead to enforcement action. I certify under penalty of law that I have pe application form and all attachments thereto and the obtaining the information, I believe that the informat penalties for submitting false information, including the Company Official Signature Company Official Title Director of Environmental & Reg	West Virginia Department of Environ tions of any term or condition of the resonally examined and am familiar t, based on my inquiry of those ir on is true, accurate, and complete. possibility of fine or imprisonment.	mental Protection. I understand that the general permit and/or other applicable with the information submitted on this dividuals immediately responsible for
	yof February,	
Willene Slav	No	ary Public DIANE BLAIR NOTARY PUBLIC
My commission expires 27 Apr 2		STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024 03/04/2022

Form WW-9 Operator's Well No. Baldy Unit 1H Antero Resources Corporation Proposed Revegetation Treatment: Acres Disturbed 51.15 acres Prevegetation pH Lime 2-4 Tons/acre or to correct to pH 6.5 Office of OF 5 Gas Hay or straw or Wood Fiber (will be used where needed) FEB 14 2022 Fertilizer amount 500 lbs/acre 2-3 Mulch Tons/acre Wy Department of Access Road (1.12 acres) + Well Pad Access Road (2.43 acres) + Water Offload Access (7.28 acres) + Well Pad (9.42 a Environmental) 7 1019Ction scres) Topsoil/Stripping Pile (6.63 acres) + Old Staging Area (10.61 acres) + Staging Area (2.18 acres) + Spoil Pile (1.31 acres) = 51.15 Acres Seed Mixtures Temporary Permanent Seed Type lbs/acre Seed Type lbs/acre Annual Ryegrass Crownvetch 10-15 40 Tall Fescue Field Bromegrass 40 30 See attached Table IV-3 for additional seed type (Red Lady Pad Design) See attached Table IV-4A for additional seed type (Red Lady Pad Design) *or type of grass seed requested by surface owner *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. Bugan Herr Plan Approved by: Comments:

Date: 2-10-22

Title: Inspector

) Yes

Field Reviewed?

03/	'04	/20)22

Form WW-9 Additives Attachment

SURFACE INTERVAL

- 1. Fresh Water
- 2. Soap -Foamer AC
- 3. Air

INTERMEDIATE INTERVAL

STIFF FOAM RECIPE:

- 1) 1 ppb Soda Ash / Sodium Carbonate-Alkalinity Control Agent
- 2) 1 ppb Conqor 404 (11.76 ppg) / Corrosion Inhibitor
- 3) 4 ppb KLA-Gard (9.17 ppg) / Amine Acid Complex-Shale Stabilizer
- 4) 1ppb Mil Pac R / Sodium Carboxymethylcellulose-Filtration Control Agent
- 5) 12 ppb KCL / Potassium Chloride-inorganic Salt
- 6) Fresh Water 80 bbls
- 7) Air

PRODUCTION INTERVAL

1. Alpha 1655

Salt Inhibitor

2. Mil-Carb

Calcium Carbonate

3. Cottonseed Hulls

Cellulose-Cottonseed Pellets - LCM

4. Mil-Seal

Vegetable, Cotton & Cellulose-Based Fiber Blend - LCM

5. Clay-Trol

Amine Acid Complex – Shale Stabilizer

6. Xan-Plex

Viscosifier For Water Based Muds

7. Mil-Pac (All Grades)

Sodium Carboxymethylcellulose – Filtration Control Agent

8. New Drill

Anionic Polyacrylamide Copolymer Emulsion – Shale Stabilizer

9. Caustic Soda

Sodium Hydroxide – Alkalinity Control

10. Mil-Lime

Calcium Hydroxide - Lime

11. LD-9

Polyether Polyol – Drilling Fluid Defoamer

12. Mil Mica

Hydro-Biotite Mica - LCM

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WV Departure Environmental Protection 13. Escaid 110

Drilling Fluild Solvent - Aliphatic Hydrocarbon

14. Ligco

Highly Oxidized Leonardite - Filteration Control Agent

15. Super Sweep

Polypropylene - Hole Cleaning Agent

16. Sulfatrol K

Drilling Fluid Additive - Sulfonated Asphalt Residuum

17. Sodium Chloride, Anhydrous

Inorganic Salt

18. D-D

Drilling Detergent - Surfactant

19. Terra-Rate

Organic Surfactant Blend

20. W.O. Defoam

Alcohol-Based Defoamer

21. Perma-Lose HT

Fluid Loss Reducer For Water-Based Muds

22. Xan-Plex D

Polysaccharide Polymer – Drilling Fluid Viscosifier

23. Walnut Shells

Ground Cellulosic Material - Ground Walnut Shells - LCM

24. Mil-Graphite

Natural Graphite - LCM

25. Mil Bar

Barite - Weighting Agent

26. X-Cide 102

Biocide

27. Soda Ash

Sodium Carbonate – Alkalinity Control Agent

28. Clay Trol

Amine Acid complex - Shale Stabilizer

29. Sulfatrol

Sulfonated Asphalt – Shale Control Additive

30. Xanvis

Viscosifier For Water-Based Muds

31. Milstarch

Starch - Fluid Loss Reducer For Water Based Muds

32. Mil-Lube

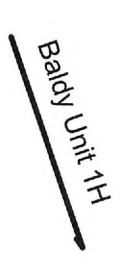
Drilling Fluid Lubricant

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Baldy Unit 1H - AOR



No Wells of Interest REMARKS

December 28, 2021

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WV Department of Environmental Protection

03/04/2022



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Wy Department of Environmental Protection

911 Address 9737 Wetzel Tyler Rd. Reader, WV 26167

Well Site Safety Plan Antero Resources

Bugan Han 2-10-22

Well Name:

Red Lady Unit 5H, Baldy Unit 1H-3H and Cavatica Unit

1H & 2H

Pad Location: RED LADY PAD

Wetzel County/Green District

GPS Coordinates:

Entrance - Lat 39.25280"/Long -80.762570" (NAD83) Pad Center - Lat 39.526248"/Long -80.7618" (NAD83)

Driving Directions:

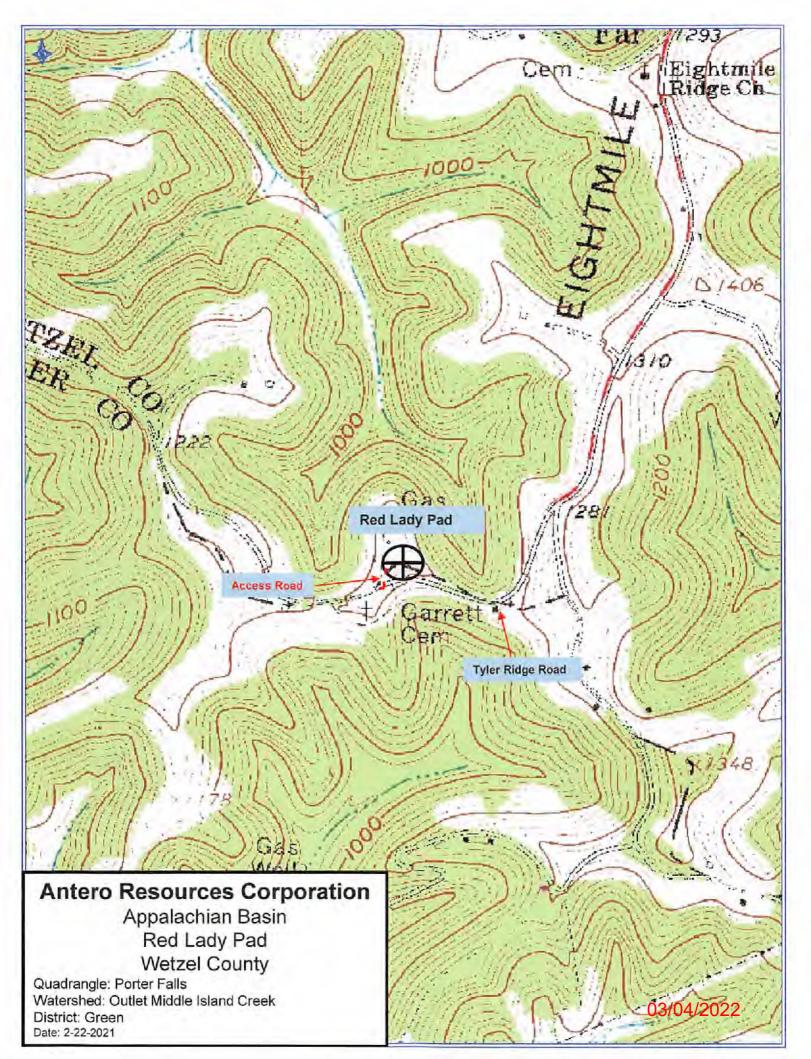
From Middlebourne: Head NE onto WV-18 N/Main St. toward Court St./Dodd St. for 3.8 miles. Turn right onto Church Dr. for 302 ft. Turn right onto Elk Fork Rd. for 9.6 miles. Turn left onto Wetzel Tyler Ridge Rd. for 0.6 miles. Turn left to stay on Wetzel Tyler Ridge Rd. for 0.3 miles. Access road will be on your right.

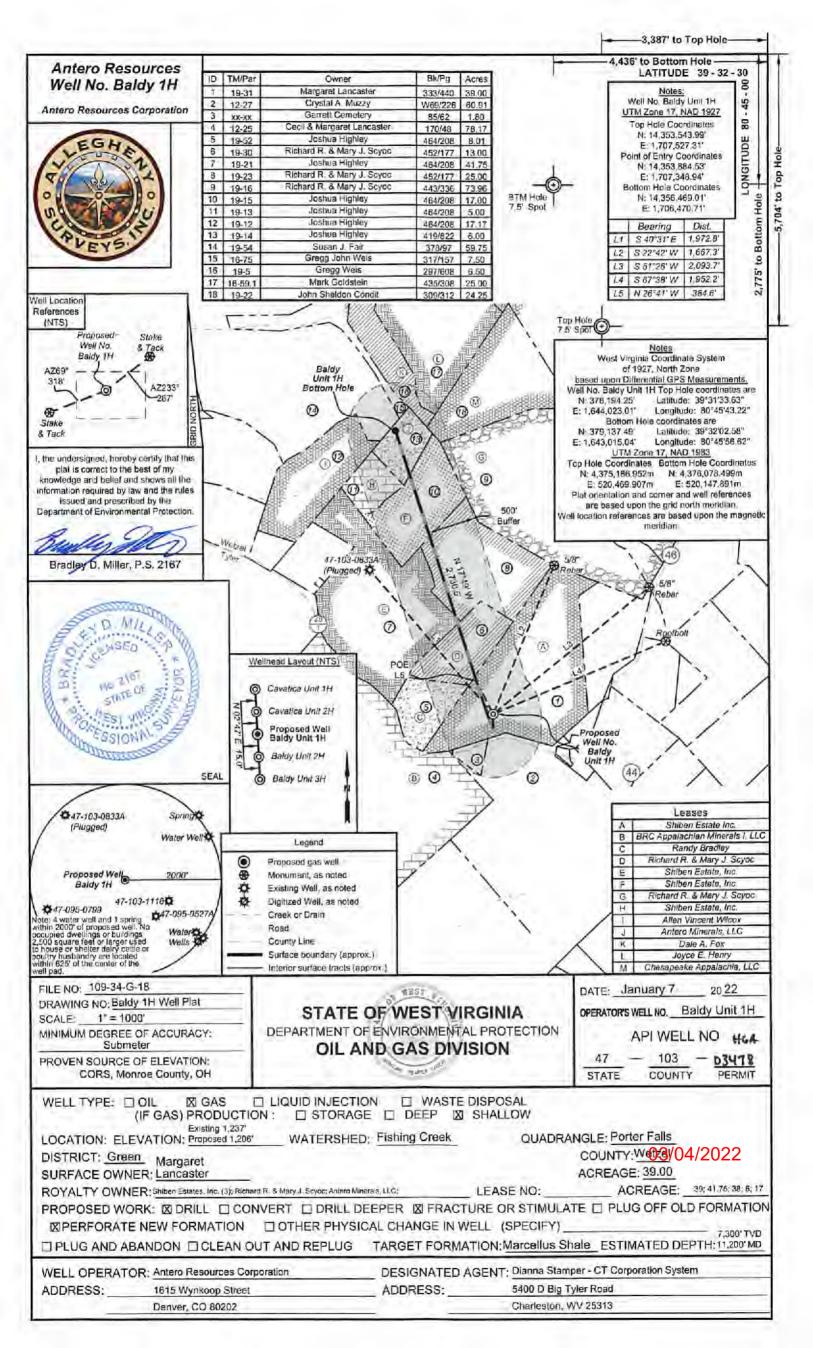
Alternate Route:

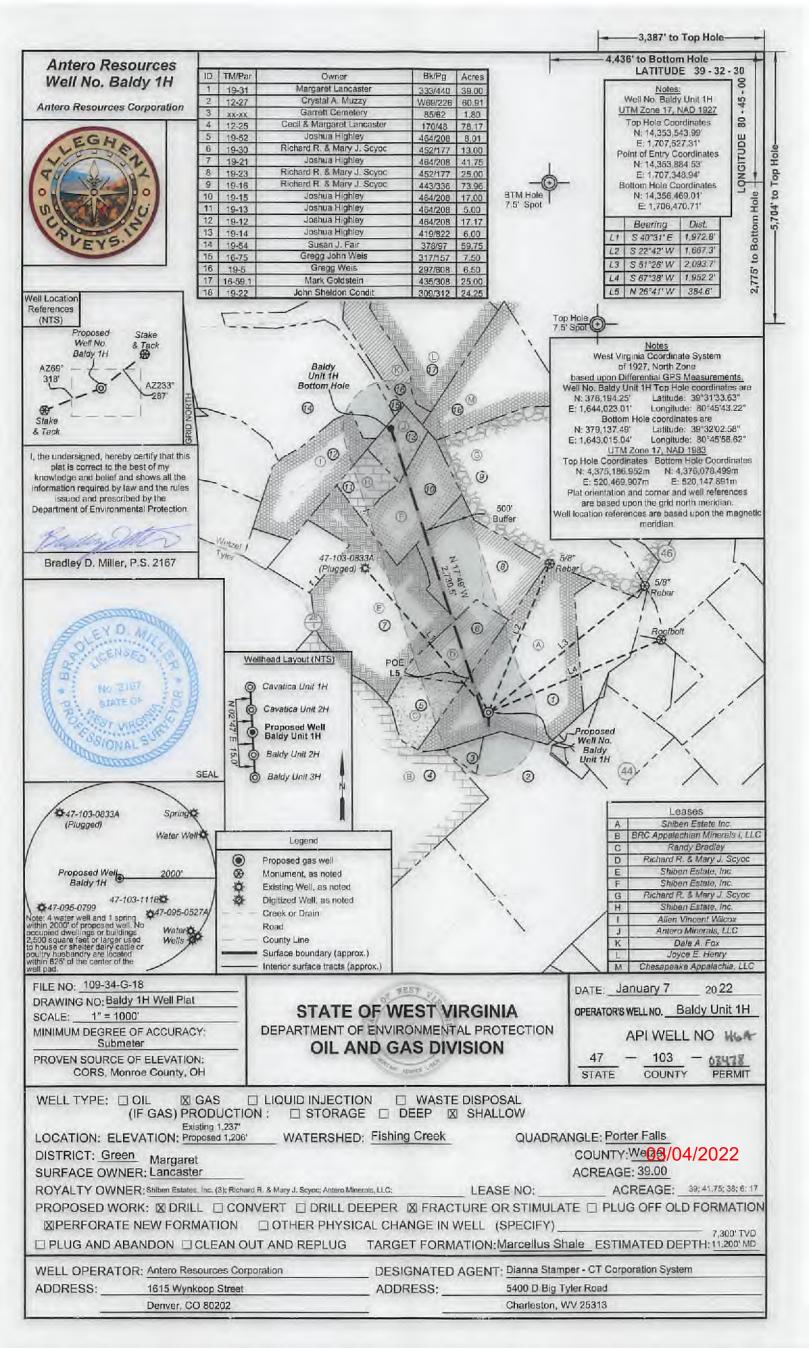
From Reader: Head NW onto Border Lane toward Old Mexico Rd. for 16 ft. Take a sharp left onto Rd 40/2 for 0.3 miles. Continue onto 8 Mile Rd. for 4.0 miles. Slight right onto Wetzel Tyler Ridge Rd. for 0.3 miles. Access road will be on your right.

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

1







WW-6A	1
(5/13)	

Operator's	Well No.	Baldy Unit 1H	

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

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

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

	Lease Name or					
	Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	
1	Antero Minerals, LLC Lease	•				
		Antero Minerais, LLC	Antero Resources Corporation	1/8+	250A/0783	

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

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

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

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

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

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

Well Operator:	Antero Resources Corporation	IAN 27 2022
By:	Tim Rady (Ledy	
Its:	VP of Land	WV Departing 1 to Environmental Protection

Page 1 of <u>1</u>

Operator's Well Number Baldy 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	Shiben Estates LLC Lease Shiben Estates LLC	Antero Resources Corporation	1/8+	255A/0681
D	Richard R. & Mary J. Scyoc Lease Richard R. Scyoc & Mary J. Scyoc	Antero Resources Corporation	1/8+	179A/0613
E	Shiben Estates LLC Lease Shiben Estates LLC	Antero Resources Corporation	1/8+	265A/0235
D	Richard R. & Mary J. Scyoc Lease Richard R. Scyoc & Mary J. Scyoc	Antero Resources Corporation	1/8+	179A/0613
F	Shiben Estates LLC Lease Shiben Estates LLC	Antero Resources Corporation	1/8+	265A/0251

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^{*}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.



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

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

RE: Baldy Unit 1H, 2H & 3H and Cavatica Unit 1H & 2H Wells

Quadrangle: Porter Falls 7.5'

Wetzel County/Green District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following applications for new well work permits for the Baldy Unit 1H, 2H & 3H and Cavatica Unit 1H & 2H horizontal shallow wells. As an authorized representative, I certify that Antero has the right to extract, produce or market the oil or gas for all leases through which the Baldy Unit 1H, 2H & 3H and Cavatica Unit 1H & 2H wells horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Senior Landman

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

Date of Notic	e Certification: 01/25/2022	API No. 47	7- 103 -	
		Operator's	Well No. Baldy	Unit 1H
		Well Pad N	Name: Red Lad	y Pad
Notice has b				
Pursuant to th	e provisions in West Virginia Code §	22-6A, the Operator has provided the red	quired parties w	with the Notice Forms listed
	tract of land as follows:	.		
State:	West Virginia	UTM NAD 83 Easting:	520469.91m	· · · · · · · · · · · · · · · · · · ·
County: District:	Wetzel Green	Northing:	4375186.95m	
Quadrangle:	Porter Falls 7.5'	Public Road Access: Generally used farm name:	Wetzel Tyler Ridg Margaret Lancast	
Watershed:	Fishing Creek	Generally used farm fiamle:	Walgalet Lancast	
watersneu.	1 Simily Oreck			
it has provide information re of giving the requirements Virginia Code	ed the owners of the surface described equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen o	hall contain the following information: (1) bed in subdivisions (1), (2) and (4), subsection sixteen of this article; (ii) that the rervey pursuant to subsection (a), section if this article were waived in writing by ender proof of and certify to the secretary it.	section (b), sec quirement was ten of this arti- the surface ow	ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wher; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the require ECK ALL THAT APPLY	erator has attached proof to this Notice C d parties with the following:	ertification	OOG OFFICE USE ONLY
☐ 1. NO	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUC		☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	'EY or 🔳 NO PLAT SURVEY WAS C	ONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAUNOTICE OF ENTRY FOR PLAT SURVIVAS CONDUCTED or		☐ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY SURFA (PLEASE ATTACH)	CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION			□ RECEIVED
■ 5. PUE	BLIC NOTICE		Oil and Gas	☐ RECEIVED
■ 6. NO	TICE OF APPLICATION		27 2022	□ RECEIVED
		WV De	ental Protection	

Required Attachments:

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

By:

Certification of Notice is hereby given:

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

Well Operator: Antero Resources Corporation

Diana Hoff Diana C

Its: Senior VP of Operations

Telephone: 303-357-7310

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Email: mstanton@anteroresources.com

DIANE BLAIR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024 Subscribed and sworn before me this 25 day of Jan 2022.

JaneBlair

Notary Public

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.

Office of On a Cons

JAN 27 2012

Environmental Protection

API NO. 47- 103 OPERATOR WELL NO. Baldy Unit 1H
Well Pad Name: Red Lady Pad

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

Noti	ce Time Require	ment: notice shall be	e provided no later tha	n the filing date of permit application.	
	of Notice: <u>1/26/20</u> ce of:	Date Permit A	pplication Filed: 1/26/	2022	
V	PERMIT FOR A WELL WORK		ERTIFICATE OF APP ONSTRUCTION OF A	ROVAL FOR THE AN IMPOUNDMENT OR PIT	
Deli	very method pur	suant to West Virgi	inia Code § 22-6A-10	(b)	
	PERSONAL SERVICE	☐ REGISTERI MAIL		OD OF DELIVERY THAT REQUIRES A PT OR SIGNATURE CONFIRMATION	
regis sedin the si oil ar description desc	tered mail or by an ment control plan re arface of the tract of d gas leasehold be ribed in the erosion ator or lessee, in the coal seams; (4) The work, if the surfact undment or pit as a water well, spring de water for constant osed well work act exciton (b) of this section did the sheriff re sion of this article of R. § 35-8-5.7.a re	by method of delivery equired by section several on which the well is of eing developed by the in and sediment control in event the tract of land the owners of record of e tract is to be used for described in section in a gor water supply sour in the control of the control in	that requires a receipt of yen of this article, and the responsed to be local proposed well work, if I plan submitted pursuant on which the well professed that the placement, construine of this article; (5) A preceducted within one of the domestic animals; and (c)(1) If more than three on the lands, the applicant ed pursuant to section ede to a lien holder is not the operator shall also proposed to the proposed to the operator shall also proposed to the proposed to the operator shall also proposed to the proposed to the operator shall also proposed to the proposed to the operator shall also proposed to the proposed	as required by this article shall deliver, by personal sur signature confirmation, copies of the application, the well plat to each of the following persons: (1) The ceted; (2) The owners of record of the surface tract or to the surface tract is to be used for roads or other land on to subsection (c), section seven of this article; (3) To oposed to be drilled is located [sic] is known to be uncertooyer to be used for land gas leasehold being developed action, enlargement, alteration, repair, removal or abaumy surface owner or water purveyor who is known to shousand five hundred feet of the center of the well pad (6) The operator of any natural gas storage field withing tenants in common or other co-owners of interests detenants in common or other co-owners of interests detenants.	e erosion and owners of record of acts overlying the disturbance as he coal owner, derlain by one or d by the proposed indonment of any the applicant to d which is used to n which the escribed in lescribed in the twithstanding any downer, W. Va.
ØΑ	pplication Notice	e 🛭 WSSP Notice	☑ E&S Plan Notice	☑ Well Plat Notice is hereby provided to:	
Nam	RFACE OWNER e: Margaret Lancas		/	COAL OWNER OR LESSEE Name: NO DECLARATIONS ON RECORD WITH COUNTY	
Addı	Reader, WV 261	67-0019		Address:	
Nam Addı				COAL OPERATOR Name: NO DECLARATIONS ON RECORD WITH COUNTY Address:	
		R(s) (Road and/or Ot	her Disturbance)		Office of Oil and Gas
	e: Margaret Lancas ess: PO Box 19	ler	1	☑ WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, jSPRING OR OTHER WATER SUPPLY SOURCE	JAN 2 7 2022
Nam	Reader, WV 2616			Name: NO WELLS WITHIN 1500	
Addı	ress:			Address:	WV Department of Environmental Protection
□SU	RFACE OWNER	R(s) (Impoundments	or Pits)	OPERATOR OF ANY NATURAL GAS STOR Name:Address:	
Addı	ress:			*Please attach additional forms if necessary	

APINO 47 10 0 3 0 3 4 7 OPERATOR WELL NO. Baldy Unit 1H Well Pad Name: Red Lacy Pad

Notice is hereby given:

Office of Cit and Gas 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 of the control of the application; (2) the erosion and sediment control of the application; (2) the erosion and sediment control of the application; (2) the erosion and sediment control of the application; (2) the erosion and sediment control of the application; (3) the erosion and sediment control of the application; (4) the erosion and sediment control of the application; (5) the erosion and sediment control of the application; (6) the erosion and sediment control of the application; (6) the erosion and sediment control of the application; (7) the erosion and sediment control of the application; (8) the erosion and sediment control of the application; (8) the erosion and sediment control of the application; (9) the erosion and sediment control of the application; (1) the erosion and sediment control of the application; (1) the erosion and sediment control of the application; (1) the erosion and sediment control of the application; (1) the erosion and sediment control of the application; (1) the erosion and sediment control of the application; (2) the erosion and sediment control of the application; (3) the erosion and sediment control of the application and the ap plan required by section seven of this article; and (3) the well plat.

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

Pursuant to W. Va. Code R. § 35-8-5,7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may. in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items WW-6A (8-13) API NO. 47-703 1 0 3 0 3 4 7 8
OPERATOR WELL NO. Baldy Unit 1H

Well Pad Name: Red Lady 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 the location or construction of the applicant's proposed well work to the Secretary at:

Office of Oil and Gas

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

JAN 27 2022

WV Department of Environmental Protection

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WW-6A (8-13) API NO. 47- 103 1 0 3 0 3 4 7 8

OPERATOR WELL NO. Baldy Unit 1H
Well Pad Name: Red Lady Ped

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

Office of Oil and Gas

JAN 27 2022

WV Department of Environmental Protection WW-6A (8-13) API NO. 47-4108 1 0 3 0 3 4 7 8
OPERATOR WELL NO. Baldy Unit 1H

Well Pad Name: Red Lady Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7310 Diana
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 depprivacyofficer@wv.gov.

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

Subscribed and sworn before me this 26 day of Jan, 2622.

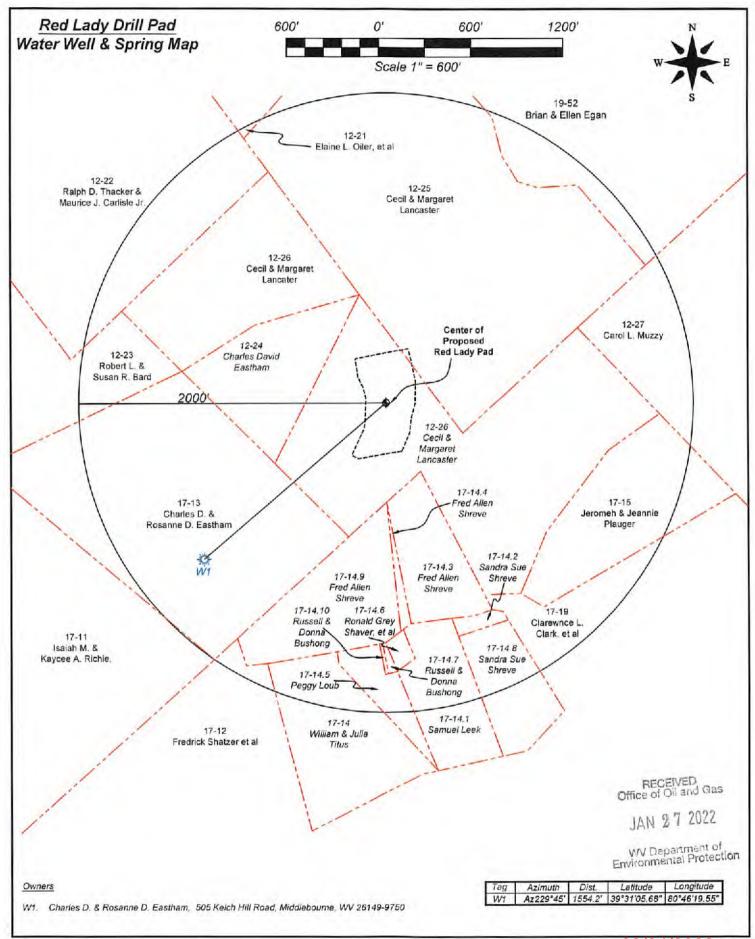
Oigne Blain Notary Public

My Commission Expires 27 Apr 2024

RECEIVED Office of Oil and Gas

JAN 27 2022

WV Department of Environmental Protection



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

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

Notice Time I Date of Notic		Tottee shall be		Application Filed: 01/26/2022	рении аррисации.
Delivery metl	od pursuant (o West Virgin	a Code § 22-6	A-16(b)	
☐ HAND		CERTIFIED M	IAII		
DELIVE		RETURN REC		STED	
					an operator shall, by certified mail return
drilling a horicof this subsection ma subsection ma and if availabl Notice is her Name: Marga	contal well: Prion as of the day be waived in e, facsimile nueby provided that can be contacted as a second contact and contacted as a second contact and contacted as a second contacted as	ovided, That notice w writing by the	otice given pur as provided to surface owner. onic mail addre	rsuant to subsection (a), section to the surface owner: <i>Provided</i> , how The notice, if required, shall includes of the operator and the operator ER(s): Name:	ne surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this ude the name, address, telephone number, or's authorized representative.
	r, WV 26167	,		Address:	
Notice is her	eby given:		_		
Notice is her Pursuant to W the surface ow State:	eby given: est Virginia Coner's land for the			nereby given that the undersigned ontal well on the tract of land as for the tract of land as fo	520469.91m
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Oil and Gas Privacy Notice:

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

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

Date of Notic				
Delivery met	hod pursuant to West Virginia C	Code § 22-6A-16(c)		
■ CERTII	TED MAIL	☐ HAND		
RETUR	N RECEIPT REQUESTED	DELIVERY		
return receipt the planned of required to be drilling of a l damages to th	requested or hand delivery, give the peration. The notice required by provided by subsection (b), section corizontal well; and (3) A propose e surface affected by oil and gas of	the surface owner whose land this subsection shall include the note of this article to a surface use and comperent the comperations to the extent the compensations.	d will be used for ide: (1) A copy face owner who sation agreemer amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	by provided to the SURFACE O			
	s listed in the records of the sherift	f at the time of notice): Name:		
Name: Marge				
Address: POB Reads Notice is here	ox 19 or, WV 26167-0019 eby given : est Virginia Code § 22-6A-16(c),	Addre	ss:	well operator has developed a planned act of land as follows:
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duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

API NO. 47-703 Q 3 Q 3 4 7 8
OPERATOR WELL NO. Baldy Unit 1H
Well Pad Name: Red Ledy Pad

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

VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

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

Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

required, and State:	attachments consisting of pages one (1) throuthe well plat, all for proposed well work on the twest Virginia	ract of land as follows:	520469.91m	
County:	Wetzel	Northing:		
District:	Green	Public Road Access:	Wetzle Tyler Ridge Rd	
Quadrangle: Watershed:	Porter Falls 7.5' Fishing Creek	Generally used farm name:	Margaret Lancaster	
*Please checl	the box that applies	FOR EXECUT	ION BY A NATURAL PERSON	
*Please check	the box that applies	FOR EXECUT	ION BY A NATURAL PERSON	
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Oil and Gas Privacy Notice:

WV Department of Environmental Protection

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



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

D. Alan Reed, P.E. Ch State Highway Engineer

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

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

October 29, 2021

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 Red Lady Pad, Tyler County
Baldy Unit 1H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2021-0085 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off Tyler County Route 28/1 SLS MP 0.80.

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.

Gary K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

JAN 27 2022

RECEIVED Office of Oil and Gas

WV Department of Environmental Protection

Cc: Mallory Stanton

Antero Resources Corporation

CH, OM, D-6

File

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

FRACTURING/STIMULATING INTERVAL

	Additive	Chemical Abstract Service Number (CAS #)
1.	Fresh Water	7732-18-5
2.	2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
3.	Ammonium Persulfate	7727-54-0
4.	Anionic copolymer	Proprietary
5.	Anionic polymer	Proprietary
6.	BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
7.	Cellulase enzyme	(Proprietary)
8.	Demulsifier Base	(Proprietary)
9.	Ethoxylated alcohol blend	Mixture
10.	Ethoxylated Nonylphenol	68412-54-4
11.	Ethoxylated oleylamine	26635-93-8
12.	Ethylene Glycol	107-21-1
	Glycol Ethers	111-76-2
	Guar gum	9000-30-0
	Hydrogen Chloride	7647-01-0
	Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
	Isopropyl alcohol	67-63-0
18.	Liquid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2
19.	Microparticle	Proprietary
20.	Petroleum Distillates (BTEX Below Detect)	64742-47-8
21.	Polyacrylamide	57-55-6
22.	Propargyl Alcohol	107-19-7
23.	Propylene Glycol	57-55-6
24.	Quartz	14808-60-7
25.	Sillica crystalline quartz	7631-86-9
26.	Sodium Chloride	7647-14-5
27.	Sodium Hydroxide	1310-73-2
28.	Sugar	57-50-1
29.	Surfactant	68439-51-0
30.	Suspending agent (solid)	14808-60-7
31.	Tar bases, quinolone derivs, benzyl chloride-quarternized	72480-70-7
	Solvent Naptha, petroleum, heavy aliph	64742-96-7
33.	Soybean Oil, Me ester	67784-80-9
	Copolymer of Maleic and Acrylic Acid	52255-49-9
	DETA Phosphonate	15827-60-8
	Hexamythylene Triamine Penta	34690-00-1
	Phosphino Carboxylic acid polymer	71050-62-9
	Hexamethylene diamine penta	23605-74-5
	2-Propenoic acid, polymer with 2 propenamide	9003-06-9
	Hexamethylene diamine penta (methylene phosphonic ad	cid) 23605-74-5
	Diethylene Glycol	111-46-6
	Methenamine	100-97-0
	Polyethylene polyamine	68603-67-8
	Coco amine	61791-14-8
	2-Propyn-1-olcompound with methyloxirane	38172-91-7
	•	

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SITE LOCATIONS	TATITUDE	LONGITUDE	NORTHING	EASTING
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AST ACCESS FIGAD ENTRANCE	39.524987	-80,764539	4375054,044064	520237,494839
WHILE PAD ACCESS ROAD ENTRANCE	39.525280	-80.76257U	4175096.990747	920406.842995
CENTROID OF TANK PAD	39.523861	-80,767216	4374938.514.130	\$20009.685397
CENTROID OF WELL PAD	39 526248	-80.761858	4275204.655233	520467.543847

RED LADY WELL PAD WELL PAD SITE PLAN **ANTERO RESOURCES**

LAT./LONG: N 39.521063° W -80.767761° (APPROXIMATE CENTER OF PROJECT)

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TOTAL TOPSOIL / STRIPPING WITH 20% SWELL (26,049 C.Y.)

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WELL PAD ACCESS ROAD	346	2.726	2341
WATER CAPLOAD ACCESS	71,870	6.254	64,536
WELL PAD	62 003	41,530	20,553
AST PAG	52.909	95,129	-34.40
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WOLI PAG	942
ASTPAD	10.17
TOPSOIL/STRIPPING PLF I	6.61
OLD STAGING / SPICE MALA	10.61
STAGING AREA 1	216
590LPM11	131
701M	\$1.15
WOODS PREVIOUSLY CLEASED	12.96

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STREAM ID	TYPE OF STREAM	LF WITHIN LOO	IMPACTS (LF) WITHIN CUT/FILL BOUNDARY	COMMENTS		
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SWCA_STREAMIN_MOD	EPHEMERAL	29	0	TIMBER MAT - NO FILE		
SWCA_STREAM41_MOD	EPHEMERAL	17	0	NO IMPACT		
SWCA_STREAM24_MOD	EPHEMERAL	36	0	NO SAPACT		

WELLLEGEND						
WELL HEAD	WY HORTH NAD 27	WY NORTH NAD ES	UTM-M	NAO 83		
REFO LACTY SH	N: 376340-157	N: 376375.960	N. 4375231 223	LAT: 39,126488		
	F: 1643587,533	E: 1612546.731	E: 320458.359	LON: -80.751964		







Civil &

ANTERO RESOURCES
RED LADY WELL PAD
ELLSWORTH & GREEN DISTRICTS
TYLER & WETZEL COUNTY, WV

GENERAL DESCRIPTION THE ACCESS FOAD, TANK PADA SHALL GASWELLS

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PROJECT CONTACTS:

ELI WADDIER - ENVIRONMENTAL E MUSILLATORY MANAGER DITEZ (DOLMO-MIN DEM MINERAL

ANTON KUNZUEL - CONSTRUCTION MANAGERS OFFICE (SMIRHARDS)

SCOTT HOTER - UTLITY SUPERVISOR DEL (STUBS)-SHIP

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ENGINEER/SURVEYOR: ONE, & ENVIRONMENTAL CONSELTANTS, INC. JOSEPH & HOMEROM PE-PROJECT MANAGEMENDIALET EPICA CONTESTATO PAR STRICTS CITE HAS PROJECT

PROJECT ! AREA

> LOCATION MAP PORTER FALLS USGS 7.5 QUAD SCALE IN FEET





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MARYLAND

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VICINITY MAP

