

#### 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

Friday, October 29, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit approval for RYLAND UNIT 3H 47-103-03458-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin Chief

Operator's Well Number: RYLAND UNIT 3H

Farm Name: ANTERO RESOURCES CORPC

U.S. WELL NUMBER: 47-103-03458-00-00

Horizontal 6A New Drill Date Issued: 10/29/2021

API Number:	

### **PERMIT CONDITIONS**

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

#### **CONDITIONS**

- This proposed activity may require permit coverage from the United States Army Corps of Engineers
  (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed
  activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water 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	58
OPERATOR W	rland Unit 3H
Well Pad Nan	

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

1) Well Operator: Antero F	Resources C	orpora	494507062	103-Wetzel	Green '	Pine Grove 7.5"
•			Operator ID	County	District	Quadrangle
2) Operator's Well Number:	Ryland Ur	nit 3H	Well Pa	id Name: Jour	neyman	Pad
3) Farm Name/Surface Own			pration Public Ro	ad Access: Eig	ht Mile	Road /
4) Elevation, current ground	: 1,175'	Ele	evation, proposed	l post-constructi	on: 1,15	64'
5) Well Type (a) Gas	χ	Oil X		derground Stora		
Other						
(b)If Gas	Shallow	X	Deep			_
	Horizontal	X				
6) Existing Pad: Yes or No	No			_		
7) Proposed Target Formation Marcellus Shale: 7400' TV	• • •		•	•		:
8) Proposed Total Vertical I	Depth: 7,40	0' /				
	<b>A</b> 4	lara allu				
9) Formation at Total Vertic	ai Depth: v	larcellu	JS /			
<ul><li>9) Formation at Total Vertic</li><li>10) Proposed Total Measure</li></ul>		1,000'				RECEIVED Office of Oil and Gas
•	ed Depth: 2	1,000'	/			RECEIVED Office of Oil and Gas SEP 27 2021
10) Proposed Total Measure	ed Depth: 2	1,000' ,799.7'	/			Office of Oil and Gas SEP 2.7 2021 WW Department of
<ul><li>10) Proposed Total Measure</li><li>11) Proposed Horizontal Leg</li><li>12) Approximate Fresh Wat</li></ul>	ed Depth: 2 g Length: 9, er Strata Dept	1,000' ,799.7' ths:	52' /	have been adjus	ted accordi	Office of Oil and Gas  SEP 27 2021  WV Department of Profession
10) Proposed Total Measure 11) Proposed Horizontal Le	ed Depth: 2 g Length: 9 er Strata Depteresh Water De	1,000' ,799.7' ths:	52' / 03-00326, Depths		ted accordi	Office of Oil and Gas  SEP 27 2021  WV Department of Profession
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<ul> <li>10) Proposed Total Measure</li> <li>11) Proposed Horizontal Leg</li> <li>12) Approximate Fresh Wat</li> <li>13) Method to Determine Fr</li> <li>14) Approximate Saltwater</li> </ul>	ed Depth: 2 g Length: 9, er Strata Dept resh Water De Depths: 1,64 n Depths: 96	1,000' ,799.7' ths: epths: 1 42' (refe	52' / 03-00326, Depths erence well 103- erence well 10	00326) /	ted accordi	Office of Oil and Gas  SEP 27 2021  WV Department of Profession
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10) Proposed Total Measure 11) Proposed Horizontal Leg 12) Approximate Fresh Wat 13) Method to Determine Fr 14) Approximate Saltwater 15) Approximate Coal Seam 16) Approximate Depth to F 17) Does Proposed well local directly overlying or adjacent	ed Depth: 2 g Length: 9 ger Strata Dept resh Water De Depths: 1,64 n Depths: 96 Possible Void ation contain on to an active nfo: Name:	1,000' ,799.7' ths: epths: 1 42' (refe 60' (refe (coal mi	52' / 03-00326, Depths erence well 103-erence well 10 ne, karst, other):	00326) / 03-30927) / None antici	pated	Office of Oil and Gas  SEP 27 2021  WV Department of Profession
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API NO. 47- 103

OPERATOR WELL NO. Ryland Unit 3H

Well Pad Name: Journeyman Pad

18)

### CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	80	80	CTS, 70 Cu. Ft.
Fresh Water	13-3/8	New	J-55	54.5#	300'	300'	CTS, 271 Cu. Ft.
Coal	9-5/8	New	J-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2	New	P-110	23#	21000	21000	CTS, 4933 Cu. Ft.
Tubing	2-3/8	New	N-80	4.7#			
Liners							

Biyan Ham 9-29-21

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"	0.438"	1530	50	Class A	~1.18
Fresh Water	13-3/8	17-1/2"	0.380"	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	8-3/8"& 8-1/2"	0.415"	12,630	9300		
Tubing	2-3/8	4.778"	0.190"	11,200		Load-HPD2 & Tail-H	H/POZ-1.44 & H-1.8
Liners							

**PACKERS** 

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Office of Oil and Gas

Kind:	N/A	OCT 4 2021
Sizes:	N/A	WV Department of Environmental Protection
Depths Set:	N/A	

OPERATOR WELL NO. Ryland Unit 3H
Well Pad Name: Journeyman Pad

19) Describe proposed well work, including the drilling and plugging back of any pilot ho	le:
Drill, perforate, fracture a new horizontal shallow well and complete Marcellus Sha	
, , , , , , , , , , , , , , , , , , , ,	
20) Describe fracturing/stimulating methods in detail, including anticipated max pressure	
Antero plans to pump Slickwater into the Marcellus Shale formation in order to resproduction. The fluid will be comprised of approximately 99 percent water and sample percent special-purpose additives as shown in the attached "List of Anticipated Action to the structure of the	nd, with less than 1
Fracturing or Stimulating Well."	
Anticipated Max Pressure - 9300 lbs	
Anticipated Max Rate - 80 bpm	
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 33.53	
22) Area to be disturbed for well pad only, less access road (acres): 7.3	
23) Describe centralizer placement for each casing string:	
Conductor: No centralizers. Surface Casing: One centralizer 10' above the float shoe and one every 4th joint spaced up the hole to surfa. Intermediate Casing: One centralizer above float joint, one centralizer above float collar, and one every 4th c. Production Casing: One centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.	ollar to surface.
24) Describe all cement additives associated with each cement type:	
Conductor: no additives, Class A cement.	
Surface Casing: Class A cement with 2-3% calcium chloride and 1/4 lb of flake. Intermediate Casing: Class A cement with 1/4 lb of flake, 5 gallons of clay treat.	
Production Casing 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. Production Casing Tail Cement: Class H + 45 PPS Calcium Carbonate + 1.0% Flake + 0.2% ACGB-47 + 0.05% ACSA-51	
25) Proposed borehole conditioning procedures:	RECEIVED Office of Oil and Gas
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	Environmental Protection

<sup>\*</sup>Note: Attach additional sheets as needed.





Ryland Unit 3H

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SEP 27 2021

WV Department of Environmental Protection



Antero Resources Corporation

Ryland Unit 3H - AOR





August 17, 2021

47103006730001

47103006730000

10/29/2021

Ryland Unit 3H

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47103012700000	WHEELING DOLLAR SAVINGS & TRUST	1	TATUM CHARLS R	TATUM CHARLS R	4,260		Berea, Gordon, Fifth, Warren, Balltown	Weir, Benson, Alexander
47103006720000	W HOGE	636	EQT PRODUCTION CO	CONSOL GAS SUPLY CRP	1,849		Big Injun, Gordon Stray	Weir, Benson, Alexander



## Journeyman Pad

Trader Unit 1H
Trader Unit 2H
Ryland Unit 1H
Ryland Unit 2H
Ryland Unit 3H
Welder Unit 1H
Welder Unit 2H

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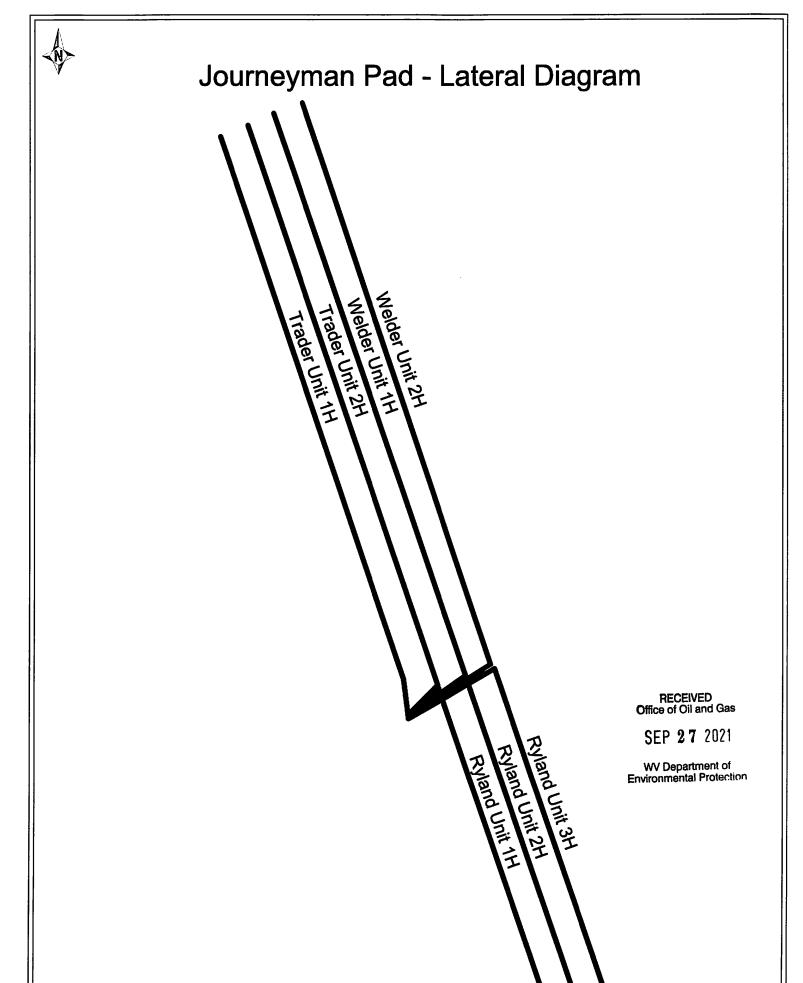
SEP 27 2021

WV Department of Environmental Protection

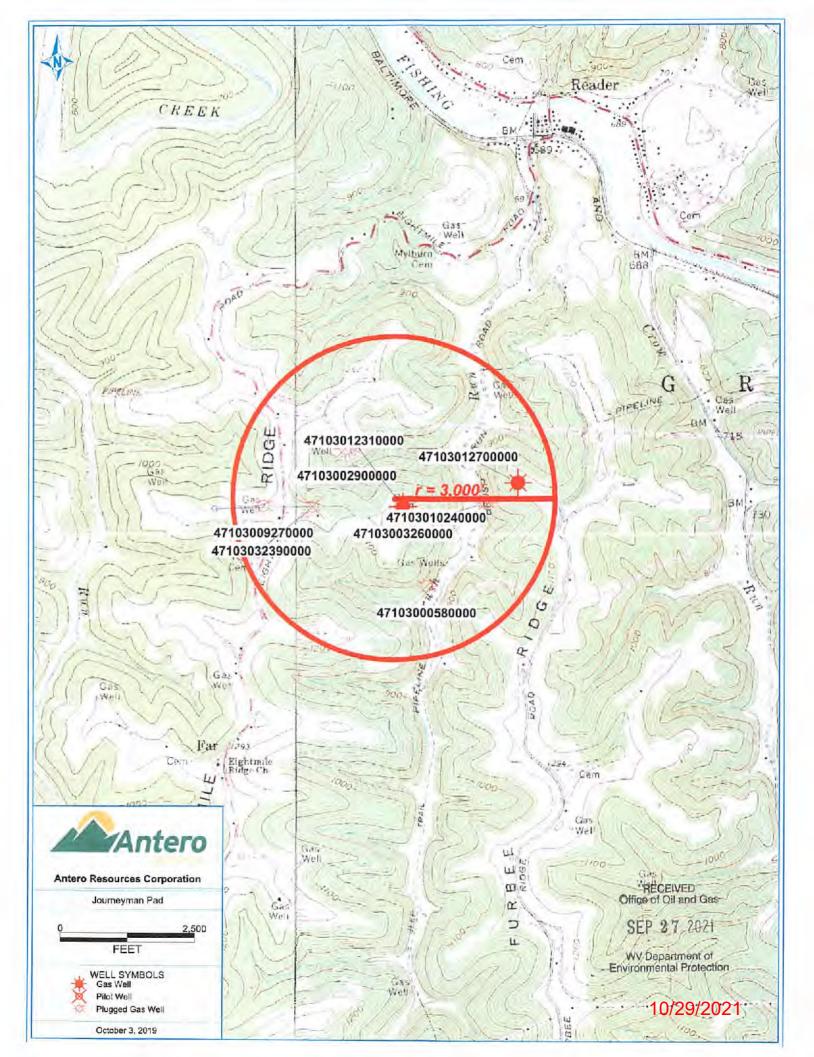


Updated: 8/13/2021

Not to 5/29/2021



10/29/2021



WW-9 (4/16)

API Number 47 - 103	
Operator's Well No.	Ryland Unit 3H

## 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) Fishing Creek	Quadrangle Pine Grove 7.5'
Do you anticipate using more than 5,000 bbls of water to complete t	he proposed well work? Yes No
Will a pit be used? Yes No No	
If so, please describe anticipated pit waste:	is site (Drilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and hauted off site.)
Will a synthetic liner be used in the pit? Yes No	If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	1 IIIC Downis # will be associated an East MD 24
	nber_*UIC Permit # will be provided on Form WR-34  ocations when applicable. API# will be provided on Form WR-34  )
	or disposal location) (Meadowfill Landfill Permit #SWF-1032-98)
Other (Explain	Northwestern Landfill Permit #SWF-1025/ WV0109410
	<del></del>
Will closed loop system be used? If so, describe: Yes, fluids stored	in tanks, cuttings removed offsite and taken to landfill.
Drilling medium anticipated for this well (vertical and horizontal)?	
-If oil based, what type? Synthetic, petroleum, etc. Synthet	<u>c</u>
Additives to be used in drilling medium? Please See Attachment	
Drill cuttings disposal method? Leave in pit, landfill, removed offsi	te, 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 (F	ermit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV0109410)
Permittee shall provide written notice to the Office of Oil and Gas of West Virginia solid waste facility. The notice shall be provided with where it was properly disposed.	
on August 1, 2005, by the Office of Oil and Gas of the West Virginia provisions of the permit are enforceable by law. Violations of any law or regulation can lead to enforcement action.	mined and am familiar with the information submitted on this my inquiry of those individuals immediately responsible for accurate, and complete. I am aware that there are significant fine or imprisonment.  RECEIVED Office of Oil and Gas  SEP 2.7 2021
Subscribed and sworn before me this of day of	otember, 20 21
Milton J. Lockett	Notary Public
My commission expires $\frac{8}{30/2022}$	MILTON JAMAL LOCKETT JR.  MILTON JAMAL LOCKETT JR.  NOTARY PUBLIC  STATE OF COLORADO  NOTARY ID 20184034688  MY COMMISSION EXPIRES AUGUST 30, 2022
	10000000000000000000000000000000000000

Form WW-9 Operator's Well No. Ryland Unit 3H Antero Resources Corporation Proposed Revegetation Treatment: Acres Disturbed 33.53 acres Prevegetation pH Lime 2-4 Tons/acre or to correct to pH 6.5 Fertilizer type Hay or straw or Wood Fiber (will be used where needed) Fertilizer amount 500 Mulch 2-3 Tons/acre Access Road "A" (0.79 acres) + Access Road "B" (18.11 acres) + Access Road "C" (23.17 acres) + Well Pnd (8.91 acres) + Water Containment Pad (4.76 acres) + Excess/Topsoil Material Stockpiles (21.94 acres) + Staging Area (4.06 acres) = 81.74 Acres Seed Mixtures Temporary Permanent Seed Type lbs/acre Seed Type lbs/acre 10 - 15Annual Ryegrass 40 Crownvetch Tall Fescue Field Bromegrass 40 30 See attached Table IV-3 for additional seed type (Ed YostDesign) See attached Table IV-4A for additional seed type (Ed Yost 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. Plan Approved by: Buyen Hum Comments: RECEIVED Office of Oil and Gas WV Department of Environmental Protection

Inspoden

Field Reviewed?

### Form WW-9 Additives Attachment

#### **SURFACE INTERVAL**

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

#### INTERMEDIATE INTERVAL

#### STIFF FOAM RECIPE:

- 1) 1 ppb Soda Ash / Sodium Carbonate-Alkalinity Control Agent
- 2) 1 ppb Congor 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

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6. Xan-Plex

Viscosifier For Water Based Muds

SEP 27 2021

7. Mil-Pac (All Grades)

WV Department of Sodium Carboxymethylcellulose – Filtration Control Agent Environmental Protection

8. New Drill

Anionic Polyacrylamide Copolymer Emulsion - Shale Stabilizer

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

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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SEP 27 2021

WV Department of Environmental Protection



911 Address 2718 Eight Mile Road Reader, WV 26167 Buxu Harm 9-29-21

### **Well Site Safety Plan Antero Resources**

Well Name: RYLAND UNIT 1H, 2H, and 3H, TRADER UNIT 1H and

2H, and WELDER UNIT 1H and 2H

Pad Location: JOURNEYMAN PAD

Wetzel County/Green District

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4 2021

**GPS Coordinates:** 

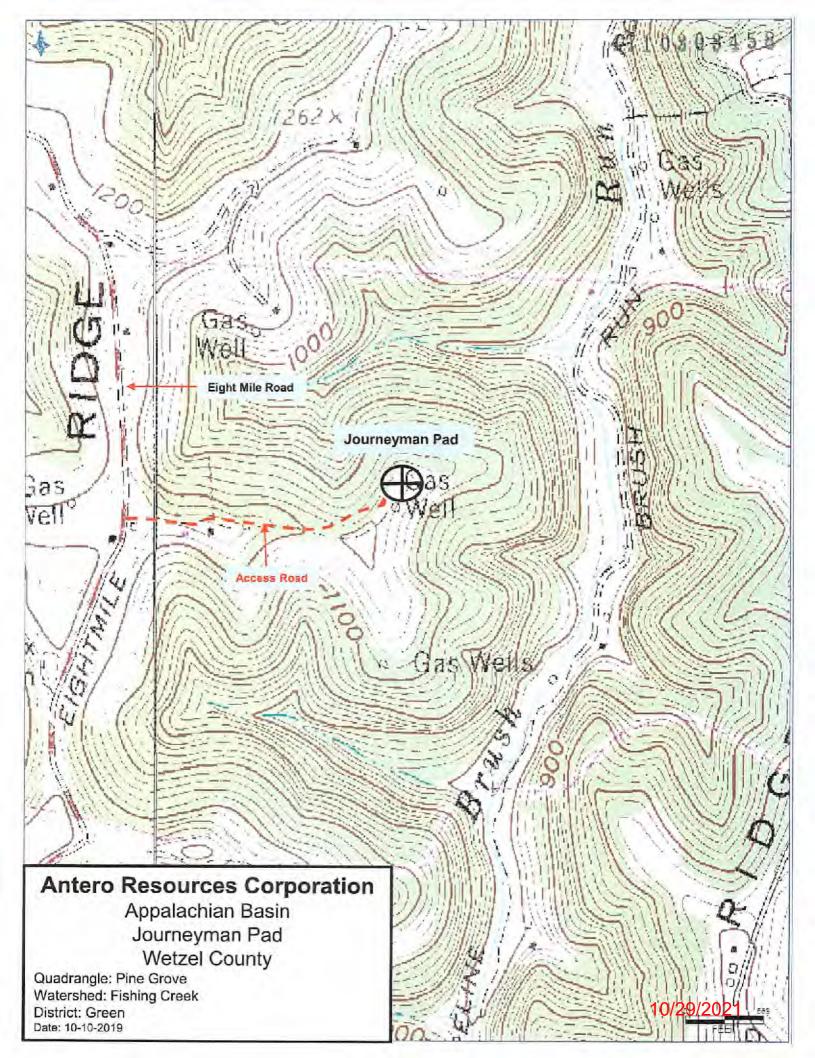
WV Department of Environmental Protection

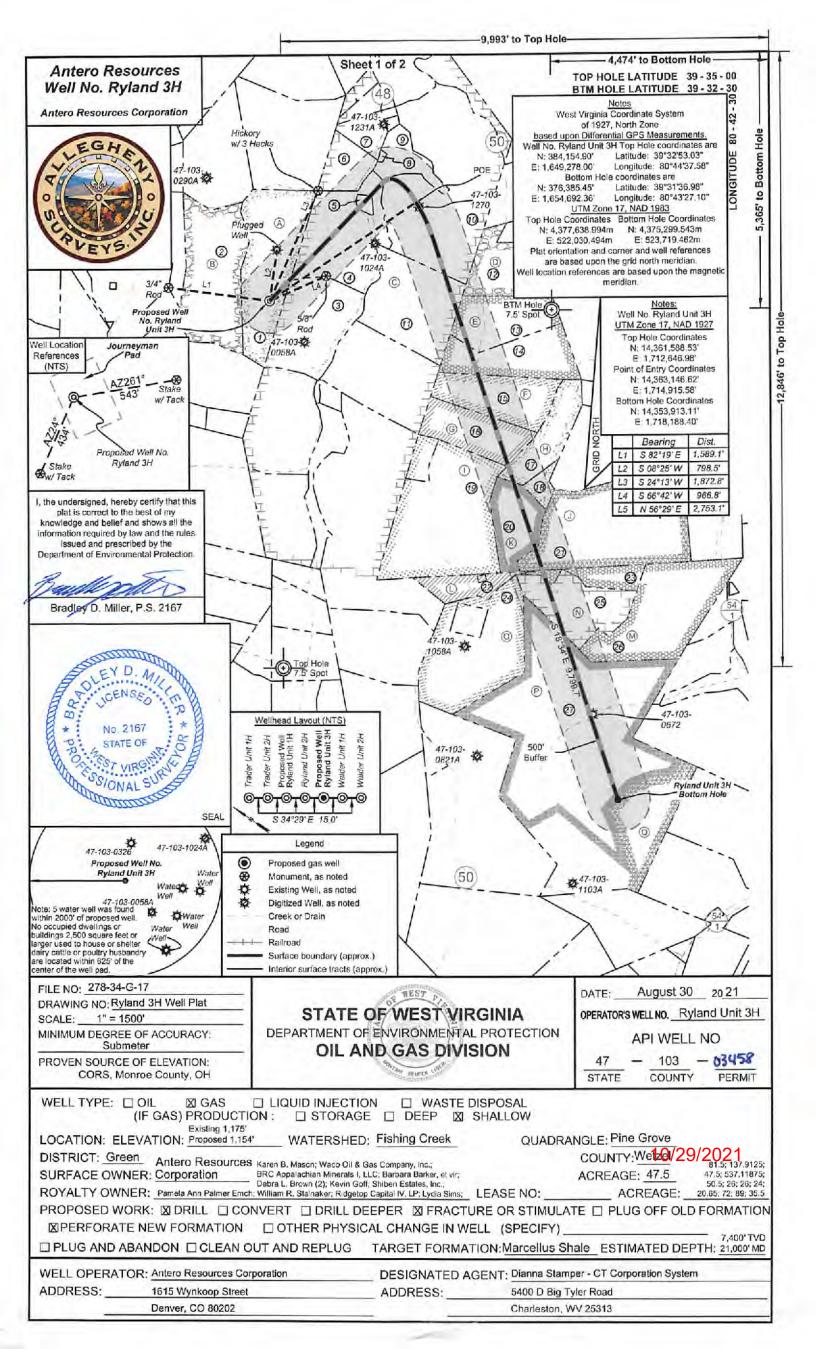
Entrance - Lat 39.549741'/Long -80.750520' (NAD83) Pad Center - Lat 39.550329'/Long -80.743314' (NAD83)

### **Driving Directions:**

From Reader: Head northwest on Border Ln toward old Mexico Rd for 16 ft, Sharp left onto Co Rd 40/2 for 0.3 miles, Continue onto Eight Mile Rd for 2.3 miles, Access road will be on the left.

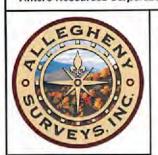
From Middlebourne: Head northeast on WV-18 N/Main St Toward Court St/Dodd St for 4.3 miles, Turn right onto WV-180 N for 0.2 miles, Turn right onto Co Rd 11/6 for 0.4 miles, Continue onto Elk Fork Rd for 9.6 miles, Turn left onto Wetzel Tyler Ridge Rd for 0.6 miles, Continue onto Eight Mile Rd for 1.7 miles, Access road will be on the right.





Antero Resources Well No. Ryland 3H

Antero Resources Corporation



	Leases
A	Pamela Ann Palmer Emch
В	BRC Appalachian Minerals I, LLC
C	William R. Stalnaker
D	Stone Hill Holdings, LLC
E	Ridgetop Capital IV, LP
F	Debra L. Brown
G	Debra L. Brown
Н	Lydia Sims
1	Karen B. Mason
J	Shiben Estates, Inc.
K	Kevin Goff
L	Barbara Barker, et vir
М	BRC Appalachian Minerals I, LLC
N	Barbara Barker, et vir
0	Carl F. Fellows
P	Waco Oil & Gas Company Inc.
Q	Joan B. Hoge Trust

ID	TM/Par	Owner	Bk/Pg	Acres
1	16-26	Antero Resources Corporation	474/713	47.50
2	16-25	Antero Resources Corporation	474/713	39.00
3	17-22	Perry D. Bucher	411/759	37.65
4	17-58	17-58 Pennie Baker		42.41
5	17-56 Pennie R. & Richard K. Baker		366/273	1.63
6	17-15.1 Douglas Alan & Shirley Joann Bucher		442/718	12.41
7	17-15.7 Jeremy & Terry Bucher		365/108	7.37
8	17-15.8 Ross William Bucher, Jr.		411/765	0.37
9	17-59	Pennie Baker	446/344	12.50
10	17-60 Ross Bucher		411/765	79.00
11	17-23 Michael Steven Blinkman		461/443	40.10
12	17-16	7-16 James & Andrea Sell		25.75
13	17-24	7-24 Nola Parks		26.50
14	17-25	7-25 Nola Parks & Jonathan Sivert		25.00
15	17-33			26.00
16	17-44	11 00		26.00
17	17-34	11		20.00
18	17-46	George David Sell	351/473	4.00
19	17-43	George David Sell, et al	206/184	124.50
20	17-45	George D. Sell, et al	W53/228	20.20
21	17-35 Alfred Raymond Furbee, Sr. & Olive Gay Brown		333/638	60.00
22	20-2	20-2 George David Sell		10.00
23	17-30	17-30 Alfred Raymond Furbee, Sr. & Olive Gay Brown		11.70
24	20-9	George David Sell	351/473	48.00
25	20-4	Nola J. Parks & Gloria C. Higgins	A100/689	25.50
26	20-5	Debbie Brown, et al	A96/679	4.00
27	20-13	Dallison Lumber Inc.	440/243	208.00

FILE NO: 278-34-G-17 DRAWING NO: Ryland 3H Well Plat SCALE: 1" = 1500" MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION: CORS, Monroe County, OH

### WEST 1 STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION

August 30 20 21 DATE: OPERATOR'S WELL NO. Ryland Unit 3H API WELL NO - 103 - 03458 COUNTY PERMIT 47

STATE

			_						_
WELL TYPE:	OIL	⊠ GAS		LIQUID	INJECTION	□ WA	STE	DISPOSAL	
	(IF GAS)	PRODUCT	ION	: 🗆	STORAGE	DEEP	X	SHALLOW	
		Evieting 1 175							

LOCATION: ELEVATION: Proposed 1,154'

WATERSHED: Fishing Creek QUADRANGLE: Pine Grove NGLE: FINE 5.5.137.9125; COUNTY: Wet 2/29/2021 ACREAGE: 47.5 47.5; 537.11875; 50.5; 26; 26; 24; 25.21, 27.187; 37.1875; 50.5; 26; 26; 26; 24; 27.187; 37.1875; 37.187 DISTRICT: Green Antero Resources Karen B. Mason; Waco Oil & Gas Company, Inc.;

SURFACE OWNER: Corporation BRC Appalachian Minerals I, LLC; Barbara Barker, et vir.

Debra L. Brown (2): Kevin Goff; Shiben Estates, Inc.;

ROYALTY OWNER: Pamela Ann Palmer Emch; William R. Stalnaker; Ridgetop Capital IV, LP; Lydia Sims; LEASE NO: ACREAGE: 20.65; 72; 89; 35.5

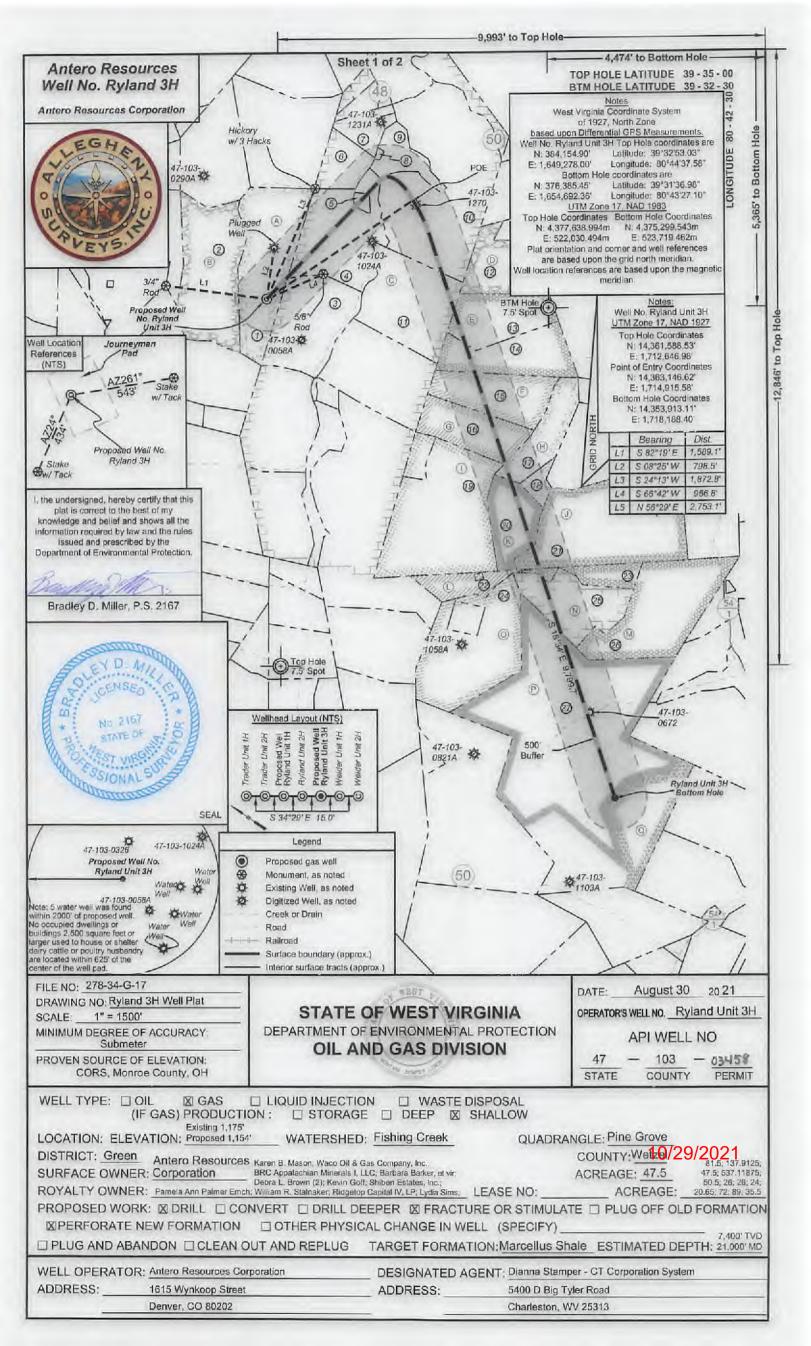
PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☑ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION

☑PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

□ PLUG AND ABANDON □ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 21,000' MD

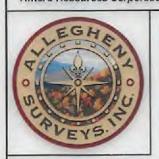
WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System 5400 D Big Tyler Road ADDRESS: 1615 Wynkoop Street ADDRESS:

Denver, CO 80202 Charleston, WV 25313



Sheet 2 of 2

Antero Resources Corporation



	Leases
A	Pamela Ann Palmer Emch
В	BRC Appalachian Minerals I, LL
C	William R. Stalnaker
D	Stone Hill Holdings, LLC
E	Ridgetop Capital IV, LP
F	Debra L. Brown
G	Debra L. Brown
H	Lydia Sims
1	Karen B. Mason
J	Shiben Estates, Inc.
K	Kevin Goff
L	Barbara Barker, et vir
M	BRC Appalachian Minerals I, LL
N	Barbara Barker, et vir
0	Carl F. Fellows
P	Waco Oil & Gas Company Inc.
Q	Joan B. Hoge Trust

ID	TM/Par	Owner	Bk/Pg	Acres
1	16-26	Antero Resources Corporation	474/713	47.50
2	16-25	Antero Resources Corporation	474/713	39.00
3	17-22	Perry D. Bucher	411/759	37.65
4	17-58 Pennie Baker		411/735	42.41
5	17-56 Pennie R. & Richard K. Baker		366/273	1.63
6	17-00		442/718	12.41
7	11 10:11		365/108	7.37
8	17-15.8	Ross William Bucher, Jr.	411/765	0.37
9	17-59	446/344	12.50	
10	17-60	411/765	79.00	
11	17-23 Michael Steven Blinkman		461/443	40.10
12	17-16			25.75
13	17-24	Nola Parks	417/35	26.50
14	17-25	Nota Parks & Jonathan Sivert	417/35	25.00
15	17-33	Debra Lynn Brown	332/480	26.00
16	17-44	00		26.00
17	17-34	Debra Lynn Brown	332/480	20.00
18	17-46	11.04		4.00
19	17-43	George David Sell, et al	206/184	124.50
20	17-45	George D. Sell, et al	W53/228	20.20
21	17-35	Alfred Raymond Furbee, Sr. & Olive Gay Brown	333/638	60.00
22	20-2	George David Sell	351/473	10.00
23	17-30 Alfred Raymond Furbee, Sr. & Olive Gay Brown		333/638	11.70
24	20-9	George David Sell	351/473	48.00
25	20-4	Nola J. Parks & Gloria C. Higgins	A100/689	25.50
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27	20-13	Dallison Lumber Inc.	440/243	208.00

FILE NO: 278-34-G-17 DRAWING NO: Ryland 3H Well Plat SCALE: 1" = 1500' MINIMUM DEGREE OF ACCURACY: Submeter

PROVEN SOURCE OF ELEVATION: CORS, Monroe County, OH

### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION

TEST

DATE: August 30 20 21 OPERATOR'S WELL NO. Ryland Unit 3H API WELL NO

STATE COUNTY PERMIT

WELL TYPE:	□ OIL	⊠ GAS		QUID INJECTION	□ WAS	TE	DISPOSAL	
	(IF GAS)	PRODUCTI	ON:	☐ STORAGE	DEEP	X	SHALLOW	
		Existing 1,175'			 			

LOCATION: ELEVATION: Proposed 1.154' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove DISTRICT: Green Antero Resources Karen B. Mason; Waco Oil & Gas Company, Inc.;

SURFACE OWNER: Corporation BRC Appalachian Minerals I, LLC; Barbara Barker, et vir;

Debra L. Brown (2): Kevin Goff; Shiben Estates, Inc.;

Pamela Ann Palmer Emch; William R. Stalnaker; Ridgetop Capital IV. LP; Lydia Sims; LEASE NO: 

\_\_\_\_ ACREAGE:

PROPOSED WORK. MURILL 100	INVERT   DRILL DEEPER	M FRACTURE OR STIMULATE	L PLUG OFF OLD FORMATION
XIPERFORATE NEW FORMATION	OTHER PHYSICAL CHA	ANGE IN WELL (SPECIFY)	

PLUG AND ABANDON DICLEAN OUT AND REPLUCE TARGET FORMATION Marcellus Shale FETIMATED DEPTHES ASSESSED.

□ PLUG AND ABANDON □ CLEAN OUT AND REPLUG	TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 21,000'MI
WELL OPERATOR: Antero Resources Corporation	DESIGNATED AGENT: Dianna Stamper - CT Corporation System

ADDRESS: ADDRESS: 1615 Wynkoop Street 5400 D Big Tyler Road Denver, CO 80202 Charleston, WV 25313

### Operator's Well Number 27 2021 Ryland Unit 3H

# WV Department of INFORMATION SUPPLIED UNIVERSITIES OF SUPPLIED OF SUPPLIED UNIVERSITIES OF SUPPL

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
	Pamala Ann Palmer Emch Lease			
4	Pamala Ann Palmer Emch	Cnesapeake Appalachia LLC	1/8+	129A/0350
T	Chesapeake Appalachia LLC	SWN Production Company	Assignment	157A/0540
	SWN Production Company	Antero Exchange Properties, Inc	Assignment	177A/0533
	Antero Exchange Properties, inc	Antero Resources Corporation	Merger	0013/0311
€	William R. Stomaker Lease			
	William R. Stainaker	Antero Resources Corporation	1/8+	179A/0069
6.	Ridgetop Capital IV, LP Lease			
V	Ridgetop Capital IV, L2	Antero Resources Corporation	1/8+	215A/0616
۴	Debra L. Bro <u>na grass</u>			
•	Debra L. Brown	Ancero Resources Corporation	1/8+	192A/0720
ઉ	Debra L. Brown Lease Debra L. Brown	Antero Resourcer Corporation	1/8+	191A/0321
	Lvdia Sims Leasc		•	•
N	Lydia Sims Lease Lydia Sims	Antero Resources Corporation	1/8+	200A/0808
,	Kevin Goff Leass			
4	Kevin Goff	EQT Production Company	1/8+	187A/0487
	EQT Production Company	Antero Resources Corporation	Assignment	230A/0783
7	Shiben Escaves, and Lease		. •	•
	Shiben Estates, Inc	Antero Resources Corporation	1/8+	265A/0267
_	BRC Appalachian Minerals I, LLC Lease BRC Appalachian Minerals I, LLC	BRC Working Interest Company LLC	1/8+	102A/0505
lu.	BRC Working laterest Company LLC	Chesapeake Appalachia LLC	Assignment	102A/0303 103A/0470
•	Chesapeo of machiculo	SWN Froduction Company	Assignment	157A/0540
	SWN Production Company	Antero Exchange Properties, LLC	Assignment	177A/0533
	Antero Exchange Properties, LLC	Antero Resources Corporation	Merger	0013/0311
r	BRC Appalachian Minerals I, LLC Lease			
1	BRC Appalachia: Alinerals I, LEC	BAC Working Interest Company LLC	1/8+	102A/0505
	BRC Working inserest Company LLC	Chesapeake Appalachia LLC	Assignment	103A/0470
	Chesapeake Aupalachia LLC	Statol, USA Onshore Properties, Inc	Assignment	120A/0109
	Statoil USA Cost one Properties, inc	SWiX Exchange Title Holder LLC	Assignment	158A/0801
	SWN Exchangetle Holder ELC	SWN Production Company	Merger	0013/0296
	SWN Productions Company	Antero Exchange Properties LLC	Assignment	177A/533
	Antero Exchange Properties, LLC	Antero Resources Corporation	Merger	0013/0311
				10/00/0004

Operator's Well Number

Ryland Unit 3H

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

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

Granter, lessor, etc. Grantee, lessee, etc. Royalty Book/Page

Barbara Barker, et vir Lease
Barbara Barker, et vir Antero Resources Corporation 1/8+ 185A/0219

RECEIVED Office of Oil and Gas

SEP 27 2021

WV Department of Environmental Protection

WW-6A	1
(5/13)	

Operator's Well No. R	yland Unit 3H
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#### 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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	Lease Name or				
	Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
_	Waco Oil & Gas Company Inc Lease		· · · · · · · · · · · · · · · · · · ·		
8		Waco Oil & Gas Company Inc	Antero Resources Corporation	1/8+	184A/0741

\*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.

RECEIVED
Office of Oil and Gas

SEP 27 2021

WV Department of Environmental Protection

### 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.

Well Operator:	Antero Resourc	es Corporation
By:	Tim Rady	Cra- Veely
Its:	VP of Land	

Page 1 of 1



Antero Resources 1615 Wynkoop St. Denver, CO 80202 Office: 303.357.7310 Fax: 303.357.7315

September 20, 2021

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

RE: Ryland Unit 1H, 2H, and 3H, Trader Unit 1H and 2H, and Welder Unit 1H and 2H

Quadrangle: Pine Grove 7.5'

Brett Kuhn Landman

Wetzel County/Green District, West Virginia

Mr. Martin:

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

Sincerely,

RECEIVED Office of Oil and Gas

SEP 27 2021

WV Department of Environmental Protection

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

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 Code § 22-6A.  UTM NAD 83 Sating:  Green  Quadrangle:  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 (it is has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, as a required by subsections (b), and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a resul of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article as a resul of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article were waived in writing by the surface owner, and Pursuant to West Virginia Code § 22-6A-1(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of subsection (b), section ten of this article were waived in writing by the surface owner, and Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  Pu	Date of Notic	ce Certification: 09/15/2021	API No. 47	7 103	
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			Operator's	Well No. Rylan	d Unit 3H
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 County:  Wetzel  UTM NAD 83  Green  Public Road Access:  Public Road Access:  Fishing 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 sceretary, shall be verified and shall contain the following information: (14) A certification from the operator that (if it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, thinformation required by subsections (b) and (c), section sixteen of this article; (ii) that the requirements was deemed satisfied as a resul of giving the surface owner notice of entry to survey pursuant to subsection (b), section ten of this article six-a; or (iii) the notic 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, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  Pursuant to West Virginia Code § 22-6A, the Operator has attache			Well Pad I	Name: Journe	yman Pad
below for the tract of land as follows:  State: West Virginia  County: Wetzel					
Static: West Virginia   UTM NAD 83   Easting: Northing:   522030.494m   437763.894m   1916			§ 22-6A, the Operator has provided the rec	quired parties v	with the Notice Forms listed
County:   Wetzel   UTM NAD 83   Northing:   A377638.944m					
County: Wetzel District: Green Public Road Access: Eight Mile Road 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 (it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, thinformation 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 notic 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 subsection to finis article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  **PLEASE CHECK ALL THAT APPLY**  1. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED  3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED  WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)  4. NOTICE OF PLANNED OPERATION  **GREENVED**  Office of Oil and Gas*  **SEP 27 20/1  RECEIVED**  RECEIVED**		<u></u>			
Quadrangle: Pine Grove 7.5 Fishing 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 (it has provided the owners of the surface described in subdivisions (1), (2) and (4), subscriben (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 resul 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 subscction (b), section sixteen of this article; (ii) that the requirement was deemed satisfied as a resul 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 subscction (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 were waived in writing by the surface owner, and Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  Pursuant to W	•		Northing:		
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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 resul of giving the surface owner notice of entry to survey pursuant to subsection (a), section ne 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 tends of this article have been completed by the applicant.  Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  **PLEASE CHECK ALL THAT APPLY**  1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED  3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED  4. NOTICE OF PLANNED OPERATION  ACCEIVED OF RECEIVED  5. PUBLIC NOTICE  SEP 27 20/1  RECEIVED  6. NOTICE OF APPLICATION	-		Generally used farm name:	Antero Resour	ces Corporation
prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (it is has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, (it is that provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, (it is that he 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, the Operator has attached proof to the secretary that the notice requirements of section ten of this article have been completed by the applicant.  Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  "PLEASE CHECK ALL THAT APPLY  1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED  3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)  4. NOTICE OF PLANNED OPERATION  PRECEIVED  5. PUBLIC NOTICE  SEP 27 20/1  PRECEIVED  RECEIVED  RECEIVED  RECEIVED  RECEIVED  RECEIVED  RECEIVED  RECEIVED  RECEIVED	Watershed:	Fishing Creek			
that the Operator has properly served the required parties with the following:  *PLEASE CHECK ALL THAT APPLY  1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF INTENT TO DRILL OR NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OF WAS CONDUCTED OR WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)  4. NOTICE OF PLANNED OPERATION  RECEIVED  OGGOFFICE USE ONLY  RECEIVED  NOT REQUIRED  RECEIVED  NOT REQUIRED  RECEIVED	it has provide information r of giving the requirements Virginia Code	ed the owners of the surface descril equired by subsections (b) and (c), so surface owner notice of entry to su of subsection (b), section sixteen o e § 22-6A-11(b), the applicant shall t	need in subdivisions (1), (2) and (4), subsection sixteen of this article; (ii) that the reservey pursuant to subsection (a), section f this article were waived in writing by ender proof of and certify to the secretary	section (b), sequirement was ten of this artithe surface over	ction ten of this article, the deemed satisfied as a result icle six-a; or (iii) the notice wner; and Pursuant to West
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NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or  WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)  4. NOTICE OF PLANNED OPERATION  RECEIVED Office of Oil and Gas  SEP 27 2071  RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED	☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	'EY or 🔳 NO PLAT SURVEY WAS CO	ONDUCTED	☐ RECEIVED
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5. PUBLIC NOTICE  SEP 27 2071  RECEIVED  RECEIVED  RECEIVED				CE OWNER	
■ 6. NOTICE OF APPLICATION  W Department of RECEIVED	■ 4. NO	TICE OF PLANNED OPERATION	RECEIV Office of Oil	'ED and Gas	☐ RECEIVED:
AAA Debailinging	■ 5. PUE	BLIC NOTICE	SEP 27	2071	RECEIVED
	■ 6. NO	TICE OF APPLICATION	WV Departs Environmental	ment of 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 Diana Hoff , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: Antero Resources Corporation Address: 1615 Wynkoop Street By: Diana Hoff Diana ( Denver, CO 80202 Its: Senior VP of Operations 303-357-7315 Facsimile: Telephone: 303-357-7310 Email: mhamsher@anteroresources.com

NOTARY SEAL **FELENA C MITCHELL** 

Subscribed and sworn before me this

7 day of Systember 22 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 awv.gov.

> RECEIVED Office of Oil and Gas

SEP 27 2021

WV Department of Environmental Protection WW-6A (9-13) API NO. 47-709 0 3 0 3 4 5 8
OPERATOR WELL NO. Ryland Unit 3H
Well Pad Name: Journeyman Pad

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 09/17/2021 Date Permit Application Filed: 09/17/2021 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ PERSONAL ✓ REGISTERED ☐ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to: ■ SURFACE OWNER(s) ☐ COAL OWNER OR LESSEE Name: Perry D. Bucher Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: 1322 Brush Run Road Address: Reader, WV 26167 Antero Resources Corporation Name: COAL OPERATOR Address: 1615 Wynkoop Street Name: NO DECLARATIONS ON RECORD WITH COUNTY Denver, CO 80202 Address: SURFACE OWNER(s) (Road and/or Other Disturbance) Name: Kenneth E. Butler ☐ WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, Address: 1078 Bothany Pike SPRING OR OTHER WATER SUPPLY SOURCE Wellsburg, WV 26070 Name: PLEASE SEE ATTACHMENT 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

WW-6A (8-13)

API NO. 47/0987 7 OPERATOR WELL NO Well Pad Name: Journeyman Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (304) 842-4153 Diana O. 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 awy.gov.

Subscribed and sworn before me this 17 day of 5pt. 2021

Subscribed and sworn before me this 17 day of 5pt. 2021

My Commission Expires 1/12/2022

#### WW-6A ATTACHMENT - RYLAND UNIT 3H

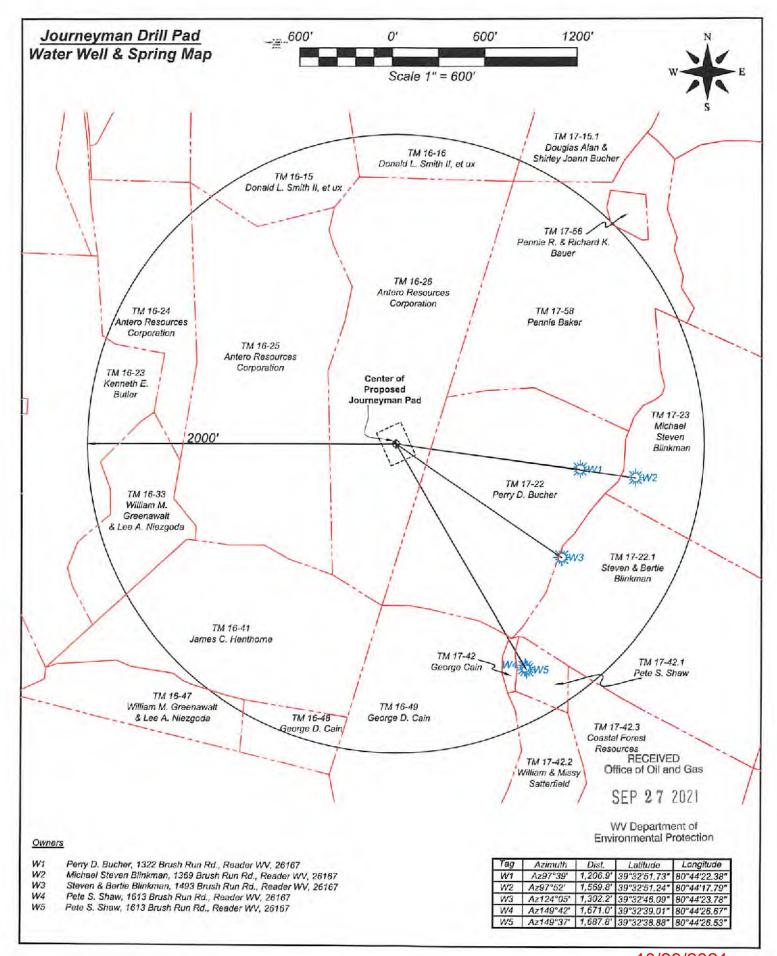
#### WATER PURVEYORS/OWNERS OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE

Perry D. Bucher 1322 Brush Run Road Reader, WV 26167

Michael Steven Blinkman 1369 Brush Run Road Reader, WV 26167

Steven & Bertie Blinkman 1493 Brush Run Road Reader, WV 26167

Pete S. Shaw 1613 Brush Run Road Reader, WV 26167



WW-6A4 (1/12) 

## 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.

OA-TU(a) Have	NOT been me	to it me notice	s of ment to Di	in requirement has	NOT been	warved in writing by the s	surface owner.
Notice Time l Date of Notic	Requirement: e: _08/16/2021	Notice shall be p		t TEN (10) days pr Application Filed:		a permit application.	
Delivery met	od pursuant	to West Virgini	ia Code § 22-6A	-16(b)			
☐ HAND		CERTIFIED M	IAIT.				
DELIVE	RY		CEIPT REQUES	TED			
receipt reques drilling a hori of this subsect subsection ma and if availabl Notice is her Name: James K.	ted or hand del zontal well: P ion as of the d y be waived in e, facsimile nu reby provided Eastman II	2-6A-16(b), at le ivery, give the s rovided, That no ate the notice wa writing by the s mber and electro	east ten days pri- surface owner no otice given pursu- as provided to the surface owner. T	or to filing a perm otice of its intent to uant to subsection he surface owner: The notice, if requi s of the operator at R(s):	o enter upon (a), section Provided, he red, shall inc nd the operat	n, an operator shall, by ce the surface owner's land ten of this article satisfies owever, That the notice re clude the name, address, t tor's authorized represent	for the purpose of s the requirements quirements of this telephone number,
Address: 206 W Mannington, WV 2 Notice is her Pursuant to W	eby given: est Virginia C	ode § 22-6A-16(	(b), notice is her	Reader, WV	undersigned	I well operator has an in	tent to enter upon
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#### Oil and Gas Privacy Notice:

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

WW-6A5 (1/12)

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

Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information in	the surface owner's land for the p  West Virginia  Wetzel  Green  Pine Grove 7.5'  Fishing Creek  Shall Include:  Vest Virginia Code § 22-6A-16(c)  Ed by W. Va. Code § 22-6A-10(l)  Ell; and (3) A proposed surface used by oil and gas operations to the elated to horizontal drilling may located at 601 57th Street, SE, ault.aspx.	to a surface owner ve and compensation agrice extent the damages a be obtained from the SCharleston, WV 25	AD 83 Easting: Northing: Road Access: ly used farm name:  de: (1)A copy of this whose land will be eement containing at are compensable und Secretary, at the WV (304 (304-926-0450))	4,377,638m  Eight Mile Road  Antero Resources Corporation  code section; (2) The information required used in conjunction with the drilling of a offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and
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Pursuant to W operation on State:	the surface owner's land for the p West Virginia		AD 82 Easting:	522,030m
Pursuant to Wooperation on	the surface owner's land for the p		Fasting:	
Notice is her				well operator has developed a planned
Read	ar, WV 26167		Denver, CO 80202	
(at the addres Name: Peny Address: 1322	s listed in the records of the sharif Bucher Brush Run Road	f at the time of notice): Na	Antero Resources C	
return receipt the planned of required to be drilling of a li- damages to the (d) The notice of notice.	requested or hand delivery, give to peration. The notice required by provided by subsection (b), section provided well; and (3) A propose e surface affected by oil and gas of	the surface owner whose y this subsection shall on ten of this article to a sed surface use and con operations to the extent to e given to the surface ov	e land will be used for include: (1) A copy a surface owner whose inpensation agreement the damages are com-	cation, an operator shall, by certified main or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the open containing an offer of compensation for pensable under article six-b of this chapter sted in the records of the sheriff at the time
Pursuant to V	/ Va Code 8 22-64-16(c) no la	ster than the date for fil	ling the permit appli	Environmental Protection cation, an operator shall, by certified man
	N RECEIPT REQUESTED	DELIVERY		WV Department of
CERTII	FIED MAIL	☐ HAND		SEP 27 2021
	hod pursuant to West Virginia (	Code § 22-6A-16(c)		Office of Oil and Gas
				RECEIVED

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 <a href="deeprivacyofficer@wv.gov">deeprivacyofficer@wv.gov</a>.

WW-6AW (1-12) API NO. 47- 095 OPERATOR WELL NO. Ryland Unit 3H
Well Pad Name: Journeyman 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

Ι,	, hereby state that I have read th	e Instructions to Persons l	Named on Page W	W-6A and the associated
WW-6A and	sted above, and that I have received copies of a No I attachments consisting of pages one (1) through I the well plat, all for proposed well work on the tra-	ı, including		
State:	Mast Visulata	Marking.	522030m	Office of Oil and Gas
County:	Wetzel	Northing		
District:		ublic Road Access:	Eight Mile Road	SEP 27 2021
Quadrangle:	Pine Grove 7.5	Generally used farm name:	Antero Resources Corp	wy Department of
Watershed:	Fishing Creek			Environmental Protection
*Please check	k the box that applies	FOR EXECU	TION BY A NAT	URAL PERSON
	CE OWNER			141 141 141 141 141 141 141 141 141 141
		Signature:		
☐ SURFAC	CE OWNER (Road and/or Other Disturbance)	Date:		
□ SURFA	CE OWNER (Impoundments/Pits)	1000000		A Total at a Second
□ COAL C	OWNER OR LESSEE			PORATION, ETC.
□ COAL C	PPERATOR	By:		
□ WATER	RPURVEYOR			
□ OPERA	TOR OF ANY NATURAL GAS STORAGE F	TIELD Date:		

#### Oil and Gas Privacy Notice:

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



#### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways** 

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

Jimmy Wriston, P. E. Deputy Secretary/ Deputy Commissioner

RECEIVED Office of Oil and Gas

SEP 27 2021

WV Department of Environmental Protection

August 13, 2021

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

Subject: DOH Permit for the Journeyman Pad, Wetzel County

Ryland Unit 3H Well Site

Dear Mr. Martin,

Byrd E. White, III Secretary of Transportation/

Commissioner of Highways

This well site will be accessed from a DOH permit #04-2019-0549 which has been issued to Antero Resources for access to the State Road for a well site located off Wetzel County Route 46 SLS MP 2.33.

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.

Gary K. Claylon

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Mallory Stanton Antero Resources CH, OM, D-6

File

# List of Anticipated Additives Used for Fracturing or Stimulating Well

Additives	Chemical Abstract Service Number (CAS #)	
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	
Demulsifier Base	Proprietary	
Ethoxylated alcohol blend	Mixture	ΕD
Ethoxylated Nonylphenol	68412-54-4 Office of O	and Ga
Ethoxylated oleylamine	26635-93-8 SEP 27	
Ethylene Glycol	107-21-1	702
Glycol Ethers		tment o
Guar gum	111-76-2 WV Depart 9000-30-0 Environmen a	il Protec
Hydrogen Chloride	7647-01-0	
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8	
sopropyl alcohol	67-63-0	
iquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2	
Microparticle	Proprietary	
Petroleum Distillates (BTEX Below Detect)	64742-47-8	
Polyacrylamide	57-55-6	
Propargyl Alcohol	107-19-7	
Propylene Glycol	57-55-6	
Quartz	14808-60-7	
Sillica, crystalline quartz	7631-86-9	
Sodium Chloride	7647-14-5	
Sodium Hydroxide	1310-73-2	
Sugar	57-50-1	
Surfactant	68439-51-0	
	14808-60-7	
Suspending agent (solid) Far bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	
Solvent Naphtha, petroleum, heavy aliph	64742-96-7	
Soybean Oil, Me ester	64742-96-7	
Copolymer of Maleic and Acrylic Acid	52255-49-9	
DETA phosphonate	15827-60-8	
Hexamthylene Triamine Penta	34690-00-1	
Phosphino Carboxylic acid polymer	71050-62-9	
Hexamethylene Diamine Tetra	23605-75-5	
2-Propenoic acid, polymer with 2 propenamide	9003-06-9	
Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5	
Diethylene Glycol	23605-74-5 111-46-6	
Methenamine	100-97-0	
Polyethylene polyamine	68603-67-8	
Coco amine		
2-Propyn-1-olcompound with methyloxirane	61791-14-8	
z-rropyn-t-olcompound with methyloxirane	38172-91-7	

EX. ACCESS ROAD ENTRANCE
LATITUDE 30.505071 LONGITUDE -80.750447 (MAD 83)
LATITUDE 30.50507 LONGITUDE -80.750424 (MAD 87)
M 837709849 E SCH40.51 (UTM ZONE 17 METERS)

LATTITUTE 39.549632 LONGITUDE -80.744322 (NAT 83) LATTITUTE 39.549451 LONGITUDE -80.744906 (NAD 27) N 437779282 E 521967.03 (UTM YONE 17 METERS

CENTROLD OF PAD
LATITUDES OR DESERVE LONGITUDE -00.740074 (NAE RA)
LATITUDES DR.D.48256 LONGITUDE -80.743651 (NAD RT)
N 4377553 89 E 50202041 (UTM ZONE 17 MSTERN)

FLOODPLAIN NOTES: THE PROPOSED HITE IS LOCATED IN PLOOD ZUNKE X PER FEMA MAP NUMBER (54)20001760 & 5410001000

GENERAL DESCRIPTION:
THE ACCESS BOADS, BATER CONTADURNT FAD, AND WILL FAD ARK SEING CONSTRUCTED TO AND IN
THE DESCRIPTION OF STREET OF BUTCHOOM MACRILLE SHALF GAS WELLS.

MISS\_UTILITY\_STATEMENT:
AFTER RESOURCES CORPORATION WELL ADDITY MISS UTILITY OF WEST VERGENA FOR THE LOCATING OF
UTILITIES FROM TO THEN FROMTH DESIGN. THERE A DIVINGAGES IN A MULTIPON MISS UTILITY WILL BE
CONTACTED BY THE CONTRACTOR FROM TO THE START OF CONTRACTOR FOR THE PROJECT,

ENVIRONMENTAL NOTES:

STREAM AND VAILAND BULNEATIONS "BER PERFORMED IN MAY, 2018 UT TETHA TECH, INC. TO INDIFF

STREAM AND VAILAND BULNEATIONS "BER PERFORMED IN MAY, 2018 UT TETHA TECH, INC. TO INDIFF

THE STRE FOR WATER! AND VEILLAND SHAT ARE MOST LINCAY WITHIN THE RECULATORY PURSUE OF THE

U.E. ARMY CORPE OF ROMINIZES (BEARTS MIP/ON THE WEST VEICHER DEPARTMENT OF BURNDOM MINITAL

U.E. ARMY CORPE OF ROMINIZES (BEARTS MIP/ON THE WEST VEICHER DEPARTMENT OF DEVIRONMENTAL

U.E. ARMY CORPE OF ROMINIZES (BEARTS AND VEILLAND AND PERFORMENT ON THE LANDWARD LIMITS OF WITTERS AND

UR AND VAY, RESPECTIVE A PURSUE CORPORATION OF THE LANDWARD LIMITS OF WITTERS AND

WITTERS CONTINUATION OF THE DEBROATION SHOWN ON THE EXCHAINT DAY OF ROMINIZES AND

GAIN SHIPTES CONTINUATION OF THE DEBROATION SHOWN ON THE EXCHAINT DAYS OF ROMINIZES AND

CONSTRUCTION OF THE PURSUE DESCRIBED HEIGHER, THE DIVIDED FOR TO ANY PROPOSED, IMPACTS

TO WATERS OF THE U.E. DEBROATION WHICH AND REPORTED TO ANY PROPOSED.

GEOTECHNICAL NOTES:
A SUBSULTACE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY PENNELHAMA SOIL &
BOXE, DC. ON JALY 16-24, 2019. THE REPORT PREPARED BY PENNELHAMA SOIL & BOXE, INC.
BATEL STATEMENT 16, 2019, AND PROPOSED OF MARCH 25, 2014. RELECTS THE RESPONSE OF THE
WARR USED IN THE PREPARATION OF THESE PLANS. PREMAY PROPOSED TO THE PREPARATION OF THESE PLANS. PREMAY PROPOSED TO THE PREPARATION OF THESE PLANS. PREMAY PROPOSED TO THE PREPARATION.

#### PROJECT CONTACTS:

OPERATOR ANTERO RESOURCES CORPORATION

PHONE: (304) 642-4)00 FAX (304) 842-4102

ELI MAGGINER - ENVIRONMENTAL INCINEER & ENGINEER/SURVEYUNG REGULATORY MARKER OFFICE: (304) 342-4068 CELL: (334) 476-9770 CYRUS S. KURP. PE - PROJECT

DIANA HOFF - INT OPERATIONS OFFICE: (303) 357-8904

AARON KUNZLED - COUNTRICTION MANAGES (304) 842-4191

ROBERT WIRKS - DESIGN MANAGER OFFICE: (304) 842-4500 CELL (304) 627-7400

ROBERT EDDY - UTBITY COORDINATOR CELL: (304) 728-3190 MARK HUTSON - LAND AGENT CELL: (304) 669-6315

APPROVED

WVDEP OOG 10/27/2021

MANAGER/ENGINEER
OFFICE (888) 682-4185 CELL (540) 888-6747

ENVIRONMENTAL:

TETRA TEUM, INC.
HENRY SCHUMACHER - MANAGER
OFFICE (412) 921-7020 CELL: (412) 637-7146

RESTRICTIONS NOTES:

1. HERE ARE 30 PERSONAL STRANS, VEILANDS, LAKES, FORDS, OR RESERVORES FIGURE 1000 FEET OF THE FIGURE PER AND LEGS.

- 2 THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHEN 300 FRET OF THE WELL PAD AND
- THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FREET OF THE WELL PAD AND 120.
- THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF
- THERE ARE NO OCCUPIED DWILLING STRUCTURES WITHIN 825 FEET OF THE CENTER OF THE WELL
- THERE ARE NO AGRICUATURAL RIPLATINGS LARGER THAN 2,500 SQUARE FEET WITHIN 626 FREI DY THE CENTER OF THE WELL PAD

DESIGN CERTIFICATION:
THE GRANNING CONSTIDENT NOTES, AND REFERENCE MAGRAMS ATTACHED MERETO MAYE PROPRESSABLE OF ACCORDANCE WITH THE WAST VIRGINIA CODE OF STATE BULES. EVICEON OF ENVERORMENTAL PROPERTIES, OFFICE OF OIL AND GAS CWS 30-9.

### JOURNEYMAN WELL PAD & WATER CONTAINMENT PAD SITE DESIGN & CONSTRUCTION PLAN. **EROSION & SEDIMENT CONTROL PLANS**

GREEN DISTRICT, WETZEL COUNTY, WEST VIRGINIA LOWER FISHING CREEK & UPPER FISHING CREEK WATERSHED

USGS 7.5 PORTERS FALLS & PINE GROVE QUAD MAP





(NOT TO SCALE)

#### REPRODUCTION NOTE

THESE PLANS SENT CREATED TO BE PLOTTED OF SECTION (ASS) (O. PAPER, HALF STALE DELETION OF BEINDING AND ON THOOM (AND IN PAPER.



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

WEST VINGINIA STATE PLAN-NOSTE ZORE NADSO LILYANDON NASID ON NAVO ESTABLISHED BY SURVEY OF POST-PRICESSING

- COVER SHEET CONSTRUCTION AND EAS CONTROLS NOTES

JOURNEYMAN LIMITS OF DISTURBANCE	AREATACI
Total Site	
Access Road "A" (1,833")	0.47
Access Road "B" (456')	1.40
Access Road "C" (211")	0.75
Staging Ama	5.95
Wet Pad	7.30
Water Cortainment Pad	1.65
Excess/Topbail Minterial Stockpilos	7.81
Total Affected Area	33.53
Total Wooded Acres Disturbed	24.45
Impacts to Kenneth Eric Butler & Kenneth ft.	Butter TM 10-22
Access Road "A"	154
Excess/Topsoil Material Stockpiles	100
Total Affected Aren	7.54
Total Wooded Acres Disarged	1.50
Impacts to Antero Resources Corp. T	
Access Road "A"	2.35
Excess/Topsoil Material Stroopies	1.42
Total Affected Area	3.77
Total Wooded Acres Disturbed	248
Impacts to Antero Resources Corp. T	76 15-25
Access Road "A"	3.21
Access Floed "B"	014
ExcessTopsoil Material Stockpiles	325
Total Affected Area	9.60
Total Wooded Acres Disturbed	3 62
Impacts to Antero Resources Corp. T	W15-25
Acress Road "A"	1.37
Access Road "B"	1.26
Access Road "C"	0.75
Staping Area	5.95
Wed Pad	6.21
Water Corteinment Pad	1.65
Excess/Topsoll Material Stockpiles	214
Total Affected Area	19.53
Total Whoded Acres Disturbed	15.78
Impacts to Parry D. Bucher TM 1	142
Wet Pad	1.09

VM E Name	HAD 27	HAD 27 Lai & Long	UNI DIETEIST	NADELLE SECTION			
	Permitted Location						
Tradur	N 35-Q04-36	LAT 39-32-53-5151	N 4377663 89	LAT 30-32-63 6033			
UNIT-1H	E 1549244 02	LOVA #044-36 0136	# SZZDIS DE	LONG #044-37.3740			
Imder	14 364191,99	LAT 39-33-53-3941	N 4377000 17	LAT 39-72-53,6822			
UNIT 2H	E 1647,52,52	LCHO 25 44-37 (0024	E 522022.54	UDMS 48-44-37,2534			
Ryland	N 364175 63	LAT SACRASTIST	N 4377545 4E	(AT 39-37-52-5613			
LINET THE	E 1618261 G1	LC043 4044-37 7918	@ SZ7025 19	LONG 8544-37,1526			
Flyfend	11 384167,27	LAT 39-32-53 1520	N 4377642 72	LAT 39-32-63-4403			
UNIT 2H	E 1049269 50	LOHO -0044-37 CALT	5 532077 84	LONG - 60-44-37 (642)			
Ryland	N 304154 90	LAT 79-37-53-0310	N 4317814-00	LAT 39-33-51-3192			
UNIT 3H	E 1640279 DO	LONG 8044-27 5706	E 522000 40	MC42-88-11-38-0716			
Wilder	19 304142.54	LAT 36-12-52 9100	4 4317635.37	LAT 30-13-53 1982			
LIFET SH	E 1649295 49	LONG 4544-37 4900	E 522035 14	UCHEL 4844-36.8210			
Welder:	11 354130 17	LAT 94-32-52 7800	N. 4317909.55	LAT 39-33-53 6777			
UNIT 34	E 1649294 99	LONG 40-44-37 3455	# 802030 78	CONT -00-4-36 7:04			
Journeymani A	N 364996 67	LAT 19-33-01 3580	N 4217809.10	LAT 30 33 01 6533			
PAT IN (Permitted)	E 1649480 25	LONG 40-14-35 3027	E 522064 75	LCHG-86-1431 7532			
Proposed Well Pa	d Clavation	1,051.0					

JOURNEYMAN EP			T LINEAR FEET		
The second secon	Perma	nent Impacts	Sems, Impacts	Total Impact	
Stream and Impact Gauss	Culted!	inlets/Outlets Structures (LF)	Cofferdand EAS Controls (LF)	(CLF)	
Tet StreamD1 (Stockpile "A")	0		75	25	
Tot Stream?3 (Access Road "A")	82	21	13	116	
Tel Streem22 (Access Road "A")	0	0	10	10	

S ENGINEERING



R WATER CONTAINMENT P OREEN DISTRICT L COUNTY, WEST VIRGINIA JOURNEYMAN

SHEET

COVER :

PAD

WELL PAD &



SCALE AS SHOWN SHEET 1 OF 30

