

#### 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.dcp.wv.gov

Monday, August 23, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re:

Permit approval for ORNER UNIT 2H

47-103-03429-00-00

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: ORNER UNIT 2H

Farm Name: DALLISON LUMBER, INC.

U.S. WELL NUMBER: 47-103-03429-00-00

Horizontal 6A New Drill Date Issued: 8/23/2021

<u> </u>

# PERMIT CONDITIONS

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

#### **CONDITIONS**

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

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	0	<u> 34</u>	<u> 29</u>	
OPERATOR WE	LL NO.	Omer	Unit 2H	<u> </u>
Wall Pad Name	. Dogw	ood Pa	d	

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

1) Well Operato	or: Antero Res	ources Corpora	494507062	103-Wetzel	Green	Pine Grove 7.5'
, -,			Operator ID	County	District	Quadrangle
2) Operator's W	Vell Number: On	ner Unit 2H	Well Pad	Name: Dogw	ood Pad	
3) Farm Name/S	Surface Owner:	Dallison Lumbe	r Inc. Public Road	d Access: CO.	Route 50	·
4) Elevation, cu	rrent ground:		evation, proposed j	_		
5) Well Type	(a) Gas X Other	Oil	Unde	erground Storag	ge	
		illow X	Dеер			
	Hot	rizontal X	· · · · · · · · · · · · · · · · · · ·			
6) Existing Pad	: Yes or No Yes	S	<u>-</u>	•		
-	-		ipated Thickness a ss- 55 feet, Associa			
8) Proposed To	tal Vertical Dept	h: 7600' TVD				
	Total Vertical D		3			
10) Proposed To	otal Measured D	epth: 23900' M	D			
11) Proposed H	orizontal Leg Le	ength: 13164'				
12) Approximat	te Fresh Water S	trata Depths:	539'			
13) Method to I	Determine Fresh	Water Depths:	47-095-30941			· · · · · · · · · · · · · · · · · · ·
14) Approxima	te Saltwater Dep	ths: <u>2341'</u>				
15) Approxima	te Coal Seam De	pths: 815'				
16) Approxima	te Depth to Possi	ible Void (coal m	ine, karst, other):	None Anticipat	ted	
, <u> </u>		n contain coal sea an active mine?	ms Yes	No	<u>x</u>	············
(a) If Yes, pro	vide Mine Info:	Name:				
		Depth:			··	
		Seam:		<b>Daniel</b>		
		Owner:	Office (	ECEIVED of Oil and Gas		
			JUL	2 2 2021		
			WV De Environme	partment of ental Protection		

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API NO. 47- 103

03429

OPERATOR WELL NO. Omer Unit 2H
Well Pad Name: Dogwood 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, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	590 *see #19	590 *see #19	CTS, 818 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#	23900	23900	6164 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							1

Buyan Hawi 7-20-21

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"	0.38"	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"	12,630	2500	Lead-HIPOZ & Tall - H	H/POZ-1.44 & 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		

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JUL 2,2 2021

WV Department of Environmental Protection Page 2 of 3

API NO. 47- 103 - 03429

OPERATOR WELL NO. Orner Unit 2H
Well Pad Name: Dogwood Pad

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

Drill, perforate, fracture a new horizontal shallow well and complete Marcellus Shale.

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

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

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 35.96
- 22) Area to be disturbed for well pad only, less access road (acres): 15.40

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 or collar and one every 4th collar or centralizer at shoe joint and one every 3 joints to top of cement in intermediate casingce of Oil and Gas

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

Conductor: no additives, Class A cement.

Surface: Class A cement with 2-3% calcium chloride and 1/4 lb of flake

Intermediate: Class A cement with 1/4 lb of flake, 5 gallons of clay treat

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

# 25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

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

Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

\*Note: Attach additional sheets as needed.

P08/29/2021

API Number 47 - 103

Operator's Well No. Omer Unit 2H

# 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 con	mplete the proposed well work? Yes V No
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste: Noptwell	be used at this site (Onling and Flowback Fluids will be stored in tanks, Cuttings will be tanked and hauled 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:	RECEIVED Office of Oil and Gas
Land Application	0.2 2021
Underground Injection (UIC Per	mit Number Oic Permit # will be provided bit Form WK-54
Reuse (at API Number_Future perm Off Site Disposal (Supply form V	nitted well locations when applicable. API# will be provided on Form W633mment of ) WW-9 for disposal location) (Meadowfill Landville Permit #SWF-1032-98)
Other (Explain_	Northwestern Landfill Permit #SWF-1025/ WV0109410
Will closed loop system be used? If so, describe: Yes, fluid:	s stored in tanks, cuttings removed offsite and taken to landfill.
Drilling medium anticipated for this well (vertical and horize	Surface - Air/Freshwater, intermediate -
-If oil based, what type? Synthetic, petroleum, etc.	
Additives to be used in drilling medium? Please See Attachm	
	ved offsite, etc. Drill cuttings stored in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will	
-Landill or offsite name/permit number?	II Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV0109410)
	d Gas of any load of drill cuttings or associated waste rejected at any ded within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violations law or regulation can lead to enforcement action.  I certify under penalty of law that I have personal application form and all attachments thereto and that, but	and conditions of the GENERAL WATER POLLUTION PERMIT issued a Virginia Department of Environmental Protection. I understand that the sof any term or condition of the general permit and/or other applicable ally examined and am familiar with the information submitted on this ased on my inquiry of those individuals immediately responsible for its true, accurate, and complete. I am aware that there are significant sibility of fine or imprisonment.
Company Official Signature Gretchen Kohler	
Company Official (Typed Name) Gretchen Kohler	
Company Official Title_Director, Environmental and Regulator	ory Compliance
Subscribed and sworn before me this 1St day of Auxondia Costilla My commission expires July 23, 2	Notary Public ALEXANDRIA CASTILLO NOTARY PUBLIC STATE OF COLORADO

		Operator a	Well No. Orner Unit 2H
Antero Resources Cor	poration		
roposed Revegetation Treatmen	nt: Acres Disturbed 35.96 a	cres Prevegetation	рН
Lime 2-4	_ Tons/acre or to correct to pl	4 6.5	
Fertilizer type Hay or st	raw or Wood Fiber (will be used	where needed)	
Fertilizer amount 500		bs/acre	
Mulch 2-3	Tons	acre	
Well Pad Construction	on (15.40acres) + Access Road Constructi = Total	on (9.89 acres) + Topsoil Stockpile (5.97 acres) + Disturbed Area 35.96 Acres	- Additional Cleaning (4.7 acres)
	<u>Se</u>	ed Mixtures	
Тетр	orary	Per	manent
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Crownvetch	10-15
Field Bromegrass	40	Tall Fescue	30
	sed type (Doowood Pad Design)	See attached Table IV-4A for addition	nal seed type (Dogwood Ped Design)
ee attached Table IV-3 for additional se			
for type of grass seed requestach:  Itaps(s) of road, location, pit and rovided). If water from the pit wate	ested by surface owner  d proposed area for land appli will be land applied, include o	*or type of grass seed rec cation (unless engineered plans inc imensions (L x W x D) of the pit, a	cluding this info have been
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trach:  faps(s) of road, location, pit and rovided). If water from the pit water application a creage, of the land application a chotocopied section of involved lan Approved by:	ested by surface owner  d proposed area for land application of the land applied, include of the land applied.  7.5' topographic sheet.	cation (unless engineered plans incimensions (L x W x D) of the pit, a	cluding this info have been

# Planned Disposal Method-UIC

				Coordinates
API	Operator	Well Name	State	Lat/Long NAD 83
				39.226075, -
3400923821	Central Environmental Services, LLC	K&H Partners LLC #1 (SWIW #8)	ОН	81.761403
2400022822		K&H Partners LLC #2 (SWIW #10)		39.234815, -
3400923823	Central Environmental Services, LLC	NAM Partners LLC #2 (5WIVV #10)	ОН	81.757166
				39.235082, -
3400923824	Central Environmental Services, LLC	K&H Partners LLC #3 (SWIW #11)	ОН	81.748312
				39.337326, -
3416729731	Redbird Development, LLC	Redbird #2 (SWIW #18)	ОН	81.674314
				38.964640, -
3410523651	GreenHunter Water, LLC	Murphy Hunter #3 (SWIW #23)	ОН	81.785835
				38.969738, -
3410523637	GreenHunter Water, LLC	Mills Hunter #3 (SWIW #22)	ОН	81.786124
				38.932919, -
3410523652	GreenHunter Water, LLC	Mills Hunter #2 (SWIW #21)	ОН	81.788641
		   Mills Hunter #1 /SW/IW/ #19)		38.940522, -
3410523619	GreenHunter Water, LLC	Mills Hunter #2 (SWIW #21)  Mills Hunter #1 (SWIW #19)  Warren Drilling Co. (SWIW #5)  Travis Unit (SWIW #7)	ОН	81.787707
3412123995		Warren Drilling Co. (SWIW#6)		39.653808, -
J-12123333	GreenHunter Water, LLC	Warren Stilling Co. (SWV) Ogi	ОН	81.475312
		Warren Drilling Co. (SWIW,#6)  En Wy Department of Clearwater III #1 (SWIW #15)	1	39.656785, -
3412124086	GreenHunter Water, LLC	Travis Unit (SWIW #7) Travis Unit (SWIW #7)	ОН	81.480809
		"al profe of	1	40.027300, -
3405923986	Clearwater Solutions, LLC	Clearwater III #1 (SWIW #15)	ОН	81.511168
				40.027878, -
3405924473	Clearwater Solutions, LLC	Bo #1 (SWIW #20)	ОН	81.509974
				40.027364, -
3405924445	Clearwater Solutions, LLC	Effie #1 (SWIW#17)	ОН	81.449869
		Ritchie Hunter #2 (2W-1652)		39.256623, -
4708510142	GreenHunter Water, LLC	(UIC2D08510142)	WV	81.097484

## 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

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

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26. X-Cide 102

Biocide

27. Soda Ash

WV Department of Environmental Protection

Sodium Carbonate – Alkalinity Control Agent

28. Clay Trol

Amine Acid complex – Shale Stabilizer

29. Sulfatrol

Sulfonated Asphalt – Shale Control Additive

30. Xanvis

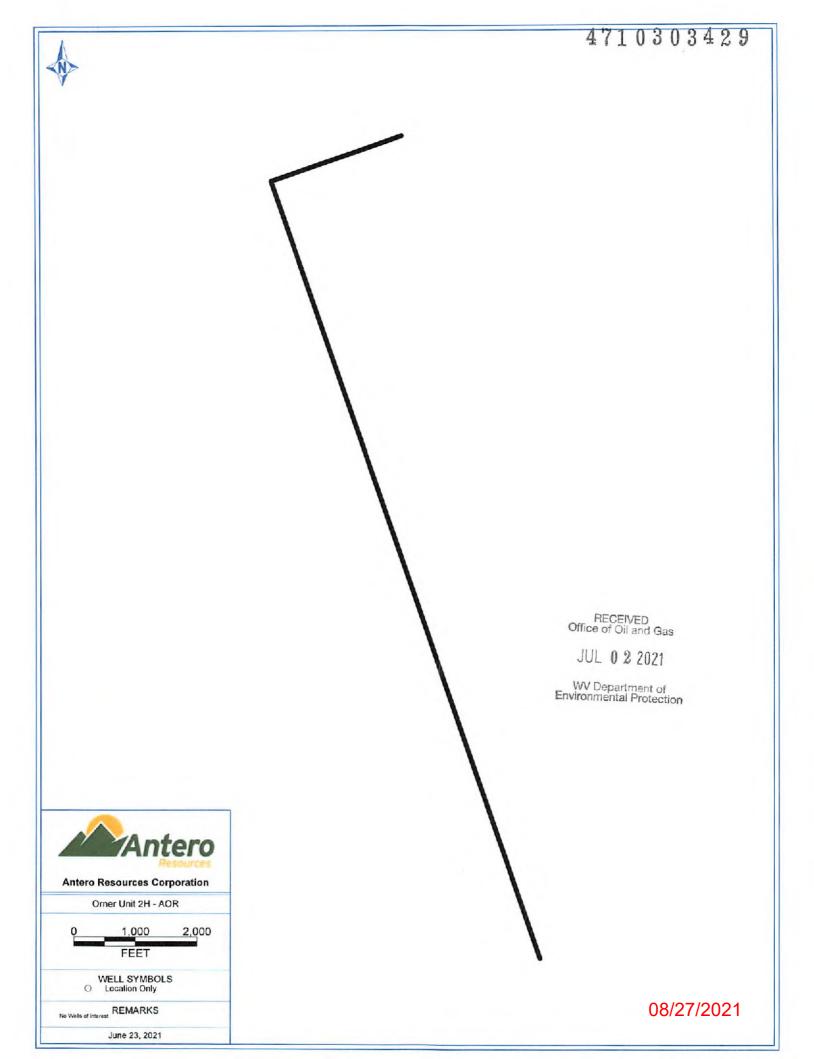
Viscosifier For Water-Based Muds

31. Milstarch

Starch - Fluid Loss Reducer For Water Based Muds

32. Mil-Lube

**Drilling Fluid Lubricant** 





911 Address 3501 Furbee Ridge Rd, Reader, WV 26167

# Well Site Safety Plan Antero Resources

Buyan Ham' 7-20-21

Well Name: Daags Unit 1H, Gribben Unit 1H & 2H and Orner

Unit 1H & 2H

Pad Location: Dogwood PAD Wetzel County/Green District

**GPS Coordinates:** 

Entrance - Lat 39.525128' Long -80.733219 '(NAD 83)

Pad Center - Lat 39.526388' Long -80.724039' (NAD 83)

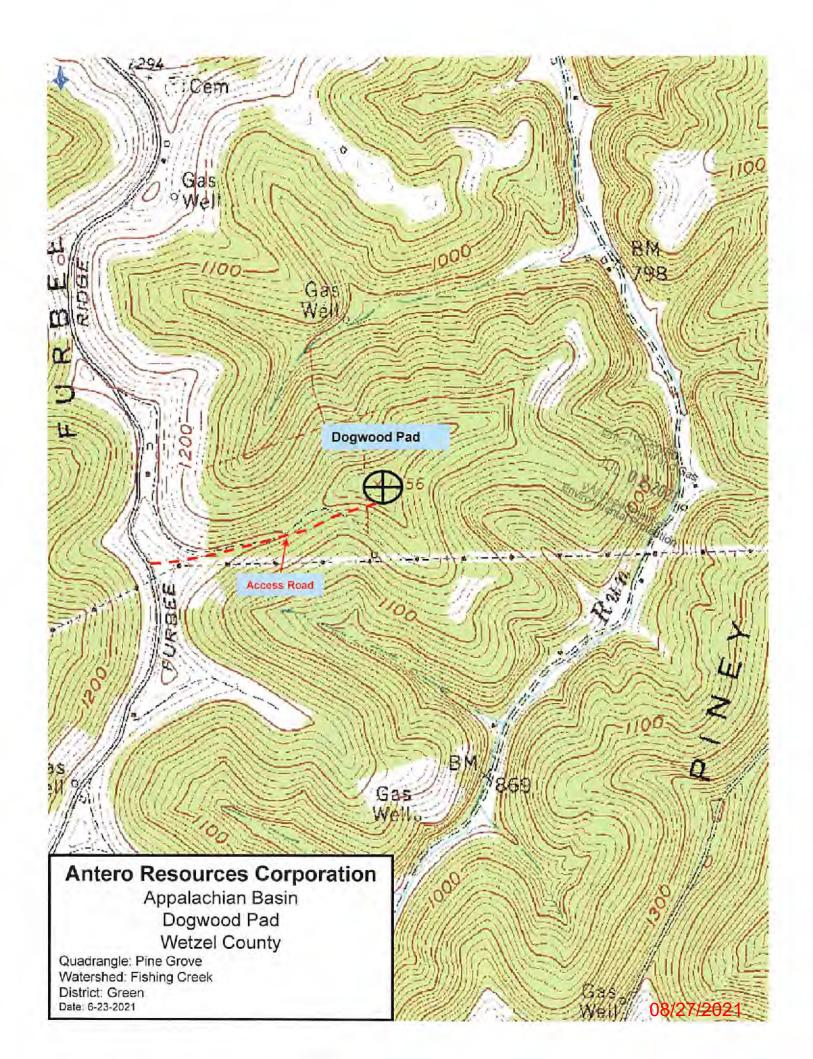
#### **Driving Directions:**

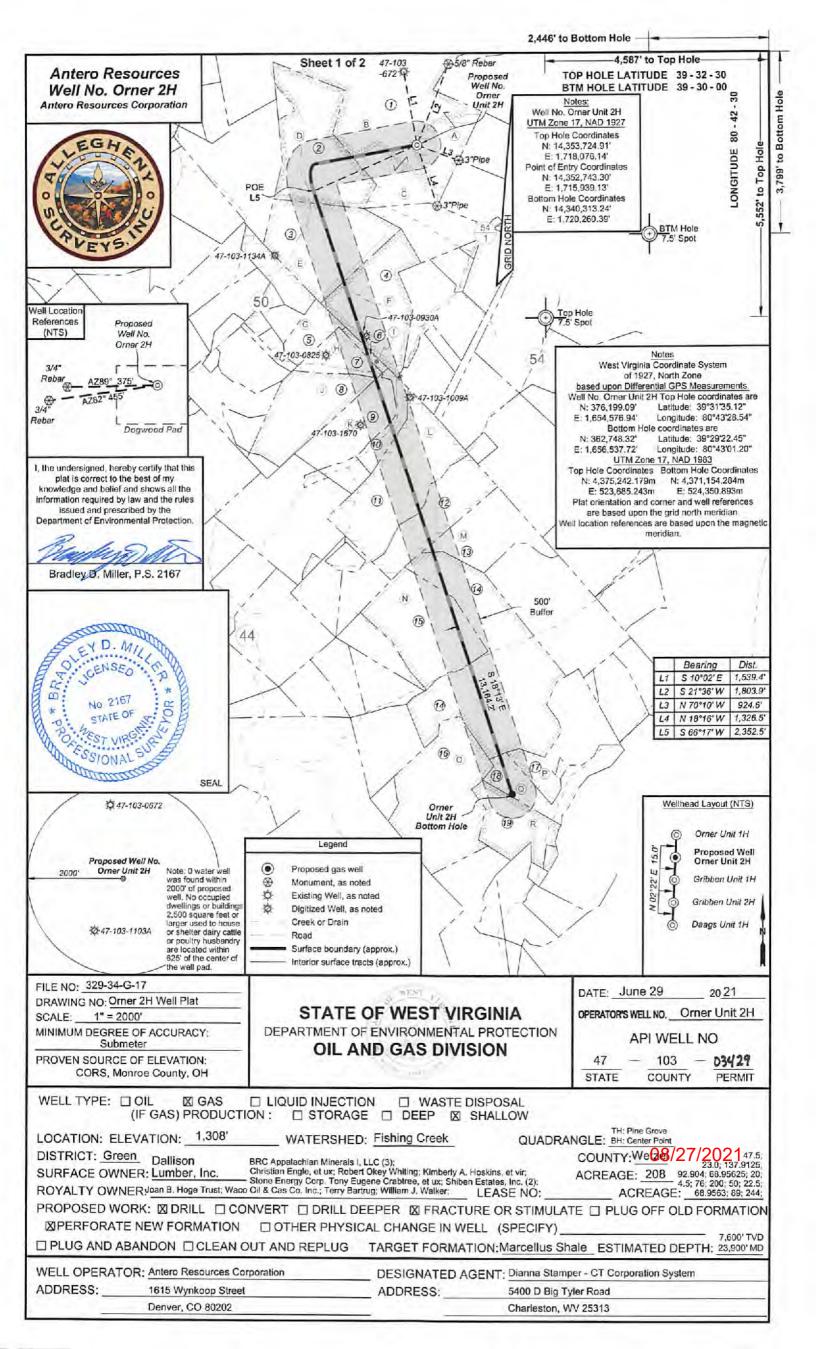
From the intersection of Broad St and Main St in Middlebourne: Head north east on WV - 18 N/Main St toward Wetzel Ave for 3.7 miles. Turn right toward Elk Fork for 302 feet. Continue onto Elk Fork for 0.4 miles. Turn right onto Elk Fork Rd for 9.6 miles. Turn right onto Wetzel Tyler Ridge Rd for 1.0 mile. Sharp left onto Ross Run for 0.1 miles. Ross Run turns slightly right and becomes Furbee Ridge Rd for 1.2 miles. Access road will be on your right.

#### **Alternate Route:**

From the volunteer fire department in Reader WV: Head north on WV-20 N toward Spice Lane for 0.5 miles. Turn left onto Co Rd 40/2 for 0.4 miles. Turn left onto Brush Run Rd for 466 feet. Turn left onto Furbee Ridge Rd for 3.3 miles. Access road will be on your left or Oil and Gas

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





Antero Resources Well No. Orner 2H Antero Resources Corporation



	Leases
A	Joan B. Hoge Trust
В	Waco Oil & Gas Company Inc.
C	BRC Appalachian Minerals I. LLC
D	Terry Bartrug
Е	BRC Appalachian Minerals I, LLC
F	William J. Walker
G	Sandra D. Derby
Н	J.M. Mayfield, et al
1	Tony Eugene Crabtree, et ux
J	Shiben Estates, Inc.
K	Shiben Estates, Inc.
L	Christian Engle, et ux
M	Robert Okey Whiting
N	BRC Appalachian Minerals I, LLC
0	Tribune Resources Minerals, LLC
P	Frank L, Straight
Q	Kimberly A. Hoskins, et vir
R	Sharon Hosey Seckman

ID	TM/Par	Owner	Bk/Pg	Acres
1	20-13	Dallison Lumber Inc.	440/243	208.00
2	20-12	Terry Bartrug	361/465	92.90
3	20-24	Lloyd Conley	355/553	89.00
4	20-31	Tony E. & Marion L. Crabtree	365/337	68.95
5	20-42	Sandra D. Derby	384/585	21.80
6	20-44	Tony E. & Marion L. Crabtree	365/337	4.50
7	22-40	Robert L. Jr. & Donna Jones	436/692	16.00
8	22-5	Robert L. Jr. & Donna K. Jones	297/500	76.00
9	22-14.1	Tony E. & Marion L. Crabtree	365/337	41.80
10	22-6	Denzil W. Sloan	305/582	21.23
11	22-19	Coastal Forest Resources Co.	444/105	155.30
12	22-20	Lawrence J. Bish, et al	420/736	63.23
13	22-29	Timothy L. Yoho	377/411	50.00
14	22-34	Coastal Forest Resources Co.	444/105	172.91
15	22-28	Coastal Forest Resources Co.	444/105	77.10
16	3-11	Dominic J. & Delmer M.Kowalski	317/307	106.94
17	25-2	Coastal Forest Resources Co.	444/105	61.93
18	25-3	Coastal Forest Resources Co.	444/105	32.00
19	25-5	Christopher & Dennis Doyle	410/80	39.36

FILE NO:	329-34-G-17
DRAWING	NO: Orner 2H Well Plat
SCALE: _	1" = 2000'
MINIMUM	DEGREE OF ACCURACY: Submeter

PROVEN SOURCE OF ELEVATION:

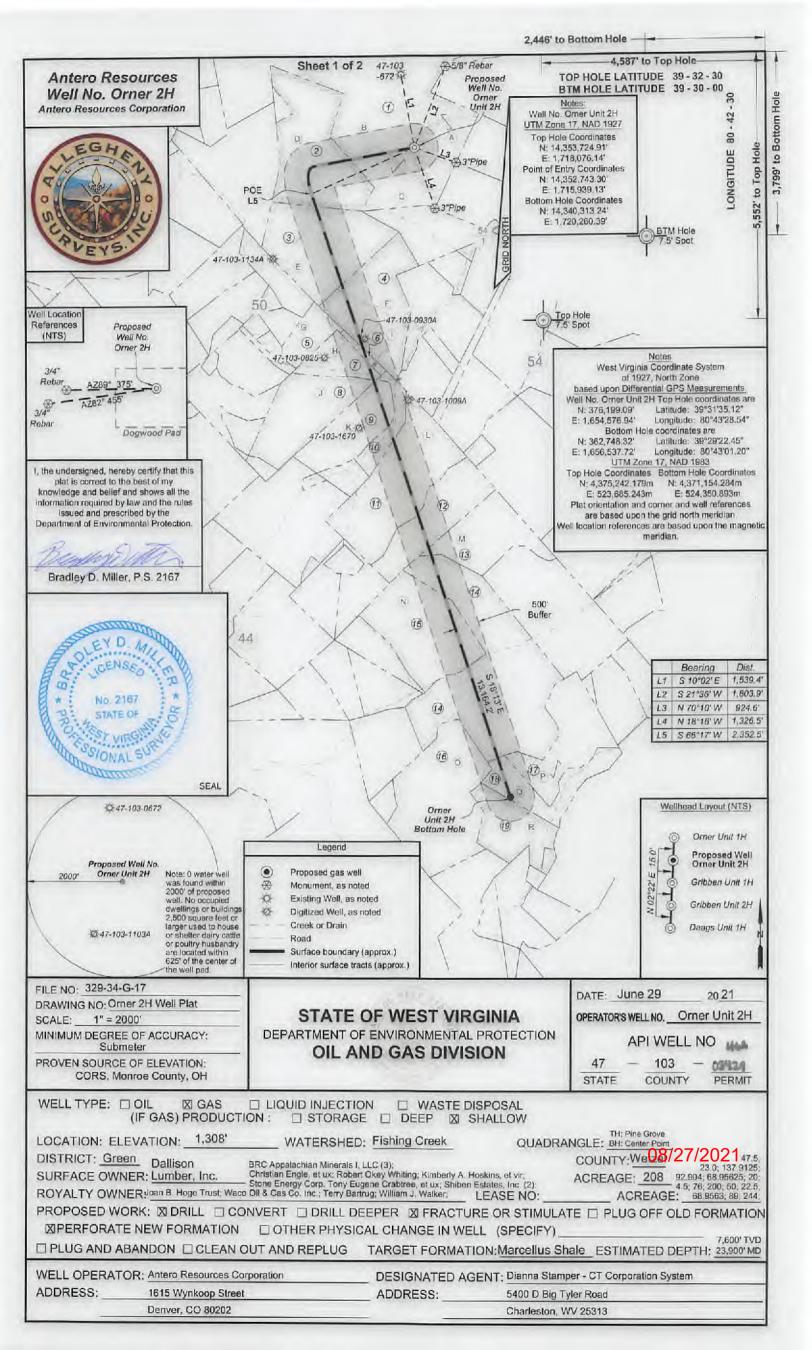
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION

WEST

DATE:_	June 29	2021
OPERATO	R'S WELL NO.	Orner Unit 2H
	API W	ELL NO

Charleston, WV 25313

CORS, Monroe County, OH	and ,	STATE COUNTY PERMIT
WELL TYPE: □ OIL ☑ GAS (IF GAS) PRODUC	☐ LIQUID INJECTION ☐ WASTE DISPO	
PROPOSED WORK: ☑ DRILL ☐ C ☑ PERFORATE NEW FORMATION	ONVERT DRILL DEEPER MFRACTURE CONTROL OTHER PHYSICAL CHANGE IN WELL	QUADRANGLE: BH: Center Point  COUNTY: We 28 / 27 / 20 21 47.5; 23.0; 137.9125;
WELL OPERATOR: Antero Resources C ADDRESS: 1615 Wynkoop Stree Denver, CO 80202		r: Dianna Stamper - CT Corporation System 5400 D Big Tyler Road Charleston, WV 25313



Antero Resources Well No. Orner 2H Antero Resources Corporation



	Leases
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Н	J.M. Mayfield, et al
1	Tony Eugene Crabtree, et ux
J	Shiben Estates, Inc.
K	Shiben Estates, Inc.
L	Christian Engle, et ux
M	Robert Okey Whiting
N	BRC Appalachian Minerals I, LLC
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18	25-3	Coastal Forest Resources Co.	444/105	32.00
19	25-5	Christopher & Dennis Doyle	410/80	39.36

FILE NO: 329-34-G-17

DRAWING NO: Orner 2H Well Plat

SCALE: 1" = 2000'

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

OPERATOR'S WELL NO. Orner Unit 2H

API WELL NO. 47 — 103 — 124

STATE COUNTY PERMIT

CORS, Monroe County, OH		STATE	COUNTY	PERMIT
WELL TYPE: ☐ OIL ☐ GAS (IF GAS) PRODUCT	☐ LIQUID INJECTION ☐ WASTE DISPOSAL ION: ☐ STORAGE ☐ DEEP ☒ SHALLOW			
	BRC Appalachian Minerals I, LLC (3): Christian Engle, et ux; Robert Okey Whiting; Kimberly A. Hoskins, et vir; - Stone Energy Corp. Tony Eugene Crabtree, et ux; Shiben Estates, Inc. (3 o Oil & Cas Co. Inc.; Terry Bartrug; William J. Walker; LEASE No.	UADRANGLE: BH: COUNTY  2): ACREAGE  O: AC	: <u>208</u> 92.90 CREAGE: 6	4; 68.95625; 20 6; 200; 50; 22.5; 8.9563; 89; 244;
PROPOSED WORK: ☑ DRILL ☐ CO ☑PERFORATE NEW FORMATION ☐ PLUG AND ABANDON ☐ CLEAN (		CIFY)	G OFF OLD F	7,600° TVD
WELL OPERATOR; Antero Resources Co ADDRESS: 1615 Wynkoop Street	BEGIGNATIES NOETH.	na Stamper - CT Corp	oration System	
Donwer CO 90202	Char	dector MAY 25212		

Operator's Well Number

Orner Unit 2H

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

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

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

	Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
В	Waco Oil & Gas Company Inc. Lease Waco Oil & Gas Company Inc.	Antero Resources Corporation	1/8+	184A/0741
P	Terry Bartrug Lease Terry Bartrug	Antero Resources Corporation	1/8+	192A/0903
C	BRC Appalachian Minerals I LLC Lease BRC Appalachian Minerals I LLC BRC Working Interest Company LLC Chesapeake Appalachia LLC Statoil USA Onshore Properties SWN Exchange Title Holder LLC SWN Production Company Antero Exchange Properties LLC	BRC Working Interest Company LLC Chesapeake Appalachia LLC Statoil USA Onshore Properties Inc. SWN Exchange Title Holder LLC SWN Production Company Antero Exchange Properties LLC Antero Resources Corporation	1/8+ Assignment Assignment Assignment Merger Assignment Merger	102A/0505 103A/0470 120A/0109 158A/0801 0013/0296 177A/0533 0013/0311
E	BRC Appalachian Minerals I LLC Lease BRC Appalachian Minerals I LLC BRC Working Interest Company LLC Chesapeake Appalachia LLC Statoil USA Onshore Properties SWN Exchange Title Holder LLC SWN Production Company Antero Exchange Properties LLC	BRC Working Interest Company LLC Chesapeake Appalachia LLC Statoil USA Onshore Properties Inc. SWN Exchange Title Holder LLC SWN Production Company Antero Exchange Properties LLC Antero Resources Corporation	1/8+ Assignment Assignment Assignment Merger Assignment Merger	102A/0505 103A/0470 120A/0109 158A/0801 0013/0296 177A/0533 0013/0311
F	William J Walker Lease William J Walker	Antero Resources Corporation	1/8+	197A/361
I	Tony Eugene Crabtree et ux Lease Tony Eugene Crabtree et ux	Antero Resources Corporation	1/8+	230A/34
Ħ	JM Mayfield et al Lease JM Mayfield et al Carnegie Natural Gas Company Perkins Oil and Gas Inc Stone Energy Corporation EQT Production Company	Carnegie Natural Gas Company Perkins Oil and Gas Inc Stone Energy Corporation EQT Production Company Antero Resources Corporation	1/8+ Assignment Assignment Assignment Assignment	125A/529 74A/277 126A/958 183A/305 230A/783
٦	Shiben Estates Inc Lease Shiben Estates Inc	Antero Resources Corporation	1/8+	257A/29
K	Shiben Estates Inc Lease Shiben Estates Inc	Antero Resources Corporation	1/8+	08/27/202 <sub>47A/49</sub>

Operator's Well Number

Orner Unit 2H

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

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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
	Christian Engle et ux Lease			
	Christian Engle et ux	CB Shaffer	1/8	55/82
	CB Shaffer	South Penn Oil Company	Assignment	Unknown
/	South Penn Oil Company	Tri State Gas Company	Assignment	59/429
	Tri State Gas Company	Manufactures Light and Heat Company	Assignment	9A/141
	Manufactures Light and Heat Company	AM Snider and Duane M Snider and Kathleen	Assignment	48A/109
		Rhinehart Partners dba Hundred Gas Company		
	AM Snider and Duane M Snider and Kathleen	Carl D Perkins	Assignment	256/189
	Rhinehart partners dba Hundred Gas Company		-	
	Carl D Perkins	Perkins Oil and Gas Inc	Assignment	55A/62
	Perkins Oil and Gas Inc	Stone Energy Corporation	Assignment	75A/621
	Stone Energy Corporation	EQT Production Company	Assignment	126A/958
	EQT Production Company	Antero Resources Corporation	Assignment	183A/305
	Robert Okey Whiting Lease			
N	Robert Okey Whiting	Antero Resources Corporation	1/8+	198A/537
	BRC Appalachian Minerals I LLC Lease			
	BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	1/8+	102A/505
1	BRC Working Interest Company LLC	Chesapeake Appalachian LLC	Assignment	103A/470
1	Chesapeake Appalachian LLC	Statoil USA Onshore Properties Inc	Assignment	120A/109
	Statoil USA Onshore Properties Inc	SWN Exchange Title Holder LLC	Assignment	158A/801
	SWN Exchange Title Holder LLC	SWN Production Company LLC	Merged	13/296
	SWN Production Company LLC	Antero Exchange Properties LLC	Assignment	177A/533
	Antero Exchange Properties LLC	Antero Resources Corporation	Merged	13/311

WW-6A1 (5/13)

Operator's Well No.	Orner Unit 2H
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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 -

- (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 Kimberly A.Hoskins et vir Lease

Kimberly A. Hoskins et vir

Antero Resources Corporation

1/8+

219A/932

\*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.

Well Operator: Antero Resources Corporation

By: Brian Kuhn

Its: SR VP of Land

Page 1 of 1



Antero Resources 1515 Wynkoop Street Denver, CO 80202 Office 303.357.7310 Fax 303.357.7315

June 30, 2021

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

RE: Orner Unit 2H

Quadrangle: Pine Grove 7.5'

Wetzel County/Green District, West Virginia

Mr. Martin:

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

Sincerely,

Brett Kuhn Senior Landman

08/27/2021

JUL 02 (021

WW-6AC (1/12)

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

Date of Notice Certification: 08/30/2021			API No. 47- 103 -		
				Vell No. Omer	
		V	Vell Pad Na	me: Dogwoo	d Pad
Notice has l					
	ne provisions in West Virginia Code	§ 22-6A, the Operator has provide	ded the requ	ired parties w	ith the Notice Forms listed
	tract of land as follows:	_			
State:	West Virginia			523685.243m	
County: District:	Wetzel Green		-	4375242,179m CO. Route 50	
Quadrangle:	Pine Grove 7.5'	Public Road Access Generally used farm	-	Dallison Lumber I	/
Watershed:	Fishing Creek	Generally used fam	n name.	Danison Edinber	IIG.
watersned.	Fishing Creek	<del></del>			
information r of giving the requirements Virginia Cod-	ed the owners of the surface description description described by subsections (b) and (c), so surface owner notice of entry to so of subsection (b), section sixteen e § 22-6A-11(b), the applicant shall have been completed by the applicant	section sixteen of this article; (ii) survey pursuant to subsection (a) of this article were waived in we tender proof of and certify to the	that the request, section to the viriting by the	uirement was n of this article ne surface ow	deemed satisfied as a result cle six-a; or (iii) the notice oner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Corator has properly served the require ECK ALL THAT APPLY		s Notice Ce	rtification	OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY o	r I NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS (		47.4	RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SUR	VEY or  NO PLAT SURVEY	Y WAS CO	NDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL OF 6A4	NOTICE OF ENTRY FOR PE WAS CONDUCTED or	ATSURY	EY Gae	RECEIVED/ NOT REQUIRED
■ 4 NO	TICE OF PLANNED OPERATION	(PLEASE ATTACH)	Cartment of	EOWNER	□ RECEIVED
- 4. NO	TICE OF FEATION	611	-0110	7	LI RECEIVED
■ 5. PUE	BLIC NOTICE WW N				☐ RECEIVED
■ 6. NO	TICE OF APPLICATION 6A				☐ 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.

Its:

#### 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

By: Diana Hoff Diana O Ha

Diana Hoff Diana O. Hoff
Senior VP of Operations

Telephone: 303-357-7310

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Email: mstanton@anteroresources.com

NOTARY SEAL

ALEXANDRIA CASTILLO

NOTARY PUBLIC

STATE OF COLORADO

NOTARY ID 20184029703

MY COMMISSION EXPIRES JULY 23, 2022

Subscribed and sworn before me this St

Notory Publ

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

WW-6A (9-13) API NO. 47- 103 OPERATOR WELL NO. Orner Unit 2H
Well Pad Name: Dogwood Pad

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS $\underline{\text{NOTICE OF APPLICATION}}$

Notice Time Requirement: notice shall be provided no lat	ter than the filing date of permit application.
Date of Notice: 7/1/2021 Date Permit Application Filed Notice of:	1: <u>7/1/2021</u>
	F APPROVAL FOR THE N OF AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-	6A-10(b)
	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
the surface of the tract on which the well is or is proposed to be oil and gas leasehold being developed by the proposed well well well described in the erosion and sediment control plan submitted operator or lessee, in the event the tract of land on which the word coal seams; (4) The owners of record of the surface tract well work, if the surface tract is to be used for the placement, impoundment or pit as described in section nine of this article have a water well, spring or water supply source located within provide water for consumption by humans or domestic animal proposed well work activity is to take place. (c)(1) If more that subsection (b) of this section hold interests in the lands, the agreeords of the sheriff required to be maintained pursuant to seprovision of this article to the contrary, notice to a lien holder	and the well plat to each of the following persons: (1) The owners of record of the located; (2) The owners of record of the surface tract or tracts overlying the rork, if the surface tract is to be used for roads or other land disturbance as pursuant to subsection (c), section seven of this article; (3) The coal owner, well proposed to be drilled is located [sic] is known to be underlain by one or tor tracts overlying the oil and gas leasehold being developed by the proposed construction, enlargement, alteration, repair, removal or abandonment of any c; (5) Any surface owner or water purveyor who is known to the applicant to in one thousand five hundred feet of the center of the well pad which is used to la; and (6) The operator of any natural gas storage field within which the an three tenants in common or other co-owners of interests described in applicant may serve the documents required upon the person described in the action eight, article one, chapter eleven-a of this code. (2) Notwithstanding any is not notice to a landowner, unless the lien holder is the landowner. W. Va. also provide the Well Site Safety Plan ("WSSP") to the surface owner and any esting as provided in section 15 of this rule.
☑ Application Notice ☑ WSSP Notice ☑ E&S Plan N	Notice Well Plat Notice is hereby provided to:
☑ SURFACE OWNER(s) Name: Dallison Lumber Inc. Address: PO Box 21 Jacksonburg, WV 26377 Name: Dallison Lumber Inc. Address: PO Box 159 Jacksonburg, WV 26377	Notice
☑ SURFACE OWNER(s) (Road and/or Other Disturbance Name: Dallison Lumber Inc.  Address: PO Box 21  Jacksonburg, WV 26377  Name: Dallison Lumber Inc.	WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE  Name: NONE IDENTIFIED WITHIN 1500'  Address:
Address: PO Box 159  Jacksonburg, WV 26377  ☐ SURFACE OWNER(s) (Impoundments or Pits)  Name:	OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: Address:
Address:	*Please attach additional forms if necessary

API NO. 47-103 - 03429
OPERATOR WELL NO. Omer Unit 2H
Well Pad Name: Dogwood Pad

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(h), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

#### This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

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

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in file 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 with WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oi-and-pus/pages/default.aspx">www.dep.wv.gov/oi-and-pus/pages/default.aspx</a>.

#### 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 eattle 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. (c) 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. 47-103 OPERATOR WELL NO. Omer Unit 2H Well Pad Name: Dogwood 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 deter the action of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required value service until authorized to do so by the secretary or a court of competent jurisdiction.

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 applied, may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty lays after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written described as to the location or construction of the applicant's proposed well work to the Secretary at:

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

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

WW-6A (8-13) API NO. 47- 103 - 03

OPERATOR WELL NO. Orner Unit 2H

Well Pad Name: Dogwood Pad

#### Time Limits and Methods for Filing Comments.

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

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

#### **Comment Requirements**

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

Disclaimer: All comments received will be placed on our web site <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> 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.

JUL 0 2 2021

Environmental Piret School

API NO. 47- 103 OPERATOR WELL NO. Orner Unit 2H Well Pad Name: Dogwood 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.

Subscribed and sworn before me this 1st day of July, 2021.

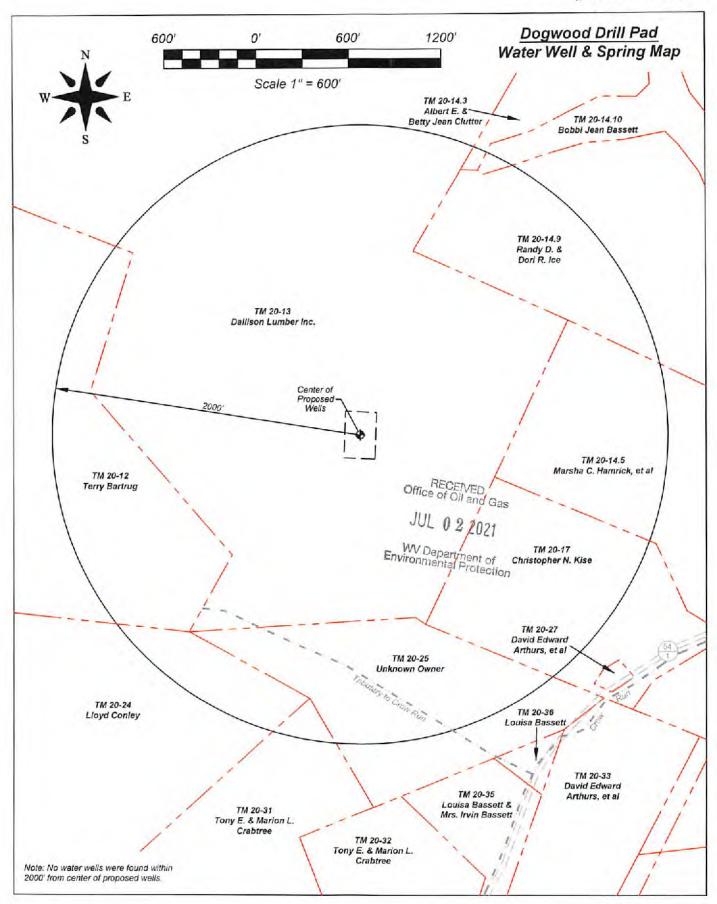
Alexandia X Cottuto Notary Public

My Commission Expires

Office of Oil and Gas

JUL 0 2 2021

WV Department of Environmental Protection



WW-6A4 (1/12) Operator Well No.

Multiple Wells on Dogwood Pad

# 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 Date of Notic		Date Permit Application Filed:	permit application.	
Delivery met	hod pursuant to West Virgin	a Code § 22-6A-16(b)		
☐ HAND	■ CERTIFIED N	AII.		
DELIVE		EIPT REQUESTED		
receipt reques drilling a hori of this subsec subsection ma	ted or hand delivery, give the s zontal well: <i>Provided</i> , That notion as of the date the notice w by be waived in writing by the	east ten days prior to filing a permit application, urface owner notice of its intent to enter upon the price given pursuant to subsection (a), section to us provided to the surface owner: <i>Provided, how</i> urface owner. The notice, if required, shall include onic mail address of the operator and the operator	ne surface owner's land for the purpose of en of this article satisfies the requirements vever, That the notice requirements of this ude the name, address, telephone number,	
Notice is he	reby provided to the SURF	ACE OWNER(s):		
Name: Dallison		Name: Dallison Lumber Inc	(2nd Address)	
Address: POB		Address: PO Box 159	(2nd Address)  Office of Oil and Gas	
Jackso	onburg, WV 26377	Jacksonburg, WV 26377	JUL 0 2 2021	
the surface ov State: County: District: Quadrangle: Watershed:	vner's land for the purpose of d West Virginia Wetzel Green Pine Grove 7.5' Fishing Creek	b), notice is hereby given that the undersignet illing a horizontal well on the tract of land as for the undersignet illing a horizontal well on the tract of land as for the undersigned in the undersigne	Metroperator has an intent to enter upon illows: ental protection  4375242.179  Furbee Ridge Road (CR 50)  Dallison Lumber Inc	
Pursuant to V facsimile nun related to hor	ber and electronic mail addre izontal drilling may be obtained	6(b), this notice shall include the name, address of the operator and the operator's authorized from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.de	ed representative. Additional information f Environmental Protection headquarters.	
Notice is her	reby given by:			
	: Antero Resources Corporation	Authorized Representative:	Mallory Stanton	
Address:	1615 Wynkoop St. Address:	1615 Wynkoop St.		
	Denver, CO 80202		Denver, CO 80202	
Telephone:	303-357-7223	Telephone:	303-357-7223	
Email:	mstanton@anteroresources.com	Email:	mstanton@anteroresources.com	
Facsimile:	303-357-7315	Facsimile:	303-357-7315	
			2 1012 101 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

### 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="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

WW-6A5 (1/12) Operator Well No. Omer Unit 2H

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

Date of Notic	e: 07/01/2021 Date Perm	nit Application Filed: 07/01/2021	
Delivery met	hod pursuant to West Virginia Coo	de § 22-6A-16(c)	
CERTI	FIED MAIL	☐ HAND	
	RN RECEIPT REQUESTED	DELIVERY	
return receipt the planned of required to be drilling of a l damages to the	requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section norizontal well; and (3) A proposed e surface affected by oil and gas ope	surface owner whose land will be his subsection shall include: (1) ten of this article to a surface ow surface use and compensation a rations to the extent the damages	mit application, an operator shall, by certified mail to used for the drilling of a horizontal well notice of A copy of this code section; (2) The information mer whose land will be used in conjunction with the agreement containing an offer of compensation for are compensable under article six-b of this chapter. ddress listed in the records of the sheriff at the time
	eby provided to the SURFACE OV		,
(at the addres	s listed in the records of the sheriff at		
A. C.			
Name: Dallison		Name: Dallison L	
Name: Dallison Address: PO E	ox 21	Address: PO Bo	ox 159
Name: Dallison Address: POE Jacksonburg, WV  Notice is her	ox 21 26377 eby given:	Address: PO Bo Jacksonbur	
Name: Dallison Address: POE Jacksonburg, WV  Notice is her Pursuant to W operation on State: County:	ox 21 26377 eby given:	Address: PO Bo Jacksonbur otice is hereby given that the unde tose of drilling a horizontal well of UTM NAD 83	ersigned well operator has developed a planned on the tract of land as follows: asting: 523685.243m orthing: 4375242.179m
Name: Dallison Address: POE Jacksonburg, WV  Notice is her Pursuant to W operation on State: County: District:	eby given: /est Virginia Code § 22-6A-16(c), no the surface owner's land for the purp	Address: PO Bo Jacksonbur otice is hereby given that the under toose of drilling a horizontal well of UTM NAD 83 N Public Road Access	ersigned well operator has developed a planned on the tract of land as follows: asting: 523685.243m orthing: 4375242.179m :: CO. Route 50
Name: Dallison Address: PO E Jacksonburg, WV  Notice is her Pursuant to W operation on State: County: District: Quadrangle:	eby given: /est Virginia Code § 22-6A-16(c), no the surface owner's land for the purp West Virginia Wetzel	Address: PO Bo Jacksonbur otice is hereby given that the unde tose of drilling a horizontal well of UTM NAD 83	ersigned well operator has developed a planned on the tract of land as follows: asting: 523685.243m orthing: 4375242.179m .: CO. Route 50
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Name: Dallison Address: POE Jacksonburg, WV Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information in	eby given:  /est Virginia Code § 22-6A-16(c), no the surface owner's land for the purp  West Virginia  Wetzel  Green  Pine Grove 7.5'  Fishing Creek  Shall Include:  /est Virginia Code § 22-6A-16(c), the dby W. Va. Code § 22-6A-10(b) to ell; and (3) A proposed surface use an ed by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE,	Address: PO Bo Jacksonbur  Potice is hereby given that the under some of drilling a horizontal well of UTM NAD 83  Public Road Access Generally used farm  It is notice shall include: (1)A copy to a surface owner whose land and compensation agreement contextent the damages are compens obtained from the Secretary, at	ersigned well operator has developed a planned on the tract of land as follows: asting: 523685.243m orthing: 4375242.179m :: CO. Route 50
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Name: Dallison Address: POE Jacksonburg, WV Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	eby given:  /est Virginia Code § 22-6A-16(c), no the surface owner's land for the purp  West Virginia  Wetzel  Green  Pine Grove 7.5'  Fishing Creek  Shall Include:  /est Virginia Code § 22-6A-16(c), the d by W. Va. Code § 22-6A-10(b) to ell; and (3) A proposed surface use an ed by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE, fault.aspx.  T: Antero Resources Corporation	Address: PO Bo Jacksonbur Dacksonbur Dacksonbur Dacksonbur Dacksonbur Dacksonbur Dacksonbur Dackson Da	ersigned well operator has developed a planned on the tract of land as follows: asting: 523685.243m orthing: 4375242.179m :: CO. Route 50 In name: Dallison Lumber, Inc  Office of Oil and Gas  y of this code section; (2) The information required will be used in conjunction with the drilling of a taining an offer of Compensation of the damages to the sable under article six-b of this chapter. Additional is the WV Department of Environmental Protection
Name: Dallison Address: PO E Jacksonburg, WV  Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed:  This Notice S Pursuant to W to be provide horizontal we surface affect information in headquarters, gas/pages/def	eby given: /est Virginia Code § 22-6A-16(c), no the surface owner's land for the purp West Virginia Wetzel Green Pine Grove 7.5" Fishing Creek  Shall Include: /est Virginia Code § 22-6A-16(c), the deby W. Va. Code § 22-6A-10(b) to deby will and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE, fault.aspx.	Address: PO Bo Jacksonbur Address: PO Bo Jacksonbur Date is hereby given that the undersone of drilling a horizontal well of the UTM NAD 83 Not public Road Access Generally used farmatic in a surface owner whose land and compensation agreement contextent the damages are compens obtained from the Secretary, at Charleston, WV 25304 (304-9) Address: 1615 W	ersigned well operator has developed a planned on the tract of land as follows: asting: 523685,243m orthing: 4375242.179m CO. Route 50 name: Dallison Lumber, Inc  Office of Oil and Gas  y of this code section; (2) The information required will be used in conjunction with the drilling of a taining an offer of Compensation of damages to the sable under article six-b of this chapter. Additional the WV Department of Environmental Protection 26-0450) or by visiting www.dep.wv.gov/oil-and-  lynkoop Street CO 80202

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="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

API NO. 47- 103 OPERATOR WELL NO. Omer Unit 2H
Well Pad Name: Dogwood 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

WW-6A and required, and State:	ted above, and that I have received copies of a Notic attachments consisting of pages one (1) through _ the well plat, all for proposed well work on the tract of West Virginia	f land as follows: A NAD 83 Easting:	the erosion and sediment control plan. RECEIVED Office of Oil and Gas 523685,243m	
County:	Wetzel	Northing:	4375242 179m 0 2 2021	
District:		lic Road Access:	CO. Route 50	
Quadrangle: Watershed:	Pine Grove 7.5' Gen	erally used farm name:	Dallispy United Environmental Protection	
*Please check	the key that applies	TOD DEED OFF		
*Please check	office being their about their	FOR EVECUE		
		FOR EXECUT	ION BY A NATURAL PERSON	
	CE OWNER	Signature:		
□ SURFA		Signature: Print Name:		
☐ SURFAC	CE OWNER	Signature: Print Name: Date:		
□ SURFAC □ SURFAC □ SURFAC	CE OWNER (Road and/or Other Disturbance)	Signature: Print Name: Date: FOR EXECUT Company:	ION BY A CORPORATION, ETC.	
☐ SURFACE ☐ SURFACE ☐ SURFACE ☐ COAL C	CE OWNER  CE OWNER (Road and/or Other Disturbance)  CE OWNER (Impoundments/Pits)	Signature: Print Name: Date: FOR EXECUT Company: By:	ION BY A CORPORATION, ETC.	
□ SURFAC □ SURFAC □ SURFAC □ COAL C	CE OWNER  CE OWNER (Road and/or Other Disturbance)  CE OWNER (Impoundments/Pits)  OWNER OR LESSEE	Signature:Print Name:Date:  FOR EXECUT Company:By:Its:	ION BY A CORPORATION, ETC.	

#### 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="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.



# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

Byrd E. White, III
Secretary of Transportation/
Commissioner 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

June 15, 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 Dogwood Pad, Wetzel County
Orner Unit 2H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2018-0075 which has been issued to Southwestern Energy for access to the State Road for a well site located off Wetzel County Route 50 SLS MP 3.58.

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, Environmental Protection

Gary K. Clayton, P.E.

Day K. Clayton

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 of 3429 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			
Ethoxylated Nonylphenol	68412-54-4			
Ethoxylated oleylamine	26635-93-8			
Ethylene Glycol	107-21-1			
Glycol Ethers	111-76-2			
Guar gum	9000-30-0			
Hydrogen Chloride	7647-01-0			
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8			
Isopropyl alcohol	67-63-0			
liquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2			
Microparticle	Proprietary			
Petroleum Distillates (BTEX Below Detect)	64742-47-8			
Polyacrylamide	57-55-6			
Propargyl Alcohol	107-19-7			
Propylene Glycol	57-55-6			
Quartz	14808-60-7			
Sillica, crystalline quartz	7631-86-9			
Sodium Chloride	7647-14-5			
Sodium Hydroxide	1310-73-2			
Sugar	57-50-1 Office of Oil and Gas			
Surfactant	08439-31-0			
Suspending agent (solid)	14808-60-7 JUL <b>0 2</b> 2021			
Tar bases, quinoline derivs, benzyl chloride-quaternized				
Solvent Naphtha, petroleum, heavy aliph	72480-70-7 <sub>WW Department or</sub> 64742- <b>93 vi</b> ronmental Protection			
Soybean Oil, Me ester	67784-80-9			
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	111-46-6			
Methenamine	100-97-0			
Polyethylene polyamine	68603-67-8			
Coco amine	61791-14-8			
	38172-91-7			

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	0 64742-48-9
7.	Cellulase enzyme	(Proprietary)
8.	Anionic polymer BTEX Free Hydrotreated Heavy Naphtha Cellulase enzyme Demulsifier Base Ethoxylated alcohol blend Ethoxylated Nonylphenol Ethoxylated olevlamine	7727-54-0 Proprietary Proprietary 64742-48-9 (Proprietary) (Proprietary)
9.	Ethoxylated alcohol blend	Arching Mixture
	Ethoxylated Nonylphenol	68412-54-4
11.	Ethoxylated oleylamine	
	Ethylene Glycol	107-21-1
	Glycol Ethers	111-76-2
	Guar gum	9000-30-0
	Hydrogen Chloride	7647-01-0
	Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
	Isopropyl alcohol	67-63-0
	Liquid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2
	Microparticle	Proprietary
	Petroleum Distillates (BTEX Below Detect)	64742-47-8
	Polyacrylamide	57-55-6
	Propargyl Alcohol	107-19-7
	Propylene Glycol	57-55-6
	Quartz	14808-60-7
	Sillica crystalline quartz	7631-86-9
	Sodium Chloride	7647-14-5
	Sodium Hydroxide	1310-73-2
	Sugar	57-50-1
	Surfactant	68439-51-0
	Suspending agent (solid)	14808-60-7
	Tar bases, quinolone derivs, benzyl chloride-quarternized	72480-70-7
	Solvent Naptha, petroleum, heavy aliph	64742-96-7
	Soybean Oil, Me ester	67784-80-9
	Copolymer of Maleic and Acrylic Acid	52255-49-9
	DETA Phosphonate	15827-60-8
	Hexamythylene Triamine Penta	34690-00-1
	Phosphino Carboxylic acid polymer	71050-62-9
	Hexamethylene diamine penta	23605-74-5
	2-Propenoic acid, polymer with 2 propenamide	9003-06-9
	Hexamethylene diamine penta (methylene phosphonic ad	•
	Diethylene Glycol Methenamine	111-46-6 100-07-0
		100-97-0
	Polyethylene polyamine Coco amine	68603-67-8 61701-14-8
		61791-14-8
45.	2-Propyn-1-olcompound with methyloxirane	38172-91-7

# DOGWOOD WELL PAD & WATER CONTAINMENT PAD

# AS-BUILT AND EROSION & SEDIMENT CONTROL IMPROVEMENT PLAN

GREEN DISTRICT, WETZEL COUNTY, WEST VIRGINIA LITTLE MUSKINGUM-MIDDLE ISLAND WATERSHED

LOCATION COORDINATES:
ACCESS ROAD EXPERIMENT
LATTINGS PROMISED LONGITUDE -60,730049 (MAD 63)
LATTINGS DOSESORS LOXGITUDE -60,730049 (MAD 73)
H 4370697.21 E 50,8004.32 (UM 20)0.17 METERS)

CENTER OF TANX
LATFIUDE 39.528916 LONGITUDE -82.724036 (MAD 80)
LATFIUDE 39.528849 LONGITUDE -82.724036 (MAD 80)
H 437289.37 E 523717 71 (UTM ZONE 17 METERS)

CENTROLU OF PAD
LANTITUE 26.580580 LONGITUDE -60.724419 (NAD 83)
LANTITUE 29.580507 LONGITUDE -60.724408 (NAD 87)
N ASTRESS 33 E 527805.25 (UTM 2008 17 METERS)

GENERAL DESCRIPTION.
THE ACCESS ROAD(S) NOTE: CONTAINENT PAD, AND WELL PAD HAVE HERE CONSTRUCTED TO AID IN THE DIVIDIDANT OF DESCRIPTION MARKELING STALE CAS WALLS.

FLOODPLAIN NOTES:

PROPOSED SITE IS LOCATED WITHIN FEMA PLOOD ZONE 'N' PER FEMA PLOOD MAP #54190COLPGG.

MISS UTILITY STATEMENT:
ANTHOR DESCRIPTION TO THE HOTOPHIC WISE BETTLEY OF FIRST VERDING FOR THE LOCATION OF UTILITIES PRIOR TO THIS PROMET ENTOR. IN ADDITION, MISS UTILITY WILL BE CONTACTED BY THE PROPERTY OF THE STATE OF CONSTRUCTION FOR THESE PROMET.

ENTRANCE PERMIT:

ENVIRONMENTAL MOTES:

STREAM AND WETHAND DOMESTIONS, WERE PERFORMED ON SEPTEMBER 6, SOFT BY SC. HARVEY

STREAM AND WETHAND DOMESTIONS, WERE PERFORMED ON SEPTEMBER THAT MER MOUT LINES WITHIN

THE REGULATORY PERFORMS OF THE U.S. ARMY COURS OF SECURE (MARVES (MARVE) THE FEST

VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION SEVERE) THE SEPTEMBER 7, 2017 AQUARTE

PRATILIEST MAY HAVE FERFARED BY SC REMOVED TOWNSHOULD. LC. AND STOCKARTES THE SECURITIES OF THE SECURITY OF THE LANDWARD MARTS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE UMAGE OF THE

#### PROJECT CONTACTS:

OPERATOR: ANYERO RESOURCES CORPORATION DIS WHITE OAKS BLVD DRIDGEFORT, WV 20000

PHONE (304) 842-4100 FAX (304) 842-4102 | PAC | (304) | 042-4102 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100

DMNA HOFF - SVP OPERATIONS OFFICE (2001) 367-6984

AANON KUNZLER - CONSTRUCTION MANAGER CELL: (304) 542-4191

POBERT WERKS - DESIGN MANAGER OFFICE (804) 842-4100 CTEL (304) 827-7405 CHARLES E. COMPTON, IN - WILLITY COORDINATOR CELL (304) 739-6449

WVDEP OOG

ACCEPTED AS-BUILT

# 8/10/2021

MARK HUTSON - LAND AGENT CELL: (304) 669-6315

ENVIRONMENTAL KC HARVEY ENVIRONMENTAL LLC SHANNON THOMPSON - STAPP SCIENTIST OFFICE (240) NYS-1870 CELL (370) 396-8280

NOTES

MANAGER'S MINT REMAIN IN PLACE AND PUNCTIONAL INTEL ALL SEES WITHIN THE JUST OF SETTIFISHING AND COMPARTS AND PERMANENTY GRADILEZED MANTENANCE MUST INCLUDE INSPECTION OF ALL EXPERTED MAIN PERMANENT CONTROLS AFTER EACH HUMOFF EVENT IS EXCESS OF SAY AND NO 4 EXTERNING MAIN PROPERTY.

- 2 THE CONSTRUCTION SITE SHOULD BE STABILIZED AS SOON AS POSSIBLE AFTER COMPLETION. ESTABLISHMENT OF FINAL STABILIZATION VILST BE INITIATED NO LATER TIAN 7 DAYS AFTER. ESTREMENHENCY OF TRAKE STABLEZATION WIGHT HE SHITAKED NO LATER THAN T DAYS AFTER REACKING PRINC LOUD FLAG STABLEZATION WHANS THAT ALL TONG THAN TO THAT STABLEZATION REACHES TO STABLEZATION OF REACHEST OF THAT THE SHEET STABLEZATION OF THAT THE SHEET STABLEZED BY LAKE COVER WITH A DENSITY OF TAX OR SUCH AN PAYMENT OR UNLESSED, TO SHOULD BE MOTELD THAT HE TAX REQUIREMENT APPENDS TO THE TOTAL ABLOQUED AND TO THE STEE
- ALL PERMANENT SEDIMENT CONTROL MEASURES CAN BE REMOVED AFTER THE SITE IS PROMANENTLY STABILIZED AND APPRIONAL IS RECEIVED FROM THE WYDER.
- ANY AREAS DESTURBED BY REMOVAL OF CONTROLS SHALL BE REPAIRED, STABILIZED AND
- THE AS-BULL INFORMATION SHOWN HEREON REPLECTS DATA COLLECTED BY OTHERS, PROVIDED BY ANYHOR RESOURCES, RELATING BY THE FINAL GRAINES OF THE BESTURBED AREA. THE RESOURCESNOW, SEATING TO THE FINAL GRAINES OF THE SHOW AREA AND A THE CASE HAVE THE SHOWN FOR THE SHOWN AREA AND THE CASE HAVE PROVIDED BY NOT RESPONDED FOR ANY CHANGES MADE TO THE CHT AFTER THE ANOME MADE TO THE CATE AFTER THE ANOME MADE THOSE DATASET OF THE SHOWN AND THE CATE AFTER THE ANOME MADE THOSE OF THE SHOWN OF THE CATE AFTER THE ANOME MADE THOSE OF THE SHOWN OF THE CATE AFTER THE ANOME MADE THOSE OF THE SHOWN OF THE CATE AFTER THE
- THE EXECUTING CONTAINMENT BERM AROUND THE WELL PAD SHALL BE REPAIRED AS NECESSARY TO DESIGN TO DESIGN OPERATIONS
- THE EXISTING EXPENSES TO THE WELL PAD SHALL HAVE THE NOUNTABLE BERMS REPAIRED AS NECESSARY TO ENSURE LOOK CONTABRMENT OF ALL FLUIDS PRIOR TO DELLUNG OPERATIONS



WEST VIRGINIA COUNTY MAP



(NOT TO SCALE)

AS BUILT CERTIFICATIONS:
THE DEARINGS, CONSTRUCTION NOTES, AND
REPUBLINGE DIAGRAMS ATMICISED HIGHER HAVE
BEEN PREPARED IN ACCOMMANCE WITH THE
FIRST MIRITIAN CODE OF STATE RULLES, DIVISION
OF ENVIRONMENTAL PROFESSION, OFFICE OF DIL
MS GAS CES 33-6.



MISS Utility of West Virginia 1-800-245-4846 West Virginio State Law (Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia. IT'S THE LAW!!

#### SHEET INDEX

- I POYER SHOP
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- A ACCESS BOAD AS-BIOLE PLAN
- 5-6 ACCESS ROAD & WILL PAD AS-BUILT PLAN
- 7 ADDESS BOAD ASS-BUILD PROPERTY
- 9 CONSTRUCTION DETAILS.
- 10 ACCESS BOAD PROLAMATION MANS
- IN-IN ACCESS ROAD & WELL PAD RECLAMATION PLAN

DOCUMODD LIMITS OF DISTURBANCE AREA (AC).				
Total Site	Total			
Access Road	9.89			
Well Pad	15.40			
Siockpile Area	5.97			
Additional Limits of D signbance	4.70			
Total Affected Area	35,56			
Total Wooded Acres Distarted	24.74			
Impacts to Bartrug, Terry APNE 05	5-20-12			
Access Road	5.41			
Appriprial Limits of Disturbunce	3.30			
Total Affected Area	9.71			
Total Wooded Ages Dishirted	2.23			
broacts to Dalison Lumber, Inc. APR	9 05-25-53			
Access Road	3.45			
Well Fac	15.40			
Stockpile Area	5.97			
Additional Limits of Disturbance	1.40			
Total Affected Area	20.26			
Total Wooded Acres Diskuted	22.51			

Watim	15/40 (Gunt) 15/40 19	NAC STLAND LONG	MIN INCTEMA	NORTH ALL		
	Hamiled Lengton					
Direct TH	4 97921-4.07 E 9654577 NO	LAT 39-31 35 2717 LONG 40-41-21 2781	74 4375346,75 IT 523466.36	LAT 35-01-00 5020		
Unit 2H	4 370189/09 C 5054575.54	LONG 40-43-20 5444	*( 43/5242 18) 5 525665 24	LONG-10-41-17 9/05		
Onlisted Unit til	6 1854576 32	LONG 40-43 JR 3467		AT 19-11-34 2654 LDHG 40-42-27 5118		
Orlabin Deltah	4 976169 11 0.1054675.70	LAT 39-31 34 0273 LONG-89-43-24 5584	F 4375239 DA © 523686 02	LONG BOARD BYON		
Deags Unit 1H	14 378154.12 C \$604575.04	LAT 39-31-3416199 LONG 80-1-20-500A	11 \$275228 47 5 \$23684 91	LAT 39-31-34 9692 LOVG 40-43-27 6224		
Topowed Well I	Rad Pleustice	1,309.0				

#### REPRODUCTION NOTE

PAPER HALF SCALE PRAYINGS AND ON STREET (AND D) PAPER.

HIERE PLANS WIRE EMENTED PUR COLOR PLOTTING ANY ANY REPRODUCTIONS IN USEY SYARE OR COLOR MAY RESPUE BY A LOSE OF INSTRUMENTA AND SHOULD NOT USE INCOME SOCIETATION PROPRIES



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MULATOR	NETTERN TERN TELLE			
2000	1202/11/20			



PAD & WATER CONTAINMENT DOGWOOD



WELL

DATE: 06/25/202 SCALE: AS SHOWN SHEET 1 OF 12

