

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

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

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit approval for GRIBBEN UNIT 1H

47-103-03426-00-00

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) 926-0459.

James A. Martin

Chief

Operator's Well Number: GRIBBEN UNIT 1H

Farm Name: DALLISON LUMBER, INC.

U.S. WELL NUMBER: 47-103-03426-00-00

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

API Number:	
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PERMIT CONDITIONS

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

CONDITIONS

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

API Number:	

PERMIT CONDITIONS

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

API NO. 47-103 -	03	426
OPERATOR WELL	NO.	Gribben Unit 1H
Mall Rad Namo	Dogwo	nd Pad

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

Antors Des	Ouroon Corner	494507062	103-Wetzel	Green	Pine Grove 7.5'
1) Well Operator: Antero Res	ources Corpor	Operator ID	County	District	Quadrangle
2) Operator's Well Number: Gr	ribben Unit 1H		d Name: Dogw		/
		7			
3) Farm Name/Surface Owner:					
4) Elevation, current ground:	1308' E	Elevation, proposed	l post-constructi	on:	
5) Well Type (a) Gas X	Oil	Und	lerground Stora	ge of Oil an	Ō
Other			V	UL 022	[⊄] G _{as}
(b)If Gas Sha	allow X	Deep	Environ	Department of Protect	21
Но	rizontal X			ental protect	f 1-
6) Existing Pad: Yes or No Ye	S		_		07
7) Proposed Target Formation(s					
Marcellus Shale: 7600' TVD, A	Anticipated Thickn	ess- 55 feet, Assoc	iated Pressure- 2	2800#	
8) Proposed Total Vertical Dept	th: 7600' TVD	1			
9) Formation at Total Vertical I	Depth: Marcellu	IS /			
10) Proposed Total Measured D	epth: 24200' N	MD /			
11) Proposed Horizontal Leg Le	ength: 14077'				
12) Approximate Fresh Water S	Strata Depths:	539' (
13) Method to Determine Fresh	Water Depths:	47-095-30941			
14) Approximate Saltwater Dep	oths: 2341'/				
15) Approximate Coal Seam De	epths: 815' /				
16) Approximate Depth to Poss	ible Void (coal n	nine, karst, other):	None Anticipa	ted	
17) Does Proposed well location directly overlying or adjacent to			No	, <u>x</u>	
(a) If Yes, provide Mine Info:	Name:				
	Depth:				
	Seam:				
	Owner:				

				034	10/
API N	0.47-	103	-	07	1 NO

OPERATOR WELL NO. Gribben Unit 1H
Well Pad Name: Dogwood Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	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#	24200	24200 /	6246 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

Buya Harin 7-20-21

TYPE	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	Leed-KIPO2 & Tell - 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		

Office RECEIVED

JUL 22 2021

Environmental Protection

API NO. 47- 103 OPERATOR WELL NO. Gribben Unit 1H 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

Environmental pretection 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):

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

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

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

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

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

Conductor: no additives, Class A cement.

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

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

25) Proposed borehole conditioning procedures:

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

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

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

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

^{*}Note: Attach additional sheets as needed.

WW-9 (4/16)

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

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation	OP Code 494507062
Watershed (HUC 10) Fishing Creek Quadrang	gle Pine Grove 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the propose	ed well work? Yes V No
Will a pit be used? Yes No 🗸	
If so, please describe anticipated pit waste: No pit will be used at this site (Onling and	Provided 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:	
Land Application	
Underground Injection (UIC Permit Number *UIC	
Reuse (at API Number Future permitted well locations when Off Site Disposal (Supply form WW-9 for disposal	
Other (Explain_	Northwestern Landfill Permit #SWF-1025/ WV0109410
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, o	cuttings removed@ffsite@ang.taken to landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, fresh	Surface - Alt/Feathwater, Intermediate -
TO THE SECOND SE	2 200
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	Environmental Protection and taken to landfill.
Additives to be used in drilling medium? Please See Attachment	mental Protection
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc	Orill cuttings stored in tanks, removed offshe and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cemen	t, lime, sawdust) N/A
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-	1032-98). Northwestern Landfill (Permit # SWF-1025/WV0109410)
Permittee shall provide written notice to the Office of Oil and Gas of any load West Virginia solid waste facility. The notice shall be provided within 24 hour where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department provisions of the permit are enforceable by law. Violations of any term or claw or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and application form and all attachments thereto and that, based on my inquipobtaining the information, I believe that the information is true, accurate, penalties for submitting false information, including the possibility of fine or incompany Official Signature.	nent of Environmental Protection. I understand that the condition of the general permit and/or other applicable d am familiar with the information submitted on this iry of those individuals immediately responsible for and complete. I am aware that there are significant
Company Official (Typed Name) Gretchen Kohler	
Company Official Title Director, Environmental and Regulatory Compliance	
Subscribed and sworn before me this St day of JUU	. 20 21
Alexandra // Catalla	
My commission expires July 23, 2022	Notary Public ALEXANDRIA CASTILLO NOTARY PUBLIC STATE OF COLORADO NOTA

Form WW-9

orm ww-9		Operator's V	Vell No. Gribben Unit 1H
Antero Resources Corpo	ration		
roposed Revegetation Treatment: A	Acres Disturbed 35.96 ac	Prevegetation p	Н
Lime 2-4 To	ons/acre or to correct to pH	6.5	
Fertilizer type Hay or straw	or Wood Fiber (will be used)	where needed)	
Fertilizer amount_500	lb	s/acre	
Mulch 2-3	Tons/a		1101 1 61 1 (47)
Well Pad Construction (13	= Total D	n (9.89 acres) + Topsoil Stockpile (5.97 acres) + A histurbed Area 35.96 Acres	admonst Clearing (4.7 scres)
		d Mixtures	•
Temporal	-	Perm	
Seed Type I Annual Ryegrass	bs/acre 40	Seed Type Crownvetch	lbs/acre 10-15
<u>=</u>			
Field Bromegrass	40	Tall Fescue	30
See attached Table IV-3 for additional seed by	ps (Dogwood Pad Design)	See attached Table IV-4A for additional	seed type (Dogwood Pad Design)
*or type of grass seed requeste	d by surface owner	*or type of grass seed requ	ested by surface owner
Plan Approved by:	Ham		
Comments:			
<u></u>			
			
			-
Title: Inspector		Date: 7-20-21	
Field Reviewed? (Yes X) No	Office of Oil and Gas
			JUL 22 2021
		- Emin	V Department of
			N Department of Inmental Protection 08/27
			~08/27/

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
3400923823		K&H Partners LLC #2 (SWIW #10)		39.234815, -
3400923823	Central Environmental Services, LLC	RAH Partilers LLC #2 (3VVVV #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 (SWIW #19)		38.940522, -
3410523619	GreenHunter Water, LLC	IVIIIS HUIICEI #1 (SVVIVV #15)	ОН	81.787707
3412123995		Warren Drilling Co. (SWIW #6)		39.653808, -
3412123333	GreenHunter Water, LLC	Waiten Drilling Co. (SWIW #0)	ОН	81.475312
				39.656785, -
3412124086	GreenHunter Water, LLC	Travis Unit (SWIW #7)	ОН	81.480809
				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



4710303426 47103310090001 Environmental Protection 47103310090000 Antero Antero Resources Corporation Gribben Unit 1H - AOR 2,000 FEET WELL SYMBOLS
Plugged Gas Well 08/27/2021 June 23, 2021

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47103310090000	C & A ENGLE 2	1348	MANUFACT LIGHT &HEAT	MANUFACT LIGHT &HEAT	2,053	Unknown	Big Injun, Gordon	Weir, Berea, Benson, Alexander

Office of Oil and Gas

JUL 0 2 2021

WW Department of Environmental Protection

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

al
Vegetable, Cotton & Cellulose-Based Fiber Blend -LOM Department of Protection

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

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



911 Address 3501 Furbee Ridge Rd, Reader, WV 26167

Well Site Safety Plan Antero Resources Buyer Harm

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:

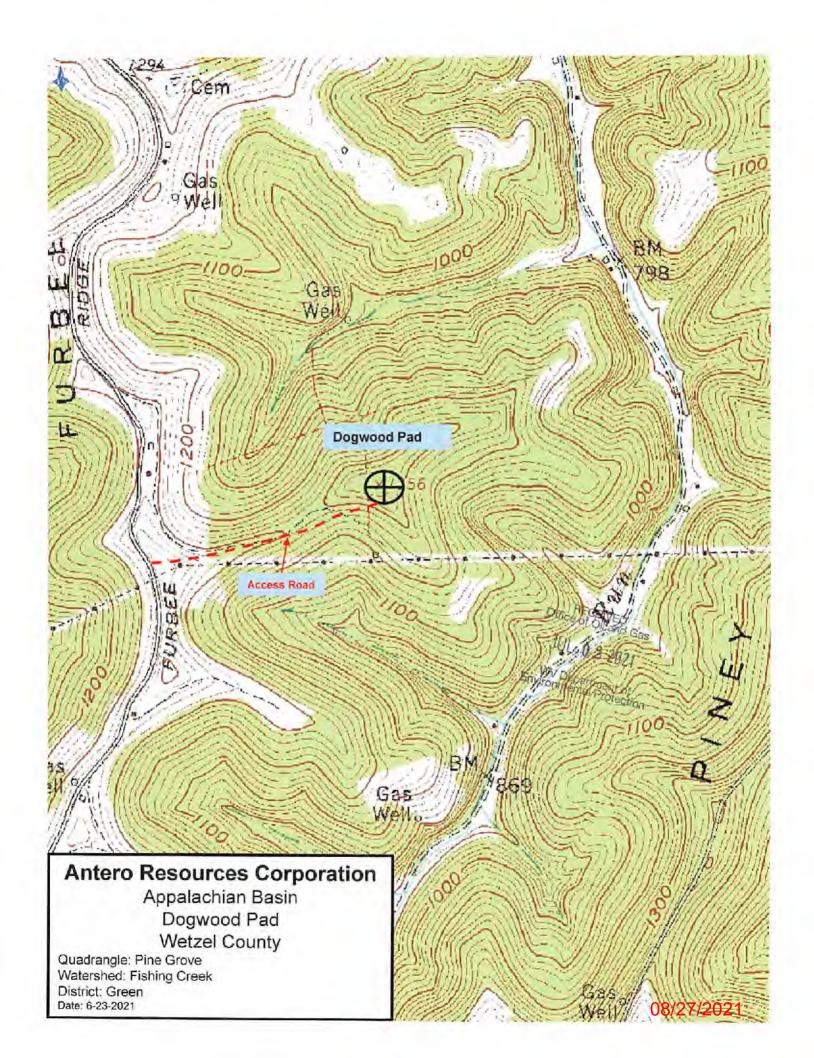
From the volunteer fire department in Reader WV: Head north on WV-20 N toward Spice Lane for 0.5 miles. Turn left onto Co Rd 40/2 for 0.4 miles. Turn left onto Brush Run Rd for 466 feet. Turn left onto Furbee Ridge Rd for 3.3 miles. Access road will be on your left.

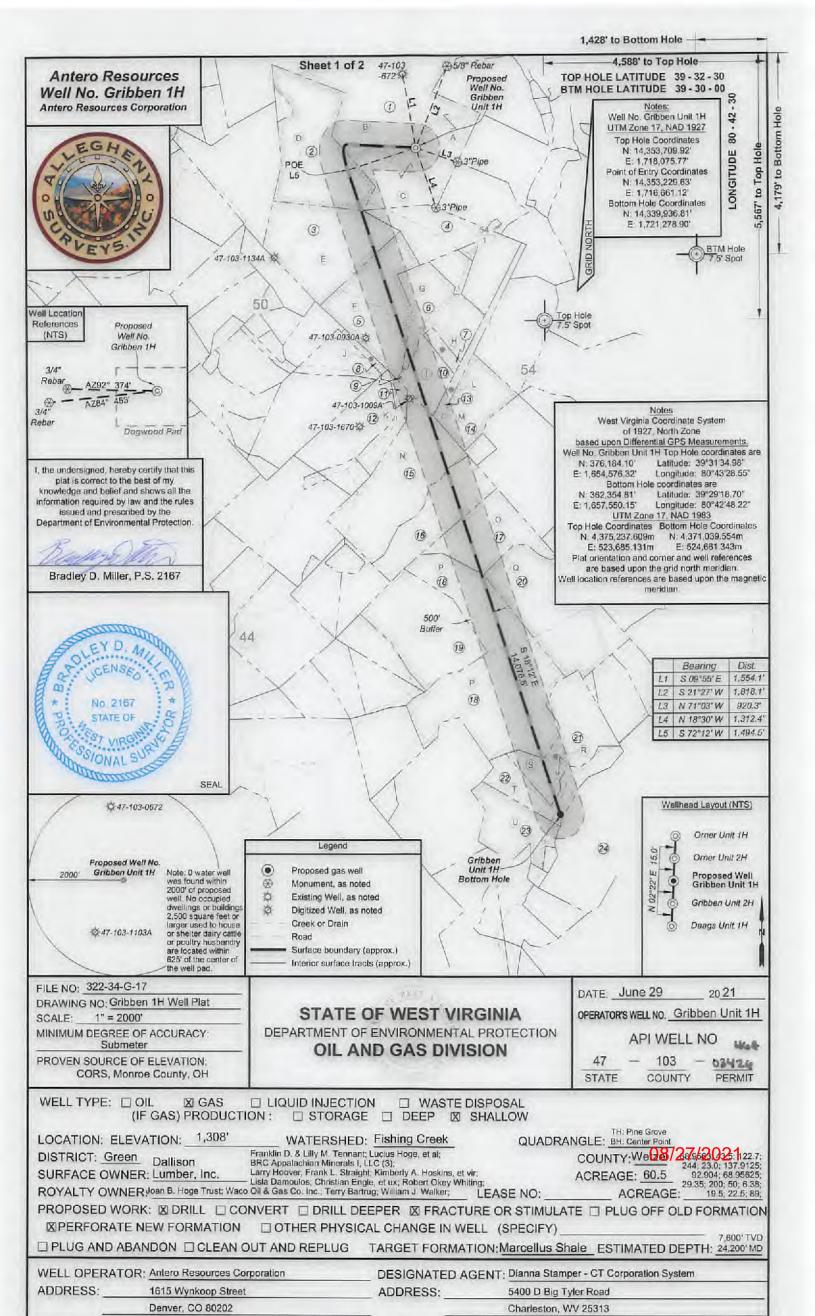
EMERGENCY (24 HOUR) CONTACT 1-800-8

W Department

SSP Page 1

02/07/2020





Antero Resources Well No. Gribben 1H Antero Resources Corporation



	Leases
A	Joan B. Hoge Trust
В	Waco Oil & Gas Company Inc.
C	BRC Appalachian Minerals I, LLC
D	Terry Bartrug
E	BRC Appalachian Minerals I, LLC
F	William J. Walker
G	Franklin D. & Litty M. Tennant
H	Julita Ann Myers
1	Lisla Damoulos
J	Tony Eugene Crabtree, et ux
K	Shiben Estates, Inc.
L	Antero Minerals, LLC
M	S.A. Smith, et al
N	Christian Engle, et ux
0	Robert Okey Whiting
P	BRC Appalachian Minerals I LLC
Q	Lucius Hoge, et al
R	Larry Hoover
S	Frank L. Straight
T	Kimberly A. Hoskins, et vir
U	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	20-25	Unknown Owner	/	42.00
5	20-31	Tony E. & Marion L. Crabtree	365/337	68.95
6	20-32	Tony E. & Marion L. Crabtree	365/337	43.50
7	20-45	Tony E. & Marion L. Crabtree	365/337	5.50
8	20-44	Tony E. & Marion L. Crabtree	365/337	4.50
9	22-6.1	Ancient Energy LTD	441/591	0.04
10	22-7	Lisla W. Damoulos	399/428	29.40
11	22-6	Denzil W. Sloan	305/582	21.23
12	22-14.1	Tony E. & Marion L. Crabtree	365/337	41.80
13	20-34	Columbia Gas Transmission Corp.	263/164	12.00
14	22-8	Robert P. & Carolyn J. Kocher	291/332	42.12
15	22-19	Coastal Forest Resources Co.	444/105	155.30
16	22-20	Lawrence J. Bish, et al	420/736	63.23
17	22-29	Timothy L. Yoho	377/411	50.00
18	22-34	Coastal Forest Resources Co.	444/105	172.9
19	22-28	Coastal Forest Resources Co.	444/105	77.10
20	22-34.1	Coastal Forest Resources Co.	444/105	129.00
21	25-2	Coastal Forest Resources Co.	444/105	61.93
22	25-3	Coastal Forest Resources Co.	444/105	32.00
23	25-5	Christopher & Dennis Doyle	410/80	39.36
24	25-6	State of West Virginia Public Land Corp.	331/497	216.30

FILE NO: 322-34-G-17 DRAWING NO: Gribben 1H 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

DATE: June 29 20 21 OPERATOR'S WELL NO. Gribben Unit 1H

API WELL NO WAR

STATE COUNTY PERMIT 103

_	_	_		

WELL TYPE:	OIL	IX GAS		LIQUID	INJECTIO	N	□ W	ASTE	DISPOSAL
	(IF GAS)	PRODUCTIO	NC	: 🗆	STORAGE		DEEP		SHALLOW
LOCATION: E	LEVATION:	1,308'		WA	TERSHED:	Fish	ing Cre	eek	Q

WATERSHED: Fishing Creek QUADRANGLE: BH: Center Point

NGLE: BH: Center Point

COUNTY: We 08 / 27 52 025 122.7:
244, 23.0, 137, 9125,
92,904; 68,95625;
92,904; 68,95625; DISTRICT: Green Dallison B. Hoge Trust; Waco Oil & Gas Co. Inc.; Terry Bartrug; William J. Walker: LEASE NO: COUNTY: Wed2 / 27,952 025;122.7; 122.7; 244; 23.0; 137.8125; 244; 23.0; 137.8125; 244; 23.0; 137.8125; 244; 23.0; 137.8125; 244; 23.0; 137.8125; 25.0; 137.8125;

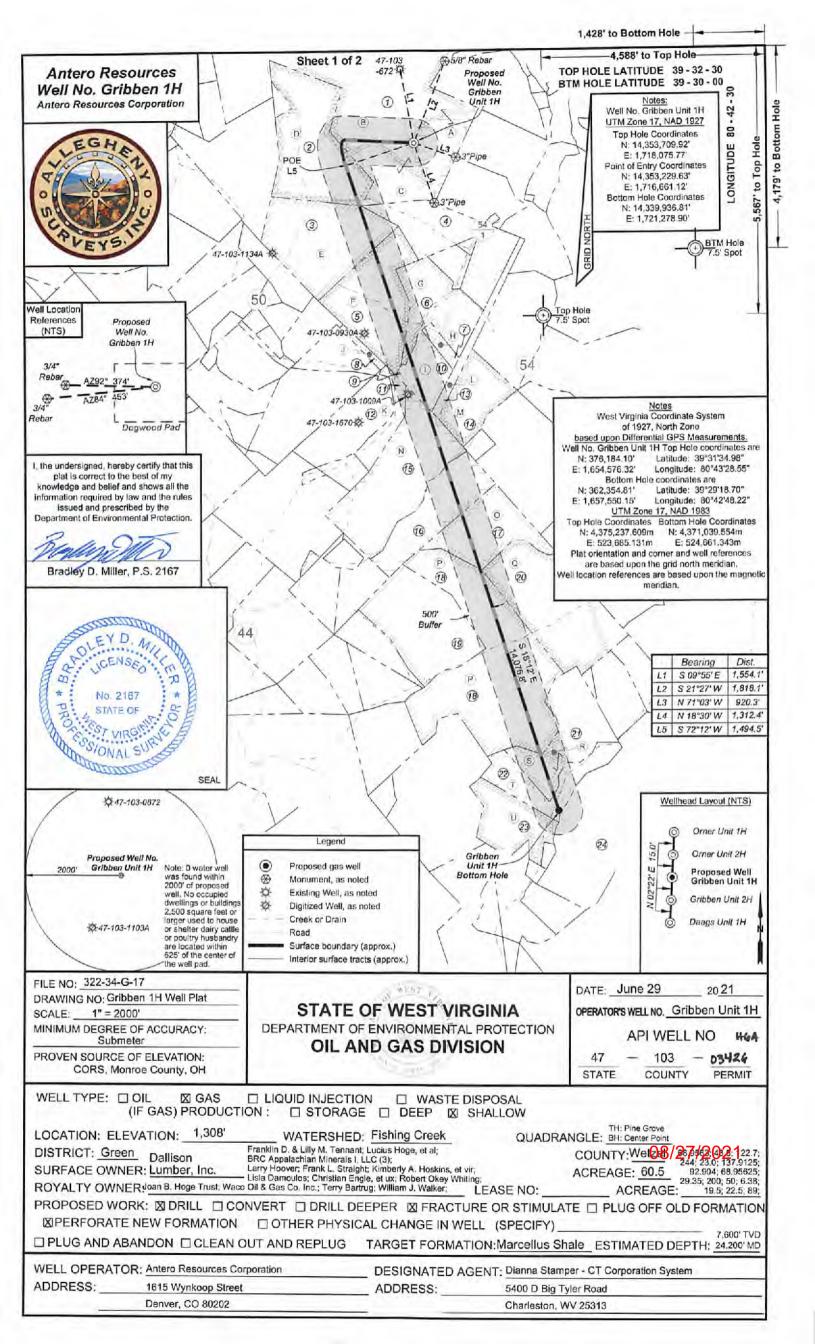
PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION

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

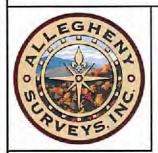
□ PLUG AND ABANDON □ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH; 24,200' MD

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

Denver, CO 80202 Charleston, WV 25313



Antero Resources Well No. Gribben 1H Antero Resources Corporation



	Leases
A	Joan B. Hoge Trust
В	Waco Oil & Gas Company Inc.
C	BRC Appalachian Minerals I, LLC
D	Terry Bartrug
E	BRC Appalachian Minerals I, LLC
F	William J. Walker
G	Franklin D. & Lilly M. Tennant
н	Julita Ann Myers
1	Lisla Damoulos
J	Tony Eugene Crabtree, et ux
K	Shiben Estates, Inc.
L	Antero Minerals, LLC
M	S.A. Smith, et al
N	Christian Engle, et ux
0	Robert Okey Whiting
P	BRC Appalachian Minerals I LLC
Q	Lucius Hoge, et al
R	Larry Hoover
S	Frank L. Straight
T	Kimberly A. Hoskins, et vir
U	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	20-25	Unknown Owner	/	42.00
5	20-31	Tony E. & Marion L. Crabtree	365/337	68.95
6	20-32	Tony E. & Marion L. Crabtree	365/337	43.50
7	20-45	Tony E. & Marion L. Crabtree	365/337	5.50
В	20-44	Tony E. & Marion L. Crabtree	365/337	4.50
9	22-6.1	Ancient Energy LTD	441/591	0.04
10	22-7	Lisla W. Damoulos	399/428	29.40
11	22-6	Denzil W. Sloan	305/582	21.23
12	22-14.1	Tony E. & Marion L. Crabtree	365/337	41.80
13	20-34	Columbia Gas Transmission Corp.	263/164	12.00
14	22-8	Robert P. & Carolyn J. Kocher	291/332	42.12
15	22-19	Coastal Forest Resources Co.	444/105	155.30
16	22-20	Lawrence J. Bish, et al	420/736	63.23
17	22-29	Timothy L. Yoho	377/411	50.00
18	22-34	Coastal Forest Resources Co.	444/105	172.91
19	22-28	Coastal Forest Resources Co.	444/105	77.10
20	22-34.1	Coastal Forest Resources Co.	444/105	129.00
21	25-2	Coastal Forest Resources Co.	444/105	61.93
22	25-3	Coastal Forest Resources Co.	444/105	32.00
23	25-5	Christopher & Dennis Doyle	410/80	39.36
24	25-6	State of West Virginia Public Land Corp.	331/497	216.30

FILE NO: 322-34-G-17

DRAWING NO: Gribben 1H 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

DATE: June 29 20 21

OPERATOR'S WELL NO. Gribben Unit 1H

API WELL NO HGA

47 — 103 — 03426

STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☐ GAS (IF GAS) PRODUCTI	☐ LIQUID INJECTION ☐ WASTE DISF ION: ☐ STORAGE ☐ DEEP ☒ SH/	POSAL
LOCATION: ELEVATION: 1,308' DISTRICT: Green Dallison SURFACE OWNER: Lumber, Inc. ROYALTY OWNER Joan B. Hoge Trust; Wacc	WATERSHED: Fishing Creek Franklin D. & Lilly M. Tennant; Lucius Hoge, et al; BRC Appalachian Minerals I, LLC (3); Larry Hoover; Frank L. Straight; Kimberly A. Hoskins, et vir; Lisla Damoulos; Christian Engle, et ux; Robert Okey Whiting;	QUADRANGLE: BH: Center Point COUNTY: We 08/25/3520 25:122.7; 244; 23.0; 137.9125; 92.90; 50; 6.38; ASE NO: ACREAGE: 19.5; 22.5; 89;
		OR STIMULATE PLUG OFF OLD FORMATION
☑PERFORATE NEW FORMATION ☐ PLUG AND ABANDON ☐ CLEAN O	OTHER PHYSICAL CHANGE IN WELL OUT AND REPLUG TARGET FORMATION	7.600' TVD

WELL OPERATOR: Antero Resources Corporation

ADDRESS: 1615 Wynkoop Street

Designated AGENT: Dianna Stamper - CT Corporation System

ADDRESS: 5400 D Big Tyler Road

Charleston, WV 25313

Operator's Well Number

Gribben Unit 1H

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

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

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

	Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
В	Waco Oil & Gas Company Inc. Lease			
V	Waco Oil & Gas Company Inc.	Antero Resources Corporation	1/8+	184A/0741
P	Terry Bartrug Lease		500	0.000,000
1	Terry Bartrug	Antero Resources Corporation	1/8+	192A/0903
	BRC Appalachian Minerals I LLC Lease			
-	BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	1/8+	102A/0505
C	BRC Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	103A/0470
	Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc.	Assignment	120A/0109
	Statoil USA Onshore Properties	SWN Exchange Title Holder LLC	Assignment VED Office Regenil and Gas	158A/0801
	SWN Exchange Title Holder LLC	SWN Production Company	Officered edit and	0013/0296
	SWN Production Company	Antero Exchange Properties LLC		177A/0533
	Antero Exchange Properties LLC	Antero Resources Corporation	Merger 2 2021	0013/0311
			WV Department of Environmental Protection	
	BRC Appalachian Minerals I LLC Lease		110/	
	BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	1/8+	102A/0505
É	BRC Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	103A/0470
_	Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc.	Assignment	120A/0109
	Statoil USA Onshore Properties	SWN Exchange Title Holder LLC	Assignment	158A/0801
	SWN Exchange Title Holder LLC	SWN Production Company	Merger	0013/0296
	SWN Production Company	Antero Exchange Properties LLC	Assignment	177A/0533
	Antero Exchange Properties LLC	Antero Resources Corporation	Merger	0013/0311
	William DWaller Land			
*	William J Walker Lease William J Walker	4 A A A A A A A A A A A A A A A A A A A	- 14	014.010
	William J Walker	Antero Resources Corporation	1/8+	197A/361
	Franklin D & Lily M Tennant Lease			
G	Franklin D & Lily M Tennant	Stone Energy Corporation	1/8+	139A/305
	Stone Energy Corporation	EQT Production Company	Assignment	183A/305
	EQT Production Company	Antero Resources Corporation	Assignment	230A/883
, v	Lisla W Damoulos Lease			
1	Lisla W Damoulos	Antero Resources Corporation	1/8+	195A/86
	Christian Engle et ux Lease			
1	Christian Engle et ux	CB Shaffer	1/8	55/82
4	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 Rhinehart Partners dba Hundred Gas Company	Assignment	08/27/20244A/109

Operator's Well Number Gribben Unit 1H

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

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

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

	Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
	AM Snider and Duane M Snider and Kathleen Rhinehart partners dba Hundred Gas Company	Carl D Perkins	Assignment	256/189
	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
0	Robert Okey Whiting Lease			
U	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
0	BRC Working Interest Company LLC	Chesapeake Appalachian LLC	Assignment	103A/470
3		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	Assignmed RECEIVED	177A/533
	Antero Exchange Properties LLC	Antero Resources Corporation	Merged Assignmed ffice of Oil and Gas	13/311
	Luckus Hann akum Lann		JUL 0 2 2021	
	Lucius Hoge et ux Lease	5. N.S. 0110	WV Department of Assignment Assignment Assignment	
0	Lucius Hoge et ux	South Penn Oil Company	1/8 Environment	48/259
•	South Penn Oil Company Tri State Gas Company	Tri State Gas Company	Assignment "Idital Protection	59/429
	Manufactures Light and Heat Company	Manufactures Light and Heat Company AM Snider and Duane M Snider and Kathleen	=	9A/141
	Mandiactures Light and Heat Company	Rhinehart partners dba Hundred Gas Company	Assignment	48A/109
	AM Snider and Duane M Snider and Kathleen	Hundred Gas Company	Assignment	256/189 55A/62
	Rhinehart partners dba Hundred Gas Company	manarca das company	Assignment	33A/02
	Hundred Gas Company	Carl D Perkins	Assignment	
	Carl D Perkins	Perkins Oil and Gas Inc	Assignment	75A/621
	Perkins Oil and Gas Inc	Stone Energy Corporation	Assignment	126A/958
	Stone Energy Corporation	EQT Production Company	Assignment	183A/305
	EQT Production Company	Antero Resources Corporation	Assignment	203A/783
5	Frank L Straight Lease			
	Frank L Straight	Antero Resources Corporation	1/8+	181A/253
G	Larry Hoover Lease			
7	Larry Hoover	Antero Resources Corporation	1/8+	216A/785

WW-6A1 (5/13)

Operator's Well No.	Gribben	Unit	1H
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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 as possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP WV Department of Environmental Protection 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 1615 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 57th Street SE Charleston, WV 25304

RE:

Gribben Unit 1H

Quadrangle: Pine Grove 7.5'

Wetzel County/Grccn District, West Virginia

Office of Oil and Gas

JUL 0 2 2021

Environmental Protection

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Gribben Unit 1H 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 Gribben Unit 1H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Brett Kuhn Senior Landman

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

Date of Notic	e Certification: 06/30/2021		API No. 47- 103 -		
			ator's Well No. Gribb		
		Well	Pad Name: Dogwood	d Pad	
Notice has h	oeen given:				
	e provisions in West Virginia Code	§ 22-6A, the Operator has provided	the required parties v	vith the Notice Forms listed	
	tract of land as follows:				
State:	West Virginia	UTM NAD 83 Easti			
County:	Wetzel	Nort			
District:	Green	Public Road Access:	CO. Route 50		
Quadrangle:	Pine Grove 7.5'	Generally used farm na	ame: Dallison Lumber	inc.	
Watershed:	Fishing Creek				
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and set the owners of the surface descriequired by subsections (b) and (c), so surface owner notice of entry to so of subsection (b), section sixteen of \$22-6A-11(b), the applicant shall have been completed by the applicant west Virginia Code § 22-6A, the Operator has properly served the requirements.	hall contain the following information bed in subdivisions (1), (2) and (4 ection sixteen of this article; (ii) that urvey pursuant to subsection (a), so if this article were waived in writing the proof of and certify to the seconder proof of an article proof of a ar	ion: (14) A certificati), subsection (b), see the requirement was ection ten of this arti- ng by the surface of pretary that the notice	on from the operator that (i) ction ten of this article, the deemed satisfied as a resultcle six-a; or (iii) the notice wher; and Pursuant to West requirements of section terms.	
that the Ope	rator has properly served the require	ed parties with the following:	onice Vernincanog	es coc officer was	
*PLEASE CHI	ECK ALL THAT APPLY	Én	vironmenarino	OOG OFFICE USE ONLY	
☐ 1. NO	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED IS SEISMIC ACTIVITY WAS CON	BECAUSE NO OF	RECEIVED/ NOT REQUIRED	
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	/EY or 🔳 NO PLAT SURVEY W	AS CONDUCTED	☐ RECEIVED	
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED INOTICE OF ENTRY FOR PLATWAS CONDUCTED or		☐ RECEIVED/ NOT REQUIRED	
		☐ WRITTEN WAIVER BY S (PLEASE ATTACH)	URFACE OWNER		
■ 4. NO	TICE OF PLANNED OPERATION			☐ RECEIVED	
■ 5. PUE	BLIC NOTICE			☐ RECEIVED	
■ 6. NO	TICE OF APPLICATION			□ 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

By: Diana Hoff Diana O. Hoff
Its: 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 CDLORADO

NOTARY ID 20184029703

MY COMMISSION EXPIRES JULY 23, 2022

Subscribed and sworn before me this | St day of UIU

Alexandia X Cotho

Notary Public

My Commission Expires

Oil and Gas Privacy Notice:

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

Office PECENTED

JUL 0 2 2021

Environmental Protection

WW-6A (9-13)

API NO. 47- 103 OPERATOR WELL NO. Gribben Unit 1H Well Pad Name: Dogwood Pad

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

Not	ice Time Requireme	ent: notice shall be provid	ed no later than	the filing date of permit application.		
Dat	e of Notice: 7/1/2021	Date Permit Applicati	ion Filed: 7/1/20	21		
Not	ice of:	A share contract to the same				
☑	PERMIT FOR AN' WELL WORK			ROVAL FOR THE N IMPOUNDMENT OR PIT		
Del		ant to West Virginia Cod				
	rery method parsa.	and to trest ringinia con	3 ,			
☐ PERSONAL ☐ REGISTERED ☑ MET				HOD OF DELIVERY THAT REQUIRES A		
	SERVICE	MAIL	RECEI	T OR SIGNATURE CONFIRMATION		
oil a desco oper mor well imp have prop sub- recco prov Coc	and gas leasehold bein cribed in the erosion at rator or lessee, in the case coal seams; (4) The I work, if the surface to coundment or pit as de- e a water well, spring a vide water for consum- posed well work activi- section (b) of this secti- ords of the sheriff requivision of this article to the R. § 35-8-5.7.a requirements	g developed by the propose and sediment control plan survent the tract of land on whowners of record of the survent is to be used for the plascribed in section nine of the or water supply source local ption by humans or domest ty is to take place. (c)(1) If ion hold interests in the landired to be maintained pursuathe contrary, notice to a lieures, in part, that the opera	ed well work, if abmitted pursuantich the well pro- face tract or trac- acement, constru- nis article; (5) A ated within one to the animals; and more than three- ds, the applican- tic animals and the con- tent to section earn holder is not atter shall also pro- d water testing a	ed; (2) The owners of record of the surface tract or tracts overlying the the surface tract is to be used for roads or other land disturbance as at to subsection (c), section seven of this article; (3) The coal owner, possed to be drilled is located [sic] is known to be underlain by one or its overlying the oil and gas leasehold being developed by the proposed action, enlargement, alteration, repair, removal or abandonment of any my surface owner or water purveyor who is known to the applicant to housand five hundred feet of the center of the well pad which is used to (6) The operator of any natural gas storage field within which the tenants in common or other co-owners of interests described in a may serve the documents required upon the person described in the light, article one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. ovide the Well Site Safety Plan ("WSSP") to the surface owner and any sprovided in section 15 of this rule.	,	
7	Application Notice	☑ WSSP Notice ☑ E&5	S Plan Notice	☐ Well Plat Notice is hereby provided to: ☐ COAL OWNER OR LESSEE Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: ☐ COAL OPERATOR Name: NO DECLARATIONS ON RECORD WITH COUNTY Address:		
Ø S	URFACE OWNER(s	(1)		COAL OWNER OR LESSEE		
Nar	me: Dallison Lumber Inc.	1		Name: NO DECLARATIONS ON RECORD WITH COUNTY		
Add	dress: PO Box 21			Address:		
Jack	sonburg, WV 26377	/		Address: COAL OPERATOR Name: No declarations on record with county Address: WATER PURVEYOR(s)/OWNER(s) OF WATER WELL.		
Nar	me: Dallison Lumber Inc.	-		TI COAL OPERATOR Shilly 22		
- 14.00	dress: PO Box 159			Name: NO DECLARATIONS ON RECORD WITH COUNTY		
	sonburg, WV 26377			Address:		
_		(Road and/or Other Dist	turhance)	70/01		
	me: Dallison Lumber Inc.	y tout und or other bis	turounce)	WATER PURVEYOR(s)/OWNER(s) OF WATER WELL		
	dress: PO Box 21			SPRING OR OTHER WATER SUPPLY SOURCE		
Aut	Jacksonburg, WV 26377			Name: NONE IDENTIFIED WITHIN 1500'		
NI-		1	5			
	me: Dallison Lumber Inc.	/		Address:		
	dress: PO Box 159			- Ones those on the things to one ones the control		
	sonburg, WV 26377	V / P		☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD		
_		(Impoundments or Pits)		Name:		
	ne:			Address:		
Add	dress:			4.00		
			5 A P	*Please attach additional forms if necessary		

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12. Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilties 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 over 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 instream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may. in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13)

4710303426

OPERATOR WELL NO. Gribben Unit 1H

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 determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant and the secretary as to the location or construction of the applicant and the secretary as to the location or construction of the applicant and the secretary as to the location or construction of the applicant and the secretary as to the location or construction of the applicant and the secretary as to the location or construction of the applicant and the secretary as to the location or construction of the applicant and the secretary as to the location or construction of the secretary as to the location or construction of the secretary as to the location or construction of the secretary as to the location or construction of the secretary as to the location or construction of the secretary as to the location or construction of the secretary as to the location or construction of the secretary as to the location or construction of the secretary as to the location or construction of the secretary as to the location or construction of the secretary as the s comments with the secretary as to the location or construction of the applicant's proposed well work within the days and the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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

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

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

OPERATOR WELL NO. Gribben Unit 1H

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

Permit Denial or Condition

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

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

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

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

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WW-6A (8-13) API NO. 47- 103
OPERATOR WELL NO. Gribben Unit 1H
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 deprivacyofficer@wv.gov.

ALEXANDRIA CASTILLO
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20184029703
MY COMMISSION EXPIRES JULY 23, 2022

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

Alexandray Cotture

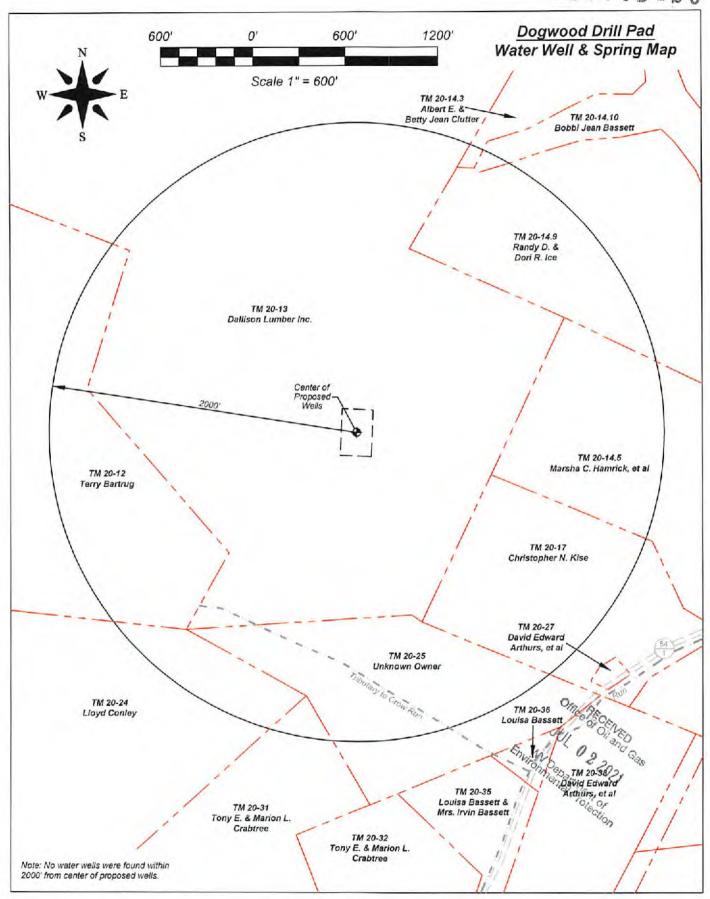
Notary Public

My Commission Expires July 23, 2027

Office RECEIVED

JUL 0 2 2021

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.

Date of Notic	ce: 05/24/2021 Date Per	mit Application Filed: 722	
Delivery me	thod pursuant to West Virginia Code § 2	22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVI		DUESTED	
receipt reque drilling a hor of this subsec subsection m	sted or hand delivery, give the surface own izontal well: <i>Provided</i> , That notice given ction as of the date the notice was provided	ner notice of its intent to enter upon to pursuant to subsection (a), section to d to the surface owner: <i>Provided</i> , how ner. The notice, if required, shall include	, an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
Notice is he	reby provided to the SURFACE OV		/
Name: Dallison		Name: Dallison Lumber Inc	(2nd Address)
Address: POI	Box 21	Address: PO BOX 159	
		The state of the s	
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A5 (1/12)

Operator Well No. Gribben Unit 1H

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

CERTIFI RETURN Pursuant to W.	od pursuant to West Virginia Code		
RETURN Pursuant to W.	ED MAIL [§ 22-6A-16(c)	
RETURN Pursuant to W.		HAND	
	N RECEIPT REQUESTED	DELIVERY	
the planned op- required to be p drilling of a ho damages to the (d) The notices of notice.	equested or hand delivery, give the sur- peration. The notice required by this provided by subsection (b), section ten prizontal well; and (3) A proposed su- surface affected by oil and gas operation required by this section shall be given by provided to the SURFACE OWN	rface owner whose land will be use subsection shall include; (1) A con of this article to a surface owner wirface use and compensation agree ions to the extent the damages are on to the surface owner at the address (IER(s))	pplication, an operator shall, by certified mail and for the drilling of a horizontal well notice of opy of this code section; (2) The information whose land will be used in conjunction with the ment containing an offer of compensation for compensable under article six-b of this chapter, as listed in the records of the sheriff at the time
	listed in the records of the sheriff at th		
Name: Dallison Lui	/	Name: Dallison Lumber	Inc (2nd Address)
Address: PO Box Jacksonburg, WV 26		Address: PO Box 159 Jacksonburg, WV	20277
operation on the State:	est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia	e of drilling a horizontal well on the	g: 523685.131m
-	Wetzel	Northin	77. 20
	Green Pine Grove 7.5'	Public Road Access: Generally used farm nam	CO. Route 50
	Fishing Creek	Generally used farm ham	Antero Resources Corporation Oil
-			Environmental 2 2021
to be provided horizontal well; surface affected information rela	to by W. Va. Code § 22-6A-10(b) to a comparation; and (3) A proposed surface use and d by oil and gas operations to the extracted to horizontal drilling may be obtained at 601 57th Street, SE, Characteristics.	a surface owner whose land will compensation agreement containing tent the damages are compensable of tained from the Secretary, at the	this code section; (2) The information required be used in conjunction with the drilling of a g an offer of compensation for damages to the under article six-b of this chapter. Additional WV Department of Environmental Protection 450) or by visiting www.dep.wv.gov/oil-and-
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

API NO. 47-103 - 03426

OPERATOR WELL NO. Gribben Unit 1H

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

provisions lis WW-6A and	, hereby state that I have read the sted above, and that I have received copies of a No l attachments consisting of pages one (1) through the well plat, all for proposed well work on the trace	tice of Application, an Ap	plication for a Well Work Permit on Form
State: County:			523685.131m
	West Virginia U	Northing:	4375237.509m
District:	Green P	ublic Road Access:	CO. Route 50
Quadrangle:		enerally used farm name:	Dallison Lumber Inc.
I further state	that I have no objection to the planned work descri	bed in these materials, and	I have no objection to a permit being
	k the box that applies CE OWNER		TON BY A NATURAL PERSON
☐ SURFACE OWNER (Road and/or Other Disturbance)		Print Name:	
☐ SURFAC	CE OWNER (Impoundments/Pits)	EOD EVECUT	HON BY A CORPORATION ETC
□ COAL C	OWNER OR LESSEE	Company:	TION BY A CORPORATION, ETC.
□ COAL C	PERATOR	By:	
□ WATER	RPURVEYOR	Signature:	
□ OPERA	TOR OF ANY NATURAL GAS STORAGE F		

Oil and Gas Privacy Notice:

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



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 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Dogwood Pad, Wetzel County Gribben Unit 1H 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 over year from the date of this letter.

Very Truly Yours,

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 $\begin{smallmatrix}471&0&3&0&3&4&2&6\end{smallmatrix}$ **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 "ic _s Ac
Propylene Glycol	57-55-6 107-19-7 57-55-6 14808-667, M. O 2 7631-86-9 7070 802 802
Quartz	14808-667, hr. 02 70
Sillica, crystalline quartz	7631-86-9 TONN SON CON
Sodium Chloride	7647-14-5 nair
Sodium Hydroxide	14808-6677, kg, 0 g, 70
Sugar	57-50-1 ***
Surfactant	68439-51-0
Suspending agent (solid)	14808-60-7
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7
Solvent Naphtha, 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
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
2-Propyn-1-olcompound with methyloxirane	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	64742-48-9
7. Cellulase enzyme	ි [ා] ල (Proprietary)
8. Demulsifier Base	المراقع (Proprietary)
8. Demulsifier Base 9. Ethoxylated alcohol blend 10. Ethoxylated Nonylphenol 11. Ethoxylated oleylamine 12. Ethylene Glycol 13. Glycol Ethers	Proprietary 64742-48-9 (Proprietary) (Proprietary) Mixture 68412-54-4 26635-93-8
10. Ethoxylated Nonylphenol	68412-54-4
11. Ethoxylated oleylamine	26635-93-8
12. Ethylene Glycol	107-21-1
	111-76-2
14. Guar gum	9000-30-0
15. Hydrogen Chloride	7647-01-0 64742-47-8
16. Hydrotreated light distillates, non-aromatic, BTEX free 17. Isopropyl alcohol	
17. Isopropyi alconoi 18. Liquid, 2,2-dibromo-3- nitrilopropionamide	67-63-0 10222-01-2
19. Microparticle	
20. Petroleum Distillates (BTEX Below Detect)	Proprietary 64742-47-8
21. Polyacrylamide	57-55-6
22. Propargyl Alcohol	107-19-7
23. Propylene Glycol	57-55-6
24. Quartz	14808-60-7
25. Sillica crystalline quartz	7631-86-9
26. Sodium Chloride	7647-14-5
27. Sodium Hydroxide	1310-73-2
28. Sugar	57-50-1
29. Surfactant	68439-51-0
30. Suspending agent (solid)	14808-60-7
31. Tar bases, quinolone derivs, benzyl chloride-quarternized	72480-70-7
32. Solvent Naptha, petroleum, heavy aliph	64742-96-7
33. Soybean Oil, Me ester	67784-80-9
34. Copolymer of Maleic and Acrylic Acid	52255-49-9
35. DETA Phosphonate	15827-60-8
36. Hexamythylene Triamine Penta	34690-00-1
37. Phosphino Carboxylic acid polymer	71050-62-9
38. Hexamethylene diamine penta	23605-74-5
39. 2-Propenoic acid, polymer with 2 propenamide	9003-06-9
40. Hexamethylene diamine penta (methylene phosphonic	•
41. Diethylene Glycol	111-46-6
42. Methenamine	100-97-0
43. Polyethylene polyamine	68603-67-8
44. Coco amine	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

PORTERS FALLS & PINE CROVE USGS 7.5 QUAD MAP(S)

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 523886.25 (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 WEIGHT DESCRIPTION FOR PERFORMED ON SEPTEMBER 6, SOFT BY SC. HARVEY

STREAM AND WEIGHT DESCRIPTION FOR SETTEMBER ON SEPTEMBER THAT MER MOST LINES WITHIN

THE REGULATORY PERFORMS OF THE U.S. ARMY COURS OF SECURE (WARDERS (WARD) AND/OR THE FIRST

VERBERA DEFENDATION OF ENVIRONMENTAL PROTECTION SEVERE) THE SEPTEMBER 7, 2017 AGRANTS

PRAYIMENT MAY SEPTEMBER OF THE U.S. ARMY CONTROLLED TO THE U.S. ARMY CONTROLLED THE SEPTEMBER OF THE U.S. ARMY CONTROLLED THE SECURITY OF THE LANDWARD MAINTS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USAGE 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 | ENGINEER & ENGINEER & ENGINEER | ENGINE

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 SETTIMENOR AND COMPARTS AND PERMANENTY GRADILIZED MEMPENANCE MUST SCALED INSPECTION OF ALL EXPECTED MAIN DEPARTS CONTROLS AFTER EACH HUMOFF EVENT IS EXCESS OF SAY AND NA EXTERMENT MAIN PROPERTY.

- 2 THE CONSTRUCTION SITE SHOULD BE STABILIZED AS SOON AS POSSIBLE AFTER COMPLETION. ESTABLISHNESS OF TONAL STABILIZATION VILST BE INITIATED NO LATER THAN 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 RESOURCESING VERTICAL THE PARK CRAINER OF THE SHOP AREA AS OF THE CASE AND AS THE ASSOCIATION TO THE FINAL PRACTICE OF THE SHIPE AREA AS OF THE CATE ANYTHIS ENGINEERING HE FOR THE FINAL PRACTICE.
- 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

((SITE ENTRANCE . 0 (11)

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
- R LEGEND
- 8 OVERALL PLAN SHIELT DURCE
- 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

DOCUMED LIMITS OF DISTURBANCE	AREA (AC)
Total Site	Total
Access Road	9.89
Well Pad	15.40
Siockpile Area	5.97
Additional Limits of D siurbance	4.70
Total Affected Area	35,56
Total Wooded Acres Distribed	2474
Impacts to Bartrug, Terry APNE 5.	5-20-12
Access Road	5.41
Appriprial Limits of Disturbance	3.30
Total Affected Area	9.71
Total Wooded Acres Dishirbed	2 23
broacts to Dallison Lumber, Inc. APR	# 05-26-F3
Access Road	3.45
Well Pad	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 ALON	
	Hermile d 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 SECTION SIZE	
Unit 2H	4 370189/09 C 5054575.54	LONG 40-43-20 5444	*(43/5242 18) 5 525665 24	LAT 36:31:36:4135 LONG-10-41-17 9985	
Onlisted Unit 1H	6 1854576 32	LONG 40-43 JR 3467		LAT 19:31:31:35:551 LEHG 82:43:27 E118	
Orlabin Deltah	4 976169 11 0.1054675.70	LAT 39-31 34 0273 LONG-89-43-24 5584	F 4375239 DA E 523686 02	LAT 39-21-35-11-14 LONG ADMINISTRATE	
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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PAD & WATER CONTAINMENT DOGWOOD



WELL

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

