

west virginia department of environmental protection

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

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

Tuesday, January 18, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re:

Permit approval for CALHOUN UNIT 2H 47-017-06912-00-00

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

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

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

Operator's Well Number: CALHOUN UNIT 2H

Farm Name: ANTERO MIDSTREAM, LLC

U.S. WELL NUMBER: 47-017-06912-00-00

Horizontal 6A New Drill Date Issued: 1/18/2022

Promoting a healthy environment.

API	Number:	

PERMIT CONDITIONS

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

CONDITIONS

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



OPERATOR WELL NO. Calhoun Unit 2H
Well Pad Name: Gaspar

STATE OF WEST, ME CTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operator: Antero Res	ources Corpora	494507062	017-Doddrig	West Up	West Union 7.5'
d.::::::::::::::::::::::::::::::::::::		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Ca	alhoun Unit 2H	Well P	ad Name: Gas	par	
3) Farm Name/Surface Owner:	Antero Midstrea	m Public R	oad Access: US	Route 5	
4) Elevation, current ground:	1216' EI	evation, propose	d post-construct	ion: 1189'	
5) Well Type (a) Gas X Other	Oil	Un	derground Stora	ige	
	rizontal X	Deep	_		Sper 12/20/2021
6) Existing Pad: Yes or No No					12/20/2021
7) Proposed Target Formation(s Marcellus Shale: 7400 TVD, A					
8) Proposed Total Vertical Dept	h: 7400 TVD				
9) Formation at Total Vertical I	Depth: Marcellus	3			
10) Proposed Total Measured D	epth: 17,900				
11) Proposed Horizontal Leg Le	ength: 9287'				
12) Approximate Fresh Water S	trata Depths:	200'			
13) Method to Determine Fresh	Water Depths:	Offset well reco	ds, 470170479	70000	
14) Approximate Saltwater Dep	ths: 1345'				
15) Approximate Coal Seam De	pths: None Anti-	cipated			
16) Approximate Depth to Possi	ble Void (coal mi	ine, karst, other):	None Anticipa	ated	
17) Does Proposed well location directly overlying or adjacent to		ms Yes	Ne	x X	
(a) If Yes, provide Mine Info:	Name:				
	Depth:				
	Seam:				
	Owner:				

API NO. 47- 017	0	6912
OPERATOR WEL	L NO.	Calhoun Unit 2H
Wall Pad Name	· Gasos	ar .

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	16"	New	H-40	65#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	10-3/4"	New	J/K-55	40.4#	300	300'	CTS, 313 Cu. Ft.
Coal	9#5/8"	New	P-110CY	26.4#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5"	New	P-110 CY	18#	17900'	17900'	CTS, 3583Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							
	1						

5 Dev 12/20/2021

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	16"	20"	0.375"	1530	50	Class A	~1.16
Fresh Water	10-3/4"	13-1/2"	0.35"	2730	1000	Class A	~1.16
Coal	7-5/8"	9-7/8"	0.328"	9410	1500	Class A	~1.16
Intermediate							5
Production	5"	6-3/4"	0.362"	15,840	12,000	Class G/H	~1.16
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

Kind:	N/A	
Sizes:	N/A	
Depths Set:	N/A	

API NO. 47- 017

06912

OPERATOR WELL NO. Calhoun Unit 2H

Well Pad Name: Gesper

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

Drill a new horizontal shallow well into the Marcellus Shale.

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

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

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 48.38 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 8.32 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: Tall 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.

API Number 47 - 017

06912

Operator's Well No. Calhoun 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 49	4507062
Watershed (HUC 10) Headwaters Middle Island Creek Quadrangle West Union 7.5'	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes Will a pit be used? Yes No V	s No No
If so, please describe anticipated pit waste: the pit will be used at this site (Drilling and Flowback Fluids will be stored in the	anks, Cuttings will be tanked and hauled off site.)
Will a synthetic liner be used in the pit? Yes No If so, what ml.? _ No If so, what ml.? _ No If so, what ml.? _ No No No If so, what ml.? _ No	WA SOM
Proposed Disposal Method For Treated Pit Wastes:	12/20/2021
Land Application	The state of the s
 Underground Injection (UIC Permit Number *UIC Permit # will be provided in the pr	
 Off Site Disposal (Supply form WW-9 for disposal location) (Meadowf 	ill Landfill Permit #SWF-1032-98) ern Landfill Permit #SWF-1025/
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings removed offs	site and taken to landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc	Surface - Air/Freshwater, Intermediate -
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Please See Attachment	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Drill cuttings stored in tank	s, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/	A
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-96), Northwestern La	ndfill (Permit # SWF-1025/WV0109410)
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or a West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WAT on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environment provisions of the permit are enforceable by law. Violations of any term or condition of the gen law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with application form and all attachments thereto and that, based on my inquiry of those individualizing the information, I believe that the information is true, accurate, and complete. I appendities for submitting false information, including the possibility of fine or imprisonment.	al Protection. I understand that the leral permit and/or other applicable the information submitted on this duals immediately responsible for
Company Official Signature Gretchen Kohler	
Company Official (Typed Name) Gretchen Kohler	
Company Official Title Senior Environmental & Regulatory Manager	
	21
My commission expires 27 Apre 2024	NOTARY PUBLIC STATE OF COLORADO
ci rya wej	MY COMMISSION EXPIRES 27-Apr-202

Form WW-9

Proposed Revegetation Treatmen	nt: Acres Disturbed 48.38 acr	es Prevegetation p	Н
	Tons/acre or to correct to pH		
	raw or Wood Fiber (will be used w		
Fertilizer amount 500	lbs	acre	
Mulch 2-3	Tons/ac		
Access Road "A" (20,61 acres) +	Access Road "B" (1.57 acres) + Access Roa	d "C" (0.43 acres) + Access Road "D" (0.2) acres) + Excess/Topsoil Stockpiles (14.74 acres) =	es) + Staging Area (0.73 acres)
THAT I BUTO		Mixtures	10.00 1000
Tempo	orary	Perm	anent
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Crownvetch	10-15
Field Bromegrass	40	Tall Fescue	30
See attached Table 3 for additional seed type	(Gaspar Pad Design Sheet Page 4)	See attached Table 4A for additional seed to	type (Gaspar Pad Design Sheet Page
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provided). If water from the pit vacreage, of the land application a	d proposed area for land applica will be land applied, include dim area.	*or type of grass seed requirements on (unless engineered plans incleasions (L x W x D) of the pit, and	uding this info have been
Attach: Maps(s) of road, location, pit and provided). If water from the pit vacreage, of the land application a	d proposed area for land applica will be land applied, include dim area. 7.5' topographic sheet.	tion (unless engineered plans incl	uding this info have been
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Form WW-9 Additives Attachment

SURFACE INTERVAL

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

INTERMEDIATE INTERVAL

STIFF FOAM RECIPE:

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

PRODUCTION INTERVAL

1. Alpha 1655

Salt Inhibitor

2. Mil-Carb

Calcium Carbonate

3. Cottonseed Hulls

Cellulose-Cottonseed Pellets - LCM

4. Mil-Seal

Vegetable, Cotton & Cellulose-Based Fiber Blend – LCM

5. Clay-Trol

Amine Acid Complex – Shale Stabilizer

6. Xan-Plex

Viscosifier For Water Based Muds

7. Mil-Pac (All Grades)

Sodium Carboxymethylcellulose - Filtration Control Agent

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

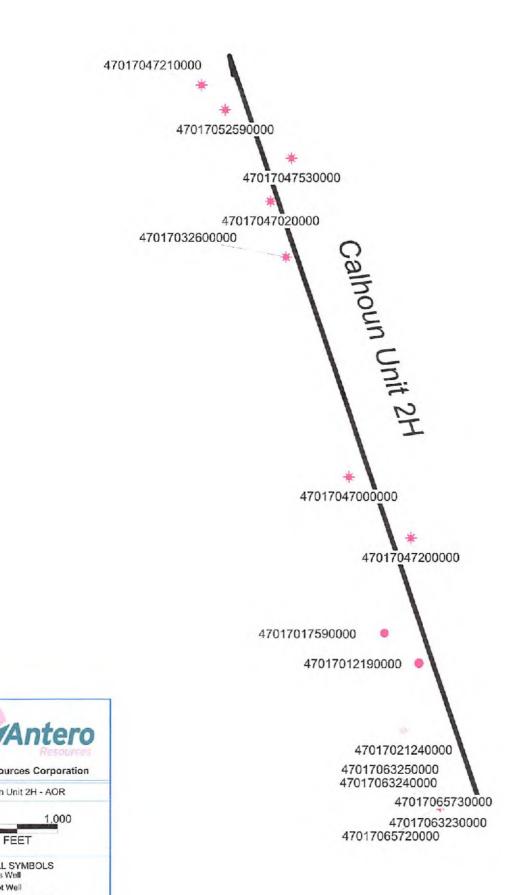


Antero Resources Corporation

Cahloun Unit 2H - AOR

WELL SYMBOLS Gas Well Pilot Well Plugged Gas Well

December 15, 2021



[UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
-1	47017052590000	J SMITH	5	ANTERO RESOURCES CORPORATION	SPENCER ENTERPRISES	2,966	2078 - 2766	Greenbrier, Big Injun, Gordon	Warren, Speechly, Balltown, Riley, Benson
- ₹	47017047210000	FARR	2	KEY OIL CO	KEY OIL CO	5,630	3524 - 5481	Warren, Speechley, Balltown, Riley, Benson, Alexander	Gordon, Berea
-{	47017047530000	CALHOUN JACK	2	KEY OIL CO	KEY OIL CO	2,958	2119 - 2813	Keener, Big Injun, Gordon	Alexander, Berea
Æ	47017047020000	SPONAUGLE	2	KEY OIL CO	KEY OIL CO	5,590	3542 - 5494	Warren, Speechley, Balltown, Riley, Benson, Alexander	Gordon, Berea
Æ	47017032600000	SPONAUGLE	3	KEY OIL CO	KEY OIL CO	2,817	1948 - 2668	Big Injun, Gordon	Alexander, Berea
1	47017047000000	LONGACRE	5	KEY OIL CO	KEY OIL CO	2,797	1876 - 2580	Keener, Big Injun, Sqaw, Gordon	Alexander, Berea
Æ	47017047200000	LONGACRE	7	KEY OIL CO	KEY OIL CO	2,540	1698 - 2424	Keener, Big Injun, Gordon	Alexander, Berea
4	47017021240000	C F LONGACRE	2	CITIES SERV O&G CORP	CITIES SERV O&G CORP	1,888			
4	47017063240000	MAXWELL LEWIS	WV 513346	EQT PRODUCTION CO	EQT PRODUCTION CO	7,021			
1	47017063230000	MAXWELL LEWIS	WV 513343	EQT PRODUCTION CO	EQT PRODUCTION CO	14,717	7355 - 14693	Marcellus	
4	47017063250000	MAXWELL LEWIS	WV 513347	EQT PRODUCTION CO	EQT PRODUCTION CO	14,616	7661 - 13332	Marcellus	
7	47017065720000	MAXWELL LEWIS	WV 513342	EQT PRODUCTION CO	EQT PRODUCTION CO	12,741	8093 - 12717	Marcellus	
Æ	47017065730000	MAXWELL LEWIS	WV 513344	EQT PRODUCTION CO	EQT PRODUCTION CO	13,845	9182 - 13807	Marcellus	
Æ	47017017590000	SAMUEL SADLER	1	TAPO ENERGY INC	RAMCO OIL & GAS INC	2,558	2304 - 2328	Big Injun	
1	47017012190000	JOEL DAVIS	1	R & R OIL & GAS LLC	PRIOR FERRELL L	2,150		Big Injun	



911 Address 993 Rock Run Road West Union, WV 26456

Well Site Safety Plan Antero Resources

Well Name: Calhoun Unit 1H-2H, Mckean Unit 1H-2H,

Mule Unit 1H-2H-3H

Pad Location: GASPAR PAD

Doddridge County/West Union District

GPS Coordinates:

Entrance - Lat 39°18'37.2198"/Long -80°45'6.156" (NAD83)

Pad Center - Lat 39°18'52.7076"/Long -80°45'44.8416" (NAD83)

Driving Directions:

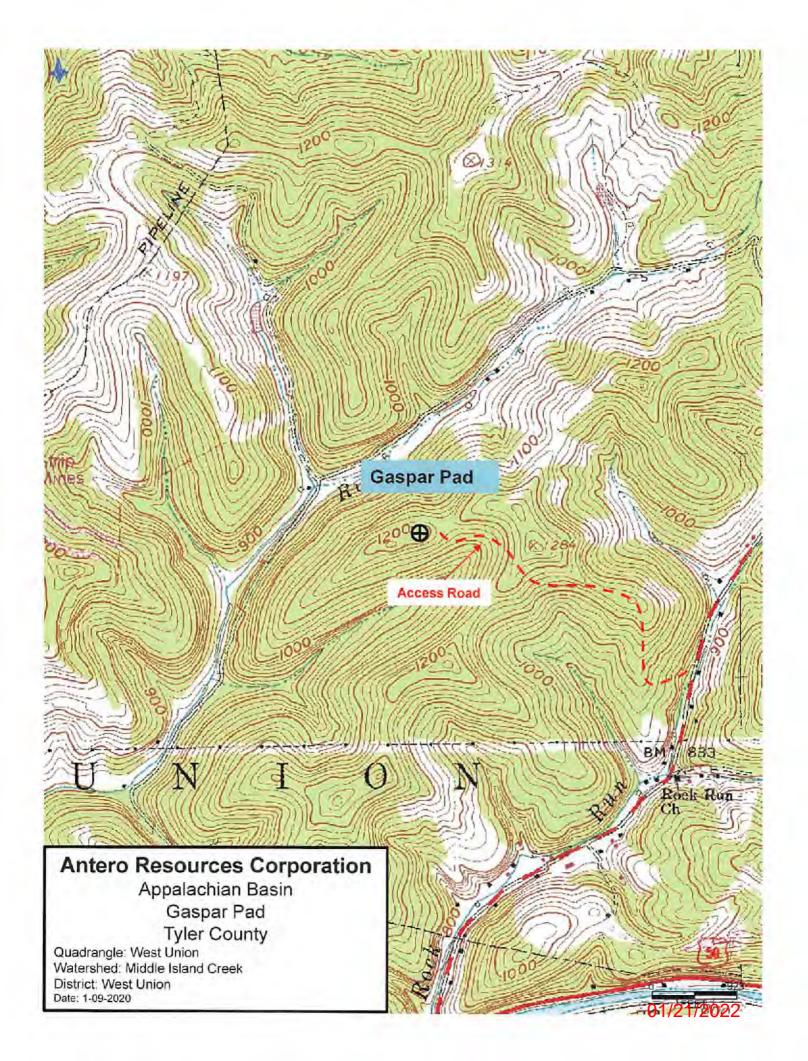
From the intersection of 179 and US-50W near Bridgeport: Head west on US-50 W for 25.7 miles. Turn left onto Co Rte 50/22 for 0.2 miles. Slight right onto Smithton Rd for 2.4 miles. Turn right onto Rock Run Rd for 1.0 miles. The access road will be on your left.

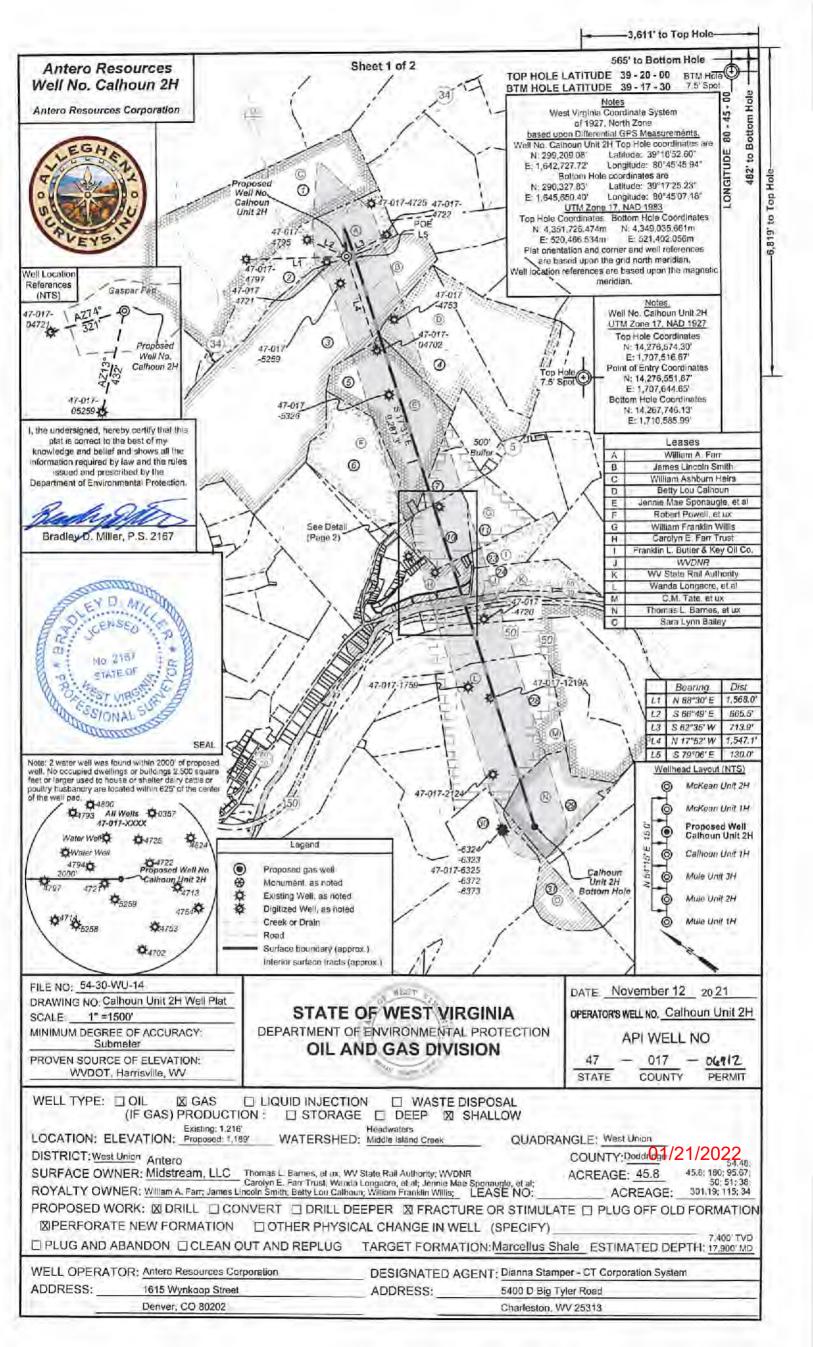
Alternate Route:

From the intersection of 177 and US-50E near Parkersburg: Head east on US-50 E for 43.2 miles. Turn left onto WV-18 N towards the town of West Union for 0.6 miles. Turn right onto David St/Smithton Rd for 1.0 miles. Turn left onto Rock Run Rd for 1.0 miles. The access road will be on your left.

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

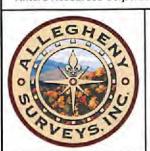
12/20/2021 1



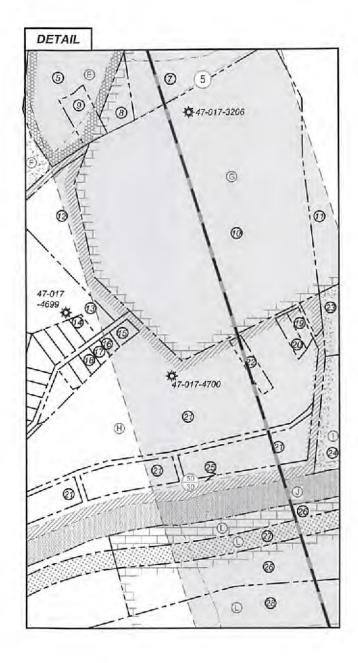


Antero Resources Well No. Calhoun 2H

Antero Resources Corporation



ID	TM/Par	Owner	Bk/Pg	Acres
1	7-18	Antero Midstream, LLC	387/708	116.54
2	7-18.1	Antero Midstream, LLC	346/612	45.80
3	7-29	Sharon A. Gaspar	W113/242	182.67
4	8-31	Jacqueline D. & Gayford A. Cox	469/369	53.75
5	7-25	Robert W. Sponaugle, et al	369/496	49.50
6	11-8	Granville Jr. & Rose Mae Criss	317/43	44.15
7	12-2	Frank Jr & Doris E. Holtz	235/23	13.54
8	11-11.1	Robert W. Sponaugle, et al	369/496	0.25
9	7-25.1	Elden C. & Teresa A. Sponaugle	349/701	0.50
10	12-1	Antero Midstream, LLC	378/34	18.90
11	12-4	Sharon E. Walker & Ronald J. Burns	259/365	18.70
12	34-3	Spencer Enterprises, LLC	261/512	2.13
13	34-62	Terri Lynn Whitehill	AP44/659	2.90
14	34-82	Terri Lynn Whitehill	AP44/659	0.13
15	34-90	Terri Lynn Whitehill	AP44/659	0.14
16	34-89	Terri Lynn Whitehill	AP44/659	0.10
17	34-88	Terri Lynn Whitehill	AP44/659	0.10
18	34-87	Terri Lynn Whitehill	AP44/659	0.11
19	34-98	Roy F. Rupert	122/141	0.32
20	34-116	W.W. Gaskins, Heirs	76/305	0.20
21	34-98	Rossie & Eva Lowery	272/321	15.62
22	34-18	Ina Jessa Underwood, Heirs	W6/397	0.28
23	12-6	Rossie & Eva Lowery, et al	258/336	15.30
24	12-23	Rossie & Eva Lowery	258/336	14.63
25	34-13	W. Va. D.O.H.	/	0.36
26	12-103	Barnes Siblings Property, LLC	471/545	43.11
27	12-101	WV Railroad Maintenance Authority	216/166	11.30
28	12-50	Key Oil Co., et al	252/558	76.98
29	12-64	Frank L. Butler, et al	259/275	34.13
30	12-71.1	Franklin L. Butler & Key Oil Co.	256/324	81.91
31	12-64.1	Frank L Butler, et al	259/275	15.50



FILE NO: 54-30-WU-14

DRAWING NO: Calhoun Unit 2H Well Plat

SCALE: 1" =1500'

MINIMUM DEGREE OF ACCURACY: Submeter

PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW Existing: 1,216'

Headwaters

OATE: November 12 20 21

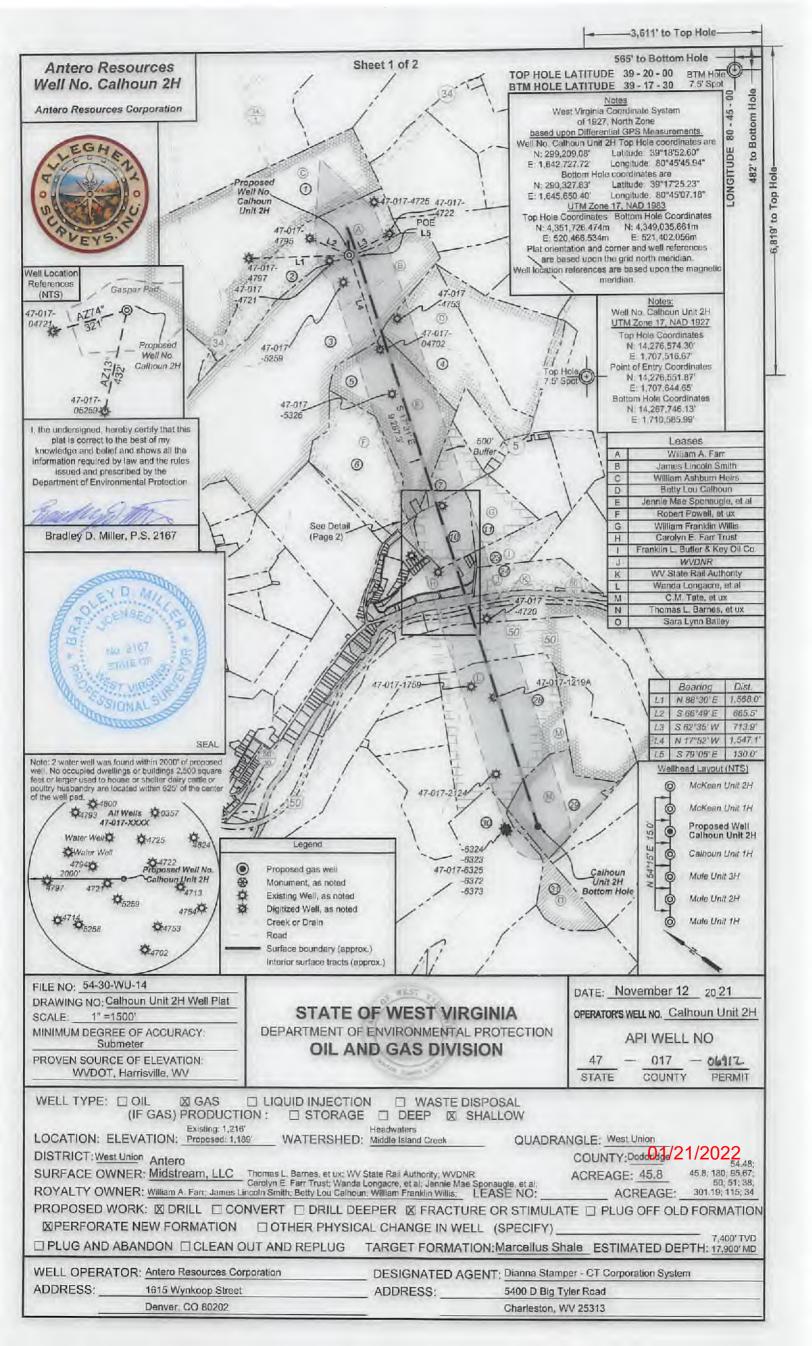
OPERATOR'S WELL NO. Calhoun Unit 2H

API WELL NO

47 — 017 — 06912

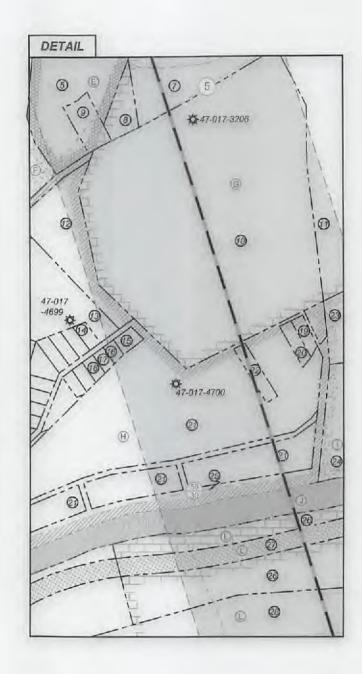
WVDOTT	Tarrisvine, VVV	Znas	STATE	COUNTY	PERMIT
WELL TYPE:	(IF GAS) PRODUCTION:		POSAL ALLOW		
LOCATION: EL	EVATION: Existing: 1,216' Proposed: 1,189'	Headwaters WATERSHED: Middle Island Creek	QUADRANGLE: Wes	t Union	
DISTRICT: West U	Union Antero		COUNTY:	Dodd@ge/21	/2022
	NER: Midstream, LLC Thomas	s L. Barnes, et ux; WV State Rail Authority; WVDNR	ACREAGE	: 45.8 45	5.8; 180; 95.67;
ROYALTY OWN	IER: William A. Farr; James Lincoln Si	n E. Farr Trust; Wanda Longacre, et al; Jennie Mae Sp mith; Betty Lou Calhoun; William Franklin Willis; LE		CREAGE: 3	50; 51; 38; 301.19; 115; 34
PROPOSED WO	ORK: IN DRILL CONVER	RT DRILL DEEPER STRACTURE	OR STIMULATE PLU	G OFF OLD F	ORMATION
	E NEW FORMATION	OTHER PHYSICAL CHANGE IN WELL	. (SPECIFY)		
☐ PLUG AND A	BANDON □ CLEAN OUT A	ND REPLUG TARGET FORMATIO	N:Marcellus Shale_ ESTIN	NATED DEPT	7,400' TVD H: <u>17,900' MD</u>
WELL OPERAT	OR: Antero Resources Corporatio	DESIGNATED AGE	NT: Dianna Stamper - CT Corp	oration System	
ADDRESS:	1615 Wynkoop Street	ADDRESS:	5400 D Big Tyler Road		
	Denver, CO 80202		Charleston, WV 25313		

Sheet 2 of 2





ID	TM/Par	Owner	Bk/Pg	Acres
1	7-18	Antero Midstream, LLC	387/708	116.54
2	7-18.1	Antero Midstream, LLC	346/612	45.80
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6	11-8	Granville Jr. & Rose Mae Criss	317/43	44.15
7	12-2	Frank Jr & Doris E. Holtz	235/23	13.54
8	11-11.1	Robert W. Sponaugle, et al	369/496	0.25
9	7-25.1	Elden C. & Teresa A. Sponaugle	349/701	0.50
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15	34-90	Terri Lynn Whitehill	AP44/659	0.14
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17	34-88	Terri Lynn Whitehill	AP44/659	0.10
18	34-87	Terri Lynn Whitehill	AP44/659	0.11
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24	12-23	Rossie & Eva Lowery	258/336	14.63
25	34-13	W. Va. D.O.H.	/	0.36
26	12-103	Barnes Siblings Property, LLC	471/545	43.11
27	12-101	WV Railroad Maintenance Authority	216/166	11.30
28	12-50	Key Oil Co., et al	252/558	76.98
29	12-64	Frank L. Butler, et al	259/275	34.13
30	12-71.1	Franklin L. Butler & Key Oil Co.	256/324	81.91
31	12-64.1	Frank L Butler, et al	259/275	15.50



FILE NO: 54-30-WU-14

DRAWING NO: Calhoun Unit 2H Well Plat

1" =1500" SCALE:

MINIMUM DEGREE OF ACCURACY: Submeter

PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

WEST

Sheet 2 of 2

DATE: November 12 20 21 PERATOR'S WELL NO. Calhoun Unit 2H

API WELL NO

47

- 017 - 06912 COUNTY PERMIT

WELL TYPE:	☑ GAS ☐ PRODUCTION	 INJECTION			DISPOSAL SHALLOW
LOCATION:	Existing: 1,216' Proposed: 1,189'		Headwaters	7	Q

QUADRANGLE: West Union

DISTRICT: West Union Antero
SURFACE OWNER: Midstream, LLC Thomas L Barnes, et ux; WV State Rail Authority, WVDNR
Carolyn E. Farr Trust; Wanda Longacre, et al; Jennie Mae Sponaugle, et al;
ROYALTY OWNER: William A. Farr; James Lincoln Smith; Betty Lou Calhoun; William Franklin Willis, LEASE NO:

COUNTY: Dodd 0.0 21/2022 54.48; ACREAGE: 45.8 45.8; 180; 95.67; 50; 51; 38; ACREAGE: 301.19; 115; 34

PROPOSED WORK: X DRILL	☐ CONVERT	☐ DRILL DEEPER	X FRACTURE	OR STIMULATE	☐ PLUG OFF	OLD FORMATION
IXIPERFORATE NEW FORMAT	TION TIOT	HER PHYSICAL CHA	ANGE IN WELL	(SDECIEV)		

□ PLUG AND ABANDON □ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 17,900'MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road Denver, CO 80202 Charleston, WV 25313

Operator's Well Number

Calhoun 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
	William A. Farr Lease			
Å	William A. Farr	Carolyn E. Farr Trust	1/8	0277/0644
r	Carolyn E. Farr Trust	Antero Resources Appalachian Corporation	Assignment	0281/0310
	Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0046/0523
	James Lincoln Smith Lease			
	James Lincoln Smith	Duncan Sartain	1/8	0071/0080
3	Duncan Sartain	L.E. Scherck	Assignment	0072/0377
	L.E. Scherck	Roscoe B.G. Cowper & B.T. Cowper	Assignment	0071/0183
	Roscoe B.G. Cowper & B.T. Cowper	Lawrence H. Aberegg	Assignment	0098/0233
	Lawrence H. Aberegg	Hugh K. Spencer	Assignment	0098/0235
	Hugh K. Spencer	Ronald B. Spencer and Rhonda S. Rossetti, as co- executors of the estate of Hugh K. Spencer	Will	0033/0068
	Ronald B. Spencer and Rhonda S. Rossetti, as co- executors of the estate of Hugh K. Spencer	Ronald B. Spencer and Rhonda S. Rossetti, as co- trustees of the Hugh K. Spencer Martial Trust B	Assignment	0199/0282
	Ronald B. Spencer and Rhonda S. Rossetti, as co- trustees of the Hugh K. Spencer Martial Trust B	Spencer Enterprises, LLC	Assignment	0199/0534
	Spencer Enterprises, LLC	Antero Resources Appalachian Corporation	Assignment	0264/0099
	Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0046/0523
_	Betty Lou Calhoun Lease			
ア	Betty Lou Calhoun	Key Oil Company	1/8	0195/0462
	Key Oil Company	Antero Resources Appalachian Corporation	Assignment	0276/0526
	Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0046/0523
	Jennie Mae Sponaugie, et al Lease			
E	Jennie Mae Sponaugle, et al	Key Oil Company	1/8	0193/0288
•	Key Oil Company	Antero Resources Appalachian Corporation	Assignment	0276/0526
	Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0046/0523
G	William Franklin Willis Lease			
G	William Franklin Willis	Antero Resources Corporation	1/8+	0436/0640
H	Carolyn E. Farr Trust Lease			
n	Carolyn E. Farr Trust, Clarence Sigley, Trustee	Antero Resources Corporation	1/8	0432/0367
٨	WVDNR Lease			
•	WVDNR	Antero Resources Corporation	1/8+	0483/0188
	Wanda Longacre, et al Lease			
V	Wanda Longacre, et al	Equitable Gas Company	1/8	0192/0638
	Equitable Gas Company	EQT Production Company	Name Change	0281/0346
	EQT Production Company	Antero Resources Corporation	Assignment	0388/0294

WW-6A1

Operator's Well Number Calhoun 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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- (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
WV State Rail Authority Lease WV State Rail Authority Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	1/8+ Name Change	0253/0409 0046/0523

^{*}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.

WW-6A
(5/13)

O	perator'	s	Well	No.	Calhoun	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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Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Thomas L. Barnes, et ux Lease				
	Thomas L. Barnes, et ux	Jackson L. Smith Enterprises, Inc	1/8	0192/0007
	Jackson L. Smith Enterprises, Inc	Key Oil Company	Assignment	0192/0016
•	Key Oil Company	Antero Resources Appalachian Corporation	Assignment	0276/0526
	Antero Resources Appalachian Corp.		Name Change	0046/0523

*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:	Tim Rady	(m) leili			
Its:	Senior VP of	Operations			

Page 1 of _____



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

December 5, 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:

Calhoun Unit 1H & 2H

Quadrangle: West Union 7.5'

Doddridge County/West Union District, West Virginia

Mr. Martin:

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

Sincerely,

Tyler Skavdahl Senior Landman

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

Date of Notic	ce Certification: 12/07/2021	API No. 47- 01	7 0	6912		
Date of Hour	e ceruncation.	Operator's We	Operator's Well No. Calhoun Unit 2H			
		Well Pad Name	e: Gaspar F	Pad		
Notice has l	neen given:	1134 2 101 2 101				
Pursuant to th	ne provisions in West Virginia Code	§ 22-6A, the Operator has provided the require	d parties w	ith the Notice Forms listed		
	tract of land as follows:		a one way to			
State:	West Virginia	UTM NAD 83 Easting: 520	466.53m			
County:	Doddridge	Northing: 435	1726.47m			
District:	West Union	1 33379 11040 1104000	Route 5			
Quadrangle:	West Union 7.5'	Generally used farm name: Ante	ero Midstream	LLC		
Watershed:	Headwaters Middle Island Creek					
requirements Virginia Cod of this article Pursuant to	of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall have been completed by the applicant	perator has attached proof to this Notice Certif	surface ow the notice	ner; and Pursuant to Wes		
*PLEASE CH	ECK ALL THAT APPLY			ONLY		
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSE SEISMIC ACTIVITY WAS CONDUCTED		RECEIVED/ NOT REQUIRED		
☐ 2. NO	TICE OF ENTRY FOR PLAT SUR'	VEY or <a> NO PLAT SURVEY WAS CONE	DUCTED	☐ RECEIVED		
Test .				LI KECEIYED		
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or		RECEIVED/ NOT REQUIRED		
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE OF ENTRY FOR PLAT SURVEY		□ RECEIVED/		
	TICE OF INTENT TO DRILL or TICE OF PLANNED OPERATION	NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OF		□ RECEIVED/		
■ 4. NO		NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OF		☐ RECEIVED/ NOT REQUIRED		

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.

Address:

Well Operator: Antero Resources Corporation By: Diana Hoff Diana O. Its: Senior VP of Operations Telephone:

303-357-7310

Email:

1615 Wynkoop Street Denver, CO 80202

Facsimile: 303-357-7315

mstanton@anteroresources.com

NOTARY SEAL DIANE BLAIR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024 Subscribed and sworn before me this 7th day of Que 2021 .

27 Apr 2024 My Commission Expires

Oil and Gas Privacy Notice:

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

> RECEIVED Office of Oil and Gas

DEC 08 2021

WV Department of **Environmental Protection** WW-6A (9-13) API NO. 47- 017 - 06912
OPERATOR WELL NO. Cathoun Unit 2H
Well Pad Name: Gaspar Pad

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

Notic	ce Time Requiren	nent: notice shall be provide	ed no later that	n the filing	date of permit application.		
	of Notice: 12/7/202 ce of:	Date Permit Application	on Filed: <u>12/7/2</u>	2021			
V	PERMIT FOR AN		CATE OF APP UCTION OF A		OR THE INDMENT OR PIT		
Deliv	ery method purs	uant to West Virginia Cod	de § 22-6A-10	(b)			
	PERSONAL SERVICE	☐ REGISTERED MAIL			LIVERY THAT REQUIRES A		
registing registing registing registing register register register register register register recorrections recorr	Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by egistered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and ediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the sili and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as lescribed in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or nore coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any mpoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in the ecords of the sheriff required to be maintained pursuant to section eight, artic						
	 RFACE OWNER			COAL	OWNER OR LESSEE	DEC 08 ZUZI	
Nam Addi	e: Steve T. and Shares: 896 Aarons Cree Morgantown, WV	k Road		Name:	DECLARATIONS ON RECORD WITH COU	NTY WV Department of Environmental Protection	
Nam Addı	e:				OPERATOR D DECLARATIONS ON RECORD WITH COU	NTY	
Nam			urbance)	SPRING	PURVEYOR(s)/OWNER(s) OF WATER OR OTHER WATER SUPPLY SOURCE		
Nam Addi	West Union, WV e: Jacqueline D. Co ress: 825 Rock Run R West Union, WV	x, et vir pad		Address:	Antero Resources Corporation 1615 Wynkoop Street Denver, CO 80202 TOPLOF ANN NATURAL CAS	STOP ACE FIELD	
Nam	RFACE OWNER e:	(s) (Impoundments or Pits)		Name:	TOR OF ANY NATURAL GAS		
Addı	ess:		•		tach additional forms if necessary		

API NO. 47- 617 - 06912
OPERATOR WELL NO. Cathoun Unit 2H
Well Pad Name: Gaspar Pad

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/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, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements, (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article, (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13) API NO. 47-017 - 069\Z
OPERATOR WELL NO. Celhoun Unit 2H

Well Pad Name: Gaspar Pad

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

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

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

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.

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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Office of Oil and Gas

DEC 08 2021



WW-6A (8-13)

API NO. 47-017 - 06912
OPERATOR WELL NO. Calhoun Unit 2H
Well Pad Name: Gaspar Pad

AT				
Notice	18	hereby	given	DV.
110000		mer enj	Price	

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7310 Diana O. Hola Email: mstanton@anteroresources.com Address.

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.

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

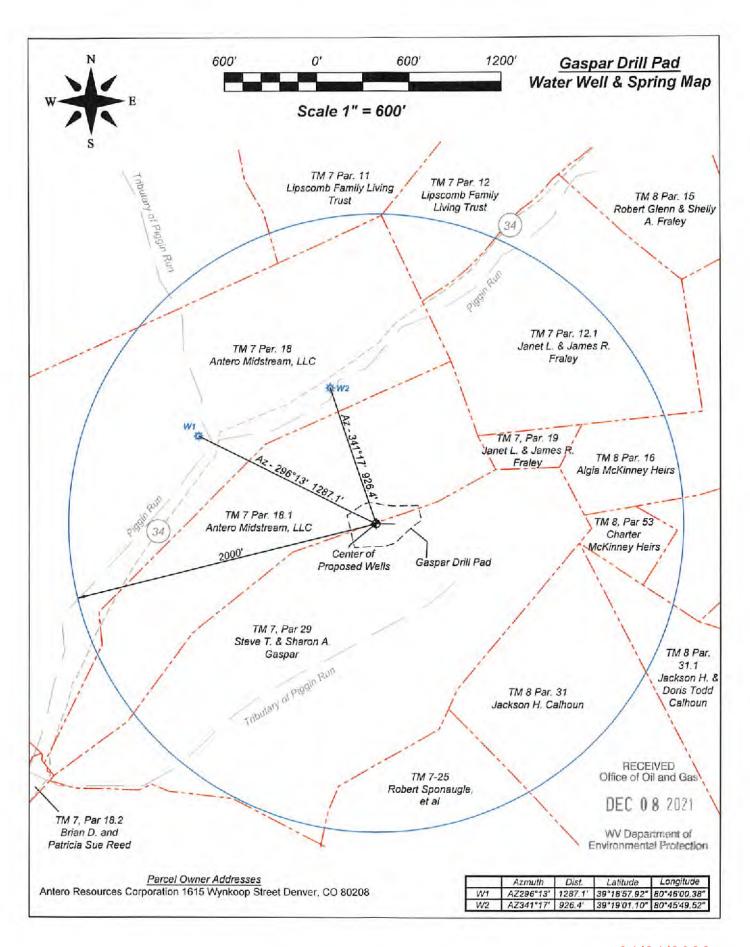
Subscribed and sworn before me this 7th day of 01 7021.

My Commission Expires 27 Apr 2024

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Office of Oil and Gas

DEC 08 2021



4701706912

Operator Well No. Calhoun Unit 2H

Multiple Wells on Gaspar 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 Notice		all be provided at least TEN (10) days prior Date Permit Application Filed: 12/	
Delivery meth	od pursuant to West V	/irginia Code § 22-6A-16(b)	
☐ HAND	CERTIFI	IED MAIL	
DELIVE		N RECEIPT REQUESTED	
DELIVE	KI KETUKI	N RECEIPT REQUESTED	
receipt request drilling a horiz of this subsecti subsection may and if available	ed or hand delivery, give contal well: Provided, To ion as of the date the not by be waived in writing by e, facsimile number and	e the surface owner notice of its intent to en That notice given pursuant to subsection (a), tice was provided to the surface owner: <i>Pro</i> by the surface owner. The notice, if required electronic mail address of the operator and to	application, an operator shall, by certified mail return the rupon the surface owner's land for the purpose of a section ten of this article satisfies the requirements ovided, however, That the notice requirements of this i, shall include the name, address, telephone number, the operator's authorized representative.
	T. Gaspar, et ux	SURFACE OWNER(s): Name:	
Address: 896 A		Address:	
Charles -	ntown, WV 26508-1506	rtdurcss.	
the surface ow	est Virginia Code § 22-0 ner's land for the purpos	se of drilling a horizontal well on the tract of	
Pursuant to W	est Virginia Code § 22-6	se of drilling a horizontal well on the tract of UTM NAD 83	f land as follows: Easting: 520466.53m Northing: 4351726.47m
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Oil and Gas Privacy Notice:

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

WW-6A5 (1/12)

Operator Well No. Calhoun Unit 2H

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

Notice Time Date of Notic	Requirement: notice share: 12/07/2021		later than the filing pplication Filed: 12/0		application.
Delivery met	thod pursuant to West V	irginia Code § 2	22-6A-16(c)		
■ CERTI	FIED MAIL		HAND		
RETUI	RN RECEIPT REQUEST	ED	DELIVERY		
return receipt the planned of required to be drilling of a damages to th (d) The notice of notice,	requested or hand delive operation. The notice re- e provided by subsection a horizontal well; and (3) a ne surface affected by oil a es required by this section	ry, give the surfa quired by this su (b), section ten of A proposed surfa and gas operation a shall be given to	ce owner whose land absection shall include this article to a surface use and compens as to the extent the day of the surface owner as	will be used for de: (1) A copy ace owner whost ation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	eby provided to the SUF s listed in the records of t				
	ASE SEE ATTACHMENT	35,70,7113,111,111,111	Name:		
Address:			Address		
Pursuant to W operation on State: County:	Vest Virginia Code § 22-6 the surface owner's land West Virginia Doddridge	A-16(c), notice i for the purpose o	s hereby given that the f drilling a horizonta UTM NAD 8	l well on the tra	well operator has developed a planned act of land as follows: 520466,53m 4351726,47m
District:	West Union		Public Road		US Route 5
Quadrangle:	West Union 7.5'		Generally use	ed farm name:	Antero Midstream LLC
Watershed:	Headwaters Middle Island Creek				
Pursuant to V to be provide horizontal we surface affect information r	ed by W. Va. Code § 2: ell; and (3) A proposed su ted by oil and gas operat related to horizontal drilli- located at 601 57th Stre	2-6A-10(b) to a surface use and contions to the extending may be obtain	surface owner whose impensation agreement the damages are continued from the Secret	e land will be unt containing arompensable und arv. at the WV	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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.

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DEC 08 2021



WW-6A5 Notice of Planned Operation to Surface Owner Attachment: Calhoun Unit 2h

Surface Owner:

Tax Parcel ID: 8-7-29, 8-7-18.1, 8-8-31, 8-8-31.1

Owner:

Steve T. Gaspar

Address:

896 Aarons Creek Road

Morgantown, WV 26508-1506

Owner: Address:

Jackson H. Calhoun 825 Rock Run Road

West Union, WV 26456-8516

Owner: Address:

Jacqueline D. Cox 825 Rock Run Road

West Union, WV 26456-8516

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DEC 08 2021

WV Department of Environmental Protection

WW-6AW (1-12) API NO, 47-017 OPERATOR WELL NO. Calhoun Unit 2H
Well Pad Name: Gaspar 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

County: District:	Doddridge	JTM NAD 83 Easting:			
97 (80) (30)		Northing:			
		Public Road Access: Generally used farm name:	US Route 5		
	Headwaters Middle Island Creek	denerally used farm name:	Afriero Midstream LLC		
		FOR EXECUT	ION DI A NATURAL PERSON		
*Please check	k the box that applies	FOR EXECUT	ION BY A NATURAL PERSON		
□ SURFA	CE OWNER	Signature:			
☐ SURFACE OWNER (Road and/or Other Disturbate					
☐ SURFA	CE OWNER (Road and/or Other Disturbance)	Print Name:			
	CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits)	Print Name: Date:			
□ SURFA	CE OWNER (Impoundments/Pits)	Print Name: Date: FOR EXECUT	ION BY A CORPORATION, ETC.		
□ SURFAC	CE OWNER (Impoundments/Pits) OWNER OR LESSEE	Print Name: Date: FOR EXECUTE Company: Antero F By: Diana Hoff	ION BY A CORPORATION, ETC.		
□ SURFAC	CE OWNER (Impoundments/Pits)	Print Name: Date: FOR EXECUTE Company: Antero F By: Diana Hoff	ION BY A CORPORATION, ETC.		
□ SURFAC □ COAL C □ COAL C	CE OWNER (Impoundments/Pits) OWNER OR LESSEE	Print Name: Date: FOR EXECUT: Company: Antero R By: Diana Hoff Its: Senior VP of Ope	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 Envill appropriately secure your personal information. If you have any questions about our use or your personal information DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

D. Alan Reed, P.E. State Highway Engineer 1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

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

October 29, 2021

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

Subject: DOH Permit for the Gaspar Pad, Doddridge County
Calhoun Unit 2H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2014-1199 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off Doddridge County Route 5 SLS MP 1.037.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Jary K. Clayton

Cc: Melissa Hamsher

Antero Resources Corporation

CH, OM, D-4

File

RECEIVED
Office of Oil and Gas

DEC 08 2021

Of 20172022 Otection

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

FRACTURING/STIMULATING INTERVAL

	Additive	Chemical Abstract Service Number (CAS #)
1.	Fresh Water	7732-18-5
2.	2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
3.	Ammonium Persulfate	7727-54-0
4.	Anionic copolymer	Proprietary
5.	Anionic polymer	Proprietary
6.	BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
7.	Cellulase enzyme	(Proprietary)
8.	Demulsifier Base	(Proprietary)
9.	Ethoxylated alcohol blend	Mixture
	Ethoxylated Nonylphenol	68412-54-4
	Ethoxylated oleylamine	26635-93-8
	Ethylene Glycol	107-21-1
	Glycol Ethers	111-76-2 9000-30-0
	Guar gum Hydrogen Chloride	7647-01-0
	Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
	•	67-63-0
	Isopropyl alcohol 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 a	
	Diethylene Glycol	111-46-6
	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

LOCATION COORDINATES
ACCESS ROAD SUTTAINER
LATITURE SE TRIGES. LONGITURE -08 751916 (NAD 60)
LATITURE SE DIRECT. LONGITURE - 80 751984 (NAD 87)
N 4051046 SO. E 581400,81 (NIM 2008 17 MEXERS)

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LATTICE: 39.31 MAGE LONGITUDE -56.763437 (MAGE ES)
H 4554726 01 E 630473,69 (UTM 2018: 17 MICESNE)

GENERAL DESCRIPTION

THE ACCESS READ(S). WATER CONTAINMENT PAD. AND FEL. PAD ARE BEING CONSTRUCTED TO ALD IN THE DEVELOPMENT OF INDIVIDUAL MARCHELUS SHALE GAS WELLS.

FLOODPLAIN NOTE

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	Permanent repacts		Temp Impects	Total market	
Stream and Impact Cause			Collection (LF)		
Street 3 (Access Freed "A")	1 11	2	- 44 -	25	
Secretary & District & Consultation		-	78	5.5	

GASPAR W IERMITENY STREAM RIPACT (LINEAR FEET)					
	Perma	ment impacts.	Temp Impacts	2-4-0 temporal	
Stream and Impact Cause	Culvert.	Structures (LF)	Controls (LF)	(LF)	
Streen 2 (Access Road "A")	0	0			
Stram 7 (Access Road "A")	117	0	0	117	
Streem 8 (Access Hund 'A')	139	0	0	250	

GEOTECHNICAL NOTE

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PROJECT CONTACTS

OPERATOR: ANTE OF THE CASE BLVD.
BRIDGEPORT, WV 20330
PHONE (304) 842-4100
FAZ (304) 648-4100

ELI WAGONEE - ENVIRONMENTAL ENGINEER N REGULATORY MANAGER OFFICE (904) 842-4068 CELL (904) 478-9770

DEALER HOST - SYT OFFEATIONS OFFICE (2023) 057-5004

AARON SUNCERS - CONSTRUCTION VARIAGES CELL (403) 273-0344

HORSET B. VINCE - DESIGN WARACHO!

CHARLES R. COMPTOR. IN ... LITHLY COCKERNATION CHARLES FOR A 719 - 6440

1/10/2022

SOURCE SEPTION - LAND AGENT

ENGINIER/SURVEYOR: NAVIDE ENGINEGINI DEC TURIS S. MIMP. PS - PRODER MANAGER/ENGINERE DEPTE. (DOI) 002-018 [ELL [94]] 006-0147

ENVIRONMENTAL:
GAI CONSULTANTS, INC.
1450M A CORD. TENTOR ENVIRONMENTAL SPECIALIST
OFFICE (DAI) 908-0100 CELL [200] 799-0109

GEOTECHNICAL:
PERSYLVANIA BOIL & ROCK INC.
CHESTOPHER & SANICA-PROJECT ENGINEER
OFFICE (41% 57%-4000 FEEL (41%) 50%-60%

RESTRICTIONS NOTES:

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GASPAR WELL PAD & WATER CONTAINMENT PAD SITE DESIGN & CONSTRUCTION PLAN, APPROVED WVDEP QOG **EROSION & SEDIMENT CONTROL PLANS**

WEST UNION DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA NUTTER FORK-MIDDLE ISLAND CREEK WATERSHED

USGS 7.5 WEST UNION & SMITHBURG QUAD MAPS

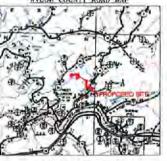


WEST VIRGINIA COUNTY MAP



INCT TO SCALE)

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



DESIGN CERTIFICATION
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GAIPAR LAITE OF DISTURBANCE AREA (AD)		
Access Road "A" (5.431")	20 61	
Access Hood 'B' (911)	1.67	
Actions Road "C" (115)	0.61	
Accres Road 'D' (87)	0.33	
Bleeving Aries	9.73	
Well Pad	8.92	
Water Consumers Part	1.77	
Excess/Topsoil Malertal Strickyries	94 74	
Tuta) Affected Area	48.38	
Total Wooded Agree Disturbed	32 70	
Total Wooded Acres Almady Cut	30 85	
Total Wooded Acres Fleeds Cut	1.85	
impacia to Jaquuelina Dawn & Alas Grayford		
Access Food "A" (3-4707)	10.60	
Excess/Topsoil Material Stockystes	6.05	
Tessi Afrected Area	20.64	
Total Wooded Ages Cistates	11.64	
Appacts to Jackson H. Calboun TM		
Access Road "A" (735")	1.95	
Excess/Copecil Meaning Stockpiles	0.85	
Total Affected Area	4.29	
Total Wooded Acres Draubed	3.66	
Amendia to Sheve T. & Sharon & Gaspar		
Access Road "A" (1,226)	6.36	
Access Road 'B' (412)	98.0	
Staging Area	0.53	
Vand Part	4 60	
Water Containment Paci	177	
Excess/Topace Material Stockgriss	4.24	
Total Affected Area	10.50	
Total Wonded Acres Distarbed	14.00	
imports to Amero Midstream LLC TM		
Vocass (Jang St. (1842)	0.60	
Access most 'C' (115)	0.43	
Agrans Road TO* (87)	0.21	
Staging Area	0.30	
West Pag	1.42	
Total Affected Area	4 96	
Total Wipoded Acres Disturped	2.90	
Contractor of the Part of	2.90	

Print Name	Net 37	MEDLALLING	SOME 17	PADRICH SEPA		
1000	Parmilled Lotsker					
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DATE 31/18, 2020 (22/56/502 33/39/642 C8/30/3033



WATER CONTAINMENT PAD ST UNION DISTRICT E COUNTY, WEST VEIGHLA GASPAR WELL PAD



DATE: 12/16/2019 CALE AS SHOWN SHEET I OF 39

