

#### west virginia department of environmental protection

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

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

# Wednesday, May 29, 2024 PERMIT MODIFICATION APPROVAL Horizontal 6A / Plugging

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit Modification Approval for ROCK CAMP 1M

47-103-03158-00-00

Updated WR-35

## ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Chief

Operator's Well Number: ROCK CAMP 1M

Farm Name: MASON, KENNETH & JENNIFER

U.S. WELL NUMBER: 47-103-03158-00-00

Horizontal 6A Plugging

Date Modification Issued: 05/29/2024

Promoting a healthy environment.

Reviewed by:

# State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API 47 103 03158	District	Center						
Quad Littleton 7.5'								
Farm name Kenneth R. & Jennifer L	Well Nu	-						
Operator (as registered with the OOG)	Antero Resources Corp	oration	•					
Address 1615 Wynkoop Street		State	e CO	Zip 80202				
	orthing 4387378.70m		78.05m					
	orthing m							
Bottom Hole No	orthing m	Easting m						
Elevation (ft) 1396' GL	Type of Well Mew	□ Existing Typ	e of Report	□Interim #Final				
Permit Type   Deviated   Hori	izontal   Horizontal 6A	□ Vertical Dep	pth Type	□ Deep ■ Shallow				
Type of Operation □ Convert □ Dec	epen 🛮 Drill 🗆 Plug I	Back   Redrilling	□ Rework	■ Stimulate				
Well Type 🗆 Brine Disposal 🗆 CBM	■ Gas ■ Oil □ Secondary	Recovery D Solution M	lining 🗆 Sto	rage 🗆 Other				
Type of Completion ■ Single □ Multip	ple Fluids Produced D	Brine ■Gas □ NGI	_ ■ Oil	Other				
Drilled with □ Cable ■ Rotary								
Drilling Media Surface hole Air	□ Mud □Fresh Water	Intermediate hole	Air   Mud	□ Fresh Water □ Brine				
Production hole								
Mud Type(s) and Additive(s) Air - Foam & 4% KCL								
Mud - Polymer								
Date permit issued 9/9/2016	Data drilling command	7	-t- d-:11:					
Date permit issued 9/9/2016 Date drilling commenced Date drilling ceased Date completion activities began Date completion activities ceased								
Verbal plugging (Y/N) N/A Dat	te permission granted	Grant	ed by	IN/A				
Please note: Operator is required to subn	nit a plugging application w	ithin 5 days of verbal perr	nission to ph	ug				
Freshwater depth(s) ft120	, 630' Open	mine(s) (Y/N) depths		No				
Salt water depth(s) ft 205	71	s) encountered (Y/N) dep		No				
Coal depth(s) ft 680, 12	251	n(s) encountered (Y/N) de		No				
Is coal being mined in area (Y/N)	No							

WR-35 Rev. 8/23/13

API 47- 103	03158	Farm nan	Kenneth R.	& Jenni	fer L. M	ason_Well	number_Ro	ock Cam	p 1M
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		ent circulate (Y/N) e details below*
Conductor	26"	20"	40'	New	85#/J-55		1		ented to Surface
Surface	18 5/8"	17.75"	720'	New	48#	/H-40		Cem	ented to Surface
Coal									
Intermediate 1	13 3/8"	12 .715"	1697'	New	36#	#J-55		Cem	ented to Surface
Intermediate 2	9 5/8"	8.921"	2801'	New	36#	#J-55		Ceme	ented to Surface
Intermediate 3									
Production									
Tubing									
Packer type and d	epth set	•							
CEMENT	Class/Type	Number	Slurry		ield	Volume	Cem		woc
DATA Conductor	of Cement	of Sacks	wt (ppg)	(ft	³/sks)	(tf.2)	Top ()	MD)	(hrs)
Surface				+			-		
Coal				+			+		
Intermediate 1		-	-	-			-		
Intermediate 2			_	+			+	-	
Intermediate 3		_	-	+			-		
Production			_	+			+		
Tubing				+			+		
Plug back pro	tion penetrated _ cedure		P						
Check all wire	line logs run	□ caliper □ neutron	□ density □ resistivity	□ deviate □ gamma			duction mperature	□sonic	
Well cored	Yes No	Convention	al Sidewall	1	We	ere cuttings	collected c	Yes m	No
DESCRIBE TI	HE CENTRALIZ	ZER PLACEMEN	IT USED FOR E	EACH CA	SING ST	RING			
	de shoe, 1 above insert fic	pat, 1 every 4th Joint to surf	ace						
		collar, 1 every 4th joint to							
Production - 1 above f	noat joint, 1 below float co	llar, 1 every 3rd joint to top	or cement						
WAS WELL C	COMPLETED A	S SHOT HOLE	□ Yes ■ No	DE DE	TAILS				
WAS WELL C	COMPLETED OF	PEN HOLE?	Yes No	DETA	ILS				
WERE TRACE	ERS USED D	Yes No	TYPE OF TRAC	CER(S) U	SED NA				



API 47- 103 \_ 03158

Farm name\_Kenneth R. & Jennifer L. Mason\_Well number\_Rock Camp 1M

#### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
-					
-					
-					
$\vdash$					
-				-	

Please insert additional pages as applicable.

## STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
						-		
						<del> </del>		

Please insert additional pages as applicable.



API 47- 103	03158	Farm	name_Kennet	h R. & Jenn	ifer L. Maso	on_Well numbe	Rock Camp	1M
PRODUCING	FORMATION(	<u>S)</u>	DEPTHS					
			'(TOP)	TVD '	(TOP)	MD		
				_ 1 1 1	( /			
Please insert ad	dditional pages a	as applicable.						
GAS TEST	□ Build up □	Drawdown	■ Open Flow	0	IL TEST	Flow 🗆 Pum	р	
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	om Hole	psi	DURATION	OF TEST	hrs
OPEN FLOW		Oil pd				GAS MEAS	URED BY  Market Orifice	Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD			RECORD QUANT	
	0		0					
	-							
					-			
					1			
			-					
	-			-				
					+			
Please insert ad	ditional pages a	s applicable.						
Drilling Contrac	ctor H & P Drillin	10						
Address 912 N E		.0	City	Howard		State PA	Zip 16841	
				-			z.ip	
Logging Compa								
Address			City			State	Zip	
Cementing Con	npany Halliburto	n Energy Servi	ces					
Address 3000 W	. Sam Houston Pky	vy	City	Houston		_ State _TX	Zip 76114	
Stimulating Cor	maansi							
Address						State	Zip	
Please insert add	ditional pages as	applicable.					z.p	
						200 057 705		
Completed by Signature	Carry Warver	anual	Tial De	ermitting Agen	Telephone	303-357-7373		
orkname (	way 11h	ivec	I IIIe Pe	mining Agen		Date 3	/25/2024	
Submittal of Hy	draulic Fracturii	ng Chemical D	Disclosure Infor	mation A	ttach conv of	FRACEOCUS	Registry	



### Kennedy, James P < james.p.kennedy@wv.gov>

# **Plugging mods approved 4710303157 03158**

1 message

Kennedy, James P < james.p.kennedy@wv.gov>

Wed, May 29, 2024 at 9:58 AM

To: Stephen E McCoy <stephen.e.mccoy@wv.gov>, Mallory Turco <mturco@anteroresources.com>, Dani Devito <ddevito@shalepro.com>, slemley@wvassessor.com

To whom it may concern, Mods for plugging permits 4710303157 03158 have been issued.

James Kennedy

WVDEP OOG

#### 2 attachments



**MOD 4710302157.pdf** 892K



**MOD 4710303158.pdf** 893K