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

API <u>47</u> - 033 <u>05669</u> County Harrison	District Uni	on				
Ouad Big Isaac 7.5' Pad Name Quinn I		Field/Pool Name				
Farm name Antero Resources Appalachian Corporation	Well Numb					
Operator (as registered with the OOG) Antero Resources C	corporation					
Address 1615 Wynkoop Street City Denv		Zip 80202				
As Drilled location NAD 83/UTM Attach an as-drilled Top hole Northing 4338792.318m Landing Point of Curve Northing	plat, profile view, and deviation s  Easting 542608.0					
Bottom Hole Northing	Easting					
		f Report □Interim ■Final				
Permit Type   Deviated   Horizontal   Horizontal	l 6A □ Vertical Depth	Type □ Deep ■ Shallow				
Type of Operation □ Convert □ Deepen ■ Drill □ I	Plug Back	Lework   Stimulate				
Well Type □ Brine Disposal □ CBM ■ Gas ■ Oil □ Seco	ndary Recovery   Solution Mini	ng □ Storage □ Other				
Type of Completion ■ Single □ Multiple Fluids Produce	ed Brine Gas INGL	• OII — Other				
Drilled with □ Cable ■ Rotary						
Drilling Media Surface hole ■ Air □ Mud □ Fresh Water	r Intermediate hole Air	□ Mud □ Fresh Water □ Brine				
Production hole ☐ Air ■ Mud ☐ Fresh Water ☐ Brine		RECEIVED Office of Oil and Gas				
Mud Type(s) and Additive(s) Air - Foam & 4% KCL		JUN 0 8 2020				
Mud - Polymer		WV Department of				
Date permit issued10/17/2012 Date drilling comm	enced5/29/2013Date	Environmental Protection  drilling ceased N/A				
	Date completion activities cease					
Verbal plugging (Y/N)N/A Date permission granted	A I / A	by N/A				
Verous pragging (1711)		•				
Please note: Operator is required to submit a plugging applica	tion within 5 days of verbal permi	ssion to plug				
Freshwater depth(s) ft140'	Open mine(s) (Y/N) depths	No				
Salt water depth(s) ft 1936'	Void(s) encountered (Y/N) depth	ns No				
Coal depth(s) ft 178', 458'	Cavern(s) encountered (Y/N) dep	thsNo				
Is coal being mined in area (Y/N) No						
		Reviewed by:				

ASING TRINGS	Hole Casing Size Size		Donth	New or Used	Grade wt/ft		isket pth(s)		Did cement circulate (Y/N	
onductor	24"	20"	Depth 40'	New	1	H-40	N/A	* PIOVI	* Provide details below*	
ırface							N/A			
oal										
ermediate I					_					
ermediate 2		· · · · · · · · · · · · · · · · · · ·		<del> </del>					· ·	
ermediate 3					<del>                                     </del>		· · · · · · · · · · · · · · · · · · ·			
oduction					<u> </u>	<u> </u>				
bing						_		+		
cker type and d	epth set	N/A		1						
CEMENT	Class/Typ				Yield	Volume		nent	woc	
DATA onductor	of Cemen				t <sup>3</sup> /sks)	(ft <sup>3</sup> )		(MD)	(hrs)	
rface	Class A			<del></del>	1.18 120		<del> </del>	0'	8 Hrs.	
al				-			<del></del>			
ermediate 1										
ermediate 2				·				<del></del>		
termediate 3		<del>-</del>								
oduction										
bing				•						
•	tion penetrate ocedure N/A		-		TD (ft) N/A to (ft) N/A				CEIVED Oil and Gas	
ick off depth	r (ft) N/A	□ caliper	□ density	devia	ted/directio	onal □ inc	E	WV Der	partment of ontal Protection	
	⊐Yes ■ No	□ neutron	□ resistivit	y □ gamm ewall		tere cuttings of	nperature collected			
DESCRIBE T	HE CENTRA	LIZER PLACEM	IENT USED F	OR EACH C	ASING ST	TRING	, M& - W		···	
VAS WELL	СОМЫ ЕТЕГ	O AS SHOT HOL	F DVes	l No D	FTAII S					
AND WELL	COMITETEL	YOU TOTIC EDY	T 1 1 62 =	. 140 D	LIMILS		-			

WERE TRACERS USED □ Yes ■ No TYPE OF TRACER(S) USED N/A

API 4	.7- 033	05669		_ Farm	name_Ante	ero Resources	Appalac	hian Corporal	tionWel	l number	Calkins U	nit 1H
PERFORATION RECORD												
Stage No.	Perforation date			orated from MD ft.	Per	forated to MD ft.	Number of Perforations			Formation(s)		
	<u> </u>	*PL	EA.	SE	SEE	ATT	Ά	HE	) E	KHII	BIT 1	
					•							
									-			
	Please insert additional pages as applicable.  RECEIVED Office of Oil and Gas STIMULATION INFORMATION PER STAGE  RECEIVED Office of Oil and Gas STIMULATION INFORMATION PER STAGE  JUN 0 8 2020											
Stage No.	plete a separate record for the Stimulations Ave Purplete Bate (BI		Pump	Ave Tr	eatment re (PSI)	nent Max Break				ount of pant (lbs)	Environs Amount of Water (bbls)	Department of mental Protection  Amount of Nitrogen/other (units)
	<b> </b>	*P	LE	ASE	SEI	E AT	TA	CHE	DE	XH	BIT 2	2
									_			
							_					
<u> </u>						1					1	
Please	insert additi	onal pa	ges as a	pplicable.								

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry

WELL OPERATOR: Antero Resources Corporation

1615 Wynkoop Street

Denver, CO 80202

ADDRESS:

DESIGNATED AGENT: Dianna Stamper - CT Corporation System

ADDRESS:

5400 D Big Tyler Road

Charleston, WV 25313