

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

API 47 - 095 - 02714 County Tyler District Ellsworth
Quad Porter Falls 7.5' Pad Name Grand Field/Pool Name *****
Farm name Kenneth Tomblin Et Al Well Number Tapeats 2H
Operator (as registered with the OOG) Antero Resources Corporation
Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4373073m Easting 516296m
Landing Point of Curve Northing 4373410.03m Easting 517015.27m
Bottom Hole Northing 4378004m Easting 515459m

Elevation (ft) 1243.5' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
Air - Foam & 4% KCL
Mud - Polymer

Date permit issued 11/5/2020 Date drilling commenced 3/14/2021 Date drilling ceased 4/5/2021
Date completion activities began 5/31/2021 Date completion activities ceased 7/5/2021
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A RECEIVED
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FEB 10 2022

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 25' Open mine(s) (Y/N) depths No WV Department of
Salt water depth(s) ft 2305' Void(s) encountered (Y/N) depths No Environmental Protection
Coal depth(s) ft 431' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:
Stephen M. King 6-14-22

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CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	24"	20"	80'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	359'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2700'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	23783'	New	23#, P-110	N/A	Y
Tubing		2-3/8"			4.7#, P-110		
Packer type and depth set		N/A					

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	266 sx	15.6	1.18	56	0'	8 Hrs.
Surface	Class A	431 sx	15.6	1.20	92	0'	8 Hrs.
Coal							
Intermediate 1	Class A	882 sx	15.6	1.19	187	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	792 sx (Lead) 3711 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.4 (Lead), 1.26 (Tail)	832	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 23828' MD, 6840' TVD (BHL), 6907' (Deepest Point Drilled) Loggers TD (ft) 23828' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6690'

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____ **RECEIVED**
Conductor - 0 _____ Office of Oil and Gas
Surface - 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface
Intermediate - 1 above float joint, 1 above float collar, 1 every 4th joint to surface
Production - 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement **FEB 10 2022**

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____ **WV Department of Environmental Protection**

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

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PRODUCING FORMATION(S)	DEPTHS		
<u>Marcellus</u>	<u>6824' (TOP)</u>	<u>TVD</u>	<u>7667' (TOP)</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2800 psi Bottom Hole -- psi DURATION OF TEST -- hrs

OPEN FLOW Gas 8477 mcfpd Oil 339 bpd NGL -- bpd Water 655 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP		BOTTOM		DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	

***PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.

Drilling Contractor H & P Drilling
Address 912 N Eagle Valley Rd City Howard State PA Zip 16841 RECEIVED
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Logging Company Nine Energy Services
Address 6500 West Fwy City Fort Worth State TX Zip 76116 FEB 10 2022

Cementing Company Schlumberger
Address 3600 Briarpark Drive City Houston State TX Zip 77042 WV Department of
Environmental Protection

Stimulating Company Halliburton
Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

Please insert additional pages as applicable.

Completed by Brandi Hankins Telephone 303-357-7223
Signature [Signature] Title Completions Technician Date 2/10/22

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/30/2021
Job End Date:	6/21/2021
State:	West Virginia
County:	Tyler
API Number:	47-095-02714-00-00
Operator Name:	Anitero Resources Corporation
Well Name and Number:	TAPEATS UNIT 2H
Latitude:	39.50705000
Longitude:	-80.81062000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,906
Total Base Water Volume (gal):	24,375,169
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Produced Water	Halliburton	Base Fluid	Water	7732-18-5	100.00000	86.43516	Density = 8.50
Ingredients	Office of Oil and Gas West Virginia Department of Environmental Protection Listed Above 10/2022	Listed Above	Water	7732-18-5	100.00000	0.05479	

JPM

Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant							
					Listed Below				
HYDROCHLORI C ACID, 22 BAUME	Halliburton	Solvent							
					Listed Below				
WG-36 GELLING AGENT	Halliburton	Gelling Agent							
					Listed Below				
FLUID Enviro- Syn HCR-7000- WL	Fluid Energy Group	Acid Replacement							
					Listed Below				
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker							
					Listed Below				
MC B-8614A	MultiChem	Biocide							
					Listed Below				
HAI-501	Halliburton	Acid Corrosion Inhibitor							
					Listed Below				
Excelerate LX-15	Halliburton	Friction Reducer							
					Listed Below				

Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.

Crystalline silica, quartz	14808-60-7	100.00000	13.42721
Complex Amine Compound	Proprietary	60.00000	0.03369
Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01684
Proprietary	Proprietary	20.00000	0.01129
Proprietary	Proprietary	10.00000	0.00564
Guar gum	9000-30-0	100.00000	0.00386
Hydrochloric acid	7647-01-0	30.00000	0.00383
Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00281
Surfactant	Proprietary	5.00000	0.00281
Glutaraldehyde	111-30-8	30.00000	0.00250
Ethoxylated alcohols	Proprietary	5.00000	0.00056
Alkoxylated polyhydric alcohol	Proprietary	1.00000	0.00056
Organic chloride compound	Proprietary	1.00000	0.00056
Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00042
Ammonium persulfate	7727-54-0	100.00000	0.00009
Ethanol	64-17-5	1.00000	0.00008
Oxylated phenolic resin	Proprietary	30.00000	0.00003
Methanol	67-56-1	100.00000	0.00002
Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00001
Modified thiourea polymer	Proprietary	30.00000	0.00001
Organic salt #1	Proprietary	0.01000	0.00001
Acrylamide	79-06-1	0.01000	0.00001
Organic salt #2	Proprietary	0.01000	0.00001
Nitrated acetate salt	Proprietary	0.01000	0.00001

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			Formaldehyde	50-00-0	0.01000	0.00001
			Sodium glycolate	2836-32-0	0.01000	0.00001
			Sodium hydroxide	1310-73-2	0.01000	0.00001
			Propargyl alcohol	107-19-7	5.00000	0.00000
			Hexadecene	629-73-2	5.00000	0.00000
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
 Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)