

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

API 47 - 095 - 02945 County Tyler District Ellsworth
Quad Porter Falls 7.5' Pad Name Delta Field/Pool Name -----
Farm name EQT Production Co. Well Number Sapinero Unit 4H
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 4372631m Easting 521165m
Landing Point of Curve Northing 4372591m Easting 521494m
Bottom Hole Northing 4370801m Easting 522106m

Elevation (ft) 1078' 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 7/28/2025 Date drilling commenced 8/30/2025 Date drilling ceased 11/2/2025
Date completion activities began 12/16/2025 Date completion activities ceased 1/20/2026
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 672' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1463' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 787' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:

05/22/2026

API 47-095 - 02945 Farm name EQT Production Co. Well number Sapinero Unit 4H

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	28"	20"	125.5'	New	94#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	803'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3436'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	14181'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6979'		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	sx				0'	8 Hrs.
Surface	Class A	633 sx	15.6	1.19	753	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1158 sx	15.6	1.18	1366	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class G	2138 sx (Tail)	13.5 (Spacer), 15.2 (Tail)	1.26 (Tail)	2694	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 14,181' MD, 6,885' TVD (BHL), 6,899' TVD (Deepest Point Drilled) Loggers TD (ft) 14,161' MD
Deepest formation penetrated Marcellus Plug back to (ft) N/A
Plug back procedure N/A

Kick off depth (ft) 6,129'

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
Conductor - 0
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

WAS WELL COMPLETED AS SHOT HOLE ☐ Yes ☒ No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? ☐ Yes ☒ No DETAILS _____

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

05/22/2026

API 47- 095 - 02945 Farm name EQT Production Co. Well number Sapinero Unit 4H

PERFORATION RECORD

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

***PLEASE SEE ATTACHED EXHIBIT 1**

[illegible]

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

[illegible]

***PLEASE SEE ATTACHED EXHIBIT 2**

[illegible]

Please insert additional pages as applicable.

05/22/2026

API 47- 095 - 02945 Farm name EQT Production Co. Well number Sapinero Unit 4H

PRODUCING FORMATION(S)	DEPTHS
Marcellus	6,841' (TOP) TVD 7,252' (TOP) MD

Please insert additional pages as applicable.

GAS TEST ☐ Build up ☐ Drawdown ☒ Open Flow OIL TEST ☒ Flow ☐ Pump

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

OPEN FLOW Gas 14,198.95 mcfpd Oil 291.4 bpd NGL --- bpd Water 799.29 bpd GAS MEASURED BY ☐ Estimated ☒ 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	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
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***PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.

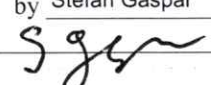
Drilling Contractor H & P Drilling
Address 222 N Detroit Ave. City Tulsa State OK Zip 74120

Logging Company Nine Energy Services
Address 6500 West Fwy City Fort Worth State TX Zip 76116

Cementing Company SLB
Address 5599 San Felipe St. City Houston State TX Zip 77056

Stimulating Company NexTier
Address 1650 Hackers Creek Rd City Jane Lew State WV Zip 26378

Please insert additional pages as applicable.

Completed by Stefan Gaspar Telephone 303-357-6959
Signature  Title Permitting Agent Date 5/18/26

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

05/22/2026



API 47-095-02945 Farm Name EQT Production Co. Well Number Sapinero Unit 4H

Exhibit 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	12/16/2025	14135	14120	36	Marcellus
2	12/17/2025	14081.45588	13915.7353	36	Marcellus
3	12/18/2025	13880.19118	13714.4706	36	Marcellus
4	12/18/2025	13678.92647	13513.2059	36	Marcellus
5	12/19/2025	13477.66176	13311.9412	36	Marcellus
6	12/19/2025	13276.39706	13110.6765	36	Marcellus
7	12/19/2025	13075.13235	12909.4118	36	Marcellus
8	12/20/2025	12873.86765	12708.1471	36	Marcellus
9	12/20/2025	12672.60294	12506.8824	36	Marcellus
10	12/21/2025	12471.33824	12305.6176	36	Marcellus
11	12/21/2025	12270.07353	12104.3529	36	Marcellus
12	12/22/2025	12068.80882	11903.0882	36	Marcellus
13	12/22/2025	11867.54412	11701.8235	36	Marcellus
14	12/23/2025	11666.27941	11500.5588	36	Marcellus
15	12/23/2025	11465.01471	11299.2941	36	Marcellus
16	12/23/2025	11263.75	11098.0294	36	Marcellus
17	12/24/2025	11062.48529	10896.7647	36	Marcellus
18	12/24/2025	10861.22059	10695.5	36	Marcellus
19	12/25/2025	10659.95588	10494.2353	36	Marcellus
20	12/25/2025	10458.69118	10292.9706	36	Marcellus
21	12/26/2025	10257.42647	10091.7059	36	Marcellus
22	12/26/2025	10056.16176	9890.44118	36	Marcellus
23	12/27/2025	9854.897059	9689.17647	36	Marcellus
24	12/27/2025	9653.632353	9487.91176	36	Marcellus
25	12/28/2025	9452.367647	9286.64706	36	Marcellus
26	12/29/2025	9251.102941	9085.38235	36	Marcellus
27	12/29/2025	9049.838235	8884.11765	36	Marcellus
28	12/30/2025	8848.573529	8682.85294	36	Marcellus
29	12/30/2025	8647.308824	8481.58824	36	Marcellus
30	12/31/2025	8446.044118	8280.32353	36	Marcellus
31	12/31/2025	8244.779412	8079.05882	36	Marcellus
32	1/1/2026	8043.514706	7877.79412	36	Marcellus
33	1/2/2026	7842.25	7676.52941	36	Marcellus
34	1/2/2026	7640.985294	7475.26471	36	Marcellus
35	1/2/2026	7439.720588	7274	36	Marcellus

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API 47-095-02945 Farm Name EQT Production Co. Well Number Sapinero Unit 4H

EXHIBIT 2

Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/ other (units)
1	12/16/2025	73.9	8342	6328	4106	122120	3453.33333	N/A
2	12/17/2025	96.6	9057	6895	4088	407660	6952.38095	N/A
3	12/18/2025	96.5	8926	6100	4946	400460	6942.85714	N/A
4	12/18/2025	97.8	8718	5608	4463	409340	6935.71429	N/A
5	12/19/2025	96.7	8874	5672	4907	405420	6926.19048	N/A
6	12/19/2025	96.9	9141	6142	4931	412480	6919.04762	N/A
7	12/19/2025	96.8	9058	5067	4751	409200	6909.52381	N/A
8	12/20/2025	97.3	9088	5417	3972	402900	6900	N/A
9	12/20/2025	96.5	9089	5393	4445	398740	6890.47619	N/A
10	12/21/2025	97.7	8891	4815	3598	402460	6880.95238	N/A
11	12/21/2025	97.7	8925	5909	4084	410040	6871.42857	N/A
12	12/22/2025	97.4	8629	5937	4090	406260	6864.28571	N/A
13	12/22/2025	96.5	8865	6584	4641	420460	6854.7619	N/A
14	12/23/2025	97.2	8642	4761	4244	412460	6852.38095	N/A
15	12/23/2025	98	8835	5918	3812	412620	6847.61905	N/A
16	12/23/2025	98.3	8703	4806	4307	410860	6842.85714	N/A
17	12/24/2025	98.5	8606	6729	3728	406220	6838.09524	N/A
18	12/24/2025	96.2	8542	6409	4691	414380	6833.33333	N/A
19	12/25/2025	94.4	8422	6221	4452	402680	6828.57143	N/A
20	12/25/2025	97.7	8408	6381	4734	405060	6823.80952	N/A
21	12/26/2025	97.8	8135	7043	4189	404040	6819.04762	N/A
22	12/26/2025	98.9	7582	6166	3679	408320	6816.66667	N/A
23	12/27/2025	98.7	7842	7032	4149	409700	6811.90476	N/A
24	12/27/2025	98.5	7931	6376	3440	416000	6807.14286	N/A
25	12/28/2025	98.7	8027	7519	4050	402260	6802.38095	N/A
26	12/29/2025	98.8	7958	5208	3918	402800	6797.61905	N/A
27	12/29/2025	98.6	8454	5557	4459	409400	6792.85714	N/A
28	12/30/2025	98	8397	4074	4550	413980	6788.09524	N/A
29	12/30/2025	98	8477	5517	4196	406240	6783.33333	N/A
30	12/31/2025	72.6	8112	4586	4887	411900	6780.95238	N/A
31	12/31/2025	98.2	7952	5290	4387	409100	6776.19048	N/A
32	1/1/2026	98.7	7657	4798	4189	407220	6771.42857	N/A
33	1/2/2026	96.9	8025	6420	4308	409620	6766.66667	N/A
34	1/2/2026	97.5	7791	6879	3574	408440	6761.90476	N/A
35	1/2/2026	99.2	7546	6164	4021	399080	6757.14286	N/A
	AVERAGE	96	8,447	5,878	4,257	13,989,920	236,001	TOTAL

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EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Sandstone, tr coal	824	924	824	924
Silty Sandstone	924	1,024	924	1,024
Sandstone, tr Slst	1,024	1,324	1,024	1,324
Silty Sandstone	1,174	1,474	1,174	1,474
Sandstone, tr Slst	1,324	1,474	1,324	1,474
Sandstone, occ Slst	1,474	1,674	1,474	1,674
Silty Sandstone	1,674	1,724	1,674	1,724
Sandstone, rr Slst	1,724	1,774	1,724	1,774
Silty Sandstone	1,774	1,824	1,774	1,824
Sandstone, rr Slst	1,824	1,874	1,824	1,874
Silty Sandstone	1,874	1,924	1,874	1,924
Limestone, Sandstone, tr Siltstone	1,924	1,952	1,924	1,970
Big Lime	1,978	2,735	1,970	2,778
Fifty Foot Sandstone	2,735	2,848	2,752	2,894
Gordon	2,848	3,080	2,868	3,133
Fifth Sandstone	3,080	3,548	3,107	3,613
Sa	3,548	3,837	3,587	3,911
Speechley	3,837	4,148	3,885	4,231
Balltown	4,148	4,751	4,205	4,851
Bradford	4,751	5,021	4,825	5,129
Benson	5,021	5,453	5,103	5,574
Alexander	5,453	6,632	5,548	6,824
Sycamore	6,482	6,606	6,642	6,798
Middlesex	6,606	6,711	6,798	6,964
Burkett	6,711	6,747	6,964	7,036
Tully	6,747	6,815	7,036	7,226
Marcellus	6,815	NA	7,226	NA

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LATITUDE 39°32'30"

1,128'

LATITUDE 39°30'00"

9,815' TO BOTTOM HOLE

Antero Resources Corporation
Well No. Sapinero #4H

Ellsworth District - Tyler County
17-40 Rodney & Cindy Adams
17-41 Robert & Sherry Ball
17-42 Robert & Sherry Ball
17-43 EQT Production Co.
17-44 EQT Production Co.
17-45 EQT Production Co.
17-47 John Bassett & Agnes Lewis
17-48 Jeremy Jury
18-4 Gary Fred Haught
18-8 Donald & Alice Haught
18-11 Robert Miller
23-14 Wanda Parr
23-18 Rick Staley Et Al
23-19 Larry & Linda Lemasters
23-20 Larry & Linda Lemasters
23-21 Larry & Linda Lemasters
23-22 Larry & Linda Lemasters
23-23 Harley Lemasters
23-24 Harley Lemasters
23-26 Ricky Eidle
24-1 Michael & Teresa Bassett
24-4 John Lemasters Et Al
24-4.1 Thomas Lemasters
24-4.2 Harvey Lemasters
24-4.3 Thomas Lemasters
24-5 John Lemasters Et Al
24-6 Haessly Land & Timber LLC
24-7 Ricky Eidle
24-8 John Lemasters Et Al
24-9 John Lemasters Et Al
24-10 Larry & Linda Lemasters
24-11 Haessly Land & Timber LLC
McElroy District - Tyler County
2-27 Myrtle Hanner
2-32 Michael Lemasters & Diane Weekley
3-1 Michael Lemasters & Diane Weekley
3-2 Alma Bees & Tree Farm
3-6 Ricky Eidle
3-26 Phillip & Melinda Anderson

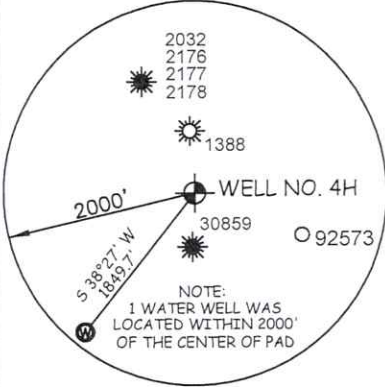
AS DRILLED DATA:
WELL 4H TOP HOLE INFORMATION:
N: 367,770ft E: 1,646,165ft
LAT: 39°30'10.67" LON: 80°45'14.38"
BOTTOM HOLE INFORMATION:
N: 361,714ft E: 1,649,154ft
LAT: 39°29'11.23" LON: 80°44'35.19"
WEST VIRGINIA COORDINATE
SYSTEM OF 1927 NORTH ZONE.
ZONE WAS DERIVED FROM
MEASUREMENTS TAKEN WITH
TRIMBLE GEOXT SUBMETER
MAPPING GRADE GPS UNIT.
PLAT ORIENTATION, CORNER,
AND WELL REFERENCE TIE LINES
ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 4H TOP HOLE INFORMATION:
N: 4,372,631m E: 521,165m
BOTTOM HOLE INFORMATION:
N: 4,370,801m E: 522,106m

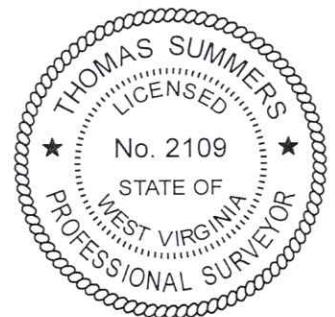
(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 4H TOP HOLE INFORMATION:
N: 14,345,159ft E: 1,709,809ft
POINT OF ENTRY INFORMATION:
N: 14,345,704ft E: 1,710,650ft
BOTTOM HOLE INFORMATION:
N: 14,339,156ft E: 1,712,897ft

LESSOR	
B	GARY F. HAUGHT AND SHARON HAUGHT
C	ANDREW HAUGHT AND PLEASY HAUGHT
D	CL. PARKS ET AL
E	PARKS GRAVEYARD TRUSTEES
F	CL. PARKS ET AL
H	RIDGETOP APPALACHIA
I	BRC APPALACHIAN MINERALS I, LLC.
J	HARVEY CLYDE LEMASTERS
K	THOMAS EUGENE LEMASTERS
M	JO ANNE HOSKINS
Y	DONETTE LOUISE RUSSELL
Z	SUSAN ELAINE NUTTER
AA	MICHAEL DUANE ELDER

- NOTE
1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
 2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
 3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
 4. WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES.
 5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.



PAD LAYOUT	NOT TO SCALE
○ SAPINERO UNIT 1H	15'
○ SAPINERO UNIT 2H	15'
○ SAPINERO UNIT 3H	15'
○ SAPINERO UNIT 4H	15'
○ PARKS UNIT 1H	15'
○ PARKS UNIT 2H	15'
○ PARKS UNIT 3H	15'



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION
OF ENVIRONMENTAL PROTECTION,
OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC
220 MASONIC AVE. PENNSBORO
WEST VIRGINIA 26415

JOB # 25-005VA
DRAWING # SAPINERO4HAD
SCALE 1" = 2000'
MINIMUM DEGREE OF
ACCURACY SUBMETER
PROVEN SOURCE OF ELEV.
SUBMETER MAPPING GRADE GPS

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

LEGEND

- Surface Owner Boundary Lines +/-
- - - Interior Surface Tracts +/-
- Proposed Well Path
- As Drilled Well Path

THOMAS SUMMERS P.S. 2109

DATE 04/13/26

OPERATOR'S WELL# SAPINERO UNIT #4H

WELL TYPE: OIL ☐ GAS ☒ LIQUID INJECTION ☐ WASTE DISPOSAL ☐
(IF "GAS") PRODUCTION ☒ STORAGE ☐ DEEP ☐ SHALLOW ☒

LOCATION: ELEVATION AS BUILT - 1,078.0' WATERSHED OUTLET MIDDLE ISLAND CREEK
QUADRANGLE PORTER FALLS 7.5' DISTRICT ELLSWORTH COUNTY TYLER

SURFACE OWNER EQT PRODUCTION CO. ACREAGE 103 ACRES +/-
OIL & GAS ROYALTY OWNER ANDREW & PLEASY HAUGHT LEASE ACREAGE 103 ACRES +/-

PROPOSED WORK: DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☐
PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL ☐
(SPECIFY) AS DRILLED PLUG & ABANDON ☐ CLEAN OUT & REPLUG ☐

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,885' TVD 14,181' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CONRAD BASTON

ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAK BLVD.
BRIDGEPORT, WV 26330

4,935' TO BOTTOM HOLE
LONGITUDE 80°42'30"
LONGITUDE 80°45'00"

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/16/2025
Job End Date:	01/02/2026
State:	West Virginia
County:	Tyler
API Number:	47-095-02945-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Sapinero Unit 4H
Latitude:	39.503042
Longitude:	-80.753825
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6886
Total Base Water Volume (gal)*:	10068030
Total Base Non Water Volume:	0



Water Source	Percent
Groundwater, < 1000TDS	100.00%

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
100 mesh sand	NexTier Completions Solutions	Propping Agent					
15% HCl	Tarquin	Acid					
BELE LT Breaker	Chemstream	Breaker					
CIA-12	NexTier Completions Solutions	Acid corrosion inhibitor					
Clearal 268A	Chemstream	Biocide					
CoilSTREAM VB 625	Chemstream	Visc. Builder					
Other Chemical(s)	Listed Above	See Trade Name(s)					
StimSTREAM FR 2800	Chemstream	Friction Reducer					
StimSTREAM FR 9800	Chemstream	Friction Reducer					

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Water	Operator	Carrier Fluid					
Items above are Trade Names. Items below are the individual ingredients.							
			Water	7732-18-5	100.00000	85.32900	
			Crystalline Silica	14808-60-7	99.90000	14.24600	
			Water	7732-18-5	85.00000	0.28667	
			Hydrochloric Acid	7647-01-0	15.00000	0.05059	
			Aluminum Oxide	1344-28-1	0.10000	0.01426	
			Hydrotreated light distillates	64742-47-8	25.00000	0.01097	
			Water	7732-18-5	90.00000	0.00759	
			Heavy Aliphatic Naphtha	64742-96-7	60.00000	0.00667	
			Guar gum	9000-30-0	50.00000	0.00556	
			Acrylamide-Chloride Salt of Trimethylammonio-Ethyl Acrylate copolymer	69418-26-4	40.00000	0.00295	
			Alkanes, C12-26-branched and linear	90622-53-0	40.00000	0.00295	
			Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	5.00000	0.00219	
			Ammonium Persulfate	7727-54-0	89.00000	0.00211	
			Glutaraldehyde	111-30-8	20.00000	0.00169	
			Water	7732-18-5	15.00000	0.00111	
			Trade Secret	Proprietary	5.00000	0.00056	
			Ethoxylated Alcohols (C12-16)	68551-12-2	5.00000	0.00037	
			Trade Secret	Proprietary	3.00000	0.00033	
			Trade Secret	Proprietary	3.00000	0.00033	
			Quaternary Ammonium Compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	68424-85-1	3.00000	0.00025	
			Didecyldimethylammonium Chloride	7173-51-5	3.00000	0.00025	
			Ethylene glycol	107-21-1	45.00000	0.00015	
			Glycol Ether EB	111-76-2	45.00000	0.00015	
			N,N-Dimethylformamide	68-12-2	20.00000	0.00007	
			Tar bases,quinoline derivs.,benzyl chloride-quaternized	72480-70-7	20.00000	0.00007	
			Water	7732-18-5	15.00000	0.00005	
			Cinnamaldehyde	104-55-2	10.00000	0.00003	
			Nonylphenol ethoxylated	127087-87-0	10.00000	0.00003	
			Alcohols, C6-12	68603-15-6	10.00000	0.00003	

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* 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%

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)

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