

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

API 47 - 095 - 02824 County Tyler District Ellsworth
Quad Porter Falls 7.5' Pad Name Thin Air Field/Pool Name ----
Farm name Clara Suzanne Wallace & Rickie Wallace Well Number Gothic Unit 1H
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 4375440m Easting 517823m
Landing Point of Curve Northing 4375090.51m Easting 517103.04m
Bottom Hole Northing 4372892m Easting 517850m

Elevation (ft) 1200' 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

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Date permit issued 11/3/2022 Date drilling commenced 12/16/2022 Date drilling ceased 4/16/2023
Date completion activities began 5/26/2023 Date completion activities ceased 6/19/2023
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 328' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1660' Void(s) encountered (Y/N) depths No
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

APPROVED

Reviewed by:

04/12/2024

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10/24/23

API 47-095 - 02824 Farm name Clara Suzanne Wallace & Rickie Wallace Well number Gothic Unit 1H

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	91.59#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	463'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3685'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-1/2"	5-1/2"	15516'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7407'		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	259 sx	15.6	1.18	306	0'	8 Hrs.
Surface	Class A	739 sx	15.6	1.20	887	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1263 sx	15.6	1.20	1516	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	4025 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.26 (Tail)	5072	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15516' MD, 6848' TVD (BHL), 6848' TVD (Deepest Point Drilled) Loggers TD (ft) 15516' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

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Kick off depth (ft) 6670'

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

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10/20/23

API 47-095 - 02824 Farm name Clara Suzanne Wallace & Rickie Wallace Well number Gothic Unit 1H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
*PLEASE SEE ATTACHED EXHIBIT 1					

Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

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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)
*PLEASE SEE ATTACHED EXHIBIT 2								

Please insert additional pages as applicable.

04/12/2024
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10/26/23

API 47-095-02824 Farm name Clara Suzanne Wallace & Rickie Wallace Well number Gothic Unit 1H

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6823' (TOP) TVD	7631' (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 9462.90 mcfpd Oil 337.83 bpd NGL --- bpd Water 611.01 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**

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Please insert additional pages as applicable.

Drilling Contractor H & P Drilling
Address 912 N Eagle Valley Rd City Howard State PA Zip 16841

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

Cementing Company Schlumberger US Land
Address 3600 Briarpark Drive City Houston State TX Zip 77042

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

Please insert additional pages as applicable.

Completed by Stefan Gaspar Telephone 303-357-6959
Signature *sgaspar* Title Permitting Agent Date 10/13/23

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

Handwritten signature and date
04/12/2024

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	5/26/2023	15390	15346	60	Marcellus
2	5/26/2023	15306.38596	15140.3158	60	Marcellus
3	5/26/2023	15104.70175	14938.6316	60	Marcellus
4	5/27/2023	14903.01754	14736.9474	60	Marcellus
5	5/27/2023	14701.33333	14535.2632	60	Marcellus
6	5/27/2023	14499.64912	14333.5789	60	Marcellus
7	5/27/2023	14297.96491	14131.8947	60	Marcellus
8	5/27/2023	14096.2807	13930.2105	60	Marcellus
9	5/27/2023	13894.59649	13728.5263	60	Marcellus
10	5/28/2023	13692.91228	13526.8421	60	Marcellus
11	5/28/2023	13491.22807	13325.1579	60	Marcellus
12	5/28/2023	13289.54386	13123.4737	60	Marcellus
13	5/28/2023	13087.85965	12921.7895	60	Marcellus
14	5/28/2023	12886.17544	12720.1053	60	Marcellus
15	5/28/2023	12684.49123	12518.4211	60	Marcellus
16	5/29/2023	12482.80702	12316.7368	60	Marcellus
17	5/29/2023	12281.12281	12115.0526	60	Marcellus
18	5/29/2023	12079.4386	11913.3684	60	Marcellus
19	5/29/2023	11877.75439	11711.6842	60	Marcellus
20	5/30/2023	11676.07018	11510	60	Marcellus
21	5/30/2023	11474.38596	11308.3158	60	Marcellus
22	5/30/2023	11272.70175	11106.6316	60	Marcellus
23	5/30/2023	11071.01754	10904.9474	60	Marcellus
24	5/30/2023	10869.33333	10703.2632	60	Marcellus
25	5/30/2023	10667.64912	10501.5789	60	Marcellus
26	5/31/2023	10465.96491	10299.8947	60	Marcellus
27	5/31/2023	10264.2807	10098.2105	60	Marcellus
28	5/31/2023	10062.59649	9896.52632	60	Marcellus
29	5/31/2023	9860.912281	9694.84211	60	Marcellus
30	5/31/2023	9659.22807	9493.15789	60	Marcellus
31	5/31/2023	9457.54386	9291.47368	60	Marcellus
32	6/1/2023	9255.859649	9089.78947	60	Marcellus
33	6/1/2023	9054.175439	8888.10526	60	Marcellus
34	6/1/2023	8852.491228	8686.42105	60	Marcellus
35	6/1/2023	8650.807018	8484.73684	60	Marcellus
36	6/1/2023	8449.122807	8283.05263	60	Marcellus
37	6/2/2023	8247.438596	8081.36842	60	Marcellus
38	6/2/2023	8045.754386	7879.68421	60	Marcellus
39	6/2/2023	7844.070175	7678	60	Marcellus

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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	5/26/2023	81.75906	8763.26	9385.73	3627.078	176580	4790.2921	N/A
2	5/26/2023	87.35	9047	6316	4135	395990	8350.6088	N/A
3	5/26/2023	95.97	9097	5127	3552	399450	7159.8917	N/A
4	5/27/2023	96.08	9434	5881	3815	413530	7086.236	N/A
5	5/27/2023	96.99069	9009.187	5827.04	3563.653	403460	6897.9205	N/A
6	5/27/2023	92.50265	8607.44	5798.87	3714.969	414640	7044.3819	N/A
7	5/27/2023	96.15788	8987.419	4614.25	3758.299	408240	7142.1033	N/A
8	5/27/2023	96.71048	9014.644	5260.29	3255.769	411190	7225.6133	N/A
9	5/27/2023	96.86	8937	3995	3516	413290	7092.4202	N/A
10	5/28/2023	96.35	9083	5948	3719	415220	6974.7148	N/A
11	5/28/2023	96.96	9045	5535	3362	394650	6906.7083	N/A
12	5/28/2023	96.05979	9079.159	6273.28	3683.439	397820	6933.1233	N/A
13	5/28/2023	95.86298	8982.616	6077.78	3966.838	398310	6929.9919	N/A
14	5/28/2023	94.34833	8746.74	5752.67	4282.414	411940	7088.6955	N/A
15	5/28/2023	97.19	8988	6023	3486	419620	7025.8783	N/A
16	5/29/2023	97.15	9048	5864	3505	414980	7028.8443	N/A
17	5/29/2023	97.05608	8925.184	5825.32	3856.433	416160	7303.7871	N/A
18	5/29/2023	94.50276	8448.158	5801.25	3640.147	413190	7167.3505	N/A
19	5/29/2023	97.46	8697	5977	3884	399010	6902.0364	N/A
20	5/30/2023	96.92	8756	5815	3870	407630	6972.5305	N/A
21	5/30/2023	95.78	8466	6173	3782	413640	6935.9395	N/A
22	5/30/2023	97.3172	8806.175	5336.52	3900.778	413780	6977.3902	N/A
23	5/30/2023	97.48	8149	5758	4273	414010	6969.2462	N/A
24	5/30/2023	78.03	7247	5637	4146	396890	7267.5181	N/A
25	5/30/2023	97.91	8119	5733	4109	397440	6734.0679	N/A
26	5/31/2023	97.62	8104	5596	3894	417040	6928.4302	N/A
27	5/31/2023	97.45	8412	6267	3572	409710	6892.9805	N/A
28	5/31/2023	97.88	7865	6066	4051	410310	6910.1862	N/A
29	5/31/2023	97.53	7922	6360	3806	398350	6784.1205	N/A
30	5/31/2023	97.75	7798	5524	3760	396130	6761.2505	N/A
31	5/31/2023	96.37	8025	5951	3734	397100	6749.2988	N/A
32	6/1/2023	96.55	7790	6004	3842	397690	6726.845	N/A
33	6/1/2023	97.33	7819	5835	3646	395910	6723.2793	N/A
34	6/1/2023	97.06905	7677.949	5462.53	3909.982	415210	6953.9798	N/A
35	6/1/2023	98.32759	7546.099	3907.31	4070.703	416540	6939.8	N/A
36	6/1/2023	97.29791	7353.548	3833.02	4141.49	377380	6555.7536	N/A
37	6/2/2023	98.98	7806	6052	4113	416340	6770.4112	N/A
38	6/2/2023	94.24	7467	5536	4041	399660	6718.7986	N/A
39	6/2/2023	97.72769	7280.086	5294.2	4148.447	412310	6764.526	N/A
AVERAGE		95.6	8,419	5,729	3,824	15,620,340	270,087	0

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LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Shaly Siltstone, tr LS	91	275	91	275
Sandy Siltstone, Coal	275	335	275	335
Silty Sandstone	335	425	335	425
Shaly Siltstone, occ LS	425	635	425	635
Sandy Siltstone, occ LS	635	965	635	965
Shaly Siltstone, occ SS	965	1,025	965	1,025
Shaly Siltstone	1,025	1,435	1,025	1,435
Sandy Siltstone, occ Shale	1,435	1,525	1,435	1,525
Silty Sandstone, tr coal	1,525	1,615	1,525	1,615
Silty Sandstone, coal, tr shale	1,615	1,735	1,615	1,735
Silty Sandstone, occ shale	1,735	1,885	1,735	1,885
Shaly Sandstone, coal, occ slst	1,885	2,125	1,885	2,125
Silty Sandstone, coal, occ Shale	2,125	2,097	2,125	2,183
Big Lime	2,122	2,897	2,183	3,070
Fifty Foot Sandstone	2,897	2,960	3,045	3,138
Gordon	2,960	3,209	3,113	3,409
Fifth Sandstone	3,209	3,462	3,384	3,686
Bayard	3,462	4,155	3,661	4,452
Speechley	4,155	4,464	4,427	4,796
Balltown	4,464	4,914	4,771	5,286
Bradford	4,914	5,170	5,261	5,567
Benson	5,170	5,388	5,542	5,814
Alexander	5,388	6,659	5,789	7,270
Sycamore	6,518	6,634	7,089	7,245
Middlesex	6,634	6,731	7,245	7,401
Burkett	6,731	6,760	7,401	7,459
Tully	6,760	6,823	7,459	7,631
Marcellus	6,823	NA	7,631	NA

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LATITUDE 39°32'30" 318'

LATITUDE 39°32'30" 250' TO BOTTOM HOLE

13,212' TO BOTTOM HOLE

4,852'

LONGITUDE 80°47'30"

WELL TOP

WELL BOTTOM

LONGITUDE 80°47'30"

Antero Resources Corporation Well No. Gothic Unit 1H

AS DRILLED DATA:

WELL 1H TOP HOLE INFORMATION:
 N: 377,169ft E: 1,635,352ft
 LAT: 39°31'42.04" LON: 80°47'34.05"
BOTTOM HOLE INFORMATION:
 N: 368,809ft E: 1,635,300ft
 LAT: 39°30'19.42" LON: 80°47'33.18"
 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.

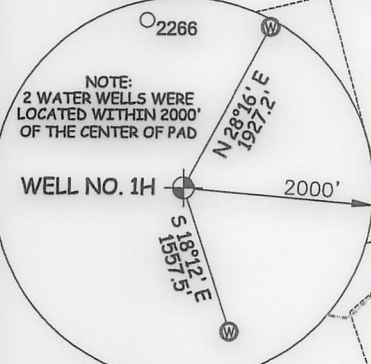
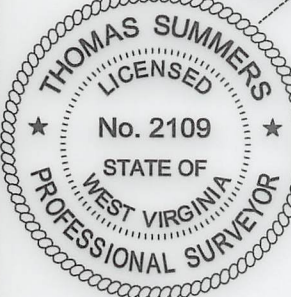
(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
 N: 4,375,440m E: 517,823m
BOTTOM HOLE INFORMATION:
 N: 4,372,892m E: 517,850m

(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
 N: 14,354,373ft E: 1,698,844ft
POINT OF ENTRY INFORMATION:
 N: 14,353,472ft E: 1,696,470ft
BOTTOM HOLE INFORMATION:
 N: 14,346,016ft E: 1,698,931ft

WV NORTH ZONE
GRID NORTH

11-20	EDWARD QUIRK
11-21	EDWARD QUIRK
11-22	NILE HARRIS
11-59	EDWARD QUIRK
11-60	MICHAEL MARTIN
12-5	ROSALIE HENRY
12-6	ANTERO MIDSTREAM LLC
12-7	COASTAL FOREST RESOURCES CO.
12-8	SHIRLEY CARROLL
12-9	COASTAL FOREST RESOURCES CO.
12-10	MICHAEL MARTIN
12-11	CLARA WALLACE
12-12	ROCKFORD ENERGY LLC
12-13	ERIC FISHER
12-14	ANTERO MIDSTREAM LLC
12-15	PATRICIA NYE
12-16	PATRICIA NYE
12-17	ANTERO MIDSTREAM LLC
12-18	ANTERO MIDSTREAM LLC
12-19	JON DUMARS
12-23	ROBERT BARD
12-32	CARL WILCOX

12-33	RICHARD NEFF
16-13	GAIL NEFF
16-31	CHRISTOPHER INVESTMENTS INC.
17-1	RICHARD NEFF
17-2	EDWARD WARF
17-3	FLOYD EDDY
17-3.1	FLORA ROBERTS
17-4	ERWAIN PECK
17-5	DOUG SMITH
17-6	ERWAIN PECK
17-7	GILBERT EDDY
17-8	RICHARD NAPIORKOWSKI
17-9	ERWAIN PECK
17-10	THOMAS JOBES
17-10.1	CHARLES EASTHAM
17-10.2	THOMAS JOBES
17-11	ELIZABETH RICHIE
17-23	MARJORIE STALEY
17-24.1	DAWN HADLEY
17-25	ELIZABETH MENGES
17-26	RICHARD NEFF
17-27	HAMMETT LAND & MINERALS LLC
17-28	ARTHUR PECK
17-29	HAMMETT LAND & MINERALS LLC
17-32	SHALYN MCGRAW
17-33	HAMMETT LAND & MINERALS LLC
17-34	SAMUEL HAMMETT
17-34.1	MANUFACTURERS LIGHT & HEAT CO.
17-34.2	HAMMETT LAND & MINERALS LLC
17-35	SAMUEL HAMMETT
17-36	SAMUEL HAMMETT
17-37	BONNIE HENTHORN
17-37.1	JOHN COOPER
17-49	MARTHA MENGES
17-50	MARTHA MENGES
17-51	JONATHAN COOPER
17-52	ANTERO RESOURCES CORP.
17-53	WILLIAM JAMES
17-54	WANDA PARR
17-57.1	RICHARD WILLIAMS
17-57.2	RICHARD WILLIAMS
17-58	CHRISTOPHER INVESTMENTS INC.
17-59	MICHAEL BEEGLE
17-60	JOHN REAL
17-61	T. E. CUNNINGHAM
17-62	EDNA EDDY
17-63	EDNA ROBERTS
17-64	ANGELA SAITH
17-65	GILBERT EDDY
17-65.1	CHRISTIAN CHURCH
17-66	FLOYD EDDY
17-67	JEREMY NEFF
17-67.1	CYNTHIA EDDY
17-68	JEREMY NEFF
17-69	LARRY HENTHORN
17-70	DALE RICHMOND
17-71	LARRY HENTHORN
17-72	LARRY HENTHORN
23-6	DALE PARR
23-7	DALE PARR
23-9	DALE PARR
23-10	DALE PARR
23-11	JENNIFER WILLIAMS
23-12	TERRY JOY
MCELROY DISTRICT - TYLER COUNTY	
2-3	LLOYD WEEKLEY
2-4	LLOYD WEEKLEY
2-5	RONALD WEEKLEY
2-9	ELDEN NICHOLS
2-9.1	RICHARD BLANKENSHIP
2-9.2	WILLIAM LACY
2-9.3	SANDRA JOCHUM
2-10	WANDA PARR
2-18	MICHAEL SHERWOOD
2-20	ELDEN NICHOLS
2-21	CHARLES HAGAN
2-22	RICHARD THOMASELLI



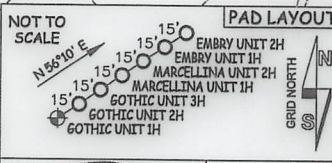
NOTE:
2 WATER WELLS WERE LOCATED WITHIN 2000' OF THE CENTER OF PAD

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.

JOB # **20-011WA**
 DRAWING # **GOthic1HAD**
 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 **10/02/23**
 OPERATOR'S WELL# **GOthic UNIT #1H**



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WILLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

WELL TYPE: OIL ___ GAS **X** LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 ___ 095 ___ 02824
 (IF "GAS") PRODUCTION **X** STORAGE ___ DEEP ___ SHALLOW **X** STATE COUNTY PERMIT
 LOCATION: ELEVATION **1,200' - AS BUILT** WATERSHED **OUTLET MIDDLE ISLAND CREEK**
 QUADRANGLE **PORTER FALLS 7.5'** DISTRICT **ELLSWORTH** COUNTY **TYLER**
 SURFACE OWNER **CLARA SUZANNE WALLACE & RICKIE WALLACE** ACREAGE **60 ACRES +/-**
 OIL & GAS ROYALTY OWNER **PHILLIP K. GEORGE** LEASE ACREAGE **60 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 **6,848' TVD 15,516' MD**
 WELL OPERATOR **ANTERO RESOURCES CORP.** DESIGNATED AGENT **KEVIN ELLIS**
 ADDRESS **1615 WYNKOOP ST. DENVER, CO 80202** ADDRESS **535 WHITE OAKS BLVD BRIDGEPORT, WV 26330**

04/12/2024

COUNTY NAME
PERMIT

LATITUDE 39°32'30" 318'

LATITUDE 39°32'30" 250' TO BOTTOM HOLE

Antero Resources Corporation Well No. Gothic Unit 1H

AS DRILLED DATA:

WELL 1H TOP HOLE INFORMATION: N: 377,169ft E: 1,635,352ft LAT: 39°31'42.04" LON: 80°47'34.05" BOTTOM HOLE INFORMATION: N: 368,809ft E: 1,635,300ft LAT: 39°30'19.42" LON: 80°47'33.18" 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.

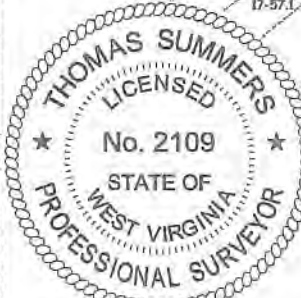
(NAD) 83 (UTM) ZONE 17 COORDS:

WELL 1H TOP HOLE INFORMATION: N: 4,375,440m E: 517,823m BOTTOM HOLE INFORMATION: N: 4,372,892m E: 517,850m

(NAD) 27 (UTM) ZONE 17 COORDS:

WELL 1H TOP HOLE INFORMATION: N: 14,354,373ft E: 1,698,844ft POINT OF ENTRY INFORMATION: N: 14,353,472ft E: 1,696,470ft BOTTOM HOLE INFORMATION: N: 14,346,016ft E: 1,698,931ft

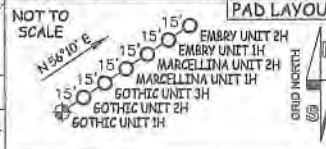
Table listing landowners and lease numbers for the Ellsworth District - Tyler County, including names like Edward Quirk, Nile Harris, and Antero Midstream LLC.



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.

JOB # 20-011WA DRAWING # GOTHIC1HAD 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 10/02/23 OPERATOR'S WELL# GOTHIC UNIT #1H



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WILLOW LAND SURVEYING PLLC 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL 47 095 02824 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X STATE COUNTY PERMIT LOCATION: ELEVATION 1,200' - AS BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK QUADRANGLE PORTER FALLS 7.5 DISTRICT ELLSWORTH COUNTY TYLER SURFACE OWNER CLARA SUZANNE WALLACE & RICKIE WALLACE ACREAGE 60 ACRES +/- LEASE ACREAGE 60 ACRES +/- OIL & GAS ROYALTY OWNER PHILLIP K. GEORGE

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE (SPECIFY) AS DRILLED PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL PLUG & ABANDON CLEAN OUT & REPLUG TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,848' TVD 15,516' MD WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT KEVIN ELLIS ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAKS BLVD BRIDGEPORT, WV 26330

COUNTY NAME PERMIT

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/26/2023
Job End Date:	6/2/2023
State:	West Virginia
County:	Tyler
API Number:	47-095-02824-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	GOTHIC UNIT 1H
Latitude:	39.52834400
Longitude:	-80.79279400
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,873
Total Base Water Volume (gal):	11,605,845
Total Base Non Water Volume:	0

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 WV Department of
 Environmental Protection



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	85.93283	Density = 8.34
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.17422	

Handwritten mark

MC B-8614A	MultiChem	Biocide					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
HYDROCHLORI C ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
FDP-S1464-22	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	13.86779	
			Hydrochloric acid	7647-01-0	30.00000	0.04073	
			Complex amine compound	Proprietary	60.00000	0.02992	

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			Hydrotreated distillate	Proprietary	30.00000	0.01496	
			Guar gum	9000-30-0	100.00000	0.00501	
			Glutaraldehyde	111-30-8	30.00000	0.00256	
			Ammonium chloride	12125-02-9	5.00000	0.00249	
			Ethoxylated alcohol	Proprietary	5.00000	0.00249	
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00249	
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00050	
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00050	
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00043	
			Methanol	67-56-1	100.00000	0.00011	
			Ammonium persulfate	7727-54-0	100.00000	0.00011	
			Ethanol	64-17-5	1.00000	0.00009	
			Modified thiourea polymer	Proprietary	30.00000	0.00003	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00003	
			Oxylated phenolic resin	Proprietary	30.00000	0.00003	
			Propargyl alcohol	107-19-7	5.00000	0.00001	
			Ethoxylated alcohols	Proprietary	5.00000	0.00001	
			Hexadecene	629-73-2	5.00000	0.00001	
			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)