

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

API 47 - 095 - 02784 County Tyler District Lincoln, Ellsworth
Quad TH: Middleboure -- BH: Paden City Pad Name Eldon Field/Pool Name -----
Farm name Eldon J. & Ruth A. Helman Well Number Folger Unit 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 4371559m Easting 503805m
Landing Point of Curve Northing 4372566.014m Easting 503958.542m
Bottom Hole Northing 4376784m Easting 502489m

Elevation (ft) 880' 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 3/21/2022 Date drilling commenced 6/1/2022 Date drilling ceased 7/18/2022
Date completion activities began 10/31/2022 Date completion activities ceased 12/8/2022
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 156' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1676' 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:

08/11/2023

SMW
5/30/23

API 47-095 - 02784 Farm name Eldon J. & Ruth A. Helman Well number Folger Unit 2H

| 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 | 26" | 20" | 130' | New | 78.67#, X-60 | N/A | Y |
| Surface | 17-1/2" | 13-3/8" | 360' | New | 54.5#, J-55 | N/A | Y |
| Coal | | | | | | | |
| Intermediate 1 | 12-1/4" | 9-5/8" | 3089' | New | 36#, J-55 | N/A | Y |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | 8-3/4"/8-1/2" | 5-1/2" | 21820' | New | 23#, P-110cy | N/A | Y |
| Tubing | | 2-3/8" | 6928' | | 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 | 141 sx | 15.6 | 1.18 | 166 | 0' | 8 Hrs. |
| Surface | Class A | 330 sx | 15.8 | 1.17 | 386 | 0' | 8 Hrs. |
| Coal | | | | | | | |
| Intermediate 1 | Class C | 1030 sx | 15.8 | 1.16 | 1195 | 0' | 8 Hrs. |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | Class H | 3695 sx (Tail) | 13.5 (Lead), 15.2(Tail) | 1.18 (Tail) | 4360 | -500' into Intermediate Casing | 8 Hrs. |
| Tubing | | | | | | | |

Drillers TD (ft) 21820' MD, 6019' TVD (BHL), 6136' (Deepest Point Drilled) Loggers TD (ft) 21820' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6519'

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

08/11/2023 *JM*

API 47- 095 - 02784 Farm name Eldon J. & Ruth A. Helman Well number Folger Unit 2H

| <u>PRODUCING FORMATION(S)</u> | <u>DEPTHS</u> | | |
|-------------------------------|--------------------|------------|------------------------------|
| <u>Marcellus</u> | <u>6064' (TOP)</u> | <u>TVD</u> | <u>7124' (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 1409 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 13541 mcfpd Oil 377 bpd NGL --- bpd Water 1687 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) |
|-------------------------|--------------------------------|------------------------------|--------------------------|-----------------------------|--|
|-------------------------|--------------------------------|------------------------------|--------------------------|-----------------------------|--|

***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 Halliburton Energy Services
 Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

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

Please insert additional pages as applicable.

Completed by Carly Marvel Telephone 303-357-7373
 Signature Carly Marvel Title Permitting Agent Date 2/27/2023

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

08/11/2023 JM

Antero Resources
Well No. Folger 2H
As-Drilled
 Antero Resources Corporation



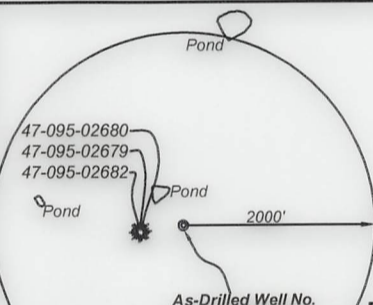
Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegany Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

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 prescribed by the Department of Environmental Protection.

Bradley D. Miller
 Bradley D. Miller, P.S. 2167



SEAL



As-Drilled Well No. Folger Unit 2H
 Note: 0 water well, 0 spring and 3 ponds were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

| | Bearing | Dist. |
|----|------------|----------|
| L1 | S 11°06' E | 897.5' |
| L2 | N 46°06' E | 1,121.5' |
| L3 | N 68°26' E | 1,185.1' |
| L4 | N 72°03' E | 1,877.6' |

11,078' to Top Hole

BTM Hole 7.5' Spot 3,630' to Bottom Hole

TOP HOLE LATITUDE 39 - 30 - 00
 BTM HOLE LATITUDE 39 - 32 - 30

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Folger Unit 2H Top Hole coordinates are
 N: 365,204.80' Latitude: 39°29'36.82"
 E: 1,589,138.09' Longitude: 80°57'21.31"
 Bottom Hole coordinates are
 N: 382,421.24' Latitude: 39°32'26.31"
 E: 1,585,106.24' Longitude: 80°58'16.34"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,371,559.356m N: 4,376,783.911m
 E: 503,804.805m E: 502,489.026m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

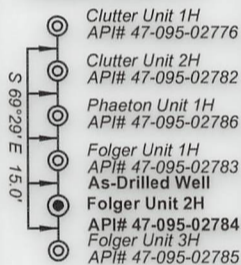
TOP HOLE LONGITUDE 80 - 55 - 00
 BTM HOLE LONGITUDE 80 - 57 - 30

374' to Bottom Hole
 2,345' to Top Hole

See Detail (Page 2)

Folger Unit 2H As-Drilled POE Coordinates
 West Virginia Coordinate System of 1927, North Zone
 N: 368,499.70'
 E: 1,589,697.71'
 Latitude: 39°30'09.47"
 Longitude: 80°57'14.86"
 UTM Zone 17, NAD 1983
 N: 4,372,566.014m
 E: 503,958.542m

Wellhead Layout (NTS)



Legend

- Proposed gas well
- Monument, as noted
- Existing Well, as noted
- Digitized Well, as noted
- Creek or Drain
- Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)
- District Line

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

FILE NO: 02-54-U-20
 DRAWING NO: Folger Unit 2H As-Drilled
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

DATE: February 22 2023
 OPERATOR'S WELL NO. Folger Unit 2H
 API WELL NO
 47 - 095 - 02784
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 880' WATERSHED: Middle Island Creek QUADRANGLE: BH: Paden City TH: Middlebourne

DISTRICT: Ellsworth SURFACE OWNER: Eldon J. & Ruth A. Helman Harold L. Marshall, Jr, et ux; Beverly J. Lamp; Larry A. Wells, et ux; George C. Riddle, et ux
 COUNTY: Tyler

ROYALTY OWNER: Eldon J. & Ruth A. Helman; Ruth H. Wells; Debra Lynn Warner; Mary Ann Devine; WVDNR; William P. Ingram, et ux; Timothy B. Ingram; Myrtle Liva Tucker; LEASE NO: ACREAGE: 61.83

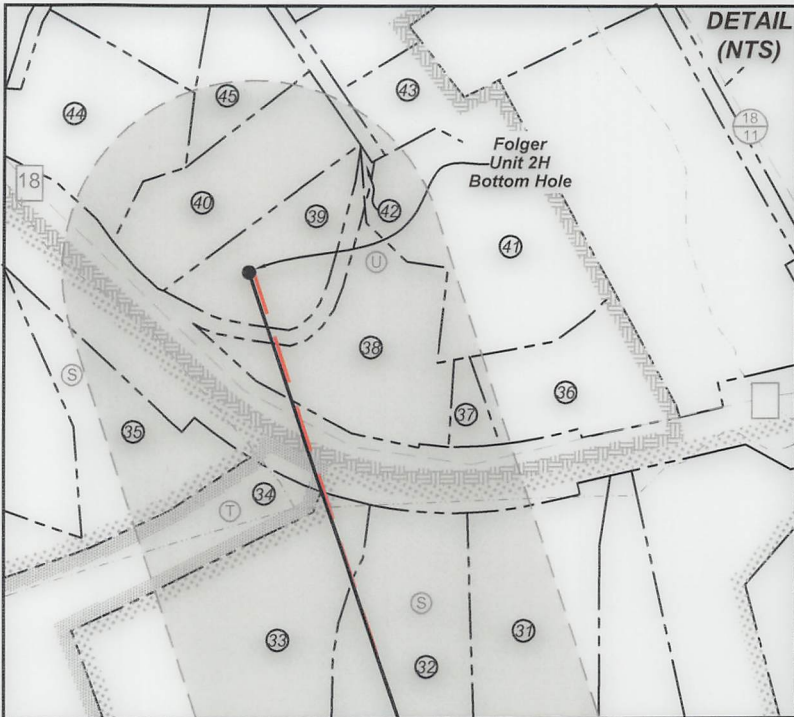
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 21,820' MD 6,019' TVD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis
 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
 Denver, CO 80202 Bridgeport, WV 26330

08/11/2023

Antero Resources
Well No. Folger 2H
As-Drilled
 Antero Resources Corporation



| ID | TM/Par | Owner | Bk/Pg | Acres |
|----|---------|-----------------------------------|---------|--------|
| 1 | 19-1 | Eldon J. & Ruth A. Helman | 383/761 | 61.83 |
| 2 | 19-42 | Carol J. Cox | 334/298 | 142.00 |
| 3 | 13-10 | Eldon J. & Ruth A. Helman | 383/761 | 96.82 |
| 4 | 6-1.1 | Eldon J. & Ruth A. Helman | 383/761 | 21.00 |
| 5 | 15-18 | B.F. Kile | 174/412 | 70.00 |
| 6 | 15-16 | Mary Ann Devine, et al | W36/282 | 81.67 |
| 7 | 15-15.1 | Bruce B. Seckman | 348/100 | 0.99 |
| 8 | 15-15 | Jack B. & Bennie H. Kile, Jr. | 155/195 | 39.64 |
| 9 | 15-15.2 | Ridgetop Capital, LP | 375/206 | 17.54 |
| 10 | 15-8 | Ridgetop Capital, LP | 375/206 | 68.20 |
| 11 | 15-10 | Doris E. Haught | 364/544 | 55.71 |
| 12 | 15-7.1 | John Preston Litten | 391/769 | 56.00 |
| 13 | 15-7.2 | John P. Litten | 500/466 | 8.90 |
| 14 | 15-7 | Ivan W. & Karen L. Makely | 281/498 | 35.10 |
| 15 | 15-4 | Ivan W. & Karen L. Makely | 337/639 | 41.29 |
| 16 | 15-4.1 | Ivan W. & Karen L. Makely | 404/130 | 12.00 |
| 17 | 15-2 | Stephen E. Surface, et al | 365/302 | 54.00 |
| 18 | 12-55.1 | Nathaniel V. & Tamela Frum | 428/604 | 75.00 |
| 19 | 12-56 | Gerald C. & Mary Lou Clutter | 247/307 | 17.87 |
| 20 | 12-50 | William P. Ingram | 605/159 | 88.00 |
| 21 | 12-48 | William Michael & Mary Ann Wells | 314/416 | 34.62 |
| 22 | 12-45 | Timothy B. Ingram | 326/353 | 56.35 |
| 23 | 12-44 | William P. Ingram | 455/477 | 62.50 |
| 24 | 12-45.1 | Timothy B. Ingram | 326/353 | 1.98 |
| 25 | 12-25 | Kenneth W. Hammond | 363/204 | 0.75 |
| 26 | 12-24 | Timothy Ingram | 335/837 | 4.90 |
| 27 | 12-23 | Timothy Ingram | 335/837 | 6.00 |
| 28 | 12-26 | Kenneth W. Hammond | 393/592 | 41.25 |
| 29 | 12-22 | William & Joanne Ingram | 140/502 | 84.30 |
| 30 | 12-4.3 | Judith L. Ashcraft | 344/396 | 5.70 |
| 31 | 12-4.2 | Kelley R. Stewart | 325/921 | 8.30 |
| 32 | 12-4 | Jean Ashcraft | 294/666 | 7.10 |
| 33 | 12-3 | Carl W. & Wanda L. Lemley | 175/179 | 13.50 |
| 34 | 12-2 | George C. & Stephanie D. Riddle | 334/543 | 8.80 |
| 35 | 12-1 | Ralph E. & Constance L. Heintzman | 167/419 | 20.60 |
| 36 | 12-73 | Larry H. & Elizabeth A. Helmick | 351/153 | 2.80 |
| 37 | 12-73.1 | Larry H. & Elizabeth A. Helmick | 351/153 | 0.45 |
| 38 | 12-76 | Timothy & Sandra Miller | 352/12 | 4.17 |
| 39 | 8-46.18 | William R. Romine | 374/7 | 2.53 |
| 40 | 8-46.14 | William R. Romine | W35/444 | 3.50 |
| 41 | 12-75 | Frank L. & Connie S. Fluharty | 392/547 | 5.34 |
| 42 | 12-74 | Harold L. Jr. & Linda K. Marshall | 337/658 | 0.06 |
| 43 | 8-46.8 | Brian J. & Christine L. Pfohl | 323/798 | 2.01 |
| 44 | 8-46.16 | David A. & Diana S. Palmer | 349/744 | 4.12 |
| 45 | 8-46.15 | William R. Romine | W35/444 | 2.01 |

| Leases | |
|--------|--------------------------------|
| A | Eldon J. & Ruth A. Helman |
| B | Carol J. Cox |
| C | Ruth H. Wells |
| D | Norma R. Spencer |
| E | WVDNR |
| F | Debra Lynn Warner |
| G | Mary Ann Devine |
| H | Ridgetop Capital, LP |
| I | Karen Moore Hwilka |
| J | Gerald C. Clutter, et ux |
| K | William P. Ingram, et ux |
| L | William Michael Wells, et ux |
| M | Timothy B. Ingram |
| N | Myrtle Liva Tucker |
| O | Timothy B. Ingram |
| P | William P. Ingram |
| Q | Timothy B. Ingram |
| R | Beverly J. Lamp |
| S | Larry A. Wells, et ux |
| T | George C. Riddle, et ux |
| U | Harold L. Marshall, Jr., et ux |

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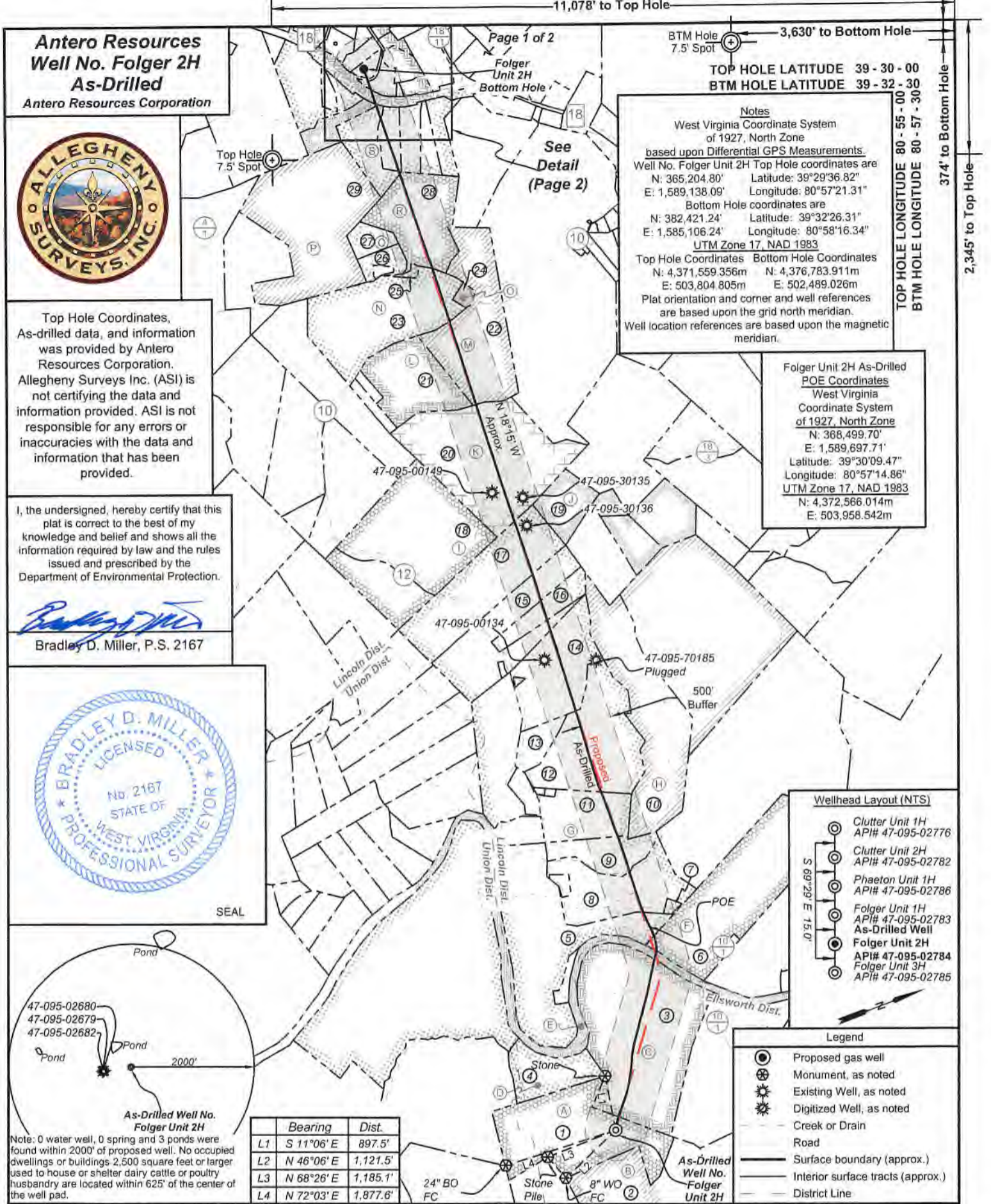
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 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: February 22 2023
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API WELL NO
 47 -- 095 -- 02784
 STATE COUNTY PERMIT

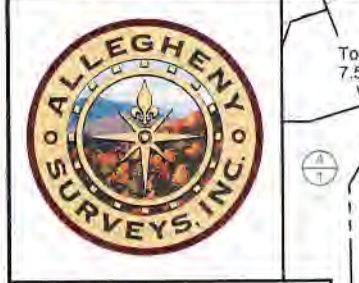
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 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Built 880' WATERSHED: Middle Island Creek QUADRANGLE: BH: Paden City
 DISTRICT: Lincoln Ellsworth COUNTY: Taylor
 SURFACE OWNER: Eldon J. & Ruth A. Helman; Harold L. Marshall, Jr, et ux; Beverly J. Lamp; Larry A. Wells, et ux; George C. Riddle, et ux
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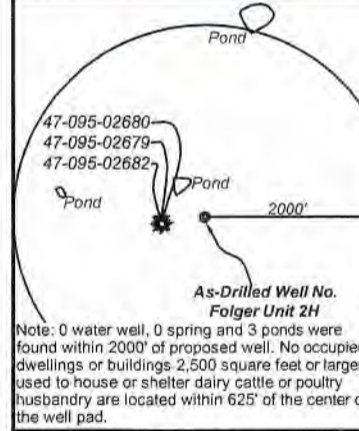
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Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

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Bradley D. Miller
 Bradley D. Miller, P.S. 2167



Note: 0 water well, 0 spring and 3 ponds were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

| Bearing | Dist. |
|---------------|----------|
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11,078' to Top Hole
 3,630' to Bottom Hole
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Page 1 of 2
 Folger Unit 2H Bottom Hole
 See Detail (Page 2)

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Wellhead Layout (NTS)
 Clutter Unit 1H API# 47-095-02776
 Clutter Unit 2H API# 47-095-02782
 Phaeton Unit 1H API# 47-095-02786
 Folger Unit 1H API# 47-095-02783
 As-Drilled Well
 Folger Unit 2H API# 47-095-02784
 Folger Unit 3H API# 47-095-02785

Legend
 Proposed gas well
 Monument, as noted
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 Surface boundary (approx.)
 Interior surface tracts (approx.)
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STATE OF WEST VIRGINIA
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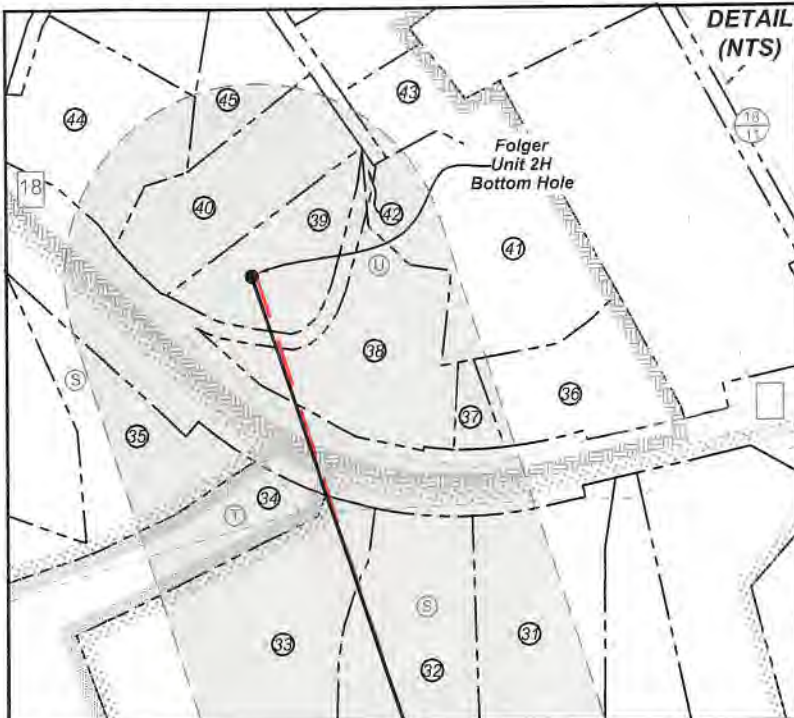
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 ACREAGE: 61.83
 ROYALTY OWNER: Eldon J. & Ruth A. Helman; Ruth H. Wells; Debra Lynn Warner; Mary Ann Davine; WVDNR; William P. Ingram, et ux; Timothy B. Ingram; Myrtle Liva Tucker; LEASE NO: ACREAGE: 177.67900; 6.80;
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 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
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 Denver, CO 80202 Bridgeport, WV 26330

08/11/2023

AM

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 Antero Resources Corporation



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| 15 | 15-4 | Ivan W. & Karen L. Makely | 337/639 | 41.29 |
| 16 | 15-4.1 | Ivan W. & Karen L. Makely | 404/130 | 12.00 |
| 17 | 15-2 | Stephen E. Surface, et al | 365/302 | 54.00 |
| 18 | 12-55.1 | Nathaniel V. & Tamela Frum | 428/604 | 75.00 |
| 19 | 12-56 | Gerald C. & Mary Lou Clutter | 247/307 | 17.87 |
| 20 | 12-50 | William P. Ingram | 605/159 | 88.00 |
| 21 | 12-48 | William Michael & Mary Ann Wells | 314/416 | 34.62 |
| 22 | 12-45 | Timothy B. Ingram | 326/353 | 56.35 |
| 23 | 12-44 | William P. Ingram | 455/477 | 62.50 |
| 24 | 12-45.1 | Timothy B. Ingram | 326/353 | 1.98 |
| 25 | 12-25 | Kenneth W. Hammond | 363/204 | 0.75 |
| 26 | 12-24 | Timothy Ingram | 335/837 | 4.90 |
| 27 | 12-23 | Timothy Ingram | 335/837 | 6.00 |
| 28 | 12-26 | Kenneth W. Hammond | 393/592 | 41.25 |
| 29 | 12-22 | William & Joanne Ingram | 140/502 | 84.30 |
| 30 | 12-4.3 | Judith L. Ashcraft | 344/396 | 5.70 |
| 31 | 12-4.2 | Kelley R. Stewart | 325/921 | 8.30 |
| 32 | 12-4 | Jean Ashcraft | 294/666 | 7.10 |
| 33 | 12-3 | Carl W. & Wanda L. Lemley | 175/179 | 13.50 |
| 34 | 12-2 | George C. & Stephanie D. Riddle | 334/543 | 8.80 |
| 35 | 12-1 | Ralph E. & Constance L. Heintzman | 167/419 | 20.60 |
| 36 | 12-73 | Larry H. & Elizabeth A. Helmick | 351/153 | 2.80 |
| 37 | 12-73.1 | Larry H. & Elizabeth A. Helmick | 351/153 | 0.45 |
| 38 | 12-76 | Timothy & Sandra Miller | 352/12 | 4.17 |
| 39 | 8-46.18 | William R. Romine | 374/7 | 2.53 |
| 40 | 8-46.14 | William R. Romine | W35/444 | 3.50 |
| 41 | 12-75 | Frank L. & Connie S. Fluharty | 392/547 | 5.34 |
| 42 | 12-74 | Harold L. Jr. & Linda K. Marshall | 337/658 | 0.06 |
| 43 | 8-46.8 | Brian J. & Christine L. Pfohl | 323/798 | 2.01 |
| 44 | 8-46.16 | David A. & Diana S. Palmer | 349/746 | 4.12 |
| 45 | 8-46.15 | William R. Romine | W35/444 | 2.01 |

| Leases | |
|--------|--------------------------------|
| A | Eldon J. & Ruth A. Helman |
| B | Carol J. Cox |
| C | Ruth H. Wells |
| D | Norma R. Spencer |
| E | WVDNR |
| F | Debra Lynn Warner |
| G | Mary Ann Devine |
| H | Ridgetop Capital, LP |
| I | Karen Moore Hwilka |
| J | Gerald C. Clutter, et ux |
| K | William P. Ingram, et ux |
| L | William Michael Wells, et ux |
| M | Timothy B. Ingram |
| N | Myrtle Liva Tucker |
| O | Timothy B. Ingram |
| P | William P. Ingram |
| Q | Timothy B. Ingram |
| R | Beverly J. Lamp |
| S | Larry A. Wells, et ux |
| T | George C. Riddle, et ux |
| U | Harold L. Marshall, Jr., et ux |

FILE NO: 02-54-U-20
 DRAWING NO: Folger Unit 2H As-Drilled
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: February 22 2023
 OPERATOR'S WELL NO. Folger Unit 2H
 API WELL NO
 47 - 095 - 02784
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 880' WATERSHED: Middle Island Creek QUADRANGLE: BH: Paden City
 DISTRICT: Ellsworth TH: Middleboure
 COUNTY: Tyler
 SURFACE OWNER: Eldon J. & Ruth A. Helman; Harold L. Marshall, Jr, et ux; Beverly J. Lamp; Larry A. Wells, et ux; George C. Riddle, et ux
 ACREAGE: 61.83
 ROYALTY OWNER: Eldon J. & Ruth A. Helman; Ruth H. Wells; Debra Lynn Warner; Mary Ann Devine; WVDNR; William P. Ingram, et ux; Timothy B. Ingram; Myrtle Liva Tucker; LEASE NO: ACREAGE: 177.67900; 6.80;
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 21,820' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis
 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
 Denver, CO 80202 Bridgeport, WV 26330

08/11/2023

Handwritten initials

Exhibit 1

| Stage No. | Perforation Date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formations |
|-----------|------------------|------------------------|----------------------|------------------------|------------|
| 1 | 10/31/2022 | 21692 | 21648 | 60 | Marcellus |
| 2 | 11/01/2022 | 21609.5 | 21444 | 60 | Marcellus |
| 3 | 11/01/2022 | 21408.5 | 21243 | 60 | Marcellus |
| 4 | 11/01/2022 | 21207.5 | 21042 | 60 | Marcellus |
| 5 | 11/01/2022 | 21006.5 | 20841 | 60 | Marcellus |
| 6 | 11/02/2022 | 20805.5 | 20640 | 60 | Marcellus |
| 7 | 11/02/2022 | 20604.5 | 20439 | 60 | Marcellus |
| 8 | 11/03/2022 | 20403.5 | 20238 | 60 | Marcellus |
| 9 | 11/03/2022 | 20202.5 | 20037 | 60 | Marcellus |
| 10 | 11/03/2022 | 20001.5 | 19836 | 60 | Marcellus |
| 11 | 11/04/2022 | 19800.5 | 19635 | 60 | Marcellus |
| 12 | 11/04/2022 | 19599.5 | 19434 | 60 | Marcellus |
| 13 | 11/04/2022 | 19398.5 | 19233 | 60 | Marcellus |
| 14 | 11/05/2022 | 19197.5 | 19032 | 60 | Marcellus |
| 15 | 11/05/2022 | 18996.5 | 18831 | 60 | Marcellus |
| 16 | 11/05/2022 | 18795.5 | 18630 | 60 | Marcellus |
| 17 | 11/06/2022 | 18594.5 | 18429 | 60 | Marcellus |
| 18 | 11/06/2022 | 18393.5 | 18228 | 60 | Marcellus |
| 19 | 11/07/2022 | 18192.5 | 18027 | 60 | Marcellus |
| 20 | 11/07/2022 | 17991.5 | 17826 | 60 | Marcellus |
| 21 | 11/07/2022 | 17790.5 | 17625 | 60 | Marcellus |
| 22 | 11/07/2022 | 17589.5 | 17424 | 60 | Marcellus |
| 23 | 11/08/2022 | 17388.5 | 17223 | 60 | Marcellus |
| 24 | 11/08/2022 | 17187.5 | 17022 | 60 | Marcellus |
| 25 | 11/08/2022 | 16986.5 | 16821 | 60 | Marcellus |
| 26 | 11/09/2022 | 16785.5 | 16620 | 60 | Marcellus |
| 27 | 11/09/2022 | 16584.5 | 16419 | 60 | Marcellus |
| 28 | 11/09/2022 | 16383.5 | 16218 | 60 | Marcellus |
| 29 | 11/09/2022 | 16182.5 | 16017 | 60 | Marcellus |
| 30 | 11/10/2022 | 15981.5 | 15816 | 60 | Marcellus |
| 31 | 11/10/2022 | 15780.5 | 15615 | 60 | Marcellus |
| 32 | 11/10/2022 | 15579.5 | 15414 | 60 | Marcellus |
| 33 | 11/10/2022 | 15378.5 | 15213 | 60 | Marcellus |
| 34 | 11/11/2022 | 15177.5 | 15012 | 60 | Marcellus |
| 35 | 11/11/2022 | 14976.5 | 14811 | 60 | Marcellus |
| 36 | 11/11/2022 | 14775.5 | 14610 | 60 | Marcellus |
| 37 | 11/12/2022 | 14574.5 | 14409 | 60 | Marcellus |
| 38 | 11/12/2022 | 14373.5 | 14208 | 60 | Marcellus |
| 39 | 11/12/2022 | 14172.5 | 14007 | 60 | Marcellus |
| 40 | 11/13/2022 | 13971.5 | 13806 | 60 | Marcellus |
| 41 | 11/13/2022 | 13770.5 | 13605 | 60 | Marcellus |
| 42 | 11/13/2022 | 13569.5 | 13404 | 60 | Marcellus |
| 43 | 11/13/2022 | 13368.5 | 13203 | 60 | Marcellus |
| 44 | 11/14/2022 | 13167.5 | 13002 | 60 | Marcellus |
| 45 | 11/14/2022 | 12966.5 | 12801 | 60 | Marcellus |
| 46 | 11/14/2022 | 12765.5 | 12600 | 60 | Marcellus |
| 47 | 11/14/2022 | 12564.5 | 12399 | 60 | Marcellus |
| 48 | 11/15/2022 | 12363.5 | 12198 | 60 | Marcellus |
| 49 | 11/15/2022 | 12162.5 | 11997 | 60 | Marcellus |
| 50 | 11/15/2022 | 11961.5 | 11796 | 60 | Marcellus |
| 51 | 11/16/2022 | 11760.5 | 11595 | 60 | Marcellus |
| 52 | 11/16/2022 | 11559.5 | 11394 | 60 | Marcellus |
| 53 | 11/16/2022 | 11358.5 | 11193 | 60 | Marcellus |
| 54 | 11/16/2022 | 11157.5 | 10992 | 60 | Marcellus |
| 55 | 11/17/2022 | 10956.5 | 10791 | 60 | Marcellus |
| 56 | 11/17/2022 | 10755.5 | 10590 | 60 | Marcellus |
| 57 | 11/17/2022 | 10554.5 | 10389 | 60 | Marcellus |
| 58 | 11/17/2022 | 10353.5 | 10188 | 60 | Marcellus |
| 59 | 11/18/2022 | 10152.5 | 9987 | 60 | Marcellus |
| 60 | 11/18/2022 | 9951.5 | 9786 | 60 | Marcellus |
| 61 | 11/18/2022 | 9750.5 | 9585 | 60 | Marcellus |
| 62 | 11/19/2022 | 9549.5 | 9384 | 60 | Marcellus |
| 63 | 11/19/2022 | 9348.5 | 9183 | 60 | Marcellus |
| 64 | 11/19/2022 | 9147.5 | 8982 | 60 | Marcellus |
| 65 | 11/20/2022 | 8946.5 | 8781 | 60 | Marcellus |
| 66 | 11/20/2022 | 8745.5 | 8580 | 60 | Marcellus |
| 67 | 11/20/2022 | 8544.5 | 8379 | 60 | Marcellus |
| 68 | 11/21/2022 | 8343.5 | 8178 | 60 | Marcellus |
| 69 | 11/21/2022 | 8142.5 | 7977 | 60 | Marcellus |
| 70 | 11/21/2022 | 7941.5 | 7776 | 60 | Marcellus |
| 71 | 11/21/2022 | 7740.5 | 7575 | 60 | Marcellus |
| 72 | 11/21/2022 | 7539.5 | 7374 | 60 | Marcellus |
| 73 | 11/21/2022 | 7338.5 | 7173 | 60 | Marcellus |

08/11/2023

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 | 10/31/2022 | 84.3 | 8878.3 | 6103.9 | 3865.9 | 179620 | 210441 | N/A |
| 2 | 11/01/2022 | 91.2 | 8780.7 | 4772.1 | 4075.4 | 401440 | 331536 | N/A |
| 3 | 11/01/2022 | 94.7 | 9413.3 | 5244.8 | 3597.9 | 401100 | 286393 | N/A |
| 4 | 11/01/2022 | 92.7 | 9336.4 | 5018.5 | 3864.6 | 398757 | 302513 | N/A |
| 5 | 11/01/2022 | 96.5 | 9565.9 | 5659.6 | 3729.9 | 398383 | 288080 | N/A |
| 6 | 11/02/2022 | 92.8 | 9139.0 | 5131.5 | 3555.6 | 398073 | 304238 | N/A |
| 7 | 11/02/2022 | 93.4 | 8695.0 | 4296.0 | 3229.0 | 395406 | 300541 | N/A |
| 8 | 11/03/2022 | 96.7 | 9327.8 | 5449.4 | 3361.1 | 395197 | 298014 | N/A |
| 9 | 11/03/2022 | 92.9 | 8980.0 | 4708.0 | 3627.0 | 396060 | 285107 | N/A |
| 10 | 11/03/2022 | 97.2 | 9701.3 | 4648.7 | 3372.7 | 398562 | 288438 | N/A |
| 11 | 11/04/2022 | 97.3 | 9715.7 | 4792.9 | 3155.7 | 413069 | 299031 | N/A |
| 12 | 11/04/2022 | 94.4 | 9377.8 | 4563.1 | 3345.3 | 415063 | 297710 | N/A |
| 13 | 11/04/2022 | 94.6 | 9253.0 | 4617.0 | 4228.0 | 397336 | 338699 | N/A |
| 14 | 11/05/2022 | 97.4 | 9425.4 | 4553.8 | 3675.8 | 401261 | 288642 | N/A |
| 15 | 11/05/2022 | 93.4 | 9306.0 | 4418.0 | 4037.0 | 416865 | 297710 | N/A |
| 16 | 11/05/2022 | 95.0 | 8805.6 | 4402.6 | 4236.7 | 401152 | 289093 | N/A |
| 17 | 11/06/2022 | 86.9 | 8195.0 | 4977.0 | 4441.0 | 417429 | 377969 | N/A |
| 18 | 11/06/2022 | 95.5 | 8817.0 | 4530.4 | 3321.8 | 399376 | 277912 | N/A |
| 19 | 11/07/2022 | 36.0 | 9365.7 | 4292.8 | 4562.2 | 29670 | 187588 | N/A |
| 20 | 11/07/2022 | 94.8 | 8774.7 | 4980.2 | 3193.7 | 414040 | 293597 | N/A |
| 21 | 11/07/2022 | 94.4 | 8660.0 | 5174.0 | 3254.0 | 409920 | 290718 | N/A |
| 22 | 11/07/2022 | 90.6 | 8819.8 | 5418.8 | 3275.3 | 409896 | 305819 | N/A |
| 23 | 11/08/2022 | 96.4 | 8534.2 | 4278.3 | 3164.7 | 410018 | 294847 | N/A |
| 24 | 11/08/2022 | 95.1 | 8760.1 | 5692.3 | 3331.1 | 415180 | 296786 | N/A |
| 25 | 11/08/2022 | 96.3 | 8737.0 | 5711.9 | 3351.8 | 397304 | 303890 | N/A |
| 26 | 11/09/2022 | 88.6 | 8497.7 | 6675.5 | 3084.2 | 409229 | 328804 | N/A |
| 27 | 11/09/2022 | 95.1 | 8486.7 | 5671.9 | 3377.5 | 405471 | 293822 | N/A |
| 28 | 11/09/2022 | 96.2 | 8594.7 | 5971.9 | 3446.8 | 414898 | 298502 | N/A |
| 29 | 11/09/2022 | 94.4 | 8228.0 | 5625.0 | 3298.0 | 410266 | 287691 | N/A |
| 30 | 11/10/2022 | 96.8 | 8448.4 | 5380.6 | 3186.7 | 413430 | 285886 | N/A |
| 31 | 11/10/2022 | 96.6 | 9152.0 | 5830.0 | 3885.0 | 405124 | 292906 | N/A |
| 32 | 11/10/2022 | 96.3 | 9182.4 | 6311.2 | 3238.6 | 411275 | 292119 | N/A |
| 33 | 11/10/2022 | 98.0 | 9330.1 | 6126.5 | 3269.4 | 414190 | 288678 | N/A |
| 34 | 11/11/2022 | 96.1 | 9301.9 | 4342.0 | 3186.9 | 409261 | 289729 | N/A |
| 35 | 11/11/2022 | 97.5 | 9076.0 | 5115.0 | 3565.0 | 415564 | 296016 | N/A |
| 36 | 11/11/2022 | 96.0 | 8996.4 | 4441.1 | 3187.0 | 402814 | 289211 | N/A |
| 37 | 11/12/2022 | 74.5 | 8891.3 | 4568.6 | 3065.4 | 410798 | 419922 | N/A |
| 38 | 11/12/2022 | 88.2 | 8732.8 | 4781.7 | 3225.7 | 403910 | 302159 | N/A |
| 39 | 11/12/2022 | 97.5 | 8909.5 | 4298.2 | 3103.9 | 404925 | 294341 | N/A |
| 40 | 11/13/2022 | 96.8 | 8873.4 | 4846.9 | 3485.4 | 406518 | 286643 | N/A |
| 41 | 11/13/2022 | 97.0 | 8558.3 | 4392.4 | 3248.6 | 404341 | 294092 | N/A |
| 42 | 11/13/2022 | 96.7 | 8543.9 | 4075.5 | 3009.5 | 406597 | 292083 | N/A |
| 43 | 11/13/2022 | 91.7 | 8151.1 | 4124.9 | 3278.5 | 403964 | 296922 | N/A |
| 44 | 11/14/2022 | 95.9 | 8432.2 | 4747.9 | 3909.9 | 405532 | 281406 | N/A |
| 45 | 11/14/2022 | 95.8 | 8219.0 | 4336.0 | 4212.0 | 403734 | 292340 | N/A |
| 46 | 11/14/2022 | 97.7 | 8790.0 | 5291.0 | 3284.0 | 415833 | 297792 | N/A |
| 47 | 11/14/2022 | 96.2 | 8767.4 | 4579.3 | 3281.1 | 410174 | 283785 | N/A |
| 48 | 11/15/2022 | 96.8 | 8568.8 | 4201.9 | 3255.0 | 406920 | 293614 | N/A |
| 49 | 11/15/2022 | 97.5 | 8205.0 | 3380.0 | 3317.0 | 411925 | 300206 | N/A |
| 50 | 11/15/2022 | 96.9 | 7927.0 | 5447.4 | 3257.3 | 402973 | 294186 | N/A |
| 51 | 11/16/2022 | 96.6 | 7976.5 | 5728.6 | 3204.4 | 413161 | 299085 | N/A |
| 52 | 11/16/2022 | 95.2 | 8098.0 | 4425.0 | 3417.0 | 398971 | 295348 | N/A |
| 53 | 11/16/2022 | 94.3 | 8264.0 | 4626.0 | 3826.0 | 400906 | 342740 | N/A |
| 54 | 11/16/2022 | 97.4 | 8028.3 | 5186.0 | 3408.6 | 415490 | 280975 | N/A |
| 55 | 11/17/2022 | 96.4 | 7945.5 | 3773.0 | 4217.5 | 415613 | 279243 | N/A |
| 56 | 11/17/2022 | 96.6 | 7678.0 | 4391.0 | 3844.0 | 415614 | 294328 | N/A |
| 57 | 11/17/2022 | 97.1 | 7845.0 | 4635.0 | 3437.0 | 413871 | 302392 | N/A |
| 58 | 11/17/2022 | 97.3 | 7719.7 | 4341.5 | 3220.5 | 413047.0 | 291785.0 | N/A |
| 59 | 11/18/2022 | 96.8 | 7923.3 | 4315.6 | 4030.6 | 414760.0 | 281181.0 | N/A |
| 60 | 11/18/2022 | 96.3 | 7864.0 | 3684.0 | 3810.0 | 417680.0 | 283188.0 | N/A |
| 61 | 11/18/2022 | 95.8 | 7895.6 | 2309.5 | 3875.2 | 404890.0 | 276710.0 | N/A |
| 62 | 11/19/2022 | 96.9 | 8011.0 | 3670.0 | 3455.5 | 413730.0 | 277845.0 | N/A |
| 63 | 11/19/2022 | 96.4 | 7767.0 | 4722.0 | 3682.0 | 413460.0 | 278043.0 | N/A |
| 64 | 11/19/2022 | 95.6 | 7507.0 | 4667.5 | 3519.6 | 413940.0 | 268724.0 | N/A |
| 65 | 11/20/2022 | 97.2 | 6952.0 | 3697.0 | 4025.0 | 402940.0 | 278140.0 | N/A |
| 66 | 11/20/2022 | 96.6 | 6882.0 | 2060.0 | 4173.0 | 395320.0 | 284712.0 | N/A |
| 67 | 11/20/2022 | 96.4 | 7226.7 | 4696.2 | 3826.4 | 396210.0 | 273829.0 | N/A |
| 68 | 11/21/2022 | 97.4 | 7304.1 | 4726.1 | 3652.5 | 406408.0 | 277445.0 | N/A |
| 69 | 11/21/2022 | 96.8 | 7204.0 | 6389.0 | 4064.0 | 399700.0 | 274752.0 | N/A |
| 70 | 11/21/2022 | 97.3 | 7179.0 | 3168.0 | 3764.0 | 410660.0 | 277905.0 | N/A |
| 71 | 11/21/2022 | 97.1 | 6902.0 | 2126.0 | 3579.0 | 397140.0 | 271724.0 | N/A |
| 72 | 11/21/2022 | 95.4 | 6812.5 | 2301.8 | 3617.7 | 398380.0 | 272081.0 | N/A |
| 73 | 11/21/2022 | 96.4 | 6517.7 | 3588.0 | 3370.2 | 392410.0 | 271495.0 | N/A |
| | AVG= | 94 | 8,448 | 4,674 | 3,555 | 29,084,144 | 21,341,837 | TOTAL |

08/11/2023 

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 | 145 | 220 | 145 | 220 |
| Silty Sandstone | 220 | 270 | 220 | 270 |
| Silty Shale | 270 | 420 | 270 | 420 |
| Shale | 370 | 470 | 370 | 470 |
| Silty Sandstone | 420 | 470 | 420 | 470 |
| Silty Shale | 470 | 670 | 470 | 670 |
| Silty Sandstone | 670 | 770 | 670 | 770 |
| Shaly Siltstone | 770 | 870 | 770 | 870 |
| Shaly Sandstone w/ tr coal | 870 | 1,070 | 870 | 1,070 |
| Sandstone | 1,070 | 1,220 | 1,070 | 1,220 |
| Shaly Siltstone w/ tr coal | 1,220 | 1,270 | 1,220 | 1,270 |
| Shaly Sandstone and siltstone | 1,270 | 1,320 | 1,270 | 1,320 |
| Shaly Sandstone w/ tr coal | 1,320 | 1,420 | 1,320 | 1,420 |
| Silty Sandstone w/ coal | 1,420 | 1,470 | 1,420 | 1,470 |
| Sandy Shale | 1,470 | 1,758 | 1,470 | 1,859 |
| Big Lime | 1,788 | 2,183 | 1,859 | 2,380 |
| Fifty Foot Sandstone | 2,183 | 2,584 | 2,350 | 2,866 |
| Gordon | 2,584 | 2,731 | 2,836 | 3,040 |
| Fifth Sandstone | 2,731 | 2,911 | 3,010 | 3,255 |
| Bayard | 2,911 | 3,731 | 3,225 | 4,215 |
| Speechley | 3,731 | 3,980 | 4,185 | 4,505 |
| Balltown | 3,980 | 4,428 | 4,475 | 5,037 |
| Bradford | 4,428 | 4,769 | 5,007 | 5,442 |
| Benson | 4,769 | 4,973 | 5,412 | 5,684 |
| Alexander | 4,973 | 5,986 | 5,654 | 6,902 |
| Sycamore | 5,857 | 5,956 | 6,716 | 6,872 |
| Middlesex | 5,956 | 6,037 | 6,872 | 7,046 |
| Burkett | 6,037 | 6,064 | 7,046 | 7,124 |
| Marcellus | 6,064 | NA | 7,124 | NA |

*Please note Antero determines formation tops based on mud logs that are only run on one well on a multi-well pad. The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

08/11/2023

Hydraulic Fracturing Fluid Product Component Information Disclosure

| | |
|--------------------------------|------------------------------|
| Job Start Date: | 10/31/2022 |
| Job End Date: | 11/21/2022 |
| State: | West Virginia |
| County: | Tyler |
| API Number: | 47-095-02784-00-00 |
| Operator Name: | Antero Resources Corporation |
| Well Name and Number: | FOLGER UNIT 2H |
| Latitude: | 39.49356000 |
| Longitude: | -80.95592000 |
| Datum: | WGS84 |
| Federal Well: | NO |
| Indian Well: | NO |
| True Vertical Depth: | 6,136 |
| Total Base Water Volume (gal): | 22,541,367 |
| 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 | 86.64131 | Density = 8.50 |
| Ingredients | Listed Above | Listed Above | | | | | |
| | | | Water | 7732-18-5 | 100.00000 | 0.15642 | |

Handwritten mark

| | | | | | | | |
|------------------------------------|------------------|--------------------------|--|--------------|--|--|--|
| MC B-8614A | MultiChem | Biocide | | | | | |
| | | | | Listed Below | | | |
| WG-36 GELLING AGENT | Halliburton | Gelling Agent | | | | | |
| | | | | Listed Below | | | |
| HAI-501 | Halliburton | Acid Corrosion Inhibitor | | | | | |
| | | | | Listed Below | | | |
| Sand-Common White-100 Mesh, SSA-2 | Halliburton | Proppant | | | | | |
| | | | | Listed Below | | | |
| Excelerate LX-15 | Halliburton | Friction Reducer | | | | | |
| | | | | Listed Below | | | |
| Chemstream StimSTREAM FR 9800 | Chemstream, Inc. | Friction Reducer | | | | | |
| | | | | Listed Below | | | |
| Sand-Premium White-30/70 | Halliburton | Proppant | | | | | |
| | | | | Listed Below | | | |
| OPTIFLO-II DELAYED RELEASE BREAKER | Halliburton | Breaker | | | | | |
| | | | | Listed Below | | | |

| | | | | | | | |
|--|-------------|---------|---|--------------|-----------|----------|--|
| HYDROCHLORIC ACID, 22 BAUME | Halliburton | Solvent | | | | | |
| | | | | 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 | 13.15175 | |
| | | | Hydrochloric acid | 7647-01-0 | 30.00000 | 0.04077 | |
| | | | Guar gum | 9000-30-0 | 100.00000 | 0.01781 | |
| | | | Complex Amine Compound | Proprietary | 60.00000 | 0.01250 | |
| | | | Hydrotreated light petroleum distillate | 64742-47-8 | 30.00000 | 0.00625 | |
| | | | Butene, homopolymer | 9003-29-6 | 25.00000 | 0.00593 | |
| | | | Alkanes, C16-20-iso- | Proprietary | 25.00000 | 0.00593 | |
| | | | Glutaraldehyde | 111-30-8 | 30.00000 | 0.00241 | |
| | | | Sorbitan, mono-9-octadecenoate, (Z) | 1338-43-8 | 5.00000 | 0.00104 | |
| | | | Surfactant | Proprietary | 5.00000 | 0.00104 | |
| | | | Ethoxylated alcohols (C12-16) | 68213-23-0 | 3.00000 | 0.00071 | |
| | | | Ammonium persulfate | 7727-54-0 | 100.00000 | 0.00042 | |
| | | | Alkyl (C12-16) dimethylbenzyl ammonium chloride | 68424-85-1 | 5.00000 | 0.00040 | |
| | | | Methanol | 67-56-1 | 100.00000 | 0.00026 | |
| | | | Ethoxylated alcohols | Proprietary | 5.00000 | 0.00022 | |
| | | | Organic chloride compound | Proprietary | 1.00000 | 0.00021 | |
| | | | Alkoxylated polyhydric alcohol | Proprietary | 1.00000 | 0.00021 | |
| | | | Oxylated phenolic resin | Proprietary | 30.00000 | 0.00013 | |
| | | | Ethanol | 64-17-5 | 1.00000 | 0.00008 | |
| | | | Modified thiourea polymer | Proprietary | 30.00000 | 0.00008 | |

| | | | | | | | |
|--|--|--|---|-------------|----------|---------|--|
| | | | Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil | 61790-12-3 | 30.00000 | 0.00008 | |
| | | | Hexadecene | 629-73-2 | 5.00000 | 0.00001 | |
| | | | Propargyl alcohol | 107-19-7 | 5.00000 | 0.00001 | |
| | | | C.I. pigment Orange 5 | 3468-63-1 | 1.00000 | 0.00000 | |
| | | | Formaldehyde | 50-00-0 | 0.01000 | 0.00000 | |
| | | | Organic salt #2 | Proprietary | 0.01000 | 0.00000 | |
| | | | Sodium glycolate | 2836-32-0 | 0.01000 | 0.00000 | |
| | | | Nitrated acetate salt | Proprietary | 0.01000 | 0.00000 | |
| | | | Organic salt #1 | Proprietary | 0.01000 | 0.00000 | |
| | | | Acrylamide | 79-06-1 | 0.01000 | 0.00000 | |
| | | | Sodium hydroxide | 1310-73-2 | 0.01000 | 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)