

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

API 47 - 017 - 06934 County Doddridge District Grant  
Quad Smithburg 7.5' Pad Name Lemley Pad Field/Pool Name -----  
Farm name Brian D. Lemley & Christy M. Lemaster ET AL. Well Number Peter 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 4353034m Easting 527563m  
Landing Point of Curve Northing 4353291.42m Easting 527663.12m  
Bottom Hole Northing 4355559m Easting 526925m

Elevation (ft) 1304' 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 7/7/2022 Date drilling commenced 9/12/2022 Date drilling ceased 12/18/2022  
Date completion activities began 2/6/2023 Date completion activities ceased 3/15/2023  
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 357', 613', 856' Open mine(s) (Y/N) depths No  
Salt water depth(s) ft 1460', 1673' Void(s) encountered (Y/N) depths No  
Coal depth(s) ft 980' Cavern(s) encountered (Y/N) depths No  
Is coal being mined in area (Y/N) No

Reviewed by:

**APPROVED**

EMK  
12/08/2023

API 47-017 - 06934 Farm name Brian D. Lemley & Christy M. Lemaster ET AL. Well number Peter Unit 2H

| CASING STRINGS            | Hole Size     | Casing Size | Depth  | New or Used | Grade wt/ft    | Basket Depth(s) | Did cement circulate (Y/ N)<br>* Provide details below* |
|---------------------------|---------------|-------------|--------|-------------|----------------|-----------------|---|
| Conductor                 | 28"           | 20"         | 130'   | New         | 78.67#, X-60   | N/A             | Y   |
| Surface                   | 17-1/2"       | 13-3/8"     | 904'   | New         | 54.5#, J-55    | N/A             | Y   |
| Coal                      |               |             |        |             |                |                 |   |
| Intermediate 1            | 12-1/4"       | 9-5/8"      | 3336'  | New         | 36#, J-55      | N/A             | Y   |
| Intermediate 2            |               |             |        |             |                |                 |   |
| Intermediate 3            |               |             |        |             |                |                 |   |
| Production                | 8-3/4"/8-1/2" | 5-1/2"      | 15015' | New         | 20#, P-110-ICY | N/A             | Y   |
| Tubing                    |               | 2-3/8"      | 7244'  |             | 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 <sup>3</sup> /sks) | Volume (ft <sup>3</sup> ) | Cement Top (MD)                | WOC (hrs) |
|----------------|----------------------|-----------------|-------------------------|------------------------------|---------------------------|--------------------------------|-----------|
| Conductor      | Class A              | 195 sx          | 15.6                    | 1.18                         | 230                       | 0'                             | 8 Hrs.    |
| Surface        | Class A              | 1030 sx         | 15.8                    | 1.16                         | 1195                      | 0'                             | 8 Hrs.    |
| Coal           |                      |                 |                         |                              |                           |                                |           |
| Intermediate 1 | Class A              | 1140sx          | 15.8                    | 1.16                         | 1322                      | 0'                             | 8 Hrs.    |
| Intermediate 2 |                      |                 |                         |                              |                           |                                |           |
| Intermediate 3 |                      |                 |                         |                              |                           |                                |           |
| Production     | Class H              | 2105 sx (Tail)  | 13.5 (Lead), 15.2(Tail) | 1.25 (Tail)                  | 2631                      | -500' into Intermediate Casing | 8 Hrs.    |
| Tubing         |                      |                 |                         |                              |                           |                                |           |

Drillers TD (ft) 15793' MD, 7250' TVD (BHL), 7258' (Deepest Point Drilled) Loggers TD (ft) 15793' MD  
 Deepest formation penetrated Marcellus Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 6422'

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

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WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

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WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

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

API 47-017 - 06934

Farm name Brian D. Lemley & Christy M. Lemaster ET AL.

Well number Peter Unit 2H

**PERFORATION RECORD**

| Stage No.                             | Perforation date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formation(s) |
|---------------------------------------|------------------|------------------------|----------------------|------------------------|--------------|
| <b>*PLEASE SEE ATTACHED EXHIBIT 1</b> |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |

Please insert additional pages as applicable.

**STIMULATION INFORMATION PER STAGE**

Complete a separate record for each stimulation stage.

| 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) |
|---------------------------------------|-------------------|---------------------|------------------------------|------------------------------|------------|--------------------------|------------------------|----------------------------------|
| <b>*PLEASE SEE ATTACHED EXHIBIT 2</b> |                   |                     |                              |                              |            |                          |                        |                                  |
|                                       |                   |                     |                              |                              |            |                          |                        |                                  |
|                                       |                   |                     |                              |                              |            |                          |                        |                                  |
|                                       |                   |                     |                              |                              |            |                          |                        |                                  |
|                                       |                   |                     |                              |                              |            |                          |                        |                                  |
|                                       |                   |                     |                              |                              |            |                          |                        |                                  |
|                                       |                   |                     |                              |                              |            |                          |                        |                                  |
|                                       |                   |                     |                              |                              |            |                          |                        |                                  |
|                                       |                   |                     |                              |                              |            |                          |                        |                                  |
|                                       |                   |                     |                              |                              |            |                          |                        |                                  |
|                                       |                   |                     |                              |                              |            |                          |                        |                                  |

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Please insert additional pages as applicable.

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| <u>PRODUCING FORMATION(S)</u> | <u>DEPTHS</u>      |            |                              |
|-------------------------------|--------------------|------------|------------------------------|
| <u>Marcellus</u>              | <u>7150' (TOP)</u> | <u>TVD</u> | <u>7414' (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 2744 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 9819.5 mcfpd Oil 0.02 bpd NGL --- bpd Water 6.5 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

| <u>LITHOLOGY/<br/>FORMATION</u>       | <u>TOP</u>                      |                            | <u>BOTTOM</u>             |                           | <u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND<br/>TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H<sub>2</sub>S, ETC)</u> |
|---------------------------------------|---------------------------------|----------------------------|---------------------------|---------------------------|--|
|                                       | <u>DEPTH IN FT<br/>NAME TVD</u> | <u>DEPTH IN FT<br/>TVD</u> | <u>DEPTH IN FT<br/>MD</u> | <u>DEPTH IN FT<br/>MD</u> |  |
| <b>*PLEASE SEE ATTACHED EXHIBIT 3</b> |                                 |                            |                           |                           |  |

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|  |  |  |  |  |  |
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|  |  |  |  |  | JUN 2 2023                                   |
|  |  |  |  |  | WV Department of<br>Environmental Protection |
|  |  |  |  |  |  |

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 5/19/2023

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

12/08/2023

LATITUDE 39°20'00" 3,883'

5,948' TO BOTTOM HOLE  
LATITUDE 39°22'30"

LONGITUDE 80°40'00" 9,482' TO BOTTOM HOLE  
LONGITUDE 80°40'00"

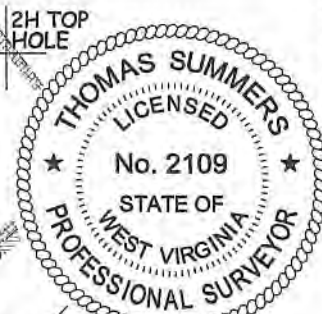
Antero Resources Corporation  
Well No. Peter Unit 2H

AS DRILLED DATA:  
WELL 2H TOP HOLE INFORMATION:  
N: 303,111ft E: 1,666,086ft  
LAT: 39°19'34.31" LON: 80°40'49.41"  
BOTTOM HOLE INFORMATION:  
N: 311,432ft E: 1,664,129ft  
LAT: 39°20'56.29" LON: 80°41'15.72"  
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.

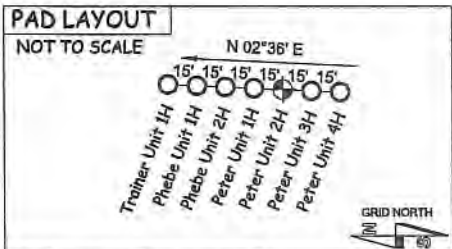
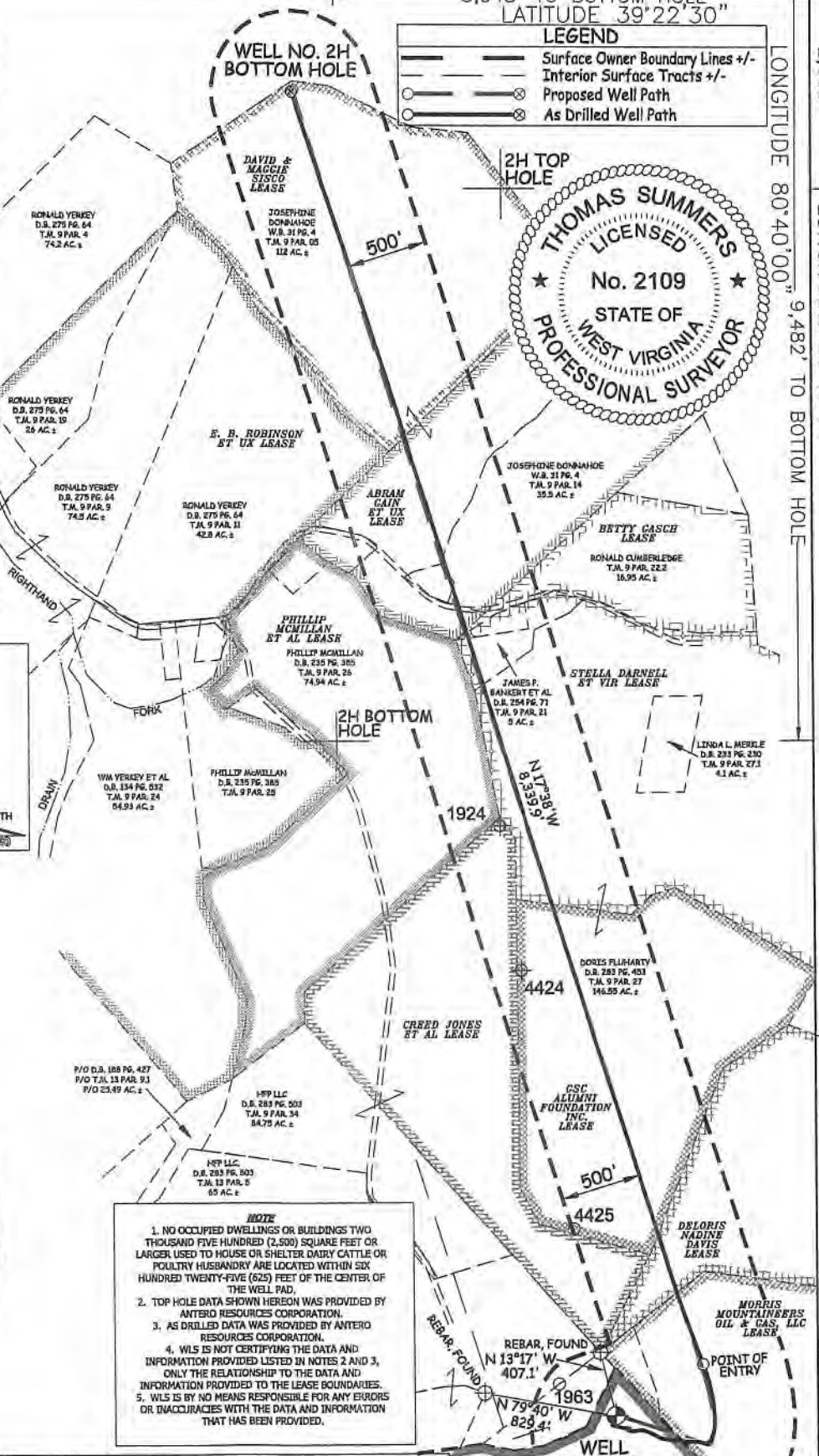
(NAD) 83 (UTM) ZONE 17 COORDS:  
WELL 2H TOP HOLE INFORMATION:  
N: 4,353,034m E: 527,563m  
BOTTOM HOLE INFORMATION:  
N: 4,355,559m E: 526,925m

LEGEND

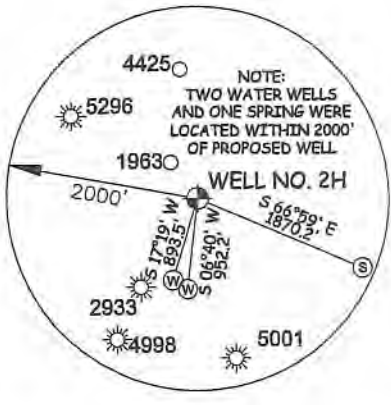
|  |                                  |
|--|----------------------------------|
|  | Surface Owner Boundary Lines +/- |
|  | Interior Surface Tracts +/-      |
|  | Proposed Well Path               |
|  | As Drilled Well Path             |



WV NORTH ZONE GRID NORTH



(NAD) 27 (UTM) ZONE 17 COORDS:  
WELL 2H TOP HOLE INFORMATION:  
N: 14,280,864ft E: 1,730,799ft  
POINT OF ENTRY INFORMATION:  
N: 14,281,246ft E: 1,731,361ft  
BOTTOM HOLE INFORMATION:  
N: 14,289,147ft E: 1,728,704ft



NOTE

- 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.
- TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
- AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
- 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.
- WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

JOB # 13-012WA  
DRAWING # PETER2HAD  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY SUBMETER  
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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

BRIAN D. LEMLEY & CHRISTY M. LEMASTER ET AL  
D.B. 203 PG. 69 T.J. 13 PAR. 11 59.08 AC.±

THOMAS SUMMERS P.S. 2109  
*Thomas Summers*

DATE 05/09/23  
OPERATOR'S WELL# PETER UNIT #2H  
API WELL # 47 - 017 - 06934  
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS  
WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
LOCATION: ELEVATION 1,304' AS BUILT WATERSHED MCELROY CREEK  
QUADRANGLE SMITHBURG 7.5' DISTRICT GRANT COUNTY DODDRIDGE  
SURFACE OWNER BRIAN D. LEMLEY & CHRISTY M. LEMASTER ET AL ACREAGE 59.08 ACRES +/- 12/08/2023  
OIL & GAS ROYALTY OWNER MARIETTE LEMLEY ET AL; MORRIS MOUNTAINEERS OIL & GAS, LLC; DELORIS NADINE LEASE ACREAGE 86.87 AC±; 50 AC±; 158.4 AC±;  
DAVIS; GSC ALUMNI FOUNDATION INC.; STELLA DARNELL ET VIR; BETTY GASCH; ABRAM GAIN ET UX; DAVID & MAGGIE SISCO 61.4 AC±; 112 AC±; 17 AC±; 85 AC±; 74 AC±  
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 7,250' TVD 15,793' MD  
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT KEVIN ELLIS  
ADDRESS 1615 WYNKOOP STREET ADDRESS 535 WHITE OAKS BLVD  
DENVER, CO 80202 BRIDGEPORT, WV 26330

JUN 2 2023

WV Department of  
Environmental Protection

API 47-017-06934 Farm Name Brian D. Lemley & Christy M. Lemaster ET AL Well Number Peter Unit 2H

**Exhibit 1**

| Stage No. | Perforation Date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formations |
|-----------|------------------|------------------------|----------------------|------------------------|------------|
| 1         | 2/6/2023         | 15675                  | 15631                | 60                     | Marcellus  |
| 2         | 2/6/2023         | 15593.81707            | 15429.9024           | 60                     | Marcellus  |
| 3         | 2/6/2023         | 15394.71951            | 15230.8049           | 60                     | Marcellus  |
| 4         | 2/6/2023         | 15195.62195            | 15031.7073           | 60                     | Marcellus  |
| 5         | 2/6/2023         | 14996.52439            | 14832.6098           | 60                     | Marcellus  |
| 6         | 2/7/2023         | 14797.42683            | 14633.5122           | 60                     | Marcellus  |
| 7         | 2/7/2023         | 14598.32927            | 14434.4146           | 60                     | Marcellus  |
| 8         | 2/7/2023         | 14399.23171            | 14235.3171           | 60                     | Marcellus  |
| 9         | 2/7/2023         | 14200.13415            | 14036.2195           | 60                     | Marcellus  |
| 10        | 2/7/2023         | 14001.03659            | 13837.122            | 60                     | Marcellus  |
| 11        | 2/7/2023         | 13801.93902            | 13638.0244           | 60                     | Marcellus  |
| 12        | 2/8/2023         | 13602.84146            | 13438.9268           | 60                     | Marcellus  |
| 13        | 2/8/2023         | 13403.7439             | 13239.8293           | 60                     | Marcellus  |
| 14        | 2/8/2023         | 13204.64634            | 13040.7317           | 60                     | Marcellus  |
| 15        | 2/8/2023         | 13005.54878            | 12841.6341           | 60                     | Marcellus  |
| 16        | 2/8/2023         | 12806.45122            | 12642.5366           | 60                     | Marcellus  |
| 17        | 2/8/2023         | 12607.35366            | 12443.439            | 60                     | Marcellus  |
| 18        | 2/9/2023         | 12408.2561             | 12244.3415           | 60                     | Marcellus  |
| 19        | 2/9/2023         | 12209.15854            | 12045.2439           | 60                     | Marcellus  |
| 20        | 2/9/2023         | 12010.06098            | 11846.1463           | 60                     | Marcellus  |
| 21        | 2/9/2023         | 11810.96341            | 11647.0488           | 60                     | Marcellus  |
| 22        | 2/9/2023         | 11611.86585            | 11447.9512           | 60                     | Marcellus  |
| 23        | 2/10/2023        | 11412.76829            | 11248.8537           | 60                     | Marcellus  |
| 24        | 2/10/2023        | 11213.67073            | 11049.7561           | 60                     | Marcellus  |
| 25        | 2/10/2023        | 11014.57317            | 10850.6585           | 60                     | Marcellus  |
| 26        | 2/10/2023        | 10815.47561            | 10651.561            | 60                     | Marcellus  |
| 27        | 2/10/2023        | 10616.37805            | 10452.4634           | 60                     | Marcellus  |
| 28        | 2/10/2023        | 10417.28049            | 10253.3659           | 60                     | Marcellus  |
| 29        | 2/10/2023        | 10218.18293            | 10054.2683           | 60                     | Marcellus  |
| 30        | 2/11/2023        | 10019.08537            | 9855.17073           | 60                     | Marcellus  |
| 31        | 2/11/2023        | 9819.987805            | 9656.07317           | 60                     | Marcellus  |
| 32        | 2/11/2023        | 9620.890244            | 9456.97561           | 60                     | Marcellus  |
| 33        | 2/11/2023        | 9421.792683            | 9257.87805           | 60                     | Marcellus  |
| 34        | 2/11/2023        | 9222.695122            | 9058.78049           | 60                     | Marcellus  |
| 35        | 2/11/2023        | 9023.597561            | 8859.68293           | 60                     | Marcellus  |
| 36        | 2/12/2023        | 8824.5                 | 8660.58537           | 60                     | Marcellus  |
| 37        | 2/12/2023        | 8625.402439            | 8461.4878            | 60                     | Marcellus  |
| 38        | 2/12/2023        | 8426.304878            | 8262.39024           | 60                     | Marcellus  |
| 39        | 2/12/2023        | 8227.207317            | 8063.29268           | 60                     | Marcellus  |
| 40        | 2/12/2023        | 8028.109756            | 7864.19512           | 60                     | Marcellus  |
| 41        | 2/12/2023        | 7829.012195            | 7665.09756           | 60                     | Marcellus  |
| 42        | 2/12/2023        | 7629.914634            | 7466                 | 60                     | Marcellus  |

12/08/2023

JUN 2 2023

WV Department of  
Environmental Protection

API 47-017-06934 Farm Name Brian D. Lemley & Christy M. Lemaster ET AL Well Number Peter Unit 2H

**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         | 2/6/2023          | 74.9          | 7871.0                       | 7782.72                      | 4873.493   | 157390                   | 199549                 | N/A                               |
| 2         | 2/6/2023          | 91.3          | 8256.0                       | 5414                         | 4969       | 399680                   | 287666                 | N/A                               |
| 3         | 2/6/2023          | 91.4          | 8103.0                       | 5811                         | 4925       | 399980                   | 286128                 | N/A                               |
| 4         | 2/6/2023          | 94.7          | 8386.9                       | 5818.78                      | 4969.603   | 400380                   | 281115                 | N/A                               |
| 5         | 2/6/2023          | 95.7          | 8373.0                       | 5782                         | 4449       | 406910                   | 272818                 | N/A                               |
| 6         | 2/7/2023          | 96.1          | 8443.2                       | 6044                         | 4548.939   | 394540                   | 272976                 | N/A                               |
| 7         | 2/7/2023          | 96.1          | 8349.2                       | 3915.98                      | 4568.309   | 410550                   | 277104                 | N/A                               |
| 8         | 2/7/2023          | 93.0          | 8203.0                       | 3299                         | 4444       | 402930                   | 286136                 | N/A                               |
| 9         | 2/7/2023          | 95.4          | 8299.0                       | 5576                         | 4830       | 393760                   | 275104                 | N/A                               |
| 10        | 2/7/2023          | 96.5          | 8385.9                       | 5691.46                      | 4157.664   | 396970                   | 310498                 | N/A                               |
| 11        | 2/7/2023          | 96.2          | 8410.6                       | 5753.81                      | 4236.503   | 396520                   | 276226                 | N/A                               |
| 12        | 2/8/2023          | 97.2          | 8400.8                       | 5559.63                      | 4949.136   | 399600                   | 268436                 | N/A                               |
| 13        | 2/8/2023          | 96.0          | 8299.8                       | 5715.44                      | 4565.947   | 391570                   | 265607                 | N/A                               |
| 14        | 2/8/2023          | 96.0          | 8188.0                       | 4808                         | 4362       | 394390                   | 265848                 | N/A                               |
| 15        | 2/8/2023          | 95.4          | 8332.0                       | 3452                         | 4599       | 415040                   | 286184                 | N/A                               |
| 16        | 2/8/2023          | 94.3          | 8078.0                       | 3355                         | 4057       | 392520                   | 271055                 | N/A                               |
| 17        | 2/8/2023          | 96.3          | 8347.2                       | 5819.34                      | 4528.106   | 412140                   | 273016                 | N/A                               |
| 18        | 2/9/2023          | 97.1          | 8378.1                       | 5711.14                      | 4541.078   | 402850                   | 271915                 | N/A                               |
| 19        | 2/9/2023          | 98.1          | 8424.7                       | 5842.59                      | 4221.471   | 395660                   | 270427                 | N/A                               |
| 20        | 2/9/2023          | 96.8          | 8306.0                       | 5672                         | 4708       | 394700                   | 271249                 | N/A                               |
| 21        | 2/9/2023          | 96.7          | 8225.0                       | 5237                         | 5394       | 402560                   | 279814                 | N/A                               |
| 22        | 2/9/2023          | 96.3          | 8159.0                       | 5850                         | 4872       | 398580                   | 281623                 | N/A                               |
| 23        | 2/10/2023         | 96.1          | 8076.6                       | 5625.4                       | 4346.669   | 401110                   | 272255                 | N/A                               |
| 24        | 2/10/2023         | 96.6          | 8084.0                       | 6031.37                      | 4224.637   | 397330                   | 271589                 | N/A                               |
| 25        | 2/10/2023         | 68.5          | 7048.0                       | 5830                         | 5042       | 397750                   | 344632                 | N/A                               |
| 26        | 2/10/2023         | 96.9          | 8199.9                       | 5934.79                      | 4750.035   | 398570                   | 272090                 | N/A                               |
| 27        | 2/10/2023         | 95.7          | 7904.0                       | 5637                         | 5310       | 397810                   | 277420                 | N/A                               |
| 28        | 2/10/2023         | 97.4          | 8012.2                       | 5853.37                      | 4524.531   | 395230                   | 268804                 | N/A                               |
| 29        | 2/10/2023         | 96.8          | 7976.0                       | 5749.05                      | 5402.125   | 399140                   | 273412                 | N/A                               |
| 30        | 2/11/2023         | 98.1          | 8130.1                       | 5999.24                      | 5475.007   | 410570                   | 279660                 | N/A                               |
| 31        | 2/11/2023         | 98.1          | 7974.4                       | 5824.83                      | 5033.431   | 399420                   | 267136                 | N/A                               |
| 32        | 2/11/2023         | 96.6          | 7824.9                       | 4301.61                      | 4083.163   | 394970                   | 266057                 | N/A                               |
| 33        | 2/11/2023         | 97.6          | 7971.0                       | 6202.36                      | 4581.933   | 404100                   | 270815                 | N/A                               |
| 34        | 2/11/2023         | 97.5          | 8068.0                       | 6284                         | 4622       | 401520                   | 270754                 | N/A                               |
| 35        | 2/11/2023         | 97.1          | 7857.2                       | 5949.78                      | 4571.237   | 398958                   | 267919                 | N/A                               |
| 36        | 2/12/2023         | 96.6          | 7980.7                       | 6417.41                      | 4513.913   | 393730                   | 266975                 | N/A                               |
| 37        | 2/12/2023         | 96.4          | 7956.5                       | 6481.12                      | 5316.025   | 393770                   | 265072                 | N/A                               |
| 38        | 2/12/2023         | 98.2          | 7706.4                       | 6215.18                      | 5402.14    | 401500                   | 268620                 | N/A                               |
| 39        | 2/12/2023         | 97.9          | 7704.9                       | 4503.43                      | 4839.202   | 404770                   | 273756                 | N/A                               |
| 40        | 2/12/2023         | 97.3          | 7578.7                       | 6328.7                       | 4339.974   | 404070                   | 284548                 | N/A                               |
| 41        | 2/12/2023         | 87.8          | 7183.9                       | 6224.18                      | 5199.759   | 400360                   | 320577                 | N/A                               |
| 42        | 2/12/2023         | 98.3          | 7366.5                       | 6162.83                      | 4818.837   | 402530                   | 279472                 | N/A                               |
|           | AVERAGE           | 95            | 8,067                        | 5,606                        | 4,718      | 16,556,428               | 11,592,057             | 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, rr Siltstone    | 100             | 450                | 100            | 450               |
| Silty Sandstone, tr Shale  | 450             | 510                | 450            | 510               |
| Silty Sandstone, com Coal  | 510             | 630                | 510            | 630               |
| Silty Sandstone            | 570             | 720                | 570            | 720               |
| Sandstone, com LS          | 630             | 720                | 630            | 720               |
| Silty Sandstone            | 720             | 780                | 720            | 780               |
| Silty Sandstone, tr Shale  | 780             | 1,070              | 780            | 1,070             |
| Sandstone, rr Siltstone    | 1,070           | 1,220              | 1,070          | 1,220             |
| Silty Sandstone            | 1,220           | 1,520              | 1,220          | 1,520             |
| Silty Sandstone, com Shale | 1,520           | 1,670              | 1,520          | 1,670             |
| Sandstone                  | 1,670           | 1,770              | 1,670          | 1,770             |
| Silty Sandstone, tr Shale  | 1,770           | 1,870              | 1,770          | 1,870             |
| Sandstone, tr Coal         | 1,870           | 1,920              | 1,870          | 1,920             |
| Sandstone                  | 1,920           | 1,970              | 1,920          | 1,970             |
| Silty Sandstone            | 1,970           | 2,117              | 1,970          | 2,121             |
| Big Lime                   | 2,147           | 2,728              | 2,121          | 2,733             |
| Fifty Foot Sandstone       | 2,728           | 2,906              | 2,703          | 2,911             |
| Gordon                     | 2,906           | 3,233              | 2,881          | 3,238             |
| Fifth Sandstone            | 3,233           | 3,302              | 3,208          | 3,307             |
| Bayard                     | 3,302           | 3,993              | 3,277          | 4,003             |
| Speechley                  | 3,993           | 4,235              | 3,973          | 4,249             |
| Balltown                   | 4,235           | 4,767              | 4,219          | 4,789             |
| Bradford                   | 4,767           | 5,243              | 4,759          | 5,272             |
| Benson                     | 5,243           | 5,528              | 5,242          | 5,562             |
| Alexander                  | 5,528           | 6,917              | 5,532          | 7,001             |
| Sycamore                   | 6,740           | 6,887              | 6,800          | 6,971             |
| Middlesex                  | 6,887           | 7,037              | 6,971          | 7,186             |
| Burkett                    | 7,037           | 7,065              | 7,186          | 7,237             |
| Tully                      | 7,065           | 7,150              | 7,237          | 7,414             |
| Marcellus                  | 7,150           | NA                 | 7,414          | 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.

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## Hydraulic Fracturing Fluid Product Component Information Disclosure

|                                |                              |
|--------------------------------|------------------------------|
| Job Start Date:                | 2/5/2023                     |
| Job End Date:                  | 2/12/2023                    |
| State:                         | West Virginia                |
| County:                        | Doddridge                    |
| API Number:                    | 47-017-06934-00-00           |
| Operator Name:                 | Antero Resources Corporation |
| Well Name and Number:          | Peter 2H                     |
| Latitude:                      | 39.32620000                  |
| Longitude:                     | -80.68039000                 |
| Datum:                         | WGS84                        |
| Federal Well:                  | NO                           |
| Indian Well:                   | NO                           |
| True Vertical Depth:           | 7,253                        |
| Total Base Water Volume (gal): | 11,940,429                   |
| 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       |
|-------------|--------------|--------------|-------------|--|--|--|----------------|
| Fresh Water | Halliburton  | Base Fluid   |             |  |  |  |                |
|             |              |              | Water       | 7732-18-5                                | 100.00000  | 85.54276   | Density = 8.34 |
| Ingredients | Listed Above | Listed Above |             |  |  |  |                |
|             |              |              | Water       | 7732-18-5                                | 100.00000  | 0.16344  |                |

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|                                    |                              |                          |  |              |  |  |  |
|------------------------------------|------------------------------|--------------------------|--|--------------|--|--|--|
| HYDROCHLORIC ACID, 22 BAUME        | Halliburton                  | Solvent                  |  |              |  |  |  |
|                                    |                              |                          |  | Listed Below |  |  |  |
| WG-36 GELLING AGENT                | Halliburton                  | Gelling Agent            |  |              |  |  |  |
|                                    |                              |                          |  | Listed Below |  |  |  |
| Chemstream StimSTREAM FR 9750      | Chemstream Oilfield Services | Friction Reducer         |  |              |  |  |  |
|                                    |                              |                          |  | Listed Below |  |  |  |
| Sand-Common White-100 Mesh, SSA-2  | Halliburton                  | Proppant                 |  |              |  |  |  |
|                                    |                              |                          |  | Listed Below |  |  |  |
| LEGEND(TM) LD-7750W                | MultiChem                    | Scale Control            |  |              |  |  |  |
|                                    |                              |                          |  | Listed Below |  |  |  |
| HAI-501                            | Halliburton                  | Acid Corrosion Inhibitor |  |              |  |  |  |
|                                    |                              |                          |  | Listed Below |  |  |  |
| OPTIFLO-II DELAYED RELEASE BREAKER | Halliburton                  | Breaker                  |  |              |  |  |  |
|                                    |                              |                          |  | Listed Below |  |  |  |
| MC B-8614A                         | MultiChem                    | Biocide                  |  |              |  |  |  |
|                                    |                              |                          |  | Listed Below |  |  |  |

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| 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 | 14.22212 |
|  |  |  | Hydrochloric acid   | 7647-01-0   | 30.00000  | 0.04345  |
|  |  |  | Distillates (petroleum), hydrotreated light   | 64742-47-8  | 25.00000  | 0.01624  |
|  |  |  | Methanol  | 67-56-1     | 100.00000 | 0.00733  |
|  |  |  | Guar gum  | 9000-30-0   | 100.00000 | 0.00635  |
|  |  |  | Alcohols, C11-14-iso, C-13-rich, ethoxylated  | 78330-21-9  | 5.00000   | 0.00325  |
|  |  |  | Glutaraldehyde  | 111-30-8    | 30.00000  | 0.00263  |
|  |  |  | Sodium chloride   | 7647-14-5   | 5.00000   | 0.00059  |
|  |  |  | Phosphoric Acid Salt  | Proprietary | 5.00000   | 0.00059  |
|  |  |  | Alkyl (C12-16) dimethylbenzyl ammonium chloride   | 68424-85-1  | 5.00000   | 0.00044  |
|  |  |  | Ammonium persulfate   | 7727-54-0   | 100.00000 | 0.00013  |
|  |  |  | Ethanol   | 64-17-5     | 1.00000   | 0.00009  |
|  |  |  | Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil | 61790-12-3  | 30.00000  | 0.00008  |
|  |  |  | Modified thiourea polymer   | Proprietary | 30.00000  | 0.00008  |
|  |  |  | Oxylated phenolic resin   | Proprietary | 30.00000  | 0.00004  |
|  |  |  | Ethoxylated alcohols  | Proprietary | 5.00000   | 0.00001  |
|  |  |  | Hexadecene  | 629-73-2    | 5.00000   | 0.00001  |
|  |  |  | Propargyl alcohol   | 107-19-7    | 5.00000   | 0.00001  |
|  |  |  | Formaldehyde  | 50-00-0     | 0.10000   | 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)

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