

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

API 47-017-06896 County Doddridge District West Union  
Quad Smithburg 7.5' Pad Name Peggy June Field/Pool Name ----  
Farm name Samuel and Peggy Smith Well Number Fraley 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 4350467m Easting 521866m  
Landing Point of Curve Northing 4350954.18m Easting 521549.49m  
Bottom Hole Northing 4353002m Easting 520923m

Elevation (ft) 1275' 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 1/28/2020 Date drilling commenced 2/27/2020 Date drilling ceased 2/15/2021  
Date completion activities began 4/13/2021 Date completion activities ceased 5/26/2021  
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 320' Open mine(s) (Y/N) depths No  
Salt water depth(s) ft 1603' Void(s) encountered (Y/N) depths No  
Coal depth(s) ft 1601' Cavern(s) encountered (Y/N) depths No  
Is coal being mined in area (Y/N) No

Reviewed

Reviewed by:  
SOE  
9/8/21  
10/01/2021

API 47- 017 - 06896 Farm name Samuel and Peggy Smith Well number Fraley Unit 1H

| 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                 | 24"           | 20"         | 80'    | New         | 94#, H-40   | N/A             | Y   |
| Surface                   | 17-1/2"       | 13-3/8"     | 446'   | New         | 54.5#, J-55 | N/A             | Y   |
| Coal                      |               |             |        |             |             |                 |   |
| Intermediate 1            | 12-1/4"       | 9-5/8"      | 2562'  | New         | 36#, K-55   | N/A             | Y   |
| Intermediate 2            |               |             |        |             |             |                 |   |
| Intermediate 3            |               |             |        |             |             |                 |   |
| Production                | 8-3/4"/8-1/2" | 5-1/2"      | 15942' | New         | 20#,P-110   | N/A             | Y   |
| Tubing                    |               | 2-3/8"      | 7157'  |             | 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              | 204 sx                       | 15.6                    | 1.20                         | 43                        | 0'                             | 8 Hrs.    |
| Surface        | Class A              | 407 sx                       | 15.6                    | 1.20                         | 87                        | 0'                             | 8 Hrs.    |
| Coal           |                      |                              |                         |                              |                           |                                |           |
| Intermediate 1 | Class A              | 877 sx                       | 15.6                    | 1.19                         | 186                       | 0'                             | 8 Hrs.    |
| Intermediate 2 |                      |                              |                         |                              |                           |                                |           |
| Intermediate 3 |                      |                              |                         |                              |                           |                                |           |
| Production     | Class H              | 792 sx (Lead) 2310 sx (Tail) | 13.5 (Lead), 15.2(Tail) | 1.4 (Lead), 1.32 (Tail)      | 541                       | ~500' into Intermediate Casing | 8 Hrs.    |
| Tubing         |                      |                              |                         |                              |                           |                                |           |

Drillers TD (ft) 16036' MD, 7082' TVD (BHL), 7081' (Deepest Point Drilled) Loggers TD (ft) 16036' MD  
 Deepest formation penetrated Marcellus Plug back to (ft) N/A  
 Plug back procedure N/A

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Kick off depth (ft) 6165'

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

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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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API 47- 017 - 06896 Farm name Samuel and Peggy Smith Well number Fraley Unit 1H

| PRODUCING FORMATION(S) | DEPTHS      |     |                |
|------------------------|-------------|-----|----------------|
|                        | 6922' (TOP) | TVD | 7229' (TOP) MD |
| Marcellus              |             |     |                |
|                        |             |     |                |
|                        |             |     |                |

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

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

OPEN FLOW Gas 7827 mcfpd Oil 60 bpd NGL --- bpd Water 2909 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

| LITHOLOGY/<br>FORMATION | TOP                     |                    | BOTTOM            |                   | DESCRIBE ROCK TYPE AND RECORD QUANTITY AND<br>TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC) |
|-------------------------|-------------------------|--------------------|-------------------|-------------------|--|
|                         | DEPTH IN FT<br>NAME TVD | DEPTH IN FT<br>TVD | DEPTH IN FT<br>MD | DEPTH IN FT<br>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 Halliburton Energy Services  
Address 300 W. Sam Houston Pkwy City Houston State TX Zip 76114

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

Please insert additional pages as applicable.

Completed by Brandi Hankins Telephone 303-357-7223  
Signature [Signature] Title Completions Technician Date 8/27/2021

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

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API 47-017-06896 Farm Name Samuel and Peggy Smith Well Number Fraley Unit 1H

| Stage No. | Perforation Date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formations |
|-----------|------------------|------------------------|----------------------|------------------------|------------|
| 1         | 4/14/2021        | 15874                  | 15830                | 36                     | Marcellus  |
| 2         | 4/14/2021        | 15789.09244            | 15575.6471           | 36                     | Marcellus  |
| 3         | 4/14/2021        | 15537.7395             | 15324.2941           | 36                     | Marcellus  |
| 4         | 4/14/2021        | 15286.38655            | 15072.9412           | 36                     | Marcellus  |
| 5         | 4/15/2021        | 15035.03361            | 14821.5882           | 36                     | Marcellus  |
| 6         | 4/15/2021        | 14783.68067            | 14570.2353           | 36                     | Marcellus  |
| 7         | 4/15/2021        | 14532.32773            | 14318.8824           | 36                     | Marcellus  |
| 8         | 4/15/2021        | 14280.97479            | 14067.5294           | 36                     | Marcellus  |
| 9         | 4/16/2021        | 14029.62185            | 13816.1765           | 36                     | Marcellus  |
| 10        | 4/16/2021        | 13778.26891            | 13564.8235           | 36                     | Marcellus  |
| 11        | 4/16/2021        | 13526.91597            | 13313.4706           | 36                     | Marcellus  |
| 12        | 4/16/2021        | 13275.56303            | 13062.1176           | 36                     | Marcellus  |
| 13        | 4/17/2021        | 13024.21008            | 12810.7647           | 36                     | Marcellus  |
| 14        | 4/17/2021        | 12772.85714            | 12559.4118           | 36                     | Marcellus  |
| 15        | 4/17/2021        | 12521.5042             | 12308.0588           | 36                     | Marcellus  |
| 16        | 4/17/2021        | 12270.15126            | 12056.7059           | 36                     | Marcellus  |
| 17        | 4/17/2021        | 12018.79832            | 11805.3529           | 36                     | Marcellus  |
| 18        | 4/18/2021        | 11767.44538            | 11554                | 36                     | Marcellus  |
| 19        | 4/18/2021        | 11516.09244            | 11302.6471           | 36                     | Marcellus  |
| 20        | 4/18/2021        | 11264.7395             | 11051.2941           | 36                     | Marcellus  |
| 21        | 4/18/2021        | 11013.38655            | 10799.9412           | 36                     | Marcellus  |
| 22        | 4/18/2021        | 10762.03361            | 10548.5882           | 36                     | Marcellus  |
| 23        | 4/19/2021        | 10510.68067            | 10297.2353           | 36                     | Marcellus  |
| 24        | 4/19/2021        | 10259.32773            | 10045.8824           | 36                     | Marcellus  |
| 25        | 4/19/2021        | 10007.97479            | 9794.52941           | 36                     | Marcellus  |
| 26        | 4/19/2021        | 9756.621849            | 9543.17647           | 36                     | Marcellus  |
| 27        | 4/20/2021        | 9505.268908            | 9291.82353           | 36                     | Marcellus  |
| 28        | 4/20/2021        | 9253.915966            | 9040.47059           | 36                     | Marcellus  |
| 29        | 4/20/2021        | 9002.563025            | 8789.11765           | 36                     | Marcellus  |
| 30        | 4/20/2021        | 8751.210084            | 8537.76471           | 36                     | Marcellus  |
| 31        | 4/21/2021        | 8499.857143            | 8286.41176           | 36                     | Marcellus  |
| 32        | 4/21/2021        | 8248.504202            | 8035.05882           | 36                     | Marcellus  |
| 33        | 4/21/2021        | 7997.151261            | 7783.70588           | 36                     | Marcellus  |
| 34        | 4/21/2021        | 7745.798319            | 7532.35294           | 36                     | Marcellus  |
| 35        | 4/21/2021        | 7494.445378            | 7281                 | 36                     | 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         | 4/14/2021         | 21.39         | 8611                         | 8960                         | 5503       | 0                        | 115804                 | N/A                               |
| 2         | 4/14/2021         | 84.89         | 8592                         | 5800                         | 3916       | 508061                   | 371056                 | N/A                               |
| 3         | 4/14/2021         | 90.47         | 8589                         | 5486                         | 4354       | 507900                   | 372277                 | N/A                               |
| 4         | 4/14/2021         | 95.44         | 8744                         | 5199                         | 4149       | 505179                   | 382144                 | N/A                               |
| 5         | 4/15/2021         | 94.97         | 8750                         | 5164                         | 4381       | 505215                   | 381391                 | N/A                               |
| 6         | 4/15/2021         | 96.25         | 8646                         | 5170                         | 4494       | 505040                   | 376074                 | N/A                               |
| 7         | 4/15/2021         | 94.79         | 8760                         | 7402                         | 4332       | 501940                   | 362870                 | N/A                               |
| 8         | 4/15/2021         | 94.55         | 8745                         | 5426                         | 4706       | 504834                   | 363064                 | N/A                               |
| 9         | 4/16/2021         | 92.16         | 8874                         | 6150                         | 4403       | 500666                   | 357426                 | N/A                               |
| 10        | 4/16/2021         | 96.12         | 8669                         | 5510                         | 4517       | 505040                   | 360857                 | N/A                               |
| 11        | 4/16/2021         | 98.84         | 8786                         | 5910                         | 4124       | 505280                   | 368919                 | N/A                               |
| 12        | 4/16/2021         | 98.84         | 8746                         | 5726                         | 4115       | 505097                   | 360629                 | N/A                               |
| 13        | 4/17/2021         | 98.4          | 8669                         | 4978                         | 4609       | 506463                   | 364706                 | N/A                               |
| 14        | 4/17/2021         | 98.54         | 8592                         | 5554                         | 4553       | 504517                   | 356847                 | N/A                               |
| 15        | 4/17/2021         | 99.62         | 8467                         | 6778                         | 4058       | 509140                   | 361574                 | N/A                               |
| 16        | 4/17/2021         | 99.28         | 8615                         | 5585                         | 4206       | 506580                   | 358377                 | N/A                               |
| 17        | 4/17/2021         | 99.39         | 8541                         | 5451                         | 4169       | 508994                   | 360596                 | N/A                               |
| 18        | 4/18/2021         | 98.94         | 8452                         | 5424                         | 4295       | 506553                   | 361511                 | N/A                               |
| 19        | 4/18/2021         | 90.45         | 8649                         | 5527                         | 4100       | 506223                   | 355067                 | N/A                               |
| 20        | 4/18/2021         | 99.85         | 8517                         | 5195                         | 4477       | 501340                   | 355562                 | N/A                               |
| 21        | 4/18/2021         | 99.07         | 8254                         | 5391                         | 4667       | 504880                   | 354965                 | N/A                               |
| 22        | 4/18/2021         | 97.48         | 7607                         | 5569                         | 4210.29    | 504932                   | 366192                 | N/A                               |
| 23        | 4/19/2021         | 97.98         | 8061                         | 5963                         | 4155       | 508528                   | 362403                 | N/A                               |
| 24        | 4/19/2021         | 79.65         | 8212                         | 6654                         | 5030       | 505200                   | 462615                 | N/A                               |
| 25        | 4/19/2021         | 98.84         | 8164                         | 5854                         | 4351       | 505380                   | 353967                 | N/A                               |
| 26        | 4/19/2021         | 100.17        | 7788                         | 6108                         | 4379       | 505360                   | 354768                 | N/A                               |
| 27        | 4/20/2021         | 95.54         | 7698                         | 5537                         | 4568       | 505354                   | 355403                 | N/A                               |
| 28        | 4/20/2021         | 82.41         | 8348                         | 5784                         | 4657       | 504839                   | 348476                 | N/A                               |
| 29        | 4/20/2021         | 98.92         | 7588                         | 6456                         | 4121       | 505267                   | 354155                 | N/A                               |
| 30        | 4/20/2021         | 99.7          | 7540                         | 5639                         | 4318       | 505145                   | 354398                 | N/A                               |
| 31        | 4/21/2021         | 100.06        | 7465                         | 5875                         | 4110       | 505234                   | 356004                 | N/A                               |
| 32        | 4/21/2021         | 98.65         | 7326                         | 6947                         | 4294       | 505125                   | 353982                 | N/A                               |
| 33        | 4/21/2021         | 99.47         | 7250                         | 6811                         | 4093       | 505069                   | 362124                 | N/A                               |
| 34        | 4/21/2021         | 99.18         | 7151                         | 6872                         | 4125       | 505315                   | 365996                 | N/A                               |
| 35        | 4/21/2021         | 99.75         | 7075                         | 6227                         | 4293       | 505143                   | 372393                 | N/A                               |
|           | AVG=              | 94            | 8,244                        | 5,945                        | 4,367      | 17,184,833               | 12,524,592             | 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      |
| Shaley Siltstone                   | 120             | 210                | 120            | 210               |
| Shale                              | 210             | 390                | 210            | 390               |
| Silty Shale                        | 390             | 480                | 390            | 480               |
| Shale                              | 480             | 810                | 480            | 810               |
| Silty Shale                        | 810             | 840                | 810            | 840               |
| Shaley Sandstone                   | 840             | 960                | 840            | 960               |
| Shaley Sandstone                   | 960             | 1,050              | 960            | 1,050             |
| Shale                              | 1,050           | 1,110              | 1,050          | 1,110             |
| Sandy Shale                        | 1,110           | 1,230              | 1,110          | 1,230             |
| Shaley Sandstone                   | 1,230           | 1,290              | 1,230          | 1,290             |
| Sandstone, Tr Shale, Tr Silt       | 1,290           | 1,710              | 1,290          | 1,710             |
| Shaley Sandstone, Occ Coal         | 1,710           | 1,890              | 1,710          | 1,890             |
| Sandy Shale, Tr Coal, Tr Limestone | 1,890           | 2,137              | 1,890          | 2,137             |
| Big Lime                           | 2,167           | 2,768              | 2,167          | 2,768             |
| Fifty Foot Sandstone               | 2,768           | 2,849              | 2,768          | 2,850             |
| Gordon                             | 2,849           | 3,135              | 2,850          | 3,136             |
| Fifth Sandstone                    | 3,135           | 3,338              | 3,136          | 3,339             |
| Bayard                             | 3,338           | 3,979              | 3,339          | 3,982             |
| Speechley                          | 3,979           | 4,266              | 3,982          | 4,274             |
| Balltown                           | 4,266           | 4,677              | 4,274          | 4,695             |
| Bradford                           | 4,677           | 5,155              | 4,695          | 5,186             |
| Benson                             | 5,155           | 5,450              | 5,186          | 5,490             |
| Alexander                          | 5,450           | 6,723              | 5,490          | 6,835             |
| Sycamore                           | 6,476           | 6,693              | 6,553          | 6,805             |
| Middlesex                          | 6,693           | 6,834              | 6,805          | 7,020             |
| Burkett                            | 6,834           | 6,863              | 7,020          | 7,074             |
| Tully                              | 6,863           | 6,922              | 7,074          | 7,229             |
| Marcellus                          | 6,922           | NA                 | 7,229          | 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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