

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

API 47-095-02568 County Tyler District Ellsworth
Quad Middlebourne 7.5' Pad Name Ferrell Pad Field/Pool Name -----
Farm name Antero Resources Midstream LLC Well Number Daniels Unit 3H
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 4369189.955m Easting 507136.998m
Landing Point of Curve Northing 4369338.21m Easting 507799.68m
Bottom Hole Northing 4365716.759m Easting 509060.093m

Elevation (ft) 731.4' 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 1/25/2019 Date drilling commenced 6/21/2019 Date drilling ceased 11/1/2019
Date completion activities began 2/27/2020 Date completion activities ceased 3/30/2020
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A RECEIVED
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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug **SEP 24 2020**
Freshwater depth(s) ft 194', 243' Open mine(s) (Y/N) depths No WV Department of Environmental Protection
Salt water depth(s) ft 1224', 1347' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 770' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:
JEB
10/15/2020

API 47-095 - 02568 Farm name Antero Resources Midstream LLC Well number Daniels Unit 3H

| 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 | 24" | 20" | 110' | New | 94#, H-40 | N/A | Y |
| Surface | 17-1/2" | 13-3/8" | 397' | New | 54#, J-55 | N/A | Y |
| Coal | | | | | | | |
| Intermediate 1 | 12-1/4" | 9-5/8" | 2664' | New | 36#, H-40 | N/A | Y |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | 8-3/4"/8-1/2" | 5-1/2" | 19825' | New | 23#, P-110 | N/A | Y |
| Tubing | | 2-3/8" | 6785' | | 4.7#, N-80 | | |
| 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 | 204 sx | 15.6 | 1.18 | 244 | 0' | 8 Hrs. |
| Surface | Class A | 350 sx | 15.6 | 1.19 | 402 | 0' | 8 Hrs. |
| Coal | | | | | | | |
| Intermediate 1 | Class A | 915 sx | 15.6 | 1.18 | 1047 | 0' | 8 Hrs. |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | Class H | 798 sx (Lead) 3083 sx (Tail) | 13.5 (Lead), 15.2 (Tail) | 1.53 (Lead), 1.83 (Tail) | 2819 | ~500' into Intermediate Casing | 8 Hrs. |
| Tubing | | | | | | | |

Drillers TD (ft) 19845' MD, 6197' TVD (BHL), 6198' (Deepest Point Drilled) Loggers TD (ft) 19845' MD

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 5781'

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

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

Conductor - 0
Surface - 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface
Intermediate - 1 above float joint, 1 above float collar, 1 every 4th joint to surface
Production - 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

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API 47- 095 - 02568 Farm name Antero Resources Midstream LLC Well number Daniels Unit 3H

PERFORATION RECORD

| Stage No. | Perforation date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formation(s) |
|---------------------------------------|------------------|------------------------|----------------------|------------------------|--------------|
| *PLEASE SEE ATTACHED EXHIBIT 1 | | | | | |
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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) |
|---------------------------------------|-------------------|---------------------|------------------------------|------------------------------|------------|--------------------------|------------------------|----------------------------------|
| *PLEASE SEE ATTACHED EXHIBIT 2 | | | | | | | | |
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Please insert additional pages as applicable.

API 47- 095 - 02568 Farm name Antero Resources Midstream LLC Well number Daniels Unit 3H

| PRODUCING FORMATION(S) | DEPTHS | | |
|------------------------|-------------|-----|----------------|
| Marcellus | 6039' (TOP) | TVD | 6834' (TOP) MD |
| | | | |
| | | | |
| | | | |

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 2813 mcfpd Oil 122 bpd NGL --- bpd Water 329 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 Frontier Drilling LLC
Address 562 Spring Run Road City Pennsboro State WV Zip 26415

Logging Company Nine Energy Services
Address 125 Museum Road City Washington State PA Zip 15301

Cementing Company C&J Energy Services
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

Stimulating Company Baker Hughes
Address 837 Philippi Pike City Clarksburg State WV Zip 26304

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Environment

Please insert additional pages as applicable.

Completed by Megan Griffith Telephone 303-357-7223
Signature [Signature] Title Permitting Agent Date 6/19/20

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

API 47-095-02568 Farm Name Antero Midstream LLC Well Number Daniels Unit 3H

EXHIBIT 1

| Stage No. | Perforation Date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formations |
|-----------|------------------|------------------------|----------------------|------------------------|------------|
| 1 | 1/24/2020 | 19725 | 19682 | 60 | Marcellus |
| 2 | 1/25/2020 | 19643.15608 | 19475.9365 | 60 | Marcellus |
| 3 | 1/25/2020 | 19440.09259 | 19272.873 | 60 | Marcellus |
| 4 | 1/25/2020 | 19237.0291 | 19069.8095 | 60 | Marcellus |
| 5 | 1/26/2020 | 19033.96561 | 18866.746 | 60 | Marcellus |
| 6 | 1/26/2020 | 18830.90212 | 18663.6825 | 60 | Marcellus |
| 7 | 1/26/2020 | 18627.83862 | 18460.619 | 60 | Marcellus |
| 8 | 1/26/2020 | 18424.77513 | 18257.5556 | 60 | Marcellus |
| 9 | 1/27/2020 | 18221.71164 | 18054.4921 | 60 | Marcellus |
| 10 | 1/27/2020 | 18018.64815 | 17851.4286 | 60 | Marcellus |
| 11 | 1/27/2020 | 17815.58466 | 17648.3651 | 60 | Marcellus |
| 12 | 1/28/2020 | 17612.52116 | 17445.3016 | 60 | Marcellus |
| 13 | 1/28/2020 | 17409.45767 | 17242.2381 | 60 | Marcellus |
| 14 | 1/28/2020 | 17206.39418 | 17039.1746 | 60 | Marcellus |
| 15 | 1/28/2020 | 17003.33069 | 16836.1111 | 60 | Marcellus |
| 16 | 1/29/2020 | 16800.2672 | 16633.0476 | 60 | Marcellus |
| 17 | 1/29/2020 | 16597.2037 | 16429.9841 | 60 | Marcellus |
| 18 | 1/29/2020 | 16394.14021 | 16226.9206 | 60 | Marcellus |
| 19 | 1/30/2020 | 16191.07672 | 16023.8571 | 60 | Marcellus |
| 20 | 1/30/2020 | 15988.01323 | 15820.7937 | 60 | Marcellus |
| 21 | 1/30/2020 | 15784.94974 | 15617.7302 | 60 | Marcellus |
| 22 | 1/30/2020 | 15581.88624 | 15414.6667 | 60 | Marcellus |
| 23 | 1/31/2020 | 15378.82275 | 15211.6032 | 60 | Marcellus |
| 24 | 1/31/2020 | 15175.75926 | 15008.5397 | 60 | Marcellus |
| 25 | 1/31/2020 | 14972.69577 | 14805.4762 | 60 | Marcellus |
| 26 | 2/1/2020 | 14769.63228 | 14602.4127 | 60 | Marcellus |
| 27 | 2/1/2020 | 14566.56878 | 14399.3492 | 60 | Marcellus |
| 28 | 2/1/2020 | 14363.50529 | 14196.2857 | 60 | Marcellus |
| 29 | 2/1/2020 | 14160.4418 | 13993.2222 | 60 | Marcellus |
| 30 | 2/1/2020 | 13957.37831 | 13790.1587 | 60 | Marcellus |
| 31 | 2/2/2020 | 13754.31481 | 13587.0952 | 60 | Marcellus |
| 32 | 2/2/2020 | 13551.25132 | 13384.0317 | 60 | Marcellus |
| 33 | 2/2/2020 | 13348.18783 | 13180.9683 | 60 | Marcellus |
| 34 | 2/2/2020 | 13145.12434 | 12977.9048 | 60 | Marcellus |
| 35 | 2/3/2020 | 12942.06085 | 12774.8413 | 60 | Marcellus |
| 36 | 2/3/2020 | 12738.99735 | 12571.7778 | 60 | Marcellus |
| 37 | 2/3/2020 | 12535.93386 | 12368.7143 | 60 | Marcellus |
| 38 | 2/4/2020 | 12332.87037 | 12165.6508 | 60 | Marcellus |
| 39 | 2/4/2020 | 12129.80688 | 11962.5873 | 60 | Marcellus |
| 40 | 2/4/2020 | 11926.74339 | 11759.5238 | 60 | Marcellus |
| 41 | 2/4/2020 | 11723.67989 | 11556.4603 | 60 | Marcellus |
| 42 | 2/5/2020 | 11520.6164 | 11353.3968 | 60 | Marcellus |
| 43 | 2/5/2020 | 11317.55291 | 11150.3333 | 60 | Marcellus |
| 44 | 2/5/2020 | 11114.48942 | 10947.2698 | 60 | Marcellus |
| 45 | 2/5/2020 | 10911.42593 | 10744.2063 | 60 | Marcellus |
| 46 | 2/5/2020 | 10708.36243 | 10541.1429 | 60 | Marcellus |
| 47 | 2/6/2020 | 10505.29894 | 10338.0794 | 60 | Marcellus |
| 48 | 2/6/2020 | 10302.23545 | 10135.0159 | 60 | Marcellus |
| 49 | 2/6/2020 | 10099.17196 | 9931.95238 | 60 | Marcellus |
| 50 | 2/6/2020 | 9896.108466 | 9728.88889 | 60 | Marcellus |
| 51 | 2/7/2020 | 9693.044974 | 9525.8254 | 60 | Marcellus |
| 52 | 2/7/2020 | 9489.981481 | 9322.7619 | 60 | Marcellus |
| 53 | 2/7/2020 | 9286.917989 | 9119.69841 | 60 | Marcellus |
| 54 | 2/7/2020 | 9083.854497 | 8916.63492 | 60 | Marcellus |
| 55 | 2/7/2020 | 8880.791005 | 8713.57143 | 60 | Marcellus |
| 56 | 2/8/2020 | 8677.727513 | 8510.50794 | 60 | Marcellus |
| 57 | 2/8/2020 | 8474.664021 | 8307.44444 | 60 | Marcellus |
| 58 | 2/8/2020 | 8271.600529 | 8104.38095 | 60 | Marcellus |
| 59 | 2/8/2020 | 8068.537037 | 7901.31746 | 60 | Marcellus |
| 60 | 2/9/2020 | 7865.473545 | 7698.25397 | 60 | Marcellus |
| 61 | 2/9/2020 | 7662.410053 | 7495.19048 | 60 | Marcellus |
| 62 | 2/9/2020 | 7459.346561 | 7292.12698 | 60 | Marcellus |
| 63 | 2/9/2020 | 7256.283069 | 7089.06349 | 60 | Marcellus |
| 64 | 2/9/2020 | 7053.219577 | 6886 | 60 | Marcellus |

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EXHIBIT 2

| Stage No. | Stimulations Date | Avg Pump Rate | Avg Treatment Pressure (PSI) | Max Breakdown Pressure (PSI) | ISIP (PSI) | Amount of Proppant (lbs) | Amount of Water (bbbls) | Amount of Nitrogen/ other (units) |
|-----------|-------------------|---------------|------------------------------|------------------------------|--------------|--------------------------|-------------------------|-----------------------------------|
| 1 | 1/24/2020 | 64.62225 | 7739.667 | 9452 | 4255 | 201480 | 5623.476 | N/A |
| 2 | 1/25/2020 | 62.04959 | 8037.382 | 6269 | 4221 | 400580 | 7410.276 | N/A |
| 3 | 1/25/2020 | 79.01679 | 7904.526 | 5844 | 4623 | 401560 | 7601.03 | N/A |
| 4 | 1/25/2020 | 75.71407 | 7955.149 | 5541 | 4086 | 402540 | 7273.96 | N/A |
| 5 | 1/26/2020 | 73.4669 | 7744.447 | 5643 | 3808 | 401500 | 7138.16 | N/A |
| 6 | 1/26/2020 | 82.8 | 8499 | 5720 | 3861 | 405000 | 7250.95 | N/A |
| 7 | 1/26/2020 | 83.6 | 8065 | 6422 | 3892 | 403130 | 8321.18 | N/A |
| 8 | 1/26/2020 | 83.7 | 8236 | 5678 | 4144 | 396860 | 7967.29 | N/A |
| 9 | 1/27/2020 | 83.35 | 8161.61 | 5929 | 3856 | 403260 | 7157.87 | N/A |
| 10 | 1/27/2020 | 80.1 | 8253 | 5968 | 4100 | 401900 | 7221.5 | N/A |
| 11 | 1/27/2020 | 78.9 | 8270 | 6096 | 3383 | 401820 | 7163.41 | N/A |
| 12 | 1/28/2020 | 80.3 | 8251 | 6399 | 3464 | 400360 | 7058.18 | N/A |
| 13 | 1/28/2020 | 79.5 | 8268 | 6105 | 4168 | 399560 | 7071.51 | N/A |
| 14 | 1/28/2020 | 82.8 | 8142 | 5775 | 4035 | 401380 | 7062.99 | N/A |
| 15 | 1/28/2020 | 80.3 | 8405 | 6234 | 3298 | 403080 | 7102.86 | N/A |
| 16 | 1/29/2020 | 84.9 | 8313 | 6106 | 3376 | 403220 | 7058.43 | N/A |
| 17 | 1/29/2020 | 83.9 | 8263 | 5836 | 3821 | 405420 | 7027.46 | N/A |
| 18 | 1/29/2020 | 85.6 | 8267 | 6321 | 3787 | 403080 | 7048.01 | N/A |
| 19 | 1/30/2020 | 85.8 | 8227 | 6388 | 3608 | 402540 | 7063.11 | N/A |
| 20 | 1/30/2020 | 84.97 | 8439 | 5728 | 4196 | 404640 | 7158.35 | N/A |
| 21 | 1/30/2020 | 86.1 | 8236 | 6165 | 3817 | 405920 | 7161.46 | N/A |
| 22 | 1/30/2020 | 84.7 | 8301 | 6405 | 3753 | 404480 | 7164.72 | N/A |
| 23 | 1/31/2020 | 84.7 | 8279 | 6613 | 3634 | 400060 | 6997.19 | N/A |
| 24 | 1/31/2020 | 86.2 | 8290 | 6001 | 3540 | 408240 | 7244.1 | N/A |
| 25 | 1/31/2020 | 83.3 | 8313 | 6268 | 3579 | 409080 | 7047.88 | N/A |
| 26 | 2/1/2020 | 85.5 | 8340 | 5961 | 3347 | 407080 | 7023.39 | N/A |
| 27 | 2/1/2020 | 86.9 | 8213 | 5883 | 4519 | 405260 | 7022.25 | N/A |
| 28 | 2/1/2020 | 85.3 | 8261 | 5598 | 3819 | 407980 | 6978.61 | N/A |
| 29 | 2/1/2020 | 85.1 | 8205 | 5662 | 3405 | 405100 | 6982.21 | N/A |
| 30 | 2/1/2020 | 83.6 | 8037 | 5007 | 3695 | 399680 | 7018.3 | N/A |
| 31 | 2/2/2020 | 82.1 | 8360 | 6249 | 3524 | 400080 | 8765.8 | N/A |
| 32 | 2/2/2020 | 85.2 | 8245 | 5799 | 3368 | 402000 | 6942.05 | N/A |
| 33 | 2/2/2020 | 84.5 | 8128 | 5384 | 3434 | 404860 | 7035.42 | N/A |
| 34 | 2/2/2020 | 85.9 | 8136 | 6141 | 3362 | 404360 | 6848.83 | N/A |
| 35 | 2/3/2020 | 85.7 | 8188 | 4862 | 3463 | 398160 | 6866.64 | N/A |
| 36 | 2/3/2020 | 84.8 | 8159 | 5903 | 3623 | 395240 | 6823.89 | N/A |
| 37 | 2/3/2020 | 85.3 | 7985 | 6506 | 3456 | 395900 | 6855.34 | N/A |
| 38 | 2/4/2020 | 85.4 | 7937 | 5324 | 3860 | 398600 | 6857.16 | N/A |
| 39 | 2/4/2020 | 84.8 | 8189 | 5693 | 3611 | 400160 | 6818.26 | N/A |
| 40 | 2/4/2020 | 85.8 | 7972 | 4816 | 3927 | 402040 | 8642.71 | N/A |
| 41 | 2/4/2020 | 88.4 | 7885 | 5260 | 4057 | 406600 | 6793.48 | N/A |
| 42 | 2/5/2020 | 88 | 8070 | 4779 | 4041 | 399880 | 6744.28 | N/A |
| 43 | 2/5/2020 | 87.4 | 8238 | 5082 | 3464 | 400960 | 6801.93 | N/A |
| 44 | 2/5/2020 | 86.2 | 7949 | 5488 | 3421 | 398340 | 6720.43 | N/A |
| 45 | 2/5/2020 | 87.1 | 7826 | 4824 | 3623 | 399100 | 6874.85 | N/A |
| 46 | 2/5/2020 | 87.4 | 7950 | 5727 | 3939 | 407060 | 6806.02 | N/A |
| 47 | 2/6/2020 | 62.3 | 7521 | 4833 | 3802 | 400400 | 6806.32 | N/A |
| 48 | 2/6/2020 | 85.3 | 7628 | 5417 | 3447 | 402960 | 6832.34 | N/A |
| 49 | 2/6/2020 | 87 | 7514 | 5815 | 3397 | 416050 | 6924.35 | N/A |
| 50 | 2/6/2020 | 88.9 | 7541 | 6408 | 3502 | 406400 | 6765.29 | N/A |
| 51 | 2/7/2020 | 87.6 | 7451 | 6417 | 3478 | 404720 | 6727.59 | N/A |
| 52 | 2/7/2020 | 87.3 | 7918 | 6170 | 3627 | 400380 | 6693.67 | N/A |
| 53 | 2/7/2020 | 89.2 | 8030 | 5710 | 3889 | 405280 | 6787.11 | N/A |
| 54 | 2/7/2020 | 88.4 | 7856 | 5433 | 3864 | 404020 | 6680.56 | N/A |
| 55 | 2/7/2020 | 87.6 | 7394 | 6301 | 3990 | 406360 | 6747.75 | N/A |
| 56 | 2/8/2020 | 87.5 | 7742 | 5759 | 3898 | 407740 | 6741.49 | N/A |
| 57 | 2/8/2020 | 84.4 | 7551 | 5795 | 3596 | 406860 | 6693.7 | N/A |
| 58 | 2/8/2020 | 84.4 | 7551 | 5819 | 4007 | 405000 | 6705.55 | N/A |
| 59 | 2/8/2020 | 87.6 | 7153 | 5129 | 3797 | 403640 | 6649.62 | N/A |
| 60 | 2/9/2020 | 87.5 | 7337 | 5619 | 3840 | 403120 | 6614.92 | N/A |
| 61 | 2/9/2020 | 87.2 | 7140 | 6278 | 3624 | 403180 | 6610.35 | N/A |
| 62 | 2/9/2020 | 88.6 | 7322 | 6149 | 4198 | 399800 | 6656.73 | N/A |
| 63 | 2/9/2020 | 88.6 | 7210 | 5344 | 4243 | 401560 | 6643.83 | N/A |
| 64 | 2/9/2020 | 87.4 | 6900 | 6027 | 3685 | 401220 | 6593.01 | N/A |
| | AVG= | 82.6 | 8,173 | 5,974 | 3,775 | 16,303,790 | 293,670 | TOTAL |

REGISTRATION
Office of Oil and Gas
SEP 24 2020
WV Department of Environmental Protection

EXHIBIT 3

| LITHOLOGY/ FORMATION | TOP DEPTH (TVD) From Surface | BOTTOM DEPTH (TVD) From Surface | TOP DEPTH (MD) From Surface | BOTTOM DEPTH (MD) From Surface |
|----------------------|---------------------------------|------------------------------------|--------------------------------|-----------------------------------|
| Silty Sandstone | 75 | 175 | 75 | 175 |
| Siltstone | 175 | 275 | 175 | 275 |
| Shaly Siltstone | 275 | 335 | 275 | 335 |
| Silty Shale | 335 | 555 | 335 | 555 |
| Silty Sandstone | 555 | 575 | 555 | 575 |
| Shale | 575 | 955 | 575 | 955 |
| Shaly Sandstone | 955 | 1,035 | 955 | 1,035 |
| Sandstone | 1,035 | 1,215 | 1,035 | 1,215 |
| Sandy Shale | 1,215 | 1,255 | 1,215 | 1,255 |
| Shaly Siltstone | 1,255 | 1,315 | 1,255 | 1,315 |
| Sandstone | 1,315 | 1,435 | 1,315 | 1,435 |
| Shaly Sandstone | 1,435 | 1,515 | 1,435 | 1,515 |
| Sandy Shale | 1,515 | 1,526 | 1,515 | N/A |
| Big Lime | 1,541 | 2,104 | 1,566 | 2,183 |
| Fifty Foot Sandstone | 2,104 | 2,340 | 2,168 | 2,432 |
| Gordon | 2,340 | 2,639 | 2,417 | 2,744 |
| Fifth Sandstone | 2,639 | 2,746 | 2,729 | 2,856 |
| Bayard | 2,746 | 3,588 | 2,841 | 3,819 |
| Speechley | 3,588 | 3,707 | 3,804 | 3,957 |
| Balltown | 3,707 | 4,212 | 3,942 | 4,538 |
| Bradford | 4,212 | 4,521 | 4,523 | 4,890 |
| Benson | 4,521 | 4,881 | 4,875 | 5,305 |
| Alexander | 4,881 | 5,932 | 5,290 | 6,565 |
| Sycamore | 5,803 | 5,902 | 6,402 | 6,535 |
| Middlesex | 5,902 | 5,993 | 6,550 | 6,713 |
| Burkett | 5,993 | 6,013 | 6,728 | 6,762 |
| Tully | 6,013 | 6,039 | 6,777 | 6,834 |
| Marcellus | 6,039 | NA | 6,834 | 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: | 1/24/2020 |
| Job End Date: | 2/9/2020 |
| State: | West Virginia |
| County: | Tyler |
| API Number: | 47-095-02568-00-00 |
| Operator Name: | Antero Resources Corporation |
| Well Name and Number: | Daniels Unit 3H |
| Latitude: | 39.47219000 |
| Longitude: | -80.91719000 |
| Datum: | NAD83 |
| Federal Well: | NO |
| Indian Well: | NO |
| True Vertical Depth: | 6,207 |
| Total Base Water Volume (gal): | 20,032,489 |
| Total Base Non Water Volume: | 0 |

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SEP 24 2020
WV Department of Environmental Protection



Hydraulic Fracturing Fluid Composition:

| Trade Name | Supplier | Purpose | Ingredients | Chemical Abstract Service Number (CAS #) | Maximum Ingredient Concentration in Additive (% by mass)** | Maximum Ingredient Concentration in HF Fluid (% by mass)** | Comments |
|-------------|----------------------|------------|-------------|--|--|--|----------|
| Water | Supplied by Operator | Base Fluid | Water | 7732-18-5 | 100.00000 | 86.44849 | |
| CalGel 4000 | CWS | Gel Slurry | | | | | |
| | | | | Listed Below | | | |

| Sand (Proppant) | CWS | Propping Agent | | | | | | | |
|--|--------------|-------------------------|-----------------------------|------------|--------------|-----------|--|----------|--|
| | | | | | Listed Below | | | | |
| CI-9100G | CWS | Corrosion Inhibitor | | | | | | | |
| | | | | | Listed Below | | | | |
| SaniFrac 8123 | CWS | Microbiocide | | | | | | | |
| | | | | | Listed Below | | | | |
| Calbreak 5501 | CWS | Breaker | | | | | | | |
| | | | | | Listed Below | | | | |
| Hydrochloric Acid | CWS | Clean Perforations | | | | | | | |
| | | | | | Listed Below | | | | |
| Other Chemical (s) | Listed Above | See Trade Name (s) List | | | | | | | |
| | | | | | 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 | | 13.23288 | |
| | | | Illite | 12173-60-3 | | 1.00000 | | 0.13232 | |
| | | | Hydrochloric acid | 7647-01-0 | | 37.00000 | | 0.11154 | |
| | | | Ilmenite | 98072-94-7 | | 0.10000 | | 0.01323 | |
| | | | Biotite | 1302-27-8 | | 0.10000 | | 0.01323 | |
| | | | Apatite | 64476-38-6 | | 0.10000 | | 0.01323 | |
| | | | Goethite | 1310-14-1 | | 0.10000 | | 0.01323 | |
| | | | Guar gum | 9000-30-0 | | 60.00000 | | 0.00911 | |

Office of Oil and Gas
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| | | | | | | | |
|--|--|--|--|--|------------|-----------|---------|
| | | | | | 64742-46-7 | 60.00000 | 0.00911 |
| | | | | Distillates (petroleum), hydrotreated middle | | | |
| | | | | Glutaraldehyde | 111-30-8 | 14.00000 | 0.00129 |
| | | | | Quaternary ammonium compounds, bis (hydrogenated tallow alkyl)dimethyl, salts with bentonite | 68953-58-2 | 5.00000 | 0.00076 |
| | | | | Ammonium Persulfate | 7727-54-0 | 100.00000 | 0.00030 |
| | | | | Alkyl dimethyl benzyl ammonium chloride | 68424-85-1 | 3.00000 | 0.00028 |
| | | | | Didecyl dimethyl ammonium chloride | 7173-51-5 | 3.00000 | 0.00028 |
| | | | | Ethanol | 64-17-5 | 3.00000 | 0.00028 |
| | | | | Oxirane, 2-methyl-, polymer with oxirane, monodecyl ether | 37251-67-5 | 1.50000 | 0.00023 |
| | | | | Ethylene Glycol | 107-21-1 | 40.00000 | 0.00006 |
| | | | | Vinylidene chloride-methyl acrylate copolymer | 25038-72-6 | 20.00000 | 0.00006 |
| | | | | Diethylene glycol, monomethyl ether | 34590-94-8 | 20.00000 | 0.00003 |
| | | | | Tar bases, quinolone derivs, benzyl chloride-quatzenized | 72480-70-7 | 10.00000 | 0.00002 |
| | | | | Formic acid | 64-18-6 | 10.00000 | 0.00002 |
| | | | | Ethoxylated Alcohols | 68131-39-5 | 10.00000 | 0.00002 |
| | | | | Cinnamaldehyde | 104-55-2 | 10.00000 | 0.00002 |
| | | | | Isopropyl alcohol | 67-63-0 | 5.00000 | 0.00001 |

* 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)

RECEIVED
Office of Chemical Safety
SEP 24 2010
MW Dept
Ingram

ANTERO RESOURCES CORPORATION

Location: Tyler County, WV
 Facility: Ferrrell South Pad

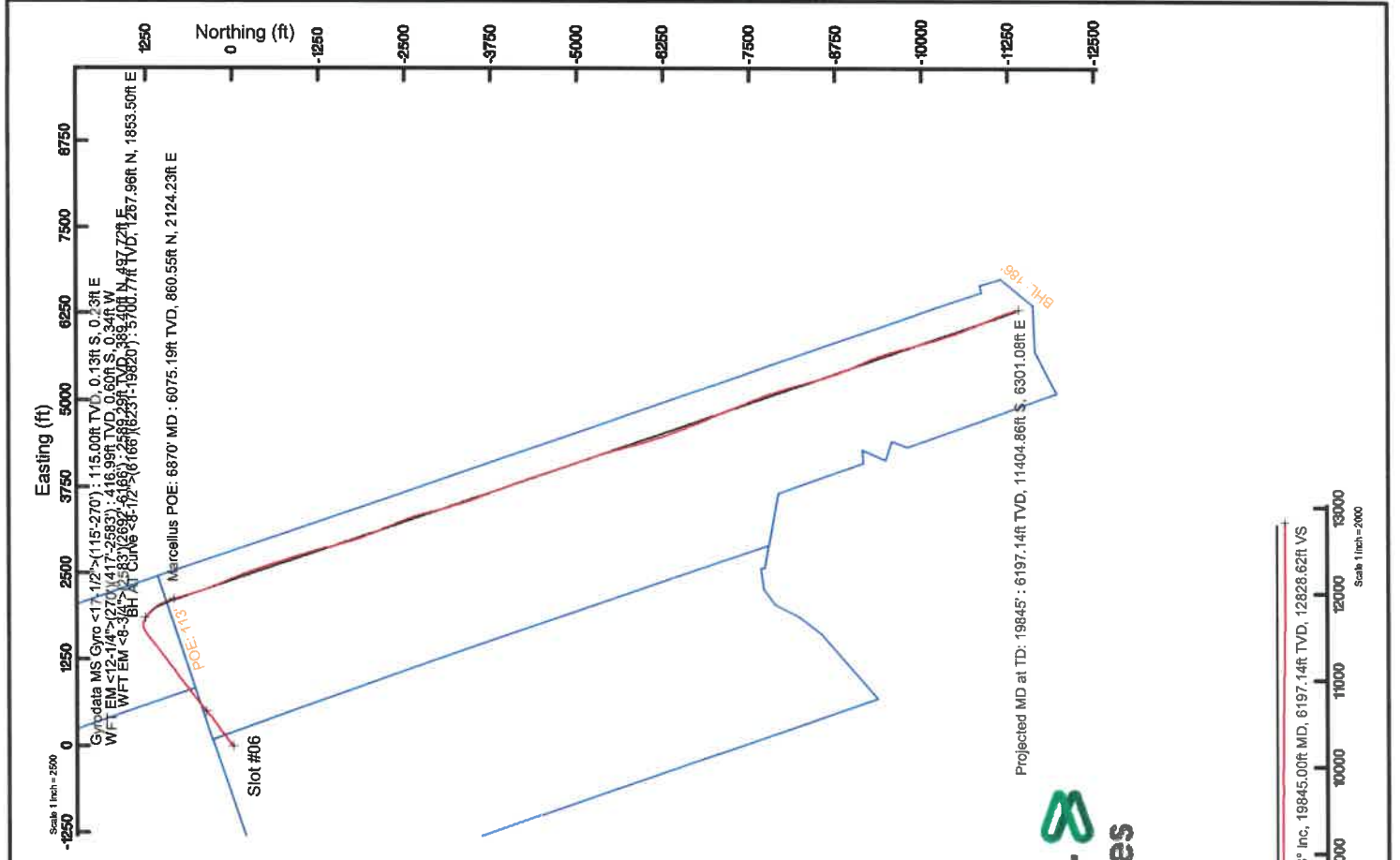
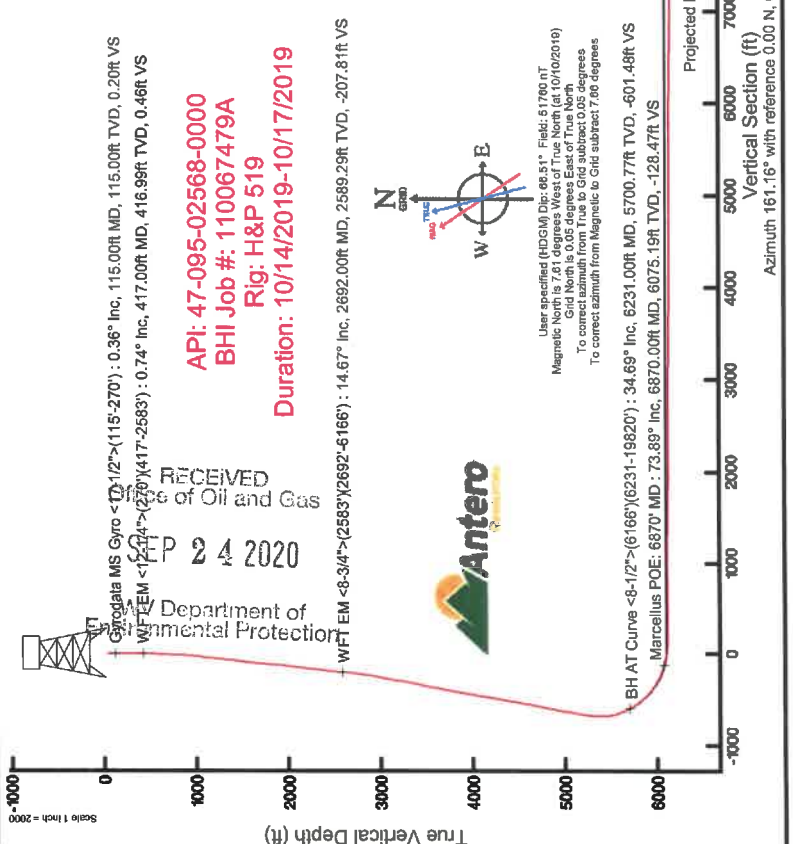
Slot: Slot #06
 Well: Daniels Unit 3H
 Wellbore: Daniels Unit 3H PWB

Plot reference wellpath is Daniels Unit 3H PWP Rev-A-0
 True vertical depths are referenced to H&P 519 (RKB)
 Measured depths are referenced to H&P 519 (RKB)
 H&P 519 (RKB) to Mean Sea Level: 761 feet
 Mean Sea Level to Ground level (At Slot: Slot #06): -731 feet
 Coordinates are in feet referenced to Slot

| Location Information | | | |
|--|-------------------|--------------------|----------------|
| Facility Name | Grid East (US ft) | Grid North (US ft) | Longitude |
| Ferrrell South Pad | 1633784.631 | 1433940.899 | 80°55'01.900"W |
| Slot | Local E (ft) | Grid North (US ft) | Longitude |
| Slot #06 | -0.05 | 1633784.604 | 80°55'01.900"W |
| H&P 519 (RKB) to Ground level (At Slot: Slot #06) | | | |
| Mean Sea Level to Ground level (At Slot: Slot #06) | | | |
| -731 ft | | | |
| H&P 519 (RKB) to Mean Sea Level | | | |
| 761 ft | | | |

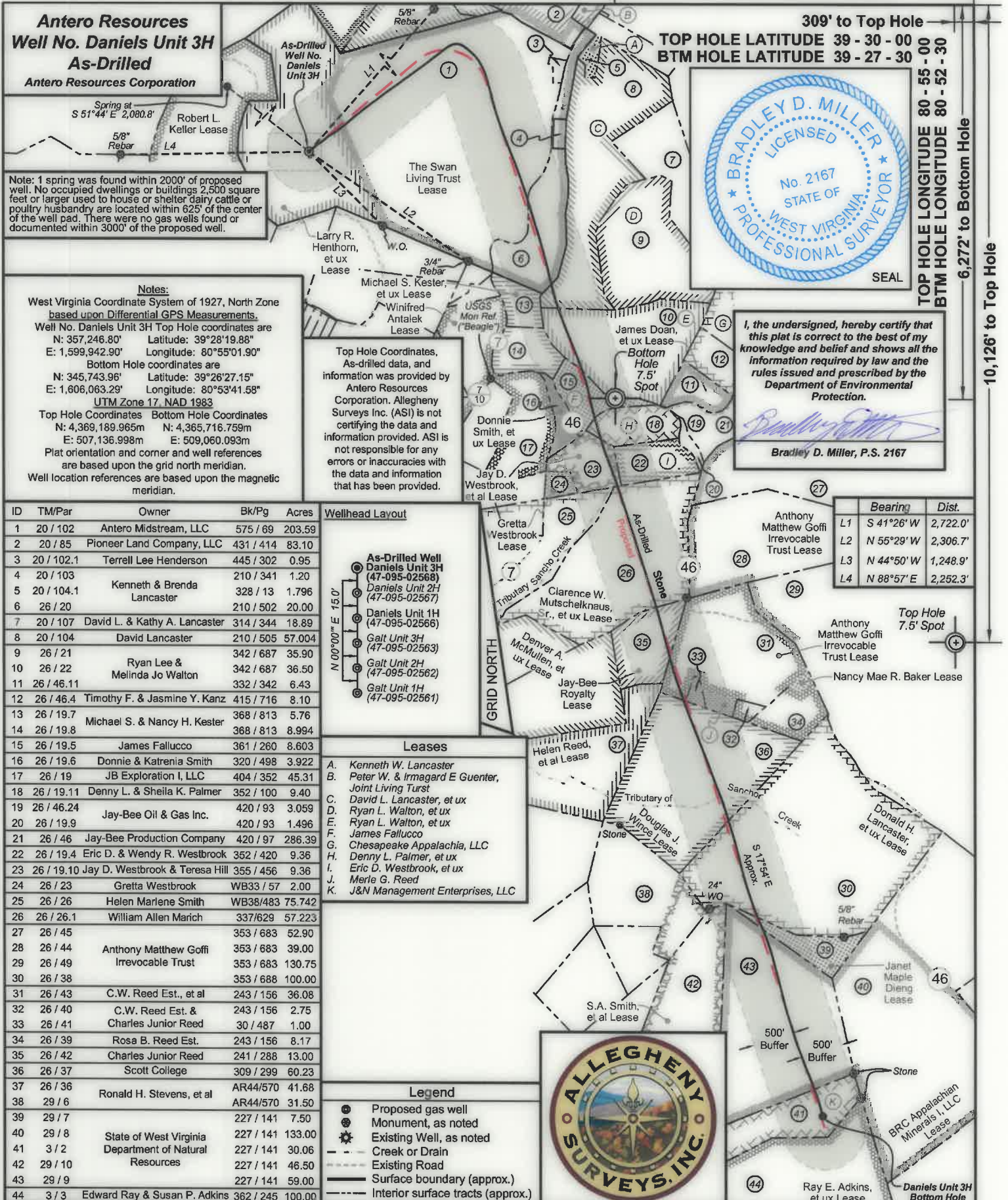
| Well Profile Data | | | | | |
|-------------------|----------|---------|---------|----------|--------------|
| Design Comment | MD (ft) | Inc (") | Az (°) | TVD (ft) | Local N (ft) |
| Top On | 6166.00 | 31.510 | 116.666 | 5646.25 | 1286.85 |
| Prof. To Bottom | 6235.00 | 35.730 | 125.600 | 5706.26 | 1285.37 |
| End of 3D Arc | 6263.01 | 33.732 | 124.757 | 5726.83 | 1257.14 |
| POE | 6814.69 | 70.666 | 161.157 | 6085.00 | 904.01 |
| Landing Pl. | 7044.40 | 90.000 | 161.157 | 6103.00 | 850.64 |
| BHL | 19793.00 | 80.000 | 161.157 | 6103.00 | -11374.71 |
| | | | | | 6281.06 |
| | | | | | 0.00 |
| | | | | | 12783.82 |

| Well Data | |
|-----------|-----------------------------|
| Well | Wellbore |
| Slot #06 | Daniels Unit 3H AWB |
| Slot #06 | Daniels Unit 3H PWB |
| | Daniels Unit 3H PWB Rev-A-0 |



User specified (BDCM) Dip: 66.5° Field: 61760.NT
 Magnetic North is 7.61 degrees West of True North (at 10/10/2019)
 To correct azimuth from True to Grid subtract 0.05 degrees
 To correct azimuth from Magnetic to Grid subtract 7.66 degrees

Projected MD at TD: 19845°: 90.18° Inc, 19845.00ft MD, 6197.14ft TVD, 12828.62ft VS
 Vertical Section (ft)
 Azimuth 161.16° with reference 0.00 N, 0.00 E
 Scale 1 inch = 2000



Antero Resources
Well No. Daniels Unit 3H
As-Drilled
 Antero Resources Corporation

Note: 1 spring was 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. There were no gas wells found or documented within 3000' of the proposed well.

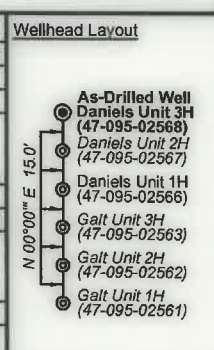
Notes:
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Daniels Unit 3H Top Hole coordinates are
 N: 357,246.80' Latitude: 39°28'19.88"
 E: 1,599,942.90' Longitude: 80°55'01.90"
 Bottom Hole coordinates are
 N: 345,743.96' Latitude: 39°26'27.15"
 E: 1,606,063.29' Longitude: 80°53'41.58"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,369,189.965m N: 4,365,716.759m
 E: 507,136.998m E: 509,060.093m
 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 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.



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, P.S. 2167

| ID | TMPar | Owner | Bk/Pg | Acres |
|----|------------|--|-----------|--------|
| 1 | 20 / 102 | Antero Midstream, LLC | 575 / 69 | 203.59 |
| 2 | 20 / 85 | Pioneer Land Company, LLC | 431 / 414 | 83.10 |
| 3 | 20 / 102.1 | Terrell Lee Henderson | 445 / 302 | 0.95 |
| 4 | 20 / 103 | | 210 / 341 | 1.20 |
| 5 | 20 / 104.1 | Kenneth & Brenda Lancaster | 328 / 13 | 1.796 |
| 6 | 26 / 20 | | 210 / 502 | 20.00 |
| 7 | 20 / 107 | David L. & Kathy A. Lancaster | 314 / 344 | 18.89 |
| 8 | 20 / 104 | David Lancaster | 210 / 505 | 57.004 |
| 9 | 26 / 21 | | 342 / 687 | 35.90 |
| 10 | 26 / 22 | Ryan Lee & Melinda Jo Walton | 342 / 687 | 36.50 |
| 11 | 26 / 46.11 | | 332 / 342 | 6.43 |
| 12 | 26 / 46.4 | Timothy F. & Jasmine Y. Kanz | 415 / 716 | 8.10 |
| 13 | 26 / 19.7 | | 368 / 813 | 5.76 |
| 14 | 26 / 19.8 | Michael S. & Nancy H. Kester | 368 / 813 | 8.994 |
| 15 | 26 / 19.5 | James Fallucco | 361 / 260 | 8.603 |
| 16 | 26 / 19.6 | Donnie & Katrena Smith | 320 / 498 | 3.922 |
| 17 | 26 / 19 | JB Exploration I, LLC | 404 / 352 | 45.31 |
| 18 | 26 / 19.11 | Denny L. & Sheila K. Palmer | 352 / 100 | 9.40 |
| 19 | 26 / 46.24 | | 420 / 93 | 3.059 |
| 20 | 26 / 19.9 | Jay-Bee Oil & Gas Inc. | 420 / 93 | 1.496 |
| 21 | 26 / 46 | Jay-Bee Production Company | 420 / 97 | 286.39 |
| 22 | 26 / 19.4 | Eric D. & Wendy R. Westbrook | 352 / 420 | 9.36 |
| 23 | 26 / 19.10 | Jay D. Westbrook & Teresa Hill | 355 / 456 | 9.36 |
| 24 | 26 / 23 | Gretta Westbrook | WB33 / 57 | 2.00 |
| 25 | 26 / 26 | Helen Marlene Smith | WB38/483 | 75.742 |
| 26 | 26 / 26.1 | William Allen Marich | 337/629 | 57.223 |
| 27 | 26 / 45 | | 353 / 683 | 52.90 |
| 28 | 26 / 44 | Anthony Matthew Goffi Irrevocable Trust | 353 / 683 | 39.00 |
| 29 | 26 / 49 | | 353 / 683 | 130.75 |
| 30 | 26 / 38 | | 353 / 688 | 100.00 |
| 31 | 26 / 43 | C.W. Reed Est., et al | 243 / 156 | 36.08 |
| 32 | 26 / 40 | C.W. Reed Est. & Charles Junior Reed | 243 / 156 | 2.75 |
| 33 | 26 / 41 | | 30 / 487 | 1.00 |
| 34 | 26 / 39 | Rosa B. Reed Est. | 243 / 156 | 8.17 |
| 35 | 26 / 42 | Charles Junior Reed | 241 / 288 | 13.00 |
| 36 | 26 / 37 | Scott College | 309 / 299 | 60.23 |
| 37 | 26 / 36 | Ronald H. Stevens, et al | AR44/570 | 41.68 |
| 38 | 29 / 6 | | AR44/570 | 31.50 |
| 39 | 29 / 7 | | 227 / 141 | 7.50 |
| 40 | 29 / 8 | State of West Virginia Department of Natural Resources | 227 / 141 | 133.00 |
| 41 | 3 / 2 | | 227 / 141 | 30.06 |
| 42 | 29 / 10 | | 227 / 141 | 46.50 |
| 43 | 29 / 9 | | 227 / 141 | 59.00 |
| 44 | 3 / 3 | Edward Ray & Susan P. Adkins | 362 / 245 | 100.00 |



- Leases**
- A. Kenneth W. Lancaster
 - B. Peter W. & Irmagard E Guenter, Joint Living Trust
 - C. David L. Lancaster, et ux
 - D. Ryan L. Walton, et ux
 - E. Ryan L. Walton, et ux
 - F. James Fallucco
 - G. Chesapeake Appalachia, LLC
 - H. Denny L. Palmer, et ux
 - I. Eric D. Westbrook, et ux
 - J. Merle G. Reed
 - K. J&N Management Enterprises, LLC

- Legend**
- Proposed gas well
 - ⊙ Monument, as noted
 - ⊙ Existing Well, as noted
 - - - Creek or Drain
 - - - Existing Road
 - - - Surface boundary (approx.)
 - - - Interior surface tracts (approx.)

| Bearing | Dist. |
|---------|---------------------|
| L1 | S 41°26' W 2,722.0' |
| L2 | N 55°29' W 2,306.7' |
| L3 | N 44°50' W 1,248.9' |
| L4 | N 88°57' E 2,252.3' |



FILE NO: 315-54-E-16
 DRAWING NO: Daniels 3H As-Drilled
 SCALE: 1" = 1500'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

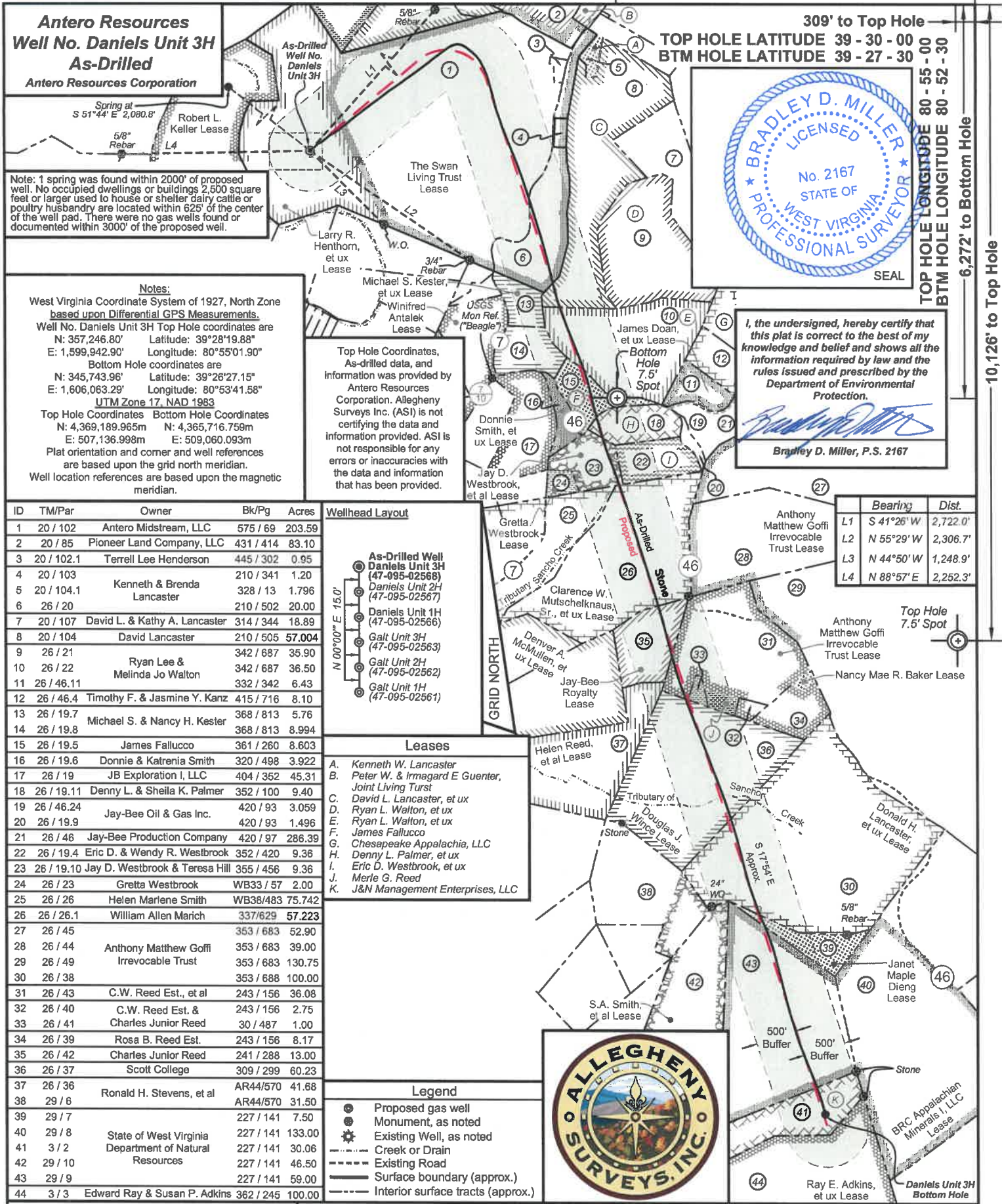
DATE: May 8 20 20
 OPERATOR'S WELL NO. Daniels Unit 3H
 API WELL NO
 47 - 095 - 02568
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 731.4' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne 13; 166.09063; 30.06; 8.603; 58.27275;
 DISTRICT: Ellsworth COUNTY: Tyler 151.625; 47.5; 60.23; 100;
 SURFACE OWNER: Antero Midstream, LLC ACREAGE: 203.59 7.50; 164.91; 9.36; 9.40;
 ROYALTY OWNER: Larry R. Henthorn, et ux; The Swan Living Trust; David L. Lancaster, et ux; LEASE NO: ACREAGE: 61.71875; 36.5;

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6.197' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 19,845' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313



Antero Resources
Well No. Daniels Unit 3H
As-Drilled
Antero Resources Corporation

Note: 1 spring was 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. There were no gas wells found or documented within 3000' of the proposed well.

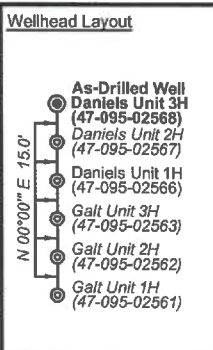
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 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: May 8 20 20
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 API WELL NO
 47 - 095 - 02568
 STATE COUNTY PERMIT

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 DISTRICT: Ellsworth BRC Appalachian Minerals I, LLC; J&N Management Enterprises, LLC; Anthony Matthew Goffi Irrevocable Trust; Donald H. Lancaster, et ux; Douglas J. Wince; COUNTY: Tyler 151.625; 47.5; 7.60; 23; 100;
 SURFACE OWNER: Antero Midstream, LLC Clarence W. Mutschelknaus Sr., et al; Denny L. Palmer, et ux; Jay-Bee Royalty; ACREAGE: 203.59 60.23; 164.91;
 ROYALTY OWNER: Larry R. Henthorn, et ux; The Swan Living Trust; David L. Lancaster, et ux; LEASE NO: ACREAGE: 61.71875; 36.5;
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 Denver, CO 80202 Charleston, WV 25313