WR-35 Rev. 8/23/13

> Received Office of Oil & Gas

APPROVE NAME: State of West Virginate Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

9AY 8 200

| API 47-017 06720 | County Doddridg | je I | District Central | |
|--|---|------------------------------------|---------------------------------|-------------------------|
| Quad West Union 7.5' | Pad Name Rock F | | Field/Pool Name | |
| Farm name George D. Lambert | | | Well Number De | |
| Operator (as registered with the OOC | 3) Antero Resources | | | |
| Address 1615 Wynkoop Street | 3 | ver | State CO | Zip 80202 |
| As Drilled location NAD 83/UTM Top hole | Attach an as-drilled Northing 4350635m | l plat, profile view, and Easti | deviation survey ing 515985m | |
| Landing Point of Curve | Northing 4350893.384m | | ng 516171.155m | |
| Bottom Hole | Northing 4353842m | Easti | ng <u>514956m</u> | |
| Elevation (ft) 1171' GL | Type of Well | New □ Existing | Type of Report | t □Interim ∎Final |
| Permit Type Deviated I | Horizontal 📑 Horizont | al 6A 🛛 Vertical | Depth Type | 🗆 Deep 🚦 Shallow |
| Type of Operation □ Convert □ | Deepen 📕 Drill 🗆 | Plug Back 🛛 🗆 Redril | ling | Stimulate |
| Well Type | M ∎ Gas ∎ Oil □ Seco | ondary Recovery 🗆 So | lution Mining 🗆 S | torage 🗆 Other |
| Type of Completion ■ Single □ M Drilled with □ Cable ■ Rotary | ultiple Fluids Produc | ed □Brine ∎Gas | 🗆 NGL 📲 Oil | Other |
| Drilling Media Surface hole | ir 🗆 Mud 🗆 Fresh Wate | er Intermediate h | ole 🛯 Air 🗆 Mu | d 🗆 Fresh Water 🗆 Brine |
| Production hole | D Fresh Water D Brine | | | |
| Mud Type(s) and Additive(s) Air - Foam & 4% KCL | | | | |
| Mud - Polymer | | | | |
| Date permit issued05/28/2015 | Date drilling comm | enced 05/30/2015 | Date drilling | ceased 9/30/2015 |
| Date completion activities began | 7/26/2016 | Date completion activ | ities ceased | 10/6/2016 |
| Verbal plugging (Y/N)N/A | Date permission granted | AL/A | Granted by | N/A |
| Please note: Operator is required to | submit a plugging applicat | tion within 5 days of ve | rbal permission to | plug |
| Freshwater depth(s) ft 112 | 2', 147', 295' | Open mine(s) (Y/N) de | oths | No |
| | 01 0071 | Void(s) encountered () | | No |
| | 5001 | Cavern(s) encountered | | No |
| Is coal being mined in area (Y/N) | No | | | |

Reviewed by:

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Tubing

| API 47-017 | 06720 | | Farm name_ | George D. La | mbert | W | ell nur | mber_Devor | nian Unit 3H |
|--------------------|-------------------|----------------|--------------------------|---------------------------|---------------------------------------|-------------------------|---------------|-------------------------|--|
| CASING STRINGS | Hole Size | Casing Size | - | | wor Gra sed wt | | Bask Depti | | id cement circulate (Y/ N) Provide details below* |
| Conductor | 24" | 26 | 5" | 40' 1 | lew | 94#, H-40 | | N/A | Y |
| Surface | 17-1/2" | 13-3 |)/8" 3 | 358' 1 | Vew | 48#, H-40 | | N/A | Y |
| Coal | | | | | | | | | |
| Intermediate 1 | 12-1/4" | 9-5/ | /8" 2 | 578' | lew | 36#, J-55 | | N/A | Y |
| Intermediate 2 | | | | | | | - | | |
| Intermediate 3 | | | | | | | | | |
| Production | 8-3/4"/8-1/2" | 5-1/ | /2" 16 | 447'* N | Vew 2 | 23#, P-110 | | N/A | Y |
| Tubing | | 2-3/ | /8" 6 | 822' | | 4.7#, N-80 | | | |
| Packer type and de | epth set | N/A | I | | | | | I | |
| Comment Details | *Please note this | | ed to 17757' howeve | er casing was only ra | n to 16447' Yield | Volu | ne | Cement | WOC |
| DATA | of Cement | | of Sacks | wt (ppg) | (ft ³ /sks) | <u>(ft ³</u> | | Top (MD) | (hrs) |
| Conductor | Class A | | 114 sx | 15.6 | 1.20 | 38 | | 0' | 8 Hrs. |
| Surface | Class A | | 410 sx | 15.6 | 1.18 | 249 | • | 0' | 8 Hrs. |
| Coal | | | | | | | | | |
| Intermediate 1 | Class A | | 991 sx | 15.6 | 1.18 | 807 | , | 0' | 8 Hrs. |
| Intermediate 2 | | | | | | - | | | |
| Intermediate 3 | | | | | | | | | |
| Production | Class H | 584 s | sx (Lead) 1711 sx (Tail) | 14.16 (Lead), 15.19(Tail) | 1.44 (Lead), 1.83 (| Tail) 329 | 2 | -500' into Intermediate | Casing 8 Hrs. |
| | | | | L | · · · · · · · · · · · · · · · · · · · | | | | |

Drillers TD (ft) 17757' MD, 6710' TVD (BHL) & 6761' TVD (Deepest Point Drilled) Deepest formation penetrated Marcellus

Loggers TD (ft) <u>17709' MD</u> Plug back to (ft) <u>N/A</u>

| Plug back procedure N/A | | | | | |
|---|--|--------------|---------------------------------|--------------------------------|--|
| | | | | | ** This is a subsequent well. Antero only runs |
| Kick off depth (ft) 6378 | | | | | wireline logs on one well on a multi-well pad (Wentz Unit 1H API #47-017-06476). Please reference the wireline logs submitted with Form WR-35 for Wentz Unit 1H. A Cement Bond Log has been included with |
| Check all wireline logs run | □ caliper □ density □ neutron □ resistivity | | □ deviated/directio □ gamma ray | nal □ induction □ temperatu | this submittal. |
| Well cored 🗆 Yes 🛢 No | Conventio | nal Sidewa | all We | re cuttings collecte | d □Yes ■ No |
| DESCRIBE THE CENTRALIZE | R PLACEME | NT USED FOR | EACH CASING ST | RING | |
| Surface - 1 above guide shoe, 1 above insert float | , 1 every 4th joint to su | uface | | | |
| Intermediate - 1 above float joint, 1 above float co | | | | | LI LI LI CALL AND |
| Production - 1 above float joint, 1 below float colla | r, 1 every 3rd joint to to | op of cement | | | HEDEIVED |
| WAS WELL COMPLETED AS | SHOT HOLE | 🗆 Yes 🖷 🕅 | No DETAILS | Offic | be of Oil and Gas |
| | | | | | MAY 8 2017 |
| WAS WELL COMPLETED OP | EN HOLE? | 🗆 Yes 📕 No | DETAILS | | Department of |
| WERE TRACERS USED | es 🛢 No | TYPE OF TR. | ACER(S) USED _N/A | | nmental Protection |
| | | | | | |

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| API 4 | | Farm nan | ne_George D. La | ambert | Well number Devonian Unit 3H |
|--------------|------------------|---------------------------|----------------------|---------------------------|------------------------------------|
| | | | PERFORATI | ON RECORD | |
| Stage No. | Perforation date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formation(s) |
| | | | | | |
| | *PL | EASE S | EE ATT | ACHE | D EXHIBIT 1 |
| | | | | | |
| | | | | | |
| | | | _ | Office | ECEIVED of Oil and Gas |
| | | | | | AAY 8 2017 |
| | | | | | |
| | | | | Environ | Department of mental Protection |
| | | | | | |

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) |
|--------------|----------------------|------------------------|---------------------------------|---------------------------------|------------|-----------------------------|---------------------------|-------------------------------------|
| | | *PLE | ASE SEE | ΞΑΤΤΑ | CHE | EXH | IBIT 2 | 2 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Please insert additional pages as applicable.

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|------|--------|---|

| | | Farm | name George | D. Lambe | ertW | Vell number | Devonian Unit 3H |
|--|---|--|--|------------------------------------|---|--|--|
| PRODUCING | FORMATION(S |) | DEPTHS | | | | |
| Marcellus | | | 6700' (TOP) | _TVD | 7004' (TOP) | MD | |
| | | | | | | | |
| | | | | _ | | | |
| | | | | _ | | | |
| | ditional pages as | | | | | | |
| GAS TEST | □ Build up □ | Drawdown | Open Flow | | OIL TEST A Flow | v □ Pump | |
| SHUT-IN PRE | ESSURE Surfa | ce_3600 | psi Botto | om Hole | psi DU | RATION O | F TEST hrs |
| OPEN FLOW | Gas 13416 mcfp | Oil | NGL | had | Water G | AS MEASU | RED BY ■ Orifice □ Pilot |
| | merp | u <u> </u> | opu | _ opa _ | opa u | Estimated | E Office E Fliot |
| ITHOLOGY/ | ТОР | | ТОР | | | | |
| ORMATION | DEPTH IN FT NAME TVD | | DEPTH IN FT MD | | | | RECORD QUANTITYAND ER, BRINE, OIL, GAS, H₂S, ET |
| | | | | | CHED E | | |
| | | | | | | RE6 | EIVED Dil and Gas |
| | | | - | | C | nice or v | |
| | | | | | | MAY | 8 2017 |
| | | | | | | 1.1.1.1 | 1 |
| | | | | 1 | | WV Der | partment or |
| | | | | | En | wv Dep vironme | partment of ntal Protection |
| | | | | | En | WV Der vironme | ntal Protection |
| Please insert ad | lditional pages as | applicable. | | | En | WV Dep vironme | ntal Protection |
| Drilling Contra | actor Patterson - L | | ompany, LLC | | En | WV Dep vironme | ntal Protection |
| | actor Patterson - L | | ompany, LLC | Eighty Four | En | WV Der vironme | zip 15330 |
| Drilling Contra Address 207 Ca | actor Patterson - L ariton Dr. any Allied Horizon | JTI Drilling Co | City | | En s | tate PA | Zip 15330 |
| Drilling Contra Address <u>207 Ca</u> Logging Comp Address <u>381 Co</u> | actor Patterson - L ariton Dr. Dany <u>Allied Horizon</u> Dolonial Manor Rd. | JTI Drilling Control of the state of the sta | City Services City | North Hunti | En s | vironme | ntal Protection |
| Drilling Contra Address 207 Ca Logging Comp Address 381 Co Cementing Cor | actor Patterson - L ariton Dr. Dany <u>Allied Horizon</u> Donial Manor Rd. mpany <u>Nabors Co</u> | JTI Drilling Control of the state of the sta | City Services City roduction Service | North Hunti | S | tate PA | _ Zip 15330 _ Zip 15642 |
| Drilling Contra Address 207 Ca Logging Comp Address 381 Co Cementing Cor Address 1650 H | actor Patterson - U ariton Dr. Dany Allied Horizon Donial Manor Rd. Mabors Co Hackers Creek | UTI Drilling Control Dr | City Services City roduction Service City City | North Hunti | S | tate PA | Zip 15330 |
| Drilling Contra Address 207 Ca Logging Comp Address 381 Co Cementing Cor Address 1650 H | actor Patterson - U ariton Dr. Dany Allied Horizon Donial Manor Rd. Mpany Nabors Co Hackers Creek Mpany Cal Frac | JTI Drilling Control of the state of the sta | City Services City roduction Service City s | North Hunti | En | tate PA tate PA tate WV | Zip 15330 Zip 15642 Zip 26378 |
| Drilling Contra Address 207 Ca Logging Comp Address 381 Co Cementing Cor Address 1650 H Stimulating Co Address 717 17 | actor Patterson - U ariton Dr. Dany Allied Horizon Donial Manor Rd. Mabors Co Hackers Creek | UTI Drilling Contact Wireline : Impletion & P Well Service | City Services City roduction Service City City | North Hunti es, Co. Jane Lew | En | tate PA | _ Zip 15330 _ Zip 15642 |
| Drilling Contra Address 207 Ca Logging Comp Address 381 Co Cementing Cor Address 1650 H Stimulating Co Address 717 17 Please insert ad | actor Patterson - L ariton Dr. Dany Allied Horizon Donial Manor Rd. Mpany Nabors Co Hackers Creek Mpany Cal Frac th Street Suite 1448 | UTI Drilling Contact Wireline : Impletion & P Well Service | City Services City roduction Service City s | North Hunti es, Co. Jane Lew | En Singdon Si | tate PA tate PA tate WV tate CO | Zip <u>15330</u> Zip <u>15642</u> Zip <u>26378</u> |
| Drilling Contra Address 207 Ca Logging Comp Address 381 Co Cementing Cor Address 1650 H Stimulating Co Address 717 17 Please insert ad | actor Patterson - L ariton Dr. Dany <u>Allied Horizon</u> Donial Manor Rd. Mabors Co Hackers Creek Impany <u>Cal Frac</u> th Street Suite 1448 Iditional pages as | UTI Drilling Contact Wireline : Impletion & P Well Service | City Services City roduction Service City s City City City | North Hunti es, Co. Jane Lew | En Singdon Si Si Si Telephone 303 | tate PA tate PA tate WV tate CO | Zip 15330 Zip 15642 Zip 26378 Zip 80202 |

| | | 20 Farm Name <u>George</u> FXF | HBIT 1 | <u></u> | |
|-----------|-------------|-----------------------------------|---------------|--------------|------------|
| | Perforation | Perforated from MD | Perforated to | Number of | |
| Stage No. | Date | ft. | MD ft. | Perforations | Formations |
| 1 | 7/26/2016 | 16194 | 16336 | 60 | Marcellus |
| 2 | 8/22/2016 | 15995 | 16163 | 60 | Marcellus |
| 3 | 8/22/2016 | 15796 | 15964 | 60 | Marcellus |
| 4 | 8/23/2016 | 15597 | 15765 | 60 | Marcellus |
| 5 | 8/23/2016 | 15399 | 15566 | 60 | Marcellus |
| 6 | 8/24/2016 | 15200 | 15367 | 60 | Marcellus |
| 7 | 8/24/2016 | 15001 | 15169 | 60 | Marcellus |
| 8 | 8/25/2016 | 14802 | 14970 | 60 | Marcellus |
| 9 | 8/26/2016 | 14603 | 14771 | 60 | Marcellus |
| 10 | 8/26/2016 | 14405 | 14572 | 60 | Marcellus |
| 11 | 8/27/2016 | 14206 | 14373 | 60 | Marcellus |
| 12 | 8/27/2010 | 14007 | 14175 | 60 | Marcellus |
| 12 | 8/28/2016 | 13808 | 13976 | 60 | Marcellus |
| 13 | 8/29/2016 | 13609 | 13777 | 60 | Marcellus |
| 14 15 | 8/30/2016 | 13609 | 13578 | 60 | Marcellus |
| 15 | 8/30/2016 | 13212 | 13378 | 60 | Marcellus |
| 10 | 8/30/2016 | 13212 | 13379 | 60 | Marcellus |
| 17 | | | | 60 | Marcellus |
| | 8/31/2016 | 12814 | 12982 | | |
| 19 | 9/1/2016 | 12615 | 12783 | 60 | Marcellus |
| 20 | 9/1/2016 | 12417 | 12584 | 60 | Marcellus |
| 21 | 9/2/2016 | 12218 | 12385 | 60 | Marcellus |
| 22 | 9/2/2016 | 12019 | 12187 | 60 | Marcellus |
| 23 | 9/3/2016 | 11820 | 11988 | 60 | Marcellus |
| 24 | 9/3/2016 | 11621 | 11789 | 60 | Marcellus |
| 25 | 9/4/2016 | 11423 | 11590 | 60 | Marcellus |
| 26 | 9/4/2016 | 11224 | 11391 | 60 | Marcellus |
| 27 | 9/5/2016 | 11025 | 11193 | 60 | Marcellus |
| 28 | 9/5/2016 | 10826 | 10994 | 60 | Marcellus |
| 29 | 9/5/2016 | 10627 | 10795 | 60 | Marcellus |
| 30 | 9/6/2016 | 10429 | 10596 | 60 | Marcellus |
| 31 | 9/6/2016 | 10230 | 10397 | 60 | Marcellus |
| 32 | 9/7/2016 | 10031 | 10199 | 60 | Marcellus |
| 33 | 9/7/2016 | 9832 | 10000 | 60 | Marcellus |
| 34 | 9/8/2016 | 9633 | 9801 | 60 | Marcellus |
| 35 | 9/8/2016 | 9435 | 9602 | 60 | Marcellus |
| 36 | 9/9/2016 | 9236 | 9403 | 60 | Marcellus |
| 37 | 9/9/2016 | 9037 | 9205 | 60 | Marcellus |
| 38 | 9/9/2016 | 8838 | 9006 | 60 | Marcellus |
| 39 | 9/10/2016 | 8639 | 8807 | 60 | Marcellus |
| 40 | 9/10/2016 | 8441 | 8608 | 60 | Marcellus |
| 41 | 9/10/2016 | 8242 | 8409 | 60 | Marcellus |
| 42 | 9/11/2016 | 8043 | 8211 | 60 | Marcellus |
| 43 | 9/11/2016 | 7844 | 8012 | 60 | Marcellus |
| 44 | 9/12/2016 | 7645 | 7813 | 60 | Marcellus |
| 45 | 9/12/2016 | 7447 | 7614 | 60 | Marcellus |
| 46 | 9/12/2016 | 7248 | 7415 | 60 | Marcellus |
| 47 | 9/13/2016 | 7049 | 7217 | 60 | Marcellus |

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| API <u>47-017-06720</u> Farm Name <u>George D. Lambert</u> Well Number <u>Devonian Unit 3H</u> | | | | | | | | |
|--|--------------|----------|------------------------------|------------------------------|------------|--------------------|--------------------|---------------------------------|
| | | | | EXHIBI | Г 2 | | | 1.8 |
| | Stimulations | Avg Pump | Avg Treatment Pressure | Max Breakdown Pressure | | Amount of Proppant | Amount of Water | Amount of Nitrogen/ other |
| tage No. | Date | Rate | (PSI) | (PSI) | ISIP (PSI) | (lbs) | (bbls) | (units) |
| 1 | 8/21/2016 | 70.7 | 7603 | 0 | 4666 | 352250 | 8989 | N/A |
| 2 | 8/22/2016 | 59.0 | 6694 | 5369 | 4385 | 351300 | 8291 | N/A |
| 3 | 8/22/2016 | 57.7 | 6842 | 5314 | 5118 | 350700 | 8383 | N/A |
| 4 | 8/23/2016 | 66.7 | 7064 | 5274 | 4634 | 351050 | 8458 | N/A |
| 5 | 8/23/2016 | 67.5 | 7706 | 5283 | 4657 | 351200 | 8354 | N/A |
| 6 | 8/24/2016 | 77.4 | 7597 | 5160 | 5015 | 351500 | 8328 | N/A |
| 7 | 8/24/2016 | 72.2 | 7070 | 5283 | 4545 | 350650 | 9195 | N/A |
| 8 | 8/25/2016 | 78.8 | 7601 | 5302 | 4867 | 350400 | 8320 | N/A |
| 9 | 8/26/2016 | 78.5 | 7491 | 5448 | 4858 | 351250 | 8198 | N/A |
| 10 | 8/26/2016 | 80.3 | 7602 | 5310 | 4264 | 350450 | 8241 | N/A |
| 11 | 8/27/2016 | 77.4 | 7481 | 5576 | 5165 | 350450 | 8319 | N/A |
| 12 | 8/27/2016 | 79.7 | 7419 | 5262 | 3908 | 351000 | 8207 | N/A |
| 12 | 8/28/2016 | 81.5 | 7366 | 5329 | 4989 | 350650 | 8161 | N/A |
| | 8/29/2016 | 78.8 | 7582 | 5360 | 4978 | 286750 | 10240 | N/A |
| 14 | 8/30/2016 | 81.0 | 7299 | 5381 | 5071 | 351200 | 8012 | N/A |
| | | | | | | | | |
| 16 | 8/30/2016 | 80.1 | 7164 | 5275 | 4919 | 350300 | 7918 | N/A |
| 17 | 8/31/2016 | 78.9 | 7146 | 5351 | 4890 | 350100 | 8088 | N/A |
| 18 | 8/31/2016 | 83.9 | 7514 | 5515 | 4966 | 350950 | 8345 | N/A |
| 19 | 9/1/2016 | 76.9 | 7554 | 5715 | 4672 | 284850 | 9574 | N/A |
| 20 | 9/1/2016 | 81.6 | 7405 | 5475 | 4954 | 351100 | 9047 | N/A |
| 21 | 9/2/2016 | 82.2 | 7258 | 5303 | 5083 | 350550 | 8110 | N/A |
| 22 | 9/2/2016 | 84.7 | 7075 | 5254 | 4978 | 351300 | 8240 | N/A |
| 23 | 9/3/2016 | 85.2 | 7000 | 5294 | 3537 | 351300 | 8110 | N/A |
| 24 | 9/3/2016 | 83.7 | 7313 | 5036 | 4994 | 351050 | 8050 | N/A |
| 25 | 9/4/2016 | 84.6 | 7209 | 5765 | 5060 | 350850 | 8105 | N/A |
| 26 | 9/4/2016 | 84.5 | 6965 | 5174 | 5300 | 351200 | 8005 | N/A |
| 27 | 9/5/2016 | 84.7 | 7176 | 5286 | 5265 | 351600 | 8574 | N/A |
| 28 | 9/5/2016 | 85.6 | 7016 | 5081 | 5063 | 350750 | 8039 | N/A |
| 29 | 9/5/2016 | 83.2 | 6740 | 5080 | 5019 | 350300 | 8028 | N/A |
| 30 | 9/6/2016 | 82.8 | 7071 | 5208 | 5013 | 324950 | 9265 | N/A |
| 31 | 9/6/2016 | 84.4 | 7054 | 5269 | 5109 | 272800 | 7949 | N/A |
| 32 | 9/7/2016 | 80.9 | 7594 | 5357 | 5070 | 179950 | 8816 | N/A |
| 33 | 9/7/2016 | 84.1 | 6759 | 5243 | 5057 | 351450 | 8348 | N/A |
| 34 | 9/8/2016 | 82.8 | 6848 | 5217 | 4951 | 351150 | 8192 | N/A |
| 35 | 9/8/2016 | 84.6 | 6781 | 5093 | 5325 | 350500 | 8251 | N/A |
| 36 | 9/9/2016 | 82.1 | 6821 | 5147 | 5018 | 351200 | 8292 | N/A |
| 37 | 9/9/2016 | 84.1 | 6937 | 5464 | 4244 | 351250 | 8079 | N/A |
| 38 | 9/9/2016 | 84.5 | 6829 | 5167 | 4961 | 350650 | 8314 | N/A |
| 39 | 9/10/2016 | 84.3 | 6693 | 5260 | 5164 | 350650 | 8317 | N/A |
| 40 | 9/10/2016 | 83.9 | 6528 | 5277 | 5277 | 350910 | 8266 | N/A |
| 41 | 9/10/2016 | 85.5 | 6441 | 5209 | 4639 | 352300 | 8266 | N/A |
| 42 | 9/11/2016 | 86.1 | 6655 | 5028 | 5024 | 350400 | 8008 | N/A |
| 43 | 9/11/2016 | 84.9 | 6502 | 5321 | 4913 | 353200 | 8149 | N/A |
| 44 | 9/12/2016 | 84.4 | 6519 | 5436 | 4313 | 350600 | 8143 | N/A |
| 45 | 9/12/2016 | 84.0 | 6566 | 5277 | 4577 | 350750 | 8122 | N/A |
| 46 | 9/12/2016 | 84.8 | 6424 | 5255 | 4674 | 351650 | 8236 | N/A |
| 40 | 9/13/2016 | 83.3 | 6428 | 5255 | 3678 | 350500 | 8230 | N/A N/A |
| | AVG= | 80.4 | 7,072 | 5,188 | 4,838 | 16,091,860 | 8,365 | TOTAL |

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| API 4 | 7-017-06720 Farm Name | George D. Lambert Well Nur | nber <u>Devonian Unit 3H</u> | | | | | |
|----------------------|-----------------------|----------------------------|------------------------------|-------------------|--|--|--|--|
| EXHIBIT 3 | | | | | | | | |
| | TOP DEPTH (TVD) | BOTTOM DEPTH (TVD) | TOP DEPTH (MD) | BOTTOM DEPTH (MD) | | | | |
| LITHOLOGY/ FORMATION | From Surface | From Surface | From Surface | From Surface | | | | |
| Fresh Water | 112' | N/A | 112' | N/A | | | | |
| Fresh Water | 147' | N/A | 147' | N/A | | | | |
| Fresh Water | 295' | N/A | 295' | N/A | | | | |
| Sandstone | 0 | 97 | 0 | 97 | | | | |
| Shale | est. 97 | 577 | est. 97 | 577 | | | | |
| Sandstone | est. 577 | 777 | est. 577 | 777 | | | | |
| Shale | est. 777 | 1,017 | est. 777 | 1,017 | | | | |
| Sandstone | est. 1017 | 1097 | est. 1017 | 1097 | | | | |
| Shale | est. 1097 | 1177 | est. 1097 | 1177 | | | | |
| Sandstone | est. 1177 | 1217 | est. 1177 | 1217 | | | | |
| Shale | est. 1217 | 1317 | est. 1217 | 1317 | | | | |
| Sandstone/siltstone | est. 1317 | 1357 | est. 1317 | 1357 | | | | |
| Shale | est. 1357 | 1417 | est. 1357 | 1417 | | | | |
| Sandstone | est. 1417 | 1557 | est. 1417 | 1557 | | | | |
| Trace Coal/Sandstone | est. 1557 | 1597 | est. 1557 | 1597 | | | | |
| Sandstone | est. 1597 | 1737 | est. 1597 | 1737 | | | | |
| Shale | est. 1737 | 1837 | est. 1737 | 1837 | | | | |
| Sandstone | est. 1837 | 1877 | est. 1837 | 1877 | | | | |
| Shale | est. 1877 | 1637 | est. 1877 | 1637 | | | | |
| Sandstone | est. 1637 | 1997 | est. 1637 | 1997 | | | | |
| Shale | est. 1997 | 2092 | est. 1997 | 2094 | | | | |
| Big Lime | 2092 | 2605 | 2094 | 2607 | | | | |
| Gantz Sand | 2605 | 2704 | 2607 | 2706 | | | | |
| Fifty Foot Sandstone | 2704 | 2817 | 2706 | 2819 | | | | |
| Gordon | 2817 | 3148 | 2819 | 3150 | | | | |
| Fifth Sandstone | 3148 | 3811 | 3150 | 3813 | | | | |
| Speechley | 3811 | 4195 | 3813 | 4197 | | | | |
| Baltown | 4195 | 4616 | 4197 | 4618 | | | | |
| Bradford | 4616 | 5092 | 4618 | 5098 | | | | |
| Benson | 5092 | 5367 | 5098 | 5381 | | | | |
| Alexander | 5367 | 5500 | 5381 | 5522 | | | | |
| Elk | 5500 | 6023 | 5522 | 6096 | | | | |
| Rhinestreet | 6023 | 6336 | 6096 | 6445 | | | | |
| Sycamore | 6336 | 6508 | 6445 | 6658 | | | | |
| Middlesex | 6508 | 6634 | 6658 | 6838 | | | | |
| Burkett | 6634 | 6662 | 6838 | 6895 | | | | |
| Tully | 6662 | 6700 | 6895 | 7004 | | | | |
| Marcellus | 6700 | N/A | 7004 | N/A | | | | |

*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.

REGEIVED Office of Oil and Gas

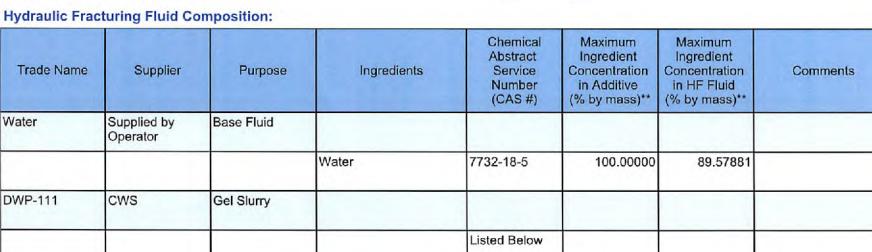
MAY 8 2017

WV Department of Environmental Protection/2017

Hydraulic Fracturing Fluid Product Component Information Disclosure

| 8/20/2016 | Job Start Date: |
|------------------------------|--------------------------------|
| 9/13/2016 | Job End Date: |
| West Virginia | State: |
| Doddridge | County: |
| 47-017-06720-00-00 | API Number: |
| Antero Resources Corporation | Operator Name: |
| Devonian Unit 3F | Well Name and Number: |
| 39.30487220 | Latitude: |
| -80.81477220 | Longitude: |
| NAD83 | Datum: |
| NC | Federal Well: |
| NC | Indian Well: |
| 6,759 | True Vertical Depth: |
| 16,934,585 | Total Base Water Volume (gal): |
| (| Total Base Non Water Volume: |

Hydraulic Fracturing Fluid Composition:









| Sand (Proppant) | cws | Propping Agent | | |
|-----------------|-----|---------------------------------------|--------------|--|
| | - | | Listed Below | |
| DWP-844 | cws | Microbiocide | | |
| | | | Listed Below | |
| DWP-975 | cws | Breaker | | |
| | | | Listed Below | |
| DAP-902 | cws | Scale Inhibitor | | |
| | | · · · · · · · · · · · · · · · · · · · | Listed Below | |
| DAP-103 | cws | Iron Control | | |
| | | | Listed Below | |
| DWP-641 | cws | Friction Reducer | | |
| | | | Listed Below | |
| DWP-901 | cws | Breaker | | REGEIVED Office of Oil and Gas |
| | | | Listed Below | MAY 8 2017 |
| Acetic Acid | cws | Acid | | WV Department of Environmental Protection |
| | | | Listed Below | Environmental Protection |
| DAP-925 | cws | Acid Corrosion Inhibitor | | |

| | | | 1 | Listed Below | | | |
|-----------------------|----------------------|----------------------------|--|---------------------|-----------|----------|--|
| Other Chemical (s) | Listed Above | See Trade Name (s) List | | | | | |
| | | | | Listed Below | | | |
| tems above are Tra | ade Names with the e | exception of Base Wa | ater . Items below are the indi | vidual ingredients. | | | |
| | | - | Crystalline silica (Quartz) | 14808-60-7 | 100.00000 | 10.19812 | |
| | | | Hydrochloric acid | 7647-01-0 | 37.00000 | 0.05984 | |
| | | | Polymer | 26100-47-0 | 45.00000 | 0.03042 | |
| | 1 | | Guar gum | 9000-30-0 | 60.00000 | 0.02306 | |
| | | | Distillates (petroleum), hydrotreated middle | 64742-46-7 | 60.00000 | 0.02306 | |
| | | | Paraffinic hydrocarbon solvent | 64742-47-8 | 30.00000 | 0.02028 | |
| | | | Calcite | 471-34-1 | 1.00000 | 0.01928 | |
| | | | Ammonium chloride | 12125-02-9 | 11.00000 | 0.00744 | |
| | | | 2-Propenoic acid, homopolymer, sodium salt | 9003-04-7 | 40.00000 | 0.00645 | |
| | | | Polyethylene glycol mixture | 25322-68-3 | 54.50000 | 0.00600 | |
| | | | Goethite | 1310-14-1 | 0.10000 | 0.00380 | |
| | DEIVER | 1. | Illite | 12173-60-3 | 1.00000 | 0.00283 | |
| Office o | Oil and Gas | | Sorbitan monooleate | 1338-43-8 | 4.00000 | 0.00270 | |
| MA | 8 2017 | | 2,2-Dibromo-3- Nitrilopropionamide | 10222-01-2 | 20.00000 | 0.00220 | |
| WV De | partment of | | Polyethylene glycol monooleate | 9004-96-0 | 3.00000 | 0.00203 | |
| Environm | ental Protectio | n | Apatite | 64476-38-6 | 0.10000 | 0.00197 | |
| | | - | Biotite | 1302-27-8 | 0.10000 | 0.00197 | |
| | | | Quaternary ammonium compounds, bis (hydrogenated tallow alkyl)dimethyl, salts with bentonite | 68953-58-2 | 5.00000 | 0.00192 | |
| | | | 1,2-Propanediol | 57-55-6 | 10.00000 | 0.00161 | |

| | | | Sorbitol tetraoleate | 61723-83-9 | 2.00000 | 0.00135 | |
|---------|--------------------------|-----|---|------------|-----------|---------|--|
| | | | Ilmenite | 98072-94-7 | 0.10000 | 0.00105 | |
| | | | Amines, tallow alkyl, ethoxylated | 61791-26-2 | 1.00000 | 0.00068 | |
| | | | Ammonium Persulfate | 7727-54-0 | 100.00000 | 0.00058 | |
| | | | Oxirane, 2-methyl-, polymer with oxirane, monodecyl ether | 37251-67-5 | 1.50000 | 0.00058 | |
| | | | Citric acid | 77-92-9 | 60.00000 | 0.00056 | |
| | | | Sodium bromide | 7647-15-6 | 4.00000 | 0.00044 | |
| | | | Alcohols, C12-14, ethoxylated | 84133-50-6 | 0.50000 | 0.00034 | |
| | | | Dibromoacetonitrile | 3252-43-5 | 3.00000 | 0.00033 | |
| | | | Vinylidene chloride- methyl acrylate copolymer | 25038-72-6 | 30.00000 | 0.00009 | |
| | | | Acrylamide | 79-06-1 | 0.10000 | 0.00007 | |
| | | | Methanol | 67-56-1 | 60.00000 | 0.00004 | |
| | EGEIVED of Oil and Ga | 0 | Hydrated magnesium silicate | 14807-96-6 | 1.00000 | 0.00002 | |
| Onice | | 5 | Fatty acids, tall-oil | 61790-12-3 | 30.00000 | 0.00002 | |
| ٨ | IAY 8 2017 | | Modified thiourea polymer | 68527-49-1 | 30.00000 | 0.00002 | |
| - | Department of | | Alcohols, C14-15, ethoxylated | 68951-67-7 | 30.00000 | 0.00002 | |
| Environ | nental Protec | ion | Alkenes, C>10 a- | 64743-02-8 | 5.00000 | 0.00001 | |
| | | | Poly(tetrafluoroethylene) | 9002-84-0 | 1.00000 | 0.00001 | |
| | | | Formaldehyde | 50-00-0 | 0.10000 | 0.00001 | |
| | | | Sodium chloride | 7647-14-5 | 1.00000 | 0.00001 | |
| | | | Propargyl Alcohol | 107-19-7 | 10.00000 | 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)

