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

| API 47 - 033 - 05690 County Harrison | n Distri | ct Union | | | | | | |
|--|----------------------------|--------------------|---|--|--|--|--|--|
| Quad Big Isaac 7.5' Pad Name Wash | | Pool Name | | | | | | |
| Farm name Richard B. Washbourne | Well | Number Carpen | ter Unit 2H | | | | | |
| Operator (as registered with the OOG) Antero Resources | Appalachian Corporation | 1 | _ | | | | | |
| Address 1615 Wynkoop Street City Der | nver S | tate CO | Zip80202 | | | | | |
| As Drilled location NAD 83/UTM Attach an as-drille Top hole Northing 4337316.575m Landing Point of Curve Northing Bottom Hole Northing | Easting | 41724.674m | | | | | | |
| Elevation (ft) 1290' GL Type of Well | ■New □ Existing | Γype of Report □Ii | nterim BFinal | | | | | |
| Permit Type □ Deviated □ Horizontal ■ Horizon | atal 6A 🗆 Vertical | Depth Type | Deep • Shallow | | | | | |
| Type of Operation □ Convert □ Deepen ■ Drill □ | Plug Back | □ Rework □ | Stimulate | | | | | |
| Well Type □ Brine Disposal □ CBM ■ Gas ■ Oil □ Sec | condary Recovery | n Mining | ge 🗆 Other | | | | | |
| Type of Completion ■ Single □ Multiple Fluids Produ | iced □ Brine ■Gas □ I | NGL ■ Oil □ 0 | Other | | | | | |
| Drilled with □ Cable ■ Rotary | | | | | | | | |
| Drilling Media Surface hole ■ Air □ Mud □ Fresh War Production hole □ Air ■ Mud □ Fresh Water □ Brind Mud Type(s) and Additive(s) Air - Foam & 4% KCL | | | Fresh Water Brine RECEIVED Office of Oil and Gas JUN 0 8 2020 | | | | | |
| Mud - Polymer | | | WV Department of Invironmental Protection | | | | | |
| Date permit issued12/13/2012 Date drilling comm | menced 11/13/2013 | Date drilling ceas | | | | | | |
| Date completion activities began N/A | Date completion activities | | N/A | | | | | |
| Verbal plugging (Y/N) N/A Date permission grante | NI/A | ranted by | N/A | | | | | |
| Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug | | | | | | | | |
| Freshwater depth(s) ft25', 258', 282' | Open mine(s) (Y/N) depths | 8 | No | | | | | |
| Salt water depth(s) ft1480' | Void(s) encountered (Y/N) | depths | No | | | | | |
| Coal depth(s) ft213', 373', 523' | Cavern(s) encountered (Y/ | N) depths | No | | | | | |
| Is coal being mined in area (Y/N)No | | | Reviewed by: | | | | | |

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| API 47- 033 | _ 05690 | | Farm name_R | ichard B. Wa | ashbou | rne | We | ll num | _{iber_} Carp | enter | Unit 2H | |
|--|---|----------------|-------------|---|--|-------------------------|------------------------------|----------------|-----------------------|-----------|---|--|
| CASING STRINGS | Hole Size | Casing Size | | | w or sed | | | Baske Depth | | | nent circulate (Y/N) ide details below* | |
| Conductor | 24" | 20' | " 4 | 10' N | lew | 94# | , H-40 | 1 | N/A | | Υ | |
| Surface | | | | | | | | | | | | |
| Coal | | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | |
| Intermediate 1 | | | | | | | | | | | | |
| Intermediate 2 | | | | | | | | | | | | |
| Intermediate 3 | | | | | | | | | | | | |
| Production | | | | | | _ | | | | | | |
| Tubing | | | | | | - | | | | | | |
| Packer type and depth set N/A | | | | | | | | | | | | |
| Comment Details | Comment Details | | | | | | | | | | | |
| CEMENT | Class/Type | | Number | Slurry | Yie | | Volume (ft ²) | • | Cemen | | woc | |
| DATA Conductor | of Cement | | of Sacks | wt (ppg) | (π-/ | (ft ³ /sks) | | [| Top (MI | <u>U)</u> | (hrs) | |
| Surface | | +- | | | <u> </u> | | | | | | | |
| Coal | | | | | | | | | | | | |
| Intermediate 1 | | | | | | *** | | | | | | |
| Intermediate 2 | | | | | | | | | | | | |
| Intermediate 3 | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | | | |
| Production | | | | | | | | | - | | | |
| Tubing | | | | | | | | | | | | |
| Deepest forma | Drillers TD (ft) 40' (Deepest Point Drilled) Deepest formation penetrated Marcellus Plug back procedure N/A Loggers TD (ft) N/A Plug back to (ft) N/A RECEIVED Office of Oil and Gas | | | | | | | | | | | |
| Kick off depth (ft) N/A WV Department of Environmental Protection | | | | | | | | | | | | |
| Check all wire | Check all wireline logs run | | | | | | | | | | | |
| Well cored □ Yes ■ No Conventional Sidewall Were cuttings collected □ Yes ■ No | | | | | | | | | | | | |
| DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING Conductor - 0 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| WAS WELL COMPLETED AS SHOT HOLE | | | | | | | | | | | | |
| WAS WELL | COMPLETED | OPEN H | OLE? DY | es 🖪 No | DETA | ILS _ | | | | | | |
| WERE TRAC | WERE TRACERS USED □ Yes ■ No TYPE OF TRACER(S) USED N/A | | | | | | | | | | | |

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Please insert additional pages as applicable.

| API 4 | API 47- 033 - 05690 Farm name Richard B. Washbourne Well number Carpenter Unit 2H | | | | | | | | | | | | |
|--------------------|---|---|-----------|-----------------------|-------------|--|---------------------------|-------------------------------------|-----------------|---------------------------------------|---------------|------------------------------------|--|
| PERFORATION RECORD | | | | | | | | | | | | | |
| Stage No. | Perforation | date | | orated from MD ft. | Pe | rforated to MD ft. | | lumber of erforations | Formation(s) | | | | |
| | 3 | *PL | .EA | SE | SEE | AT | TACHED EXHII | | | | 3IT 1 | | |
| | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | - | | |
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| | | | | | | | | | | | | NEOEWED | |
| Please | insert addition | onal pag | ges as ap | plicable. | | | | | | | | RECEIVED of Oil and Gas | |
| | | | | S | TIMULA | TION INFO | ORMA | TION PER | STAGE | | _ | 0 8 2020 | |
| Compl | lete a separat | e record | l for eac | h stimula | tion stage. | | | | | | WV Environ | Department of mental Protection | |
| Stage No. | Stimulations Date | ns Ave Pump Ave Treatment Max Breakdown Amount of Rate (BPM) Pressure (PSI) Pressure (PSI) ISIP (PSI) Proppant (Ibe | | | | | Amount of Water (bbls) | Amount of Nitrogen/other (units) | | | | | |
| | | *5 | | \ OF | · 0E | | TA | | <u> </u> | ·VII | DIT (| | |
| | | "P | LE/ | 45E | 3E | EAI | 1 /4 | CHE | ט ב | :XH | IBIT 2 | 2 | |
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|-------------------------|-------------------|---------------|----------------------------|----------------|----------------|-------------|--|---------------------------------|--|--|
| API 47- 033 | _05690 | Farm | name Richard | B. Washbo | ourne | Well numb | _Well number_Carpenter Unit 2H | | | |
| PRODUCING Marcellus | FORMATION(S | <u>S)</u> | <u>DEPTHS</u> N/A (TOP) | _TVD <u>^</u> | N/A (TOP) | MD | | | | |
| Please insert ac | Iditional pages a | s applicable. | | | | | | | | |
| GAS TEST | □ Build up □ | Drawdown | ■ Open Flow | C | DIL TEST 🔠 | Flow □ Pun | ıp | | | |
| SHUT-IN PRE | SSURE Surfa | ace | psi Botto | m Hole | psi | DURATION | OF TEST | hrs | | |
| OPEN FLOW | | | NGL bpd <u></u> | | | | SURED BY | ı Pilot | | |
| LITHOLOGY/ FORMATION | DEPTH IN FT | | DEPTH IN FT | | | | ID RECORD QUANT ATER, BRINE, OIL, (| | | |
| | *PLE | ASE | SEE A | TTA | CHED | EXH | IBIT 3 | | | |
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| | | | | | | | Office of | Oil and Gas | | |
| | | | | | | | JUN | 0 8 2020 | | |
| | | | | | | | | partment of ental Protection | | |
| Please insert ac | lditional pages a | s applicable. | | | | | | | | |
| Drilling Contra | actor N/A | | City | | | State | Zip | | | |
| Logging Comp | oany N/A | | City | | | State | Zip | | | |
| Cementing Co | mpany N/A | | | | | | Zip | | | |
| Address | | | | | | State | Zip | | | |
| | dditional pages a | s applicable. | | | Telephone | 303-357-722 | 3 | | | |
| Signature | NV(VQI | 1 | Title P | ermitting Agen | nt | Date | 10.10.20 | <u> </u> | | |
| Submittal of H | ydraulic Fractur | ing Chemical | Disclosure Info | rmation | Attach copy of | of FRACFOC | US Registry | | | |

