WR-35 Rev (9-11)

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

| DATE: | 9/26/2013 |
|-------|--------------|
| API#: | 47-033-05659 |

| Farm name: Kovar, Steve C. | Operator Well | No.: Cleta Unit | 1H | |
|--|--|------------------|--|--|
| LOCATION: Elevation: 1,405' | _ Quadrangle: _E | Big Isaac | | |
| District: Union Latitude: 15,279' Feet South of 39 Deg. Longitude 9908' Feet West of 80 Deg | | .00 See | | |
| Company: Antero Resources Corporation | | | | |
| Address: 1625 17th Street | Casing & Tubing | Used in drilling | Left in well | Cement fill up Cu. Ft. |
| Denver, CO 80202 | 20" 94# | 40' | 40' | 38 Cu. Ft. Class |
| Agent: CT Corporation System | 13-3/8" 48# | 673' | 673' | 935 Cu. Ft. Class |
| Inspector: Sam Ward | 9-5/8" 36# | 2,520' | 2,520' | 1026 Cu. Ft. Class |
| Date Permit Issued: 9/28/2012 | 5-1/2" 20# | 16,109' | 16,109' | 4013 Cu. Ft. Class |
| Date Well Work Commenced: 9/29/2012 | | | | |
| Date Well Work Completed: 2/23/2013 | 2-3/8" 4.7# | 7,463' | | |
| Verbal Plugging: N/A | | | | |
| Date Permission granted on: N/A | | | | |
| Rotary Cable Rig | | | | |
| Total Vertical Depth (ft): 7432' TVD (deepest po | int drilled) | | | |
| Total Measured Depth (ft): 16,109' MD, 7,371' TV | /D (BHL) | | | |
| Fresh Water Depth (ft.): 360' | | | | |
| Salt Water Depth (ft.): None Available | | | | 1 |
| | | | <u> </u> | |
| Is coal being mined in area (N/Y)? N | | | | - |
| Coal Depths (ft.): 333', 625', 930' | | | <u> </u> | - |
| Void(s) encountered (N/Y) Depth(s) N, N/A | <u> </u> | | | |
| OPEN FLOW DATA (If more than two producing formation Producing formation Marcellus Pay Gas: Initial open flow MCF/d Oil: Initial open flow 11,440 MCF/d Final open flow Time of open flow between initial and final tests Static rock Pressure 3600 psig (surface pressure) a Second producing formation Pay 20 | wBb Hours | .e .b. Nq | nr/ 1 9 20.3 Departme | |
| Gas: Initial open flow MCF/d Oil: Initial open | flowB | ol/d - | .CHair | |
| Final open flow MCF/d Final open flo | | Vd | | |
| Time of open flow between initial and final tests | | _ | | |
| Static rock Pressure psig (surface pressure) a | fter Hou | 75 | | |

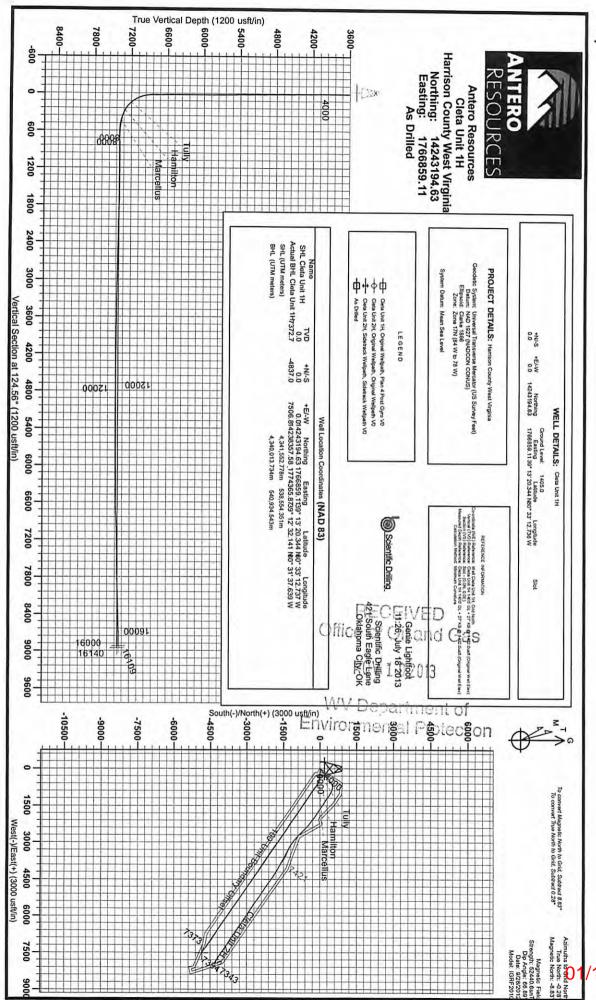
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

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| Were core samples taken? Yes? | No X We | ere cuttings caught during drilling? | Yes No_X |
|--|---|---|--------------------------------------|
| Were Electrical, Mechanical or Geophysic | cal logs recorded on this well! | If yes please list Yes- CBL | |
| This is a subsequent well. Antero only runs wireline logs on the fin | st well on a multi-well pad (Cleta Unit 2H APH47. | 033-05651). Please reference the wireline logs submitte | d with Form WR-35 for Cleta Unit 2H. |
| - | | | |
| NOTE: IN THE AREA BELOW FRACTURING OR STIMULATING, DETAILED GEOLOGICAL RECOI COAL ENCOUNTERED BY THE WI | , PHYSICAL CHANGE, ET RD OF THE TOPS AND | C. 2). THE WELL LOG WHIC BOTTOMS OF ALL FORMA | H IS A SYSTEMATIC |
| Perforated Intervals, Fracturing, or Stimul | lating: | | |
| Perforations: 7,628' - 16,043' MD | <u> </u> | ·- · · · · · · · · · · · · · · · · · · | |
| Frac'd w/ 12,500 gals 15% HCL A | cid, 178,943 bbls Slick V | Nater carrying 933,000# 10 | 0 mesh, |
| 3,432,200# 40/70 sand and 1,935 | ,000# 20/40 sand. | | |
| | | | |
| | | | |
| | | | |
| Plug Back Details Including Plug Type ar | nd Denth(c): ALIA | | |
| Trug Duck Domito Molading Trug Typo di | IN/A | | |
| Formations Encountered: | Top Depth | | Bottom Depth |
| Surface: | 2200 | | 22701 |
| Big Lime Big Injun | 2280' 2380' | | 2379' 2682' |
| Santz Sand | 2683' | | 2822' |
| Fifty Foot Sandstone | 2823' | D-OEN (ED | 2895' |
| Gordon | 2896' | RECEIVED | |
| Fifth Sandstone | 3070' | Office of Cil and G | 3111' |
| Bayard | 3112' | | 3887' |
| Speechley | 3888' | NOV 1 9 2013 | 4142' |
| Balltown | 4143' | | |
| Bradford | 4678' | WV Department of | ³⁵ 5192' |
| Benson | 5193' | Environmental Prote | C:5369' |
| Alexander | 5370' | | 5519' |
| Elk | 5520' | | 6798' |
| Sycamore | 6799' | | 7021' |
| , Middlesex Shale | 7022' | | 7026' |
| Sonyea | 7027' | | 7172' |
| Burkett | 7173' | | 7200' |
| Tully Hamilton | 7201' | | 7304' |
| lamilton Shale | 7305' | | 7364' |
| Marcellus | 7365' | | 7432' TVD |



| Hydraulic Fracturing Fluid Composition: | ing Fluid Comp | osition: | | REC | REC e of a | ' Depi | |
|---|---|---------------------------|-------------------------|--|---|--|----------|
| The Land | | | | | | | |
| i rade 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 | ANTERO RESOURCE S | Water | Water | 7732-18-5 | 100.00% | 89.56140% | |
| HCL Acid (12.5%-18.0%) | Nabors Completion and Production Services | Bulk Acid | Hydrogen Chloride | 7647-01-0 | 18.00% | 0.02910% | |
| HCL Acid (12.5%-18.0%) | Nabors Completion and Production Services | Bulk Acid | Water | 7732-18-5 | 87.50% | 0.14160% | |
| Acid Inhibitor 2 (AI-2) | Nabors Completion and Production Services | Acid Corrosion Inhibitors | 2-Butoxyethanol | 111-76-2 | 13.00% | 0.00004% | |
| Acid Inhibitor 2 (AI-2) | Nabors Completion and Production Services | Acid Corrosion Inhibitors | Dioxane | 123-91-1 | 1.00% | 0.00000% | |
| Acid Inhibitor 2 (AI-2) | Nabors Completion and Production Services | Acid Corrosion Inhibitors | Ethoxylated Nonylphenol | 68412-54-4 | 13.00% | 0.00004% | |
| Acid Inhibitor 2 (AI-2) | Nabors Completion and Production | Acid Corrosion Inhibitors | Glycol Ethers | 111-46-6 | 40.00% | 0.00012% | |

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|----------------------------------|---|---|---|---|---|---|---|---|---|--|---|---|
| WFR-3B | | | | | WFR-3B | 2 | | | Acid Inhibitor 2 (AI-2) | Acid Inhibitor 2 (AI-2) | Acid Inhibitor 2 (AI-2) | Acid Inhibitor 2 (AI-2) |
| Nabors Completion and Production | Nabors Completion and Production Services | Nabors Completion and Production Services | Nabors Completion and Production Services | Nabors Completion and Production Services | Nabors Completion and Production Services | Nabors Completion and Production Services | Nabors Completion and Production Services | Nabors Completion and Production Services | Nabors Completion and Production Services | Nabors Completion and Production Services | Nabors Completion and Production Services | Nabors Completion and Production Services |
| Friction Reducer | Friction Reducer | Friction Reducer | Friction Reducer | Friction Reducer | Friction Reducer | Biocides | | Biocides | Acid Corrosion Inhibitors | Acid Corrosion Inhibitors | Acid Corrosion Inhibitors | Acid Corrosion Inhibitors Isopropyl Alcohol |
| Ргоруівпе діусоі | Polyacrylamide | Microparticle | Hydrotreated light distillates, non-aromatic, BTEX free | Ethoxylated oleylamine | Ethoxylated alcohols | Water | Polyethlyene-Gly∞l | 2,2-dibromo-3-nitrilopropionamide | Water | Tar bases, quinoline derivs, benzyl chloride-quaternized | Propargyl Alcohol | Isopropyl Alcohol |
| 57-55-6 | 57-55-6 | Proprietary | 64742-47-8 | 26635-93-8 | 68551-12-2 | 7732-18-5 | 25322-86-3E RE Office c | 10222-01-2 | i Gas | 72480-70-7 | 107-19-7 | 67-63-0 |
| 15.00% | 40.00% | 1.00% | 50.00% | 5.00% | 15.00% | 80.00% | | parlmiğ Intal Pro | | 10.00% | 40.00% | 40.00% |
| 0.00853% | 0.02280% | 0.00057% | 0.02840% | 0.00285% | 0.00853% | 0.01230% | 0.00771% | 0.00308% | 0.00014% | 0.00003% | 0.00012% | 0.00012% |
| | | | | | | | | | | | | |

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|-----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| LSG-100L | L\$G-100L | LSG-100L | OB-2 | OB-2 | OB-2 | EB-4L | EB-4L | EB-4L | EB4L | EB-4L | EB-4L | WFR-3B |
| Nabors Completion and | Nabors Completion and Production Services | Nabors Completion and Production Services | Nabors Completion and Production Services | Nabors Completion and Production Services | Nabors Completion and Production Services | Nabors Completion and Production Services | Nations Completion and Production Services | Nabors Completion and Production Services | Nabors Completion and Production Services | Nabors Completion and Production Services | Nabors Completion and Production Services | Nabors Completion and Production Services |
| Gelling Agents | Gelling Agents | Gelling Agents | Gel Breakers | Gel Breakers | Gel Breakers | Gel Breakers | Gel Breakers | Gel Breakers | Gel Breakers | Gel Breakers | Gel Breakers | Friction Reducer |
| Organophylic Clay | guar gum | Crystalline Silica (in the form of quartz) | vinylidene chloride-methyl acrylate copolymer | Sillica, crystalline quartz | Ammonium Persulfate | Water | Sugar | Ethylene Glycol | Demulsifier Base | Cellulase enzyme | Breaker Component | Water |
| 68953-58-2 | 9000-30-0 | 14808-60-7 | 25038-72-6 | 7631-86-9 | 7727-54-0 | 7732-18-5 | 97-50-1 O | 197-21-1 PA ECO Iffice GA (| Proprietary EVED Jil and (| Proprietary (2) | Proprietary | 7732-18-5 |
| 0.00% | 50.00% | 2.00% | 20.00% | 10.00% | 100.00% | Proprietary | Proprietary V | NOV 1 NOV Des ronmen | 22013 Policy 271mer# fal Prote | Proprietary Of CtiO: | Proprietary | 40.00% |
| 0.00000% | 0.02470% | 0.00099% | 0.00159% | 0.00079% | 0.00794% | 0.00054% | | | | | 0.00054% | 0.02280% |
| | | 23.4 | | | | | | | | | | |

33.05659

| | | | | | | | | | | | 33.0 | 15659 | |
|--------------------------------|--|---|--------------------------------|---|---|---|---|---|---|---|---|---|------------------------|
| WV Specific 20/40 mesh Sand | WV Specific 20/40 mesh Sand | WV Specific 100 mesh Sand | | WV Specific 100 mesh Sand | WV Specific 100 mesh Sand | Super TSC-LT | LSG-100L | LSG-100L | |
| 9 | Nabors Completion and Production Production Services | Nabors Completion and Production Peroduction Services | 5 5 | Nabors Completion and Production Services | Production Services |
| Sand - Buik - West Virginia | Sand - Bulk - West Virginia | Sand - Bulk - West Virginia | Sand - Bulk - West Virginia | Sand - Buik - West Virginia | Sand - Bulk - West Virginia | Paraffin & Scale Additives | Gelling Agents | Geiling Agents | |
| Crystalline Silica, quartz | Aluminum Oxide | Titanium Oxide | Iron Oxide | Crystalline Silica, quartz | Aluminum Oxide | Water | Proprietary | Proprietary | Proprietary | Proprietary | Surfactant | Petroleum Distillates | |
| 14808-60-7 | 1344-28-1 | 13463-67-7 | 1309-37-1 | 14808-60-7 | 1344-28-1 | 7732-18-5 | ` | Proprietary REC | Proprietary EIVED Oil and | Proprietary | 68439-51-0 | 64742-47-8 | |
| 99.90% | 1.10% | 0.10% | 0.10% | 99.90% | 1.10% | 60.00% | 50.88% E:0:0: | NOV 1 | 9 2013 Trimer tal Prote | of 5.0% | 2.00% | 70.00% | |
| 2.87040% | 0.03160% | 0.00181% | 0.00181% | 1.80790% | 0.01990% | 0.00692% | 0.00577% | 0.00173% | 0.00173% | 0.00173% | 0.00099% | 0.03460% | |
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| Total Water Volume Information is base rgredient information | WV Specific 40/70 mesh Sand | WV Specific 20/40 mesh Sand | WV Specific 20/40 mesh Sand | |
| sources may d on the maxin for chemicals | Nabors Completion and Production Services | Production Services |
| include fresh water, produ num potential for concent subject to 29 CFR 1910: | Sand - Bulk - West Virginia | Sand - Buik - West Virginia | Sand - Bulk - West Virginia | |
| * Total Water Volume sources may include fresh water, produced water, and/or recycled water ** Information is based on the maximum potential for concentration and thus the total may be over 100% Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data | Titanium Oxide | Iron Oxide | Crystalline Silica, quartz | Aluminum Oxide | Titanium Oxide | Iron Oxide | |
| 00% om suppliers Material Sai | 13463-67-7 | 1309-37-1 is j | 14808-60-7 CELVEE COIL CANS | 1344-28-1 | 13463-67-7 | 1309-37-1 | |
| fety Da | | Diffee of | Oil and | Gas | | | |
| ata Sheets (MSDS) | 0.10% 上 | NOV0.10% | I 92013 g eartmen ntal Prot | t of ection | 0.10% | 0.10% | |
| | 0.00545% | 0.00545% | 5.44620% | 0.06000% | 0.00287% | 0.00287% | |
| | | | | | | | |