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: | 6/15/2011 |
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| | |

API #: 47-033-05428

UPDATED: 4/20/12

| arm name: Cunningham, Frank D & Patrick H. | | Operator Well | Operator Well No.: Haney Unit 2H | | | |
|----------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------|--|
| OCATION: Elevation: 1301' | | Quadrangle: | Quadrangle: Wolf Summit | | | |
| District: Coal | | County Harris | County: Harrison | | | |
| Latitude: 2630 | Feet South of 39 | Deg. 20 Min. | | c. | | |
| Longitude 10,415 | Feet West of 80 | Deg. 25 Min. | oo Se | c. | | |
| Company: Antero Resou | rces Appalachian Corp | | | | | |
| Address: 1625 17th Str | | Casing & Tubing | Used in drilling | Left in well | Cement fill up Cu. Ft. | |
| Denver, CO 80202 | | 20" 94# | 40' | 40' | 38 Cu. Ft. Class A | |
| Agent: CT Corporation System | | 13-3/8" 68# | 495' | 495' | 688 Cu. Ft. Class A | |
| Inspector: Tristan Jenkins | | 9-5/8" 40# | 2508' | 2508' | 1022 Cu. Ft. Class A | |
| Date Permit Issued: 6/3/2010 | | 5-1/2" 20# | 13133' | 13133' | 3196 Cu. Ft. Class H | |
| Date Well Work Comme | | | - | | - | |
| Date Well Work Comple | 0.17/0044 | 2-3/8" 4.7# | 7279' | | | |
| Verbal Plugging: | N/A | | | | | |
| Date Permission granted | on: N/A | | | | | |
| Rotary Cable | Rig | | | | | |
| Total Vertical Depth (ft | -4-01 - 40 / I | t point drilled) | | | | |
| Total Measured Depth (| 404001 MED 70401 | TVD (BHL) | | | | |
| Fresh Water Depth (ft.): | | | | | | |
| Salt Water Depth (ft.): | | | *Due to air drilling, Antero was unable to identify accurate fresh water, salt water and/or coal depths for reporting. | | | |
| | Is coal being mined in area (N/Y)? NO | | | | | |
| Coal Depths (ft.): *None | | reporting. | | ı | 1 | |
| Void(s) encountered (N/) | | | | | | |
| DPEN FLOW DATA (If more Producing formation Marcell Gas: Initial open flow 11687 | us | Pay zone depth (ft) 7 en flow N/A Bb | 130' TVD (To l/d | | heet) | |
| Time of open flow between | - | | | | | |
| Static rock Pressure 3300 | psig (surface pressure | e) afterHour | S | | | |
| Second producing formation | Pa | y zone depth (ft) | | | | |
| Gas: Initial open flow | | • \ / | | | | |
| Final open flow | | | | | | |
| Time of open flow betwe | | | | | | |
| Static rock Pressure | | | s | | | |

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.

ure

Date

| Were core samples taken? | YesNo_X | Were cuttings cau | ght during drilling? Yes | No_X |
|---------------------------------------------|-----------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------|----------------------|
| Were Electrical, Mechanica | l or Geophysical logs recorde | ed on this well? If yes, please | list Yes - Cement Bond Log/Gamm | a Ray/CCL Log |
| This is a subsequent well. Antero only runs | wireline logs on the first well on a multi-well pad | I (Haney Unit 1H API# 47-033-05427). Please re | eference wireline logs submitted with Form WR-3 | 5 for Haney Unit 1H. |
| FRACTURING OR STIN DETAILED GEOLOGIC | MULATING, PHYSICAL C CAL RECORD OF THE | CHANGE, ETC. 2). THE W | LS OF PERFORATED IN ELL LOG WHICH IS A SY DF ALL FORMATIONS, I L DEPTH. | STEMATIC |
| Perforated Intervals, Fractur | ring, or Stimulating: | | | |
| Perforations: 7514' - 13 | 3,066' MD (1008 holes) | | | |
| Frac'd w/4,500 gals 15 | % HCL Acid, 90,180 bb | ls Slick Water carrying | 144,800# 100 mesh, | |
| 2,003,400# 40/70 and | 1,352,200# 20/40 sand. | | | |
| | | | | |
| Plug Back Details Including | Plug Type and Depth(s): N | 'A | | |
| Formations Encountered: Surface: | | Γορ Depth / | Bottom D | <u>epth</u> |
| **Burkett | | 6911' | 6936' | |
| Tully | (| 6937' | 7055' | |
| Hamilton | - | 7056' | 7129' | |
| Marcellus | | 7130' | 7172' TVD | |
| **Antero only runs wireline logs on the | he first well on a multi-well pad (Han | ey Unit 1H). Since this is a subseque | ent well, our logging started at the top | of the Burkett. |
| Therefore, we are unable to accurately iden | tify formation tops from surface. Please ref | erence the additional formation tops submitte | ed on Form WR-35 for the Haney Unit 1H (Af | PI# 47-033-05427). |
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