

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: 11/12/2012  
API #: 47-033-05583

Farm name: Hurst, Clara Mae et al Operator Well No.: Saylor Unit 2H

LOCATION: Elevation: 1172' Quadrangle: West Milford

District: Union County: Harrison  
Latitude: 10,590' Feet South of 39 Deg. 12 Min. 30 Sec.  
Longitude 7,810' Feet West of 80 Deg. 27 Min. 30 Sec.

Company: Antero Resources Appalachian Corp

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
1625 17th Street Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 54.5#	598'	598'	831 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2752'	2752'	1121 Cu. Ft. Class A
Date Permit Issued: 1/25/2012	5-1/2" 20#	15465'	15465'	3778 Cu. Ft. Class H
Date Well Work Commenced: 3/7/2011				
Date Well Work Completed: 7/11/2012	2-3/8" 4.7#	7107'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 7162' TVD				
Total Measured Depth (ft): 15465' MD, 7161' TVD (BHL)				
Fresh Water Depth (ft.): est. 175'				
Salt Water Depth (ft.): est. 1318', 1403', 1787', 2077'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): est. 103', 167', 223'				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 7020' TVD (Top)

Gas: Initial open flow ----- MCF/d Oil: Initial open flow N/A Bbl/d

Final open flow 8770 MCF/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests N/A Hours

Static rock Pressure 3800 psig (surface pressure) after ----- Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests \_\_\_\_\_ Hours

Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

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.

Lisa Botinelle  
Signature

11/19/12  
Date

Were core samples taken? Yes \_\_\_\_\_ No

Were cuttings caught during drilling? Yes  No \_\_\_\_\_

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes - CBL, Photo Density/Compensated Neutron/  
Gamma Ray, and Dual Laterolog/Density Caliper/ Gamma Ray.

**NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.**

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7199' - 15400' MD (1704 holes)

Frac'd w/ 12,500 gals 15% HCL Acid, 170,696bbls Slick Water carrying 887,500# 100 mesh,  
3,403,300# 40/70 and 2,037,100# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
Surface:		
Big Lime	1,672'	1,773'
Big Injun	1,774'	2,137'
Fifty Foot Sand	2,138'	2,243'
Gordon	2,244'	2,534'
Fifth Sandstone	2,535'	2,576'
Bayard	2,577'	3,223'
Speechley	3,224'	3,470'
Balltown	3,471'	3,989'
Bradford	3,990'	4,610'
Benson	4,611'	4,846'
Alexander	4,847'	4,994'
Elk	4,995'	5,592'
Rhinestreet	5,593'	6,386'
Sycamore	6,387'	6,640'
Middlesex	6,641'	6,808'
Burkett	6,809'	6,839'
Tully	6,840'	6,957'
Hamilton	6,958'	7,019'
Marcellus	7,020'	7,162'

RECEIVED

DEC 1 1989

WYOMING DEPARTMENT OF ENERGY  
NATURAL RESOURCES DIVISION

WELL NAME: Saylor Unit 2H

API #: 47-033-05583

**Antero Resources Appalachian Corporation**

**Addendum to Form WR-35 - List of Additives Actually Used for  
Fracturing Or Stimulating Well**

ADDITIVES	CHEMICAL ABSTRACT SERVICE NUMBER (CAS #)
AI-2	Mixture
Ethylene Glycol Monobutyl Ether (2-Butoxyethanol)	111-76-2
Propargyl Alcohol	107-19-7
Isopropanol (Isopropyl Alcohol)	67-63-0
Proprietary Blend	Proprietary
EB-4L (Ethylene Glycol)	107-21-1
Hydrochloric Acid	7647-01-0
KR-153-SL	Unknown/Unavailable
LSG-100	Unknown/Unavailable
OB-2	Unknown/Unavailable
PH-15L	Unknown/Unavailable
Super TSC LT	Unknown/Unavailable
WFR-3B	Mixture
Petroleum distillate hydrotreated	64742-47-8
Mineral Spirits	8052-41-3
Propylene Glycol	57-55-6
Ethoxylated Alcohols	68551-12-2