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:	11/20/2012	
API #:	47-033-05596	

Farm name: Williams, Betty Ann	Operator Well No.: Andrews Unit 1H				
LOCATION: Elevation: 1215	Quadrangle: Wolf Summit				
District: Tenmile	County: Harris	on			
Latitude: 3,395 Feet South of 39 Deg.	17 Min.	30 Sec			
Longitude 8,860 Feet West of 80 Deg	. <u>27</u> Min.	30 Sec	•		
Company: Antero Resources Appalachian Corp					
Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.	
Denver, CO 80202	20" 94#	67'	67'	64 Cu. Ft Class A	
Agent: CT Corporation System	13-3/8" 54.5#	502'	502'	697 Cu. Ft. Class A	
Inspector: Tristan Jenkins	9-5/8" 36#	2587'	2587'	1053 Cu. Ft. Class A	
Date Permit Issued: 5/17/2012	5-1/2" 20#	_14,552'	14,552'	3576 Cu. Ft. Class H	
Date Well Work Commenced: 5/19/2012					
Date Well Work Completed: 9/9/2012	2-3/8" 4.7#	7058'			-
Verbal Plugging: N/A					
Date Permission granted on: N/A					
Rotary Cable Rig					
Total Vertical Depth (ft): 7,065' TVD					
Total Measured Depth (ft): 14,552' MD					
Fresh Water Depth (ft.): 136', 207', 297'					
Salt Water Depth (ft.): None					
Is coal being mined in area (N/Y)? No			<u> </u>		
Coal Depths (ft.): 116', 196', 221'					ı
Void(s) encountered (N/Y) Depth(s) No, N/A					
			lete on consta	sheet)	
OPEN FLOW DATA (If more than two producing format Producing formation Marcellus Pay	tions please incluy zone depth (ft)_	6,940' TVD (rop)	Silect)	
Gas: Initial open flow MCF/d Oil: Initial open	flow N/A B	bl/d			
Final open flow 11,758 MCF/d Final open flo		ol/d			
Time of open flow between initial and final tests N/	A Hours	5			
Static rock Pressure 3600 psig (surface pressure)	afterHou	ırs			
	zone depth (ft)				
Gas: Initial open flowMCF/d Oil: Initial open		bl/d	!	E	
Final open flow MCF/d Final open flo		bl/d		OFFICE	
Time of open flow between initial and final tests	Hours				_
Static rock Pressurepsig (surface pressure)]]
I certify under penalty of law that I have personally examine	ed and am familia	r with the info	rmation submitt	edion this document	And Relieve
all the attachments and that, based on my inquiry of those in	dividuals immedi	iately responsi	ole for optaining		Delic ve
that the information is true, accurate, and complete.	نه المصن	1	يحالمدل		2013
Signature	e e		Date	S - S	

Were core samples taken? Yes				., X
Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list YES — CLR. This is a subsequent well. Armon only man shribbs logic on the list well on a multiplea (Post fact this 8) (Post Archarocard widers logic and multiplea (Post fact this 8) (Post Archarocard widers logic and multiplea (Post fact this 8) (Post fact fact fact fact fact fact fact fac	Were core samples taken? YesN			N0 <u>/</u>
NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTER FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEM DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUCAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH. Perforated Intervals, Fracturing, or Stimulating: Perforated Intervals, Fracturing, or Stimulating: Perforations: 7099'-14,487' MD (1596 holes) Frac'd w/ 13,986 gals 15% HCL Acid, 158,343 bbls Slick Water carrying 776,059# 100 mesh, 2,936,779# 40/70 and 1,765,469# 20/40 sand. Plug Back Details Including Plug Type and Depth(s): N/A Formations Encountered: Top Depth Bottom Depth Surface: Big Lime (est.) 1,586' 2,120' Fifty Foot Sand (est.) 2,121' 2,247' Fifty Foot Sand (est.) 2,248' 2,532' Gordon (est.) 2,533' 3,2583' Fifth Sandstone (est.) 3,240' 3,467' Speechley (est.) 3,240' 3,467' Speechley (est.) 3,468' 4,001' Balltown (est.) 4,579' 4,871' Benson (est.) 4,579' 4,871' Benson (est.) 4,579' 6,28' Finnestreet (est.) 5,629' 6,297' Rhinestreet (est.) 5,629' 6,297' Rhinestreet (est.) 5,629' 6,554' Middlesex 6,555' 6,558' Middlesex 6,555' 6,558' Middlesex 6,559' 6,630' Sonyea 6,684' 6,720' West River Shale 6,631' 6,683' West River Shale 6,631' 6,683' West River Shale 6,631' 6,683' West River Shale 6,6721' Tully			ase list Yes – CBL.	- 5-41-2 FU
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### PRACTURING OR STIMULATING, PHYSICAL CHANGE, ELC. 3 DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLICOAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH. Perforated Intervals, Fracturing, or Stimulating: Perforations: 7099'-14,487' MD (1596 holes) Frac'd w/ 13,986 gals 15% HCL Acid, 158,343 bbls Slick Water carrying 776,059# 100 mesh, 2,936,779# 40/70 and 1,765,469# 20/40 sand. Plug Back Details Including Plug Type and Depth(s): N/A Formations Encountered: Big Lime (est.) Fifty Foot Sand (est.) 1,586' 2,120' Surface: Big Lime (est.) 1,586' 2,121' 2,247' Fifty Foot Sand (est.) 2,121' 2,248' 3,239' Bayard (est.) 3,240' 3,467' Speechley (est.) 3,468' 4,001' Balltown (est.) 4,578' Bradford (est.) 4,579' Benson (est.) Alexander (est.) 5,629' 6,297' Rhinestreet (est.) 5,629' 6,297' Rhinestreet (est.) 5,629' 6,297' Rhinestreet (est.) 5,629' 6,555' 6,558' Middlesex 6,555' 6,630' Sonyea 6,631' 6,681' West River Shale Genundewa 6,721' 6,746' 6,746' 6,747' 7,065' TVD				
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