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:	11/19/2012	
API#:	47-033-05549	
	*HDDATED	

Farm name: Williams, Edgar - Estate	Operator Well	No.: Williams Ur	alt 1H	
LOCATION: Elevation: 1191'	Quadrangle: <u>V</u>	Volf Summit		
District: Coal	County: Harris	on		
Latitude: 8728' Feet South of 39 Deg.				
Longitude 9173' Feet West of 80 Deg.	22 <u>Min.</u>	30 Sec	ť	
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#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 55#	476'	476'	661 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2620'	2620'	1067 Cu. Ft. Class A
Date Permit Issued: 5/24/2011	5-1/2" 20#	17,129'	17,129	4275 Cu. Ft. Class H
Date Well Work Commenced: 6/4/2011		Depth-Top	Bottom	
Date Well Work Completed: 8/5/2012	Cement Plug	5873'	6073'	150 Cu. Ft. Class A
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary Cable Rig	2-3/8" 4.6#	7117'		
Total Vertical Depth (ft): 7049 TVD (deepest point drilled)				
Total Measured Depth (ft): 17,129' MD, 7049' TVD (BHL)				
Fresh Water Depth (ft.): 153'			<u> </u>	
Salt Water Depth (ft.): 1030'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): Deepest known coal seam mine	d at surface	·		
Void(s) encountered (N/Y) Depth(s) N, N/A				
OPEN FLOW DATA (If more than two producing formation	ons please inclu	de additional de	ata on separate	sheet)
	zone depth (ft)		P)	
Gas: Initial open flowMCF/d Oil: Initial open f	low_N/ABI			
Final open flow 8,881 MCF/d Final open flow				
Time of open flow between initial and final tests N/A				
Static rock Pressure 3300 psig (surface pressure) at	terHou	rs		
Second producing formation Pay zo	ne depth (ft)			
Gas: Initial open flow MCF/d Oil: Initial open f	- ,	bl/d		
Final open flow MCF/d Final open flow		ol/d		
Time of open flow between initial and final tests	Hours	;		
Static rock Pressure psig (surface pressure) a	fterHou	rs		

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.

Signature

119/12-

Were core samples taken? Yes_	No_X Were	cuttings caught during drilling? YesNoX	
Were Electrical Mechanical or Ge	ophysical logs recorded on this well?	if was please list Yes, CBL.	
This is a subsequent well. Aritero only runs wirefine log	s on the first well on a multi-pad (Southern Unit 2H AP## 47-03	3-05363). Please reference wireline logs submitted with Form WR-35 for Southern L	Init 2H.
		1). DETAILS OF PERFORATED INTERV	
FRACTURING OR STIMULA	FING, PHYSICAL CHANGE, ETC.	. 2). THE WELL LOG WHICH IS A SYSTEM OTTOMS OF ALL FORMATIONS, INCLUI	TI(
	HE WELLBORE FROM SURFACE		MINC
•			
Perforated Intervals, Fracturing, or	Stimulating:		
Perforations: 7127' - 16,798	MD (1884 holes)		
Frac'd w/ 14,008 gals 15% h	ICL Acid, 206,991 bbls Slick W	ater carrying 1,114,000# 100 mesh,	
4,132,200# 40/70 and 2,565,	500# 20/40 sand.		
en eller som må megennemme mærtyen med mil skrikt proteger eller i det i k		tan kanana da da santa da	
	Maringon Company and Company a	Manufacture and the second	
Plug Back Details Including Plug T	ype and Depth(s):		
·	and the second section of the second section is a second section of the second section of the second section of		
Formations Encountered:	Top Depth	/ Bottom Depth	
Surface:			
Big Lime	1,402'	1,494'	
Big Injun	1,495'	1,907'	
Gantz Sand	1,908'	1,964'	
Fifty Foot Sand	1,965'	2,162'	
Gordon	2,163'	2,402'	
Fifth Sandstone	2 ,4 03'	2,471'	
Bayard	2,472'	3,134'	
Speechley	3,135'	3,309'	
Balltown	3,310'	3,832'	
Bradford	3,833'	4,419'	
Benson	3,033		
A.C. A. S.	4,420'	4,809'	
Alexander	-		
	4,420'	4,809'	
Alexander Elk Rhinestreet	4,420' 4,810'	4,809' 5,004'	
Elk	4,420' 4,810' 5,005'	4,809' 5,004' 5,589'	
Elk Rhinestreet Sycamore SS	4,420' 4,810' 5,005' 5,590'	4,809' 5,004' 5,589' 6,278'	
Elk Rhinestreet Sycamore SS Burkett	4,420' 4,810' 5,005' 5,590' 6,279'	4,809' 5,004' 5,589' 6,278' 6,731'	
Elk Rhinestreet	4,420' 4,810' 5,005' 5,590' 6,279' 6,732'	4,809' 5,004' 5,589' 6,278' 6,731' 6,756'	

WELL NAME: Williams Unit 1H API #: 47-033-05549

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	