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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:	8/27/2013	
API#:	47-017-06097	

Farm name: Elton D. Whitehair et al	_ Operator Well	No.: Yoke Unit 1	<u>H</u>	
LOCATION: Elevation: 1,241'	_ Quadrangle: _	New Milton 7.5'		
District: New Milton	County: Doddi	ridge		
	Min.			
Longitude 215' Feet West of 80 Dep	g. <u>40</u> Min.	. <u>00</u> Sec.		•
Company: Antero Resources Corporation				. <u>.</u>
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" 48#	418'	418'	581 Cu. Ft. Class A
Inspector: Douglas Newlon	9-5/8" 36#	2,528'	2,528'	1029 Cu. Ft. Class A
Date Permit Issued: 5/31/2012	5-1/2" 20#	15,724'	15,724'	3902 Cu. Ft. Class H
Date Well Work Commenced: 8/24/2012				
Date Well Work Completed: 2/20/2013	2-3/8" 4.7#	7,441'		
Verbal Plugging: N/A				
Date Permission granted on: N/A	Cement Plug	Тор	Bottom	
Rotary Cable Rig		800'	1000'	314 Cu. Ft. Class A
Total Vertical Depth (ft): 7273' TVD				
Total Measured Depth (ft): 15,724' MD				
Fresh Water Depth (ft.): 350'				
Salt Water Depth (ft.): None Available				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 371', 451', 899'				
Void(s) encountered (N/Y) Depth(s) N, N/A				
OPEN FLOW DATA (If more than two producing format Producing formation Marcellus Pay Gas: Initial open flow MCF/d Oil: Initial open Final open flow 7.646 MCF/d Final open flow	zone depth (ft) 7	177 (TOP) ol/d	ta on separate s	sheet)
Time of open flow between initial and final tests				
Static rock Pressure 3950 psig (surface pressure) a	ifterHour	's	Receiv	10 d
Second producing formation Pay z	one depth (ft)	i	16061	ved
Gas: Initial open flowMCF/d Oil: Initial open		ol/d	055 4	
Final open flow MCF/d Final open flo		I/d	SEP 16	2013
Time of open flow between initial and final tests				
Static rock Pressurepsig (surface pressure) a	ifterHour	'S	Office of Oil and	l Gao

Unice of Oil and Gas
WV Dept. of Environmental Protection
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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11/08/2013

Were core samples taken? YesNo	X Were cu	attings caught during drilling? YesNo_X
Were Electrical, Mechanical or Geophysica	al logs recorded on this well? If y	/es, please list_Yes- CBL 100). Please reference the wireline logs submitted with Form WR-35 for Cristip Unit 1H.
NOTE: IN THE AREA BELOW P FRACTURING OR STIMULATING, I	PUT THE FOLLOWING: 1). PHYSICAL CHANGE, ETC. 2) D OF THE TOPS AND BOT	. DETAILS OF PERFORATED INTERVALS). THE WELL LOG WHICH IS A SYSTEMATIO TOMS OF ALL FORMATIONS, INCLUDING
Perforated Intervals, Fracturing, or Stimula	ting:	
Perforations: 7,524' - 15,670' MD (
Frac'd w/ 13,500 gals 15% HCL Ac	id, 173,119 bbls Slick Wate	er carrying 798,219# 100 mesh,
3,151,275# 40/70 sand and 1,797,	120# 20/40 sand.	
Plug Back Details Including Plug Type and	Depth(s): N/A	
Formations Encountered: Surface:	Top Depth	/ Bottom Depth
Big Lime Big Injun Weir	est. 2277' est. 2344' est. 2593'	2343' 2592' 2767'
Berea Gantz Gordon	est. 2768' est. 2877' est. 2970'	2876' 2969' 3325'
Fifth Sand Bayard Speechley	est. 3326' est. 3393' est. 3954'	3392' 3953' 4790'
Bradford Benson Alexander	est. 4791' est. 5260'	5259' 5506'
Sycamore Middlesex Shale	est. 5507' 6753' 6921'	6752' 6920' 7061'
Burkett Tully Hamilton	7062' 7093' 7169'	7092' 7168' 7176'
Marcellus	7177'	7273 Received

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2/12/2013	A.M.	Doddridge	47-017-06097	Antero Resources	Yoke 1H	-80.6926408	39.2077419	NAD27	Gas	7,273
Fracture Date	State:	coumy	API Number:	Operator Name:	Well Name and Number:	Longitude:	Latitude:	.ong/Lat Projection:	Production Type:	True Vertical Depth (TVD):

Hydraulic Fracturing Fluid Composition:

Irade Name	Supplier	Purpose	Compositional or Formulary Components Disclosed	Chemical Abstract Service Number (CAS#) - If applicable	Maximum Component Concentration in Additive (% by mass)***	Maximum Component Concentration in HF Fluid (% by mass)**	Comments
Al-300	U.S. Well Services, LLC	Acid Corrosion Inhibitors	2-Butoxyethanol	111-76-2	7.00%	0.00002%	
			Cinnamaldehyde	104-55-2	5.00%	0.00002%	
			Ethoxylated Nonylphenol	68412-54-4	5.00%	0.00002%	
			Ethylene Glycol	107-21-1	31.00%	0.00012%	
			Isopropyl Alcohol	67-63-0	3.00%	0.00001%	
			N,N-Dimethylformamide	68-12-2	15.00%	0.00005%	
			Tar bases, quinoline derivs, benzyl chloride-quatemized	72480-70-7	13.00%	0.00005%	
			Triethyl Phosphate	78-40-0	3.00%	0.00001%	
			Water	7732-18-5	20.00%	0.00007%	
Bioclear 2000	U.S. Well Services, LLC	Anti-Bacterial Agent	2,2-dibromo-3-nitrilopropionamide	10222-01-2	20.00%	0.00464%	
			Delonized Water	7732-18-5	28.00%	0.00265%	
LGC-15	U.S. Well Services, LLC	Gelling Agents	Guar Gum	9000-30-0	20.00%	0.00461%	
			Petroleum Distillates	64742-47-8	%00'09	0.06887%	
			Surfactant	68439-51-0	3.00%	0.06887%	
			Suspending agent (solid)	14808-60-7	3.00%	0.06887%	
AP One	U.S. Well Services, LLC	Gel Breakers	Ammonium Persuifate	7727-54-0	100.00%	0.00114%	
WFRA-405	U.S. Well Services, LLC	Friction Reducer	Anionic Polyacrylamide	Proprietary	Proprietary		
			Ethoxylated alcohol blend	Proprietary	2.00%	0.00319%	
			Water	7732-18-5	40.00%	0.02552%	
			Ammonium Chloride	12125-02-9	2.00%	0.00319%	
			Petroleum Distillates	64742-47-8	22.00%	0.01130%	
SI-1000	U.S. Well Services, LLC	Scale Inhibitor	Ethylene Glycol	107-21-1	20.00%	0.00413%	
			Water	7732-18-5	30.00%	0.00344%	
			Anionic Copolymer	Proprietary	Proprietary		
Sand	U.S. Well Services, LLC	Proppant	Crystalline Silica, quartz	14808-60-7	100.00%	8.66107%	
HCL ACIG (12.5%-18.0%)	U.S. Well Services, LLC	Bulk Acid	Hydrogen Chloride	7641-01-1	18.00%	0.03085%	
,			Water	7732-18-5	87.50%	0.07417%	
ate.	The state of the s	Carrier/Base Fluid	Water	7732-18-5	100.00%	91.12998%	
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To May water, broduces may include fresh water, produced water, and/or recycled water

• Instrumentation 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 Sheets (MSDS)