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:	9/12/2013	
API#:	47-017-06100	

ATION: Elevation: 1,241'	Quadrangle: _	lew Milton 7.5'		
District: New Milton	County: Doddi	idae		<del></del>
	g. 12 Min.			<del></del>
	g. 40 Min.			
Company: Antero Resources Corporation				
Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	60 Cu. Ft. Class
Agent: CT Corporation System	13-3/8" 48#	411'	411'	571 Cu. Ft. Class
Inspector: Douglas Newlon	9-5/8" 36#	2,545'	2,545'	1036 Cu, Ft. Class
Date Permit Issued: 8/17/2012	5-1/2" 20#	15,967'	15,967'	3967 Cu. Ft. Class
Date Well Work Commenced: 8/24/2012				
Date Well Work Completed: 3/9/2013	2-3/8" 4.7#	7,313'		
Verbal Plugging: N/A	Sidetrack	Тор	Bottom	
Date Permission granted on: N/A	Cement Plug	800'	1018'	229 Cu. Ft. Class
Rotary Cable Rig				
Total Vertical Depth (ft): 7282' TVD				
Total Measured Depth (ft): 15,967' 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				
Gas: Initial open flow MCF/d Oil: Initial open Final open flow 10,385 MCF/d Final open flow Time of open flow between initial and final tests Static rock Pressure 3950 psig (surface pressure)  Second producing formation Pay 2	y zone depth (ft) 7 flow — Bb ow — Bb Hours after — Hour zone depth (ft)	,190' TVD (To bl/d Vd Re s SEI	ceive	_
Gas: Initial open flow MCF/d Oil: Initial open Final open flow MCF/d Final open flow			<del></del>	
Time of open flow between initial and final tests		(C)HI/	e of Oil and Gas Enviror:mental Pi	rotection
Static rock Pressure psig (surface pressure)				

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.

9/12/13

11/08/2013

Were core	samples taken? Yes]	No X Were cuttings cau	ght during drilling? Yes X NoNo
Were Elect	rical, Mechanical or Geophysi	cal logs recorded on this well? If yes, please	listYes- CBL, Photo Density/ Compensated Neutron/ Gamma Ray,
FRACTU DETAILE COAL EN	RING OR STIMULATING, D GEOLOGICAL RECO	, PHYSICAL CHANGE, ETC. 2). THE W RD OF THE TOPS AND BOTTOMS ( ELLBORE FROM SURFACE TO TOTAI	OF ALL FORMATIONS, INCLUDING
Perforatio	ns: 7,402' - 15,901' MD	(1 800 holes)	
		cid, 179,100 bbls Slick Water carryi	ng 906 593# 100 mesh
	# 40/70 sand and 2,059		119 000,000,000,000,000,000,000,000,000,00
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Plug Back l	Details Including Plug Type ar	nd Depth(s): N/A	
Formations Surface:	s Encountered:	Top Depth /	Bottom Depth
	Big Lime	2,277'	2,343'
	Big Injun	2,344'	2,592'
	Weir	2,593'	2,767'
	Berea	2,768′	2,876'
	Gantz	2,877′	2,969'
	Gordon	2,970′	3,325'
	Fifth Sand	3,326′	3,392'
	Bayard ' Speechley	3,393'	3,953'
	Bradford	3,954′	4,790'
1	Benson	4,791'	5,259'
	Alexander	5,260'	5,506'
\	Sycamore	5,507' 6,773'	6,772'
\	Middlesex Shale	6,928'	6,927'
Ì	Genundewa	7,023′	7,022'
	Burkett	7,023 7,059'	7,058' 7,100'
\	Tully	7,039 7,101'	7,100 7,189
\	Marcellus	7,190'	7,183 7282' TVD
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draulic Fracturing Fluid Product Component Information Disclosure
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3/1/2013	W	Doddridge	47-017-06100	Antero Resources	Cristip 1H	-80.6925944	39.2077058	NAD27	Gas	7,282	7,522.200
Fracture Date	State:	County:	API Number:	Operator Name:	Vell Name and Number:	Longitude:	Latifude:	Long/Lat Projection:	Production Type:	True Vertical Depth (TVD):	Total Water Volume* (gal):

Hydraulic Fracturing Fluid Composition:

111-12-12-12-12-12-12-12-12-12-12-12-12-	Number (CAS #) - (If applicable	Component Con Concentration Conc in Additive in F (% by mass)*** (% by	Concentration in HF Fluid (% by mass)**	
Elboyalded fourwhole of Elboyalded		-	0.00002%	
Standard	104-55-2	5.00% 0.0	0.00002%	
Interpretate   Inte	68412-54-4	5.00% 0.0	0.00002%	
M. A.Dimenthylformunide   Introduction   Introduction   Introduction   Introduction   Introduction   Introduction   Introduction   Introduction   Introduction   Interest and Interest and Interest and Interest and Interest   Interest and Interest	107-21-1	31.00% 0.0	0.00011%	
Art Deses, quincine derice, but   Art Deses, quincine derice, berray chorde-quatemized   Trichly Phosphate   Trichly Phospha	67-63-0	3.00% 0.0	0.00001%	
Titch Mail Services, LLC	68-12-2	15.00% 0.0	0.00004%	
15   15   15   15   15   15   15   15	72480-70-7	13.00% 0.0	0.00004%	
1	78-40-0	3.00% 0.0	0.00001%	
15   10.5. Well Services, LLC   Gelling Agents   12.24 Horizond Annia Barcina I Agents   12.44 Horizond Annia Barcina I Annia Barcina I Gelling Agents   12.44 Horizond I State Gum   14.44	7732-18-5		0.00006%	
15   U.S. Well Services, LLC   Gelling Agents   Gueroum   Distillates	10222-01-2	20.00% 0.0	0.00463%	
Constitution	7732-18-5		0.00265%	
Nation   Surface   Surfa	9000-30-0		0.00391%	
U.S. Well Services, LLC   Gel Breakers   Suspending agent (solid)	64742-47-8		0.06887%	
U.S. Well Services, LLC   Gel Braskers   Anionic Polyacrytanida	68439-51-0		0.06887%	
U.S. Well Services, LLC   Friction Reducer   Anionic Polyecytamide	14808-50-7		0.06887%	
Carrier/Base Fluid   Carrier	1727-54-0		0.00113%	
Water   Wate	Proprietary	4	100000	
Ammonium Chloride   Ammonium Chloride   Ammonium Chloride	TTTTT 40 E	2,000%	0,0030376	
No. Well Services, LLC Scale Inhibitor Ethylene Glycol  U.S. Well Services, LLC Proppant Cryptalline Silica quartz  U.S. Well Services, LLC Bulk Acid Hydrogen Chloride  U.S. Well Services, LLC Bulk Acid Hydrogen Chloride  Carrier/Base Fluid Water  Carrier/Base Fluid Water  SEP 16	12125.02.0		0.0243070	
U.S. Well Services, LLC   Scale Inhibitor   Ethylene Giycol   Water   Water   Anionic Copolymer   Anioni	EATA2 AT 0		0,0000	
Water U.S. Well Services, LLC Bulk Acid U.S. Well Services, LLC Bulk Acid U.S. Well Services, LLC Bulk Acid Water CarrierBase Fluid Water CarrierBase Fluid Water Services, LLC Water Wate	107-21-1		0.0107.978	
U.S. Well Services, LLC Bulk Acid Hydrogen Chlorida Hydrogen Chlorida Hydrogen Chlorida Water  Carrier/Base Fluid Water  Carrier/Base Fluid Services	7772.18.5		0.003409/	
U.S. Well Services, LLC Bulk Acid Hydrogen Chlorida Water  Carrier/Base Fluid Water  Carrier/Base Fluid Services Hydrogen Chlorida Water  Carrier/Base Fluid Water  SEP 1 6	Proprietary	2	0004078	
cid (12.5%-18.0%) U.S. Weil Services, LLC Bulk Acid Hydrogen Chierdee  Carrier/Base Fluid Water  Carrier/Base Fluid Water  RECEL  SEP 1 6	Mone on T	1	7000000	
Carrier/Base Fluid Water Water  RECE!	7644-04-4		9.3583676	
Carrier/Base Fluid Water  RECON SEP 16	7722 40 5	1	07400470	
Heceir Range	6-91-76-1		0.07102%	
Receir Receir	7732-18-5	100.00% 90.4	90.44597%	
Receil Re				
SEP 16	OO			
SEP 1 6	500		6	
SEP 1 6				
SEP 16				
0 1 32	2013			
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Office of Oil and Gas	nd Gas			

Transwarer Volume sources may include fresh water, produced water, and/or recycled water

\*\*Robansion is based on the maximum potential for concentration and thus the total may be over 100%

Ingredent information for chemicals subject to 29 CFR 1910.1200(t) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)