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:	12/6/2013
API#:	47-017-06188

Farm name: Davis, Jonathan	Operator Wel	l No.: Central U	nit 2H	****
LOCATION: Elevation: 1.146'	Quadrangle: \_	West Union 7.5'		
District: Central	County: Dodd	ridge		
Latitude: 10,584' Feet South of 39 Deg.	20 Min	. <u>00</u> Se	c.	
Longitude 12,393' Feet West of 80 Deg.	47 Min	. <u>30</u> Se	c.	
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'	38 Cu Ft. Class A
Agent: CT Corporation System	13 3/8" 48#	474'	474'	658 Cu Ft. Class A
Inspector: Douglas Newlon	9 5/8" 36#	2,747'	2,747'	1118 Cu Ft. Class A
Date Permit Issued: 2/27/2013	5 1/2" 20#	12,561'	12,561'	2972 Cu Ft. Class H
Date Well Work Commenced: 4/10/2013		,	12,001	1
Date Well Work Completed: 6/30/2013	2 3/8" 4.7#	7593'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary Cable Rig				
Total Vertical Depth (ft): 6782' TVD (Deepest Point Drilled)				
Total Measured Depth (ft): 12,562' MD, 6780' TVD (BHL)				
Fresh Water Depth (ft.): 200'				
Salt Water Depth (ft.): 700'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 824'				
Void(s) encountered (N/Y) Depth(s) None				
OPEN FLOW DATA (If more than two producing formatio			ata on separate s	heet)
Producing formation Marcellus Pay z  Gas: Initial open flow MCF/d Oil: Initial open flow	one depth (ft) 66	· · · · · · ·		RECEIVED
Final open flow 9,446 MCF/d Final open flow				
Time of open flow between initial and final tests	Hours			FEB <b>1 1</b> 2014
Static rock Pressure 3600 psig (surface pressure) aft	er <u> </u>	s	W	GEOLOGICAL SURV
Second producing formation Pay zon	e depth (ft)			MORGANTOWN, WV
Gas: Initial open flow MCF/d Oil: Initial open flo		1/d		
Final open flow MCF/d Final open flow		/d		
Time of open flow between initial and final tests	Hours			
Static rock Pressurepsig (surface pressure) aft	erHours	S		
I certify under penalty of law that I have personally examined a	nd am familiar v	with the inforn	nation submitted	on this document and
all the attachments and that, based on my inquiry of those indivi-	iduals immediat	ely responsible	e for obtaining th	he information I believe
that the information is true, accurate, and complete.	1/		, ,	
Aluth Po	l&	2/	10/2014	
Signature	11		Date	

Central Station (91) 6-6

Were core samples taken? Yes	No_X	Were cuttings caught during dri	illing? YesNoX
Were Electrical, Mechanical or Geophysi	ical logs recorded on this w	vell? If ves, please list Yes - C	BL
This is a subsequent well. Antero only runs wheline logs on the first to	well on a multi-well pad (Valentine Unit 1H, Al	P# 47-017-06083). Please reference the wireline logs s	submitted with Form WR-35 for Valentine Unit 1H.
NOTE: IN THE AREA BELOW FRACTURING OR STIMULATING, DETAILED GEOLOGICAL RECOI COAL ENCOUNTERED BY THE W	, PHYSICAL CHANGE, RD OF THE TOPS AN	ETC. 2). THE WELL LOG W ND BOTTOMS OF ALL FO	VHICH IS A SYSTEMATIC
Perforated Intervals, Fracturing, or Stimu	lating:		
Perforations: 7,048'- 12,512' (1,74			
Frac'd w/ 15,620 gals 15% HCL A	cid, 161,318 bbls Slic	ck Water carrying 741,050	# 100 mesh,
2,730,390# 40/70 sand and 1,687			
Plug Back Details Including Plug Type ar	nd Denth(s): NI/A		
	- N/A		
Formations Encountered:	Top Depth	/	Bottom Depth
Surface:			
			RECEIVE
Big Lime	est. 2066'	2176'	
Big Injun	est. 2177'	2574'	FEB <b>1 1</b> 2014
Gantz Sand	est. 2575'	2717'	
Fifty Foot Sandstone	est. 2718'	2808'	WV GEOLOGICAL SU MORGANTOWN, W
Gordon	est. 2809'	3122'	
Fifth Sandstone	est. 3123'	3147'	
Bayard	est. 3148'	3911'	
Speechley	est. 3912'	4176'	
Baltown	est. 4177'	4632'	
Bradford	est. 4633'	5063'	
Bensonest.	est. 5064'	5354'	
Alexander	est. 5325'	5507'	
Elk Dhinactus et	est. 5508'	5998'	
Rhinestreet	est. 5999'	6295'	
Sycamore	6296'	6459'	
Middlesex	6460'	6586'	
Burkett	6587'	6613'	
Tully	6614'	6642'	

6643'

6651'

Hamilton

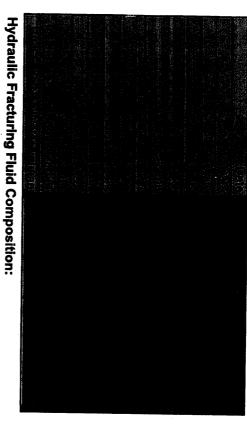
Marcellus

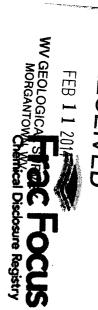
66421

6651'

6782' TVD

## Hydraulic Fracturing Fluid Product Component Information Disclosure RECEIVED









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				((:: 3.A.S.;)		Of the second of
Water	Antero Resources	Base Fluid			and the second of the second o	(as early fee an
			Water	7732-18-5	100.00000	91.40520
Sand	U.S. Well Services, LLC	Proppant				
			Crystalline Silica, quartz	14808-60-7	100.00000	8.34515
HCL Acid (12.6%- 18.0%)	U.S. Well Services, LLC	Bulk Acid				
			Water	7732-18-5	87.5000d	0.09208
			Hydrogen Chloride	7641-01-1	18.00000	0.02199
WFRA-405	U.S. Well Services, LLC	Friction Reducer				
			Water	7732-18-5	40.00000	0.02096
			Anionic Polyacrylamide	Proprietary	40.00000	0.02096
			Petroleum Distillates	64742-47-8	40.00000	0.01687
			Crystalline Salt	12125-02-9	5.00000	0.00262
00 45			Ethoxylated alcohol blend	Proprietary	5.00000	0.00262
9	LLC Well Services,	Gelling Agents				
			Guar Gum	9000-30-0	50.00000	0.02346
			Petroleum Distillates	64742-47-8	60.00000	0.02221
			Suspending agent (solid)	14808-60-7	3.00000	0 00350

Ingred ents shown above are subject to 29 CFR 1910 1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown by												LC	AI-300 U.S.			AD One			LIC	0.8			-10	N-BAC 1020		
e subject to 29 CFR												L	U.S. Well Services		vveil services,	ı				Well Services,				U.S. Well Services,		
. 1910-1200m and appe												nhibitor	Acid Comeion		Gel Breakers					Scale inhibitor				Anti-Bacterial Agent		
aar on Material Safety Data Saev	sopropyi Alcohol	-Uctanoi	l-Decanol	(4-nolylphenyl)-omega-hydroxy,	oly(oxy-1 2-ethenodist) sinks	2-Butoxyethanol	Cinnamaldehyde	lar bases, quinoline derivs,	v,iv-Dilleulyllormamide	N N Dimothik	Ethylene Glycol			Ammonium Persulfate		Water	Emylene Glycol	Anionic Copolymer			Deionized Water	nitrilopropionamide			Surfactant	
	67-63-0	111-87-5	112-30-1	0-10-100121	127007 07 0	144.763	104-55-2	72480-70-7	68-12-2		107-21-1			7727-54-0		7732-18-5	107-21-1	Proprietary			7732-18-5	10222-01-2			68439-51-0	
	2.50000	3.00000	5.00000	5.00000	15.0000	00000ci	15 0000	15.00000	20.00000	40.0000	40 0000		100.0000	100 0000		30.00000	20.00000				28.00000	20.00000			3.00000	
	0.00001	0.00001	0.00002	0.00002	0.00005	0.00006		0.00006	0.00007	0.00023			0.00074			0.00248	0.00297	0.00329		0100004	0 00305	0.00692		0.00.7	0.00141	
																			-							

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided. Ingredient information for chemicals subject to 29 CFR 1910,1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)



lotal Water Volume sources may include fresh water, produced water, and/or recycled water
 Information is based on the maximum potential for concentration and thus the total may be over 100%