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:	2/4/2014		
API#:	47-033-05705		

Farm name: Corder, Gerald and Louella Operator Well No .: Maude Unit 1H LOCATION: Elevation: 1,405' Quadrangle: Big Isaac County: Harrison District: Union Latitude: 3,508' Deg. 15 Min. 00 Feet South of 39 Sec. Longitude 10,033' Feet West of 80 Deg. 32 Min. 30 Sec.

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#	376'	376'	522 Cu. Ft. Class A
Inspector: Sam Ward	9 5/8" 36#	2,567'	2,567'	1,045 Cu. Ft. Class A
Date Permit Issued: 1/9/2013	5 1/2" 20#	16,148'	16,148'	4,013 Cu. Ft. Class H
Date Well Work Commenced: 5/17/2013	1			
Date Well Work Completed: 11/23/2013	2 3/8" 4.7#	7,784'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary Cable Rig				
Total Vertical Depth (ft): 7435' TVD (Deepest Point Drilled)				
Total Measured Depth (ft): 16,148' MD, 7412' TVD (BHL)				
Fresh Water Depth (ft.): 100'				
Salt Water Depth (ft.): None Available				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 333', 625', 930'				
Void(s) encountered (N/Y) Depth(s) None				

OPEN FLOW DATA (If more Producing formation Marcell	than two producing formations ple lus Pay zone de	ase include ac epth (ft) ^{7368' (}	
Gas: Initial open flow	MCF/d Oil: Initial open flow MCF/d Final open flow	Bbl/d	
	een initial and final tests		REGEIVED
Static rock Pressure 3600	psig (surface pressure) after	Hours	Office of Oil and Gas
Second producing formation	Pay zone dep	th (ft)	MAD 9 4 ages
Gas: Initial open flow	MCF/d Oil: Initial open flow	Bbl/d	MAR 2 4 2014
Final open flow	MCF/d Final open flow	Bbl/d	WALLEY
Time of open flow between	een initial and final tests	Hours	WV Department of
Static rock Pressure	psig (surface pressure) after	Hours	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.

3/21/2014

Were core samples taken? Yes	No_X Wer	e cuttings caught during drilli	ng? YesNo_X
Were Electrical, Mechanical or Geoph	visigal logs recorded on this well?	Three place list Yes- CBL	
This is a subsequent well. Antero only runs wireline logs on t	ysical logs recorded on this well! he first well on a multi-well pad (Cleta Unit 2H API#47-0	33-05651). Please reference the wireline logs sui	omitted with Form WR-35 for Cleta Unit 2H.
NOTE: IN THE AREA BELOV FRACTURING OR STIMULATIN DETAILED GEOLOGICAL REC COAL ENCOUNTERED BY THE	G, PHYSICAL CHANGE, ETC CORD OF THE TOPS AND I	C. 2). THE WELL LOG WH BOTTOMS OF ALL FOR	IICH IS A SYSTEMATIC
Perforated Intervals, Fracturing, or Sti	mulating:		
Perforations: 7,945'- 16,080' (24	160 Holes)		
Frac'd w/ 24,000 gals 15% HCL	. Acid, 240,655 bbls Slick W	ater carrying 594,368#	100 mesh,
5,083,860# 40/70 sand and 3,0	89,782# 20/40 sand.		
Plug Back Details Including Plug Type	e and Depth(s): N/A		
Formations Encountered: Surface:	Top Depth	1	Bottom Depth
Big Lime	est. 2280'	2379'	
Big Injun	est. 2380'	2682'	
Gantz Sand	est. 2683¹	2822'	
Fifty Foot Sandstone	est. 2823'	2895'	
Gordon	est. 2896'	3069'	
Fifth Sandstone	est. 3070'	3111'	
Bayard	est. 3112'	3887'	
Speechley	est. 3888'	4142'	
Balltown	est. 4143'	4677'	
Bradford	est. 4678'	5192'	
Benson	est. 5193'	5369'	
Alexander	est. 5370'	5519'	
Elk	est. 5520'	6809'	
Sycamore	6810'	7033'	
Middlesex	7034'	7173'	
Burkett	7174'	7206'	
Tully	7207'	7312'	
Hamilton	7313'	7367'	
Marcellus	7368'	7435' TVD	

Hydraulic Fracturing Fluid Product Component Information Disclosure

11/14/2013	Job Start Date:
11/23/2013	Job End Date:
West Virginia	State:
Harrison	County:
47-033-05705-00-00	API Number:
Antero Resources Corporation	Operator Name:
Maude Unit 1H	Well Name and Number:
-80.55363900	Longitude:
39.22234400	Latitude:
NAD27	Datum:
NO	Federal/Tribal Well:
7,435	True Vertical Depth:
10,512,306	Total Base Water Volume (gal):
0	Total Base Non Water Volume:







Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Vater	Operator	Carrier					
			Water	7732-18-5	100.00000	90.45696	
and, White, 40/70	Baker Hughes	Proppant					
			Crystalline Silica (Quartz)	14808-60-7	100.00000	5.26030	
and, White, 20/40	Baker Hughes	Proppant					
			Crystalline Silica (Quartz)	14808-60-7	100.00000	3.19568	
and, White, 100 nesh	Baker Hughes	Proppant					
			Crystalline Silica (Quartz)	14808-60-7	100.00000	0.61243	
Cl, 10.1 - 15%	Baker Hughes	Acidizing					
			Water	7732-18-5	85.00000	0.20353	SmartCare Product
			Hydrochloric Acid	7647-01-0	15.00000	0.03592	SmartCare Product
W-3LDF	Baker Hughes	Gelling Agent					
			Guar Gum	9000-30-0	60.00000	0.05042	SmartCare Product
			Paraffinic Petroleum Distillate	64742-55-8	30.00000	0.02521	SmartCare Product
			Petroleum Distillates	64742-47-8	30.00000	0.02521	SmartCare Product
		1	sotridecanol, ethoxylated	9043-30-5	5.00000	0.00420	SmartCare Product
			1-butoxy-2-propanol	5131-66-8	5.00000	0.00420	SmartCare Product
			Crystalline Silica: Quartz	14808-60-7	5.00000	0.00420	SmartCare Product
RW-18	Baker Hughes	Friction Reducer					

			Petroleum Distillates	64742-47-8	30.00000	0.01688SmartCare Product
nzyme G-NE	Baker Hughes	Breaker				
			Water	7732-18-5	95.00000	0.01076SmartCare Product
			Hemicellulase Enzyme Concentrate	9025-56-3	5.00000	0.00057SmartCare Product
lpha 1427	Baker Hughes	Biocide				
			Glutaraldehyde	111-30-8	30.00000	0.00648SmartCare Product
			Didecyl Dimethyl Ammonium Chloride	7173-51-5	10.00000	0.00216SmartCare Product
			Quaternary Ammonium Compound	68424-85-1	5.00000	0.00108SmartCare Product
			Ethanol	64-17-5	5.00000	0.00108SmartCare Product
caletrol 720	Baker Hughes	Scale Inhibitor	A CONTRACTOR OF THE CONTRACTOR			
			Ethylene Glycol	107-21-1	30.00000	0.00445SmartCare Product
			Calcium Chloride	10043-52-4	5.00000	0.00074SmartCare Product
errotrol 300L	Baker Hughes	Iron Control				
ar a			Citric Acid	77-92-9	60.00000	0.00094SmartCare Product
I-14	Baker Hughes	Corrosion Inhibitor				
			Methanol	67-56-1	100.00000	0.00037SmartCare Product
			Polyoxyalkylenes	Trade Secret	30.00000	0.00011SmartCare Product
			Fatty Acids	Trade Secret	10.00000	0.00004SmartCare Product
			Olefin	Trade Secret	5.00000	0.00002SmartCare Product
-			Propargyl Alcohol	107-19-7	5.00000	0.00002SmartCare Product
ngredients shown	above are subject to 29	CFR 1910.1200(i) and a	ppear on Material Safety Data Sh	neets (MSDS). Ingredier	nts shown below are Non-N	MSDS.
<u> </u>		Other Chemicals				
			Water	7732-18-5		0.04931
			Poly (acrylamide-co-acrylic acid	d) Trade Secret		0.01688
			Polyacrylate	Trade Secret		0.00297
			Salt	Trade Secret		0.00281
			Sorbitan Monooleate	Trade Secret		0.00281
			Ethoxylated Alcohol	Trade Secret		0.00113
			2-butoxy-1-propanol	15821-83-7		0.00008
			Modified Thiorea Polymer	68527-49-1		0.00003
			Potassium Chloride	7447-40-7		0.00001
			Sodium Chloride	7647-14-5		0.00000
			Formaldehyde	50-00-0		0.00000
			Hydrochloric Acid	7647-01-0		0.00000

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)

^{*} Total 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%