WR-35 Rev (9-11)

Farm name: Trent, Clarence Jr. et al

LOCATION: Elevation: 1,410'

District: Greenbrier Latitude: 1,234'

Longitude 14,861'

that the information is true, accurate, and complete.

Feet South of 39

Feet West of 80

State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

Deg. 15

Deg. 37

Operator Well No.: Cox Unit 1H

Quadrangle: New Milton 7.5'

Min. 00

Min. 30

Sec.

Sec.

County: Doddridge

DATE:	2/10/2013	
API #:	47-017-06161	

05/23/2014

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#	334'	334'	464 Cu. Ft. Class A
Inspector: Douglas Newlon	9 5/8" 36#	2,554'	2,554'	1,040 Cu. Ft. Class A
Date Permit Issued: 1/16/2012	5 1/2" 20#	14,029'	14,029'	3,434 Cu. Ft. Class H
Date Well Work Commenced: 6/29/2013				
Date Well Work Completed: 11/20/2013	2 3/8" 4.7#	7,603'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary Cable Rig				
Total Vertical Depth (ft): 7437' TVD (Deepest Point Drilled)				
Total Measured Depth (ft): 14,029' MD, 7370' TVD (BHL)				
Fresh Water Depth (ft.): 100', 135'				
Salt Water Depth (ft.): 2126'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): None Available				
Void(s) encountered (N/Y) Depth(s) None				
Producing formation Marcellus Pay z Gas: Initial open flow MCF/d Oil: Initial open flow Time of open flow between initial and final tests psig (surface pressure) after the producing formation or producing formation and producing formation or pay z by the producing formation or pay z by the producing formation or pay z by z	one depth (ft) 7. ow Bb Hours	413' (TOP) ol/d l/d		RECEIVED
econd producing formation Pay zor	ne depth (ft)			FEB 1 8 2014
Gas: Initial open flowMCF/d Oil: Initial open flow	owBbl/d vBbl/d		V	WV Department
Final open flowMCF/d Final open flow			Environmental Prote	
Time of open flow between initial and final tests	the second secon		lant 1V	Horniton
tatic rock Pressurepsig (surface pressure) aft	er Hour	S		

Were core samples taken? Yes	No X	Vere cuttings caught during drilling? Yes	NoX		
Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes-CBL					
This is a subsequent well. Antero only runs wireline logs on the f	irst well on a multi-well pad (Bowen Unit 2H API#4	7-017-06167). Please reference the wireline logs submitted with Form WR-3	5 for Bowen Unit 2H.		
FRACTURING OR STIMULATING DETAILED GEOLOGICAL RECO	G, PHYSICAL CHANGE, E ORD OF THE TOPS AND	TC. 2). THE WELL LOG WHICH IS A SY DESCRIPTIONS OF ALL FORMATIONS, 1	STEMATIC		
Perforated Intervals, Fracturing, or Stim	ulating:				
Perforations: 7776'- 13,974' (168	0 Holes)				
Frac'd w/ 8,750 gals 15% HCL A	cid,188,095 bbls Slick W	/ater carrying 616,320# 100 mesh,			
3,973,440# 40/70 sand and 2,05	7,400# 20/40 sand.				
<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>				
	<u></u>				
					
Plug Back Details Including Plug Type	and Depth(s): N/A				
Tre Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes- CBL Is a subsequent well. Antero only turns wireline logs on the first well on a multi-well pad (Bowen Unit 2th API847-017-05167). Please reference the wireline logs submitted with Form WR-35 for Bowen Unit 2th. DTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, RACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC ETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING DAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH. forated Intervals, Fracturing, or Stimulating: forations: 7776'- 13,974' (1680 Holes) c'd w/ 8,750 gals 15% HCL Acid,188,095 bbls Slick Water carrying 616,320# 100 mesh, 73,440# 40/70 sand and 2,057,400# 20/40 sand. g Back Details Including Plug Type and Depth(s): N/A rmations Encountered: Top Depth / Bottom Depth					
Formations Encountered:	Top Depth	/ Bottom D	<u>epth</u>		
Surface:					
Big Lime	est. 2416¹	2530'			
_					
·					
•					
· ·					
•					
•					
Marcellus	7413'	7437' TVD			

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/13/2013
Job End Date:	11/20/2013
State:	West Virginia
County:	Doddridge
API Number:	47-017-06161-00-00
Operator Name: Ant	ero Resources Corporation
Well Name and Number:	Cox Unit 1H
Longitude:	-80.62935560
Latitude:	39.20919720
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	7,433
Total Base Water Volume (gal):	7,898,730
Total Base Non Water Volume:	331,254







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	Antero Resources	Base Fluid					
			Water	7732-18-5	100.00000	90.57991	
Sand	U.S. Well Services, LLC	Proppant					
			Crystalline Silica, quartz	14808-60-7	100.00000	9.13997	
HCL Acid (12.6%- 18.0%)	U.S. Well Services, LLC	Bulk Acid					
			Water	7732-18-5	87.50000	0.09022	
			Hydrogen Chloride	7641-01-1	18.00000	0.02155	
.GC-15	U.S. Well Services, LLC	Gelling Agents					
			Guar Gum	9000-30-0	50.00000	0.03413	
			Petroleum Distillates	64742-47-8	60.00000	0.03232	
			Suspending agent (solid)	14808-60-7	3.00000	0.00522	
			Surfactant	68439-51-0	3.00000	0.00205	
WFRA-405	U.S. Well Services, LLC	Friction Reducer					
			Water	7732-18-5	40.00000	0.02411	
			Anionic Polyacrylamide	Proprietary		0.02411	
			Petroleum Distillates	64742-47-8	22.00000	0.01941	
			Crystalline Salt	12125-02-9	5.00000	0.00301	

			Ethoxylated alcohol blend	Proprietary	5.00000	0.00301	
SI-1000	U.S. Well Services, LLC	Scale Inhibitor					
			Anionic Copolymer	Proprietary		0.00449	
			Ethylene Glycol	107-21-1	20.00000	0.00406	
			Water	7732-18-5	30.00000	0.00339	
-BAC 1020	U.S. Well Services, LLC	Anti-Bacterial Agent					
			2,2-dibromo-3- nitrilopropionamide	10222-01-2	20.00000	0.00478	
			Deionized Water	7732-18-5	28.00000	0.00273	
P One	U.S. Well Services, LLC	Gel Breakers					
			Ammonium Persulfate	7727-54-0	100.00000	0.00096	
	U.S. Well Services, LLC	Acid Corrosion Inhibitors					
			Ethylene Glycol	107-21-1	31.00000	0.00024	
			N,N-Dimethylformamide	68-12-2	15.00000	0.00007	
			Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	13.00000	0.00006	
			Cinnamaldehyde	104-55-2	5.00000	0.00006	
			2-Butoxyethanol	111-76-2	7.00000	0.00006	
			Ethoxylated Nonylphenol	68412-54-4	5.00000	0.00002	
			Water	7732-18-5	20.00000	0.00002	
			Triethyl Phosphate	78-40-0	3.00000	0.00001	
			Isopropyl Alcohol	67-63-0	3,00000	0.00001	

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%