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#:	47-017-06098	

Farm name: Elton D. Whitehair, et	t al	Oper	ator Well No.: Y	oke Unit 2H	
LOCATION: Elevation: 1,24	1'	Quad	rangle: New Milt	on 7.5'	
District: New Milton		Coun	ity: Doddridge		
Latitude: 7.354'	Feet South of 39	Deg. 12	Min. 30	Sec.	
Longitude 222	Feet West of 80	Deg. 40	Min. 00	Sec.	

Company:		_		
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#	411'	411'	571 Cu. Ft. Class A
Inspector: Douglas Newlon	9-5/8" 36#	2,549'	2,549'	1037 Cu. Ft. Class A
Date Permit Issued: 6/6/2012	5-1/2" 20#	15,855'	15,855'	3931 Cu. Ft. Class H
Date Well Work Commenced: 8/24/2012				
Date Well Work Completed: 2/28/2013	2-3/8" 4.7#	6,213'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary Cable Rig				
Total Vertical Depth (ft): 7279' TVD (Deepest Point Drilled)				
Total Measured Depth (ft): 15,859' MD, 7265' TVD (BHL)				
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		-		

•	han two producing formations ple		
Producing formation Marcellu	Pay zone de	epth (ft)7,186' (TOP)	Receive
Gas: Initial open flow	_MCF/d Oil: Initial open flow	Bbl/d	Received
Final open flow 6,692	_MCF/d Final open flow	Bbl/d	94
Time of open flow between	en initial and final tests	Hours	SEP 1 6 2013
Static rock Pressure 3950	psig (surface pressure) after	Hours	00. 1.6 5013
Second producing formation	Pay zone dep	th (ft)	Office of Oil and Gas
Gas: Initial open flow	_MCF/d Oil: Initial open flow	Bbl/d	WV Dept. of Environmental Protection
Final open flow	_MCF/d Final open flow	Bbl/d	
Time of open flow between	en initial and final tests	Hours	
Static rock Pressure	psig (surface pressure) after	Hours	

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.

11/08/2013

Were core samples taken? YesNo	Were cu	uttings caught during drilling? YesNo_X
Were Electrical, Mechanical or Geophysica This is a subsequent well. Antero only runs wireline logs on the first wi	l logs recorded on this well? If y	yes, please list Yes- CBL 100). Please reference the wheline logs submitted with Form WR-35 for Cristip Unit 1H.
NOTE: IN THE AREA BELOW P FRACTURING OR STIMULATING, P	UT THE FOLLOWING: 1). HYSICAL CHANGE, ETC. 2) O OF THE TOPS AND BOT	. DETAILS OF PERFORATED INTERVALS). THE WELL LOG WHICH IS A SYSTEMATION TOMS OF ALL FORMATIONS, INCLUDING
Perforated Intervals, Fracturing, or Stimulat	ing:	
Perforations: 7,479' - 15,791' MD (1	,512 holes)	
Frac'd w/ 11,500 gals 15% HCL Aci	d, 221,835 bbls Slick Water	er carrying 965,540# 100 mesh,
4,848,890# 40/70 sand and 2,535,5	00# 20/40 sand.	
-		
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Plug Back Details Including Plug Type and	Depth(s): N/A	
	· · · · · · · · · · · · · · · · · · ·	
Formations Encountered: Surface:	Top Depth	/ Bottom Depth
Big Lime	est. 2277'	2343'
Big Injun	est. 2344'	2545 2592'
Weir	est. 2593'	2767'
Berea	est. 2768'	2876'
Gantz	est. 2877'	2969'
Gordon	est. 2970'	3325'
Fifth Sand	est. 3326'	3392'
Bayard	est. 3393'	3953'
Speechley	est. 3954'	4790'
Bradford	est. 4791'	5259'
Benson	est. 5260'	5506'
Alexander	est. 5507'	6750'
Sycamore	6751'	6924'
Middlesex Shale	6925'	7062'
Burkett	7063'	7096'
Tully	7097'	7177'
Hamilton	7178'	7185'
Marcellus	7186'	Pereived

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17-06098

Hydraulic Fracturing Fluid Product Component Information Disclosure

Long/Lat Projection:
Production Type:
True Vertical Depth (TVD): Well Name and Number: Longitude: Latitude: Operator Name State: County: API Number: Doddridge 47-017-06098 Antero Resources Yoke 2H -80.6926175 39.2077239

Acid Corrosion Inhibitors	Supplier	Purpose	Compositional or Formulary Components Disclosed	Chemical	Maximum
U.S. Well Services, LLC Acid Corresion Inhibitors Cinamolated Methods Cinamolate	Supplier	Purpose	Compositional or Formulary Components Disclosed.	Chemical Abstract Service Number (CAS #) - If applicable	Maximum Component Concentration in Additive (% by mass)**
	U.S. Well Services, LLC	Acid Corrosion Inhibitors	2-Butoxvethanol	444_7R-9	(ce by ildsa)
Etheys/lated feory/phonol Identified			Cinnamaldehyde	104-55-2	5.00%
Ethylene Gycol			Ethoxylated Nonylphenol	68412-54-4	5.00%
			Ethylene Glycol	107-21-1	31.00%
			Isopropyl Alcohol	67-63-0	3.00%
Traceses, quinoline derive, branzy chloride quaternized Traceses, quinoline derive, branzy chloride, quaternized Traceses, quinoline derive, branzied, quaternized, qua			N,N-Dimethylformamide	68-12-2	15.00%
	X			72480-70-7	13.00%
1722-01-02 U.S. Well Services, LLC Anti-Bacterial Agent 22-dimens—S-altrile propionamide 1722-01-3 1722-01-3 22-dimens—S-altrile propionami			Triethyl Phosphate	78-40-0	3.00%
22-dinomo-3-dirilopropionanide 1022-261-22 22-dinomo-3-dirilopropionanide 1022-261-22 22-dinomo-3-dirilopropionanide 1022-261-22 22-dinomo-3-dirilopropionanide 1022-261-22 22-dinomo-3-dirilopropionanide 1022-261-23 22-dinomo-3-dirilopropionanide 22-dinomo-3-dirilopropionanide 2000-3-0-0 2			Water	7732-18-5	20.00%
5 U.S. Weil Services, LLC Geiling Agents Delonized Water 7723-18-5 0 U.S. Weil Services, LLC Geiling Agents Guardian 64742-47-3 0 U.S. Weil Services, LLC Geil Breakers Anomonium Persulitate 7727-54-0 405 U.S. Weil Services, LLC Friction Reducer Anomonium Persulitate 7727-54-0 405 U.S. Weil Services, LLC Friction Reducer Anomonium Persulitate Proprietary 60 U.S. Weil Services, LLC Friction Reducer Anomonium Chloride Proprietary 70 U.S. Weil Services, LLC Scale Inhibitor Ethylore Glycol 1713-18-5 8-Waler Proprietary Water 1712-18-5 1712-18-5 9-Waler Proprietary 1707-21-18-5 1707-21-18-5 1707-21-18-5 104 (12.5%-18.0%) U.S. Weil Services, LLC Builk Acid Water 1702-18-5 1702-18-5 104 (12.5%-18.0%) U.S. Weil Services, LLC Builk Acid Water 1702-18-5 1702-18-5 105 (12.5%-18.0%) U.S. Weil Services, LLC Builk	U.S. Well Services, LLC	Anti-Bacterial Agent	2,2-dibromo-3-nitrilopropionamide	10222-01-2	20.00%
Discription Distribution Distr			Deionized Water	7732-18-5	28.00%
Petroleum Distillates	U.S. Well Services, LLC	Gelling Agents	Guar Gum	9000-30-0	50.00%
Box U.S. Well Services, LLC Gold Breakers Surfaciant Surfaciant Surfaciant Surfaciant Gold Services, LLC Gold Breakers Animolium Persulifate 7727-84-9 Animolium Persulifate Proprietary			Petroleum Distillates	64742-47-8	60.00%
e U.S. Well Sarvices, LLC Gel Brakers Ammonium Persulfate Expending agent (solid) 14208-80-7 405 U.S. Well Services, LLC Friction Reducer Anionic Polyacrylamide Proprietary Location Reducer Anionic Polyacrylamide Proprietary Proprietary Location Reducer Anionic Polyacrylamide Proprietary Location Reducer Proprietary Proprietary Proprietary			Surfactant	68439-51-0	3.00%
D.S. Well Services, LLC Gel Brakkers Annonium Persultate Proprietary Proprie			Suspending agent (solid)	14808-60-7	3.00%
U.S. Well Services, LLC	U.S. Well Services, LLC	Gel Breakers	Ammonium Persulfate	7727-54-0	100.00%
Ethoxylated alcohol blend Peprietary Water Peprietary Water Peprietary Peprietary Petroleum Distillates Petr	U.S. Well Services, LLC	Friction Reducer	Anionic Polyacrylamide	Proprietary	Proprietary
Water 1732-18-5			Ethoxylated alcohol blend	Proprietary	5.00%
0 U.S. Well Services, LLC Scale Inhibitor Ammonium Chloride 1212502-9 1212502-9 1212502-9 1212502-9 1212502-9 1212502-9 1212502-1 48 1212502-1 48 1212502-1 48 1212502-1 48 1212502-1 48 1212502-1 48 1212502-1 48 1212502-1			Water	7732-18-5	40.00%
Delication Description D			Ammonium Chloride	12125-02-9	5.00%
U.S. Well Services, LLC Scale Inhibitor Ethylene Glycol Water 107-21-1 Water 14808-60-7 Water 14808-60-7 Water 14808-60-7 Water 14808-60-7 Water 14808-60-7 Water 1772-18-5 Water			Petroleum Distillates	64742-47-8	22,00%
U.S. Well Services, LLC	U.S. Well Services, LLC	Scale Inhibitor	Ethylene Glycol	107-21-1	20.00%
LIS. Well Services, LLC Proppant Anionic Copolymer Proprietary Proprietary Proprietary Proprietary 14808-90-7 <td></td> <td></td> <td>Water</td> <td>7732-18-5</td> <td>30.00%</td>			Water	7732-18-5	30.00%
Cl.3. Well Services, LLC Proppant Crystalino Silica, quantz 14808-60.7 LIG (12.5%-18.0%) U.S. Well Services, LLC Bulk Acid Water 7641-01.1 Carrier/Base Fluid Water 7732-18-5 7732-18-5 Tagger 7732-18-5 7732-18-5			Anionic Copolymer	Proprietary	Proprietary
Cust real services, LLC Bulk Acid Hydrogen Chloride Hydrogen Chloride Hydrogen Chloride Water 7732-18-5 7732-18-5	U.S. Well Services, LLC	Proppant	Crystalline Silica, quartz	14808-60-7	100.00%
Carrior/Base Fluid Water 7732-18-5	U.S. Well Services, LLC	Bulk Acid	Hydrogen Chloride	7641-01-1	18.00%
CarrierBase Fluid Water 7732-18-5 .			Water	7732-18-5	87.50%
		Carrier/Base Fluid	Water	7732-18-5	100.00%
		Supplier U.S. Well Services, LLC U.S. Well Services, LLC		Acid Corrosion Inhibitors Acid Corrosion Inhibi	Acid Corrosion inhibitors Acid Corrosion inhibi

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