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:	1/14/2013	
API#:	47-095-02039	

Farm name: Moore, Forest C. Jr. & Brenda	_ Operator Wel	l No.: Ed Amold	Unit 2H			
LOCATION: Elevation: 749'	Quadrangle: _	Quadrangle: Center Point 7.5'				
District: McElroy	County: Tyler		,	<del>_</del>		
Latitude: 8987' Feet South of 39 Deg		.00 Se	3.			
	g. 42 Min					
Company: Antero Resources Appalachian Corp						
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.		
Agent: CT Corporation System	13 3/8" 48#	544'	544'	756 Cu. Ft. Class A		
Inspector: Joe Taylor	9 5/8" 36#	2833'	2833'	1153 Cu. Ft. Class A		
Date Permit Issued: 12/22/2011	5 1/2" 20#	15396'	15396'	3734 Cu. Ft. Class H		
Date Well Work Commenced: 4/6/2012						
Date Well Work Completed: 8/6/2012						
Verbal Plugging: N/A	_					
Date Permission granted on: N/A	2 3/8" 4.7#	6966'				
Rotary Cable Rig	2000	0000		<del> </del>		
Total Vertical Depth (ft): 7275' TVD	-					
Total Measured Depth (ft): 15396' MD	+					
				-		
Fresh Water Depth (ft.): 120', 291'						
Salt Water Depth (ft.): None available						
Is coal being mined in area (N/Y)? N	-					
Coal Depths (ft.): est. 672', 747'						
Void(s) encountered (N/Y) Depth(s) None						
OPEN FLOW DATA (If more than two producing formation Producing formation Marcellus Pay Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests N/A Static rock Pressure 3550 psig (surface pressure) as	zone depth (ft)6 flow N/A Bb w N/A Bbl Hours	5 <u>45' TV</u> D (Top 1/d /d	n) R	ECENT		
Second producing formation Pay 20	one depth (ft)		J,	AN <b>25</b> 2013		
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d WV GEOLOGICA:			OLOGICAL SURVE			
Final open flow Bbl/d MCRGANTOVAL NOV						
Time of open flow between initial and final testsHours						
Static rock Pressure psig (surface pressure) after Hours						
certify under penalty of law that I have personally examined all the attachments and that, based on my inquiry of those indicates the information is true, accurate, and complete.	and am familiar viduals immediat	with the inform ely responsible	nation submitted to for obtaining the	on this document and ne information I belie		
Simple 1/19/15						

Were core samples taken? Yes	No X Were cu	Were cuttings caught during drilling? Yes X NoNo		
Were Electrical, Mechanical or Geophys	sical logs recorded on this well? If s	ves please list Yes - CBL	••	
This is a subsequent well. Antero only runs wireline logs on the first	t well on a multi-well pad (Ed Amold Unit 1H AP#47-095-020	38). Please reference the wireline logs submi	ited with Form WR-35 for Ed Amold Unit 1H.	
NOTE: IN THE AREA BELOW FRACTURING OR STIMULATING DETAILED GEOLOGICAL RECO COAL ENCOUNTERED BY THE W	G, PHYSICAL CHANGE, ETC. 2) ORD OF THE TOPS AND BOT	. THE WELL LOG WH TTOMS OF ALL FORM	ICH IS A SYSTEMATIC	
Perforated Intervals, Fracturing, or Stime	ulating:			
Perforations: 7106'-15232' (1420	holes)			
Frac'd w/ 12,500 gals 15% HCL	Acid, 171,189 bbls Slick Wat	er carrying 943,127#	100 mesh.	
3,272,127# 40/70 and 1,881,550				
Disable David Davi			·	
Plug Back Details Including Plug Type a	and Depth(s): N/A			
Formations Engountered	Ton Donal	,	75 // 75 d	
Formations Encountered: Surface:	Top Depth		Bottom Depth	
<u></u>				
Gantz Sand est.	2678'	2803'		
Fifty Foot Sand est.	2804'	2918'		
Gordon est.	2919'	3122'		
Fifth Sandstone est.	3123'	3153'		
Bayard est.	3154'	3526'		
Varren est.	3527'	4836'		
Benson est.	4837'	5090'		
Alexander est.	5091'	5283'		
lk est.	5284'			
Rhinestreet est.	5902'	5901'		
ycamore est.	6170'	6169'		
onyea	6206'	6205 <sup>1</sup>		
Aiddlesex	6318'	6317'		
Vest River Shale		6369'		
west River Shale Burket	6370'	6458'		
	6459'	6487'		
Tully	6488'	6544'	*	
Marcellus	6545'	7275' TVD		

RECEIVED

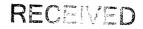
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WV GEOLOGICAL SURVEY MORGANT CONTROL OF THE

WELL NAME: Ed Arnold 2H API #: 47-095-02039

## List of Additives Used for Fracturing Or Stimulating Well

ADDITIVES	CHEMICAL ABSTRACT SERVICE NUMBER (CAS #)
Sodium Chloride	7647-14-5
Ammonium Chloride	12125-02-9
Petroleum Distillate Hydrotreated	64742-47-8
Alcohols, C12-16, Ethoxylated	68551-12-2
Ethylene Glycol	107-21-1
Sodium Polyacrylate Copolymer	25987-30-8
Bioclear 2000 (2,2-Dibromo-3-Nitriloropionamide)	10222-01-2
API-1 (Ammonium Persulfate)	7727-54-0
Hydrochloric Acid	7647-01-0
Water	7732-18-5
Ethylene Glycol	107-21-1
Ethoxylated Nonylphenol	68412-54-4
isopropanol (isopropyl Alcohol)	67-63-0
1-Decanol	112-30-1
1-Octanol	111-87-5
2-Butoxyethanol	111-76-2
Triethyl Phosphate	78-40-0
Cinnamaldehyde	104-55-2
N,N-Dimethylformamide	68-12-2
Tar Bases, Quinoline Derivs, benzyl chloride-quaternized	72480-70-7
Guar Gum	9000-30-0
Petroleum Distillate	64742-80-9
Surfactant	68439-51-0
Clay	14808-60-7



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