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: 6/15/2011

API#:

47-033-05427

UPDATED: 4/20/12

Farm name: Cunningham, Frank D. & Patrick H LOCATION: Elevation: 1303'				Operator Well No.: Haney Unit 1H Quadrangle: Wolf Summit				
	District: Coal			County	Harris	on		
	Latitude: 2647		Deg.	20	Min.		2.	
	Longitude 10,426	Feet West of 80	Deg.	25	_Min.	OO Sec	o.	
_C	ompany: Antero R	esources Appalachian Corp)					
A	ddress: 1625 17tl	n 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
Α	gent: CT Corpora	tion System		13-3/8	" 54#	484'	484'	672 Cu. Ft. Class A
Ir	_{ispector:} Tristan	Jenkins		9-5/8"	36#	2516'	2516'	1024 Cu. Ft. Class A
D	ate Permit Issued:	6/3/2010		5-1/2"	20#	12774'	12774'	3097 Cu. Ft. Class H
D	ate Well Work Con	nmenced: 7/27/2010				Тор	Bottom	
D	ate Well Work Con	npleted: 3/4/2011		Cemen	t Plug	520'	720'	437 Cu. Ft. Class A
V	erbal Plugging:	N/A						
D	ate Permission gran	ited on: N/A		2-3/8"	4.7#	7299'		
	Rotary Cable	e Rig						
	Total Vertical Depth (ft): 7192' TVD (deepest point drilled)							
_ ·	Total Measured Depth (ft): 12774' MD, 7034' TVD							
	Fresh Water Depth (ft.): *None available		-*Due to air drilling, Antero was unable			yas unable to ide	antify	
<u> </u>	Salt Water Depth (ft.): *None available				accurate fresh water, salt water and/or coal depths for			
Is	coal being mined in	n area (N/Y)? NO		reporti	ng.	l.	1	4
С	oal Depths (ft.): *N	one available						
v	oid(s) encountered	(N/Y) Depth(s) N, N/A						
Pro	ducing formation Ma	nore than two producing for arcellus MCF/d Oil: Initial o	Pay z	zone dept	h (ft) <u>7</u>	143' TV D (To		heet)
	inal open flow 8326			Bb				
	Time of open flow between initial and final tests N/A						l contraction	$(x_1, \dots, x_n) \in \mathbb{R}^{n \times n}$
Stati	Static rock Pressure 3300 psig (surface pressure) aft				Hour	rs .	ŧ	10 m
Seco	ond producing form	ationPa	ne depth	(ft)		***	to the second second	
	Initial open flow_		-	. /				
	inal open flow			Bb	I/d	w 1 . 12		
	-	etween initial and final tests			Hours			
Stati	Static rock Pressurepsig (surface pressure) after					s	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
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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.

Signature

05/04/2012

Were core samples taken? Yes1	No Were cutting	gs caught during drilling? YesNo^
Were Electrical, Mechanical or Geophysi Photo Density/ Compensated Neutron, Array Induction,	cal logs recorded on this well? If yes,	please list Yes - Cement Bond Log/Gamma Ray/CCL Log
FRACTURING OR STIMULATING,	PHYSICAL CHANGE, ETC. 2). TR RD OF THE TOPS AND BOTTO	ETAILS OF PERFORATED INTERVAL HE WELL LOG WHICH IS A SYSTEMATI MS OF ALL FORMATIONS, INCLUDING OTAL DEPTH.
Perforated Intervals, Fracturing, or Stimu	lating:	
Perforations: 7387' - 12,712' MD (936 holes)	
Frac'd w/ 4,250 gals 15% HCL Ac	id, 107,300 bbls Slick Water ca	rrying 542,200# 100 mesh,
2,531,900# 40/70 and 1,612,400#	20/40 sand.	
Plug Back Details Including Plug Type a	nd Depth(s): N/A	
		<u> </u>
Formations Encountered:	Top Depth	/ Bottom Depth
Surface:		
Big Lime	1580'	2045'
Gantz	2046'	2300'
Gordon	2301'	3249'
Speechly	3250'	3463'
Balltown	3464'	4633'
Benson	4634'	5151'
Elk	5152'	6455'
Sycamore	6456'	6916'
Burkett	6917	6943'
Tully	6944'	7066'
Hamilton	7,067'	7142'
Marcellus	7143'	7192' TVD
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t Address Addr		

05/04/2012

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