

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

DATE: 11-5-2012  
API #: 47-009-00124

Farm name: John Good Jr BRK 5H Operator Well No.: 834956

LOCATION: Elevation: 1145' Quadrangle: Bethany

District: Buffalo County: Brooke  
Latitude: 10910' Feet South of 40 Deg. 15 Min. 00 Sec.  
Longitude 9500' Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
P.O. Box 18496 Oklahoma City, OK 73154-0496	13 3/8"	339'	339'	460 Cu. Ft.
Agent: Eric Gillespie	9 5/8"	1736'	1736'	858 Cu. Ft.
Inspector: Bill Hendershot	5 1/2"	9817'	9817'	2470 Cu. Ft.
Date Permit Issued: 1-18-2012				
Date Well Work Commenced: 4-24-2012				
Date Well Work Completed: 8-11-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 5898'				
Total Measured Depth (ft): 9818'				
Fresh Water Depth (ft.): 300'				
Salt Water Depth (ft.): 1200'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 288'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 8,250'-9,679'  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 2,143\* MCF/d Final open flow 295 Bbl/d  
Time of open flow between initial and final tests 54 Hours \*Calculated  
Static rock Pressure 3,808\* psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

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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.

Marlene Williams  
Signature

11-9-2012  
Date

12/14/2012

Were core samples taken? Yes \_\_\_\_\_ No N

Were cuttings caught during drilling? Yes Y No \_\_\_\_\_

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR, neutron, density, and resistivity  
open hole logs run from 0-1764' MD; GR MWD from 5,362'-9,818' MD

**NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.**

Perforated Intervals, Fracturing, or Stimulating:

(See attached)

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: \_\_\_\_\_ Top Depth / \_\_\_\_\_ Bottom Depth  
Surface:

(See attached)

**PERFORATION RECORD ATTACHMENT**

Well Number and Name: 834956 John Good Jr. BRK 5H

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated		Fluid		Propping Agent		Average Injection
	From	To		Type	Amount	Type	Amount			
6/29/2012	9,060	9,679	8/6/2012	9,060	9,679	Sik wtr	13,977	Sand	823,500	80
8/7/2012	8,745	8,999	8/7/2012	8,745	8,999	Sik wtr	8,407	Sand	362,420	72
8/7/2012	8,433	8,683	8/7/2012	8,433	8,683	Sik wtr	6,640	Sand	361,830	80
8/7/2012	8,121	8,371	8/8/2012	8,121	8,371	Sik wtr	6,975	Sand	362,470	79
8/8/2012	7,809	8,059	8/8/2012	7,809	8,059	Sik wtr	6,539	Sand	363,140	80
8/8/2012	7,497	7,747	8/9/2012	7,497	7,747	Sik wtr	6,719	Sand	363,460	80
8/9/2012	7,185	7,435	8/10/2012	7,185	7,435	Sik wtr	6,622	Sand	360,660	79
8/10/2012	6,873	7,123	8/11/2012	6,873	7,123	Sik wtr	6,777	Sand	358,400	80
8/11/2012	6,561	6,811	8/11/2012	6,561	6,811	Sik wtr	6,536	Sand	361,140	80
8/11/2012	6,250	6,499	8/11/2012	6,250	6,499	Sik wtr	6,709	Sand	363,580	80

**LATERAL WELLBORE (no vertical pilot hole associated with this well)**

**Maximum TVD of wellbore: 5898 ft TVD @ 7763 ft MD**

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SS/SH	0	0	288	288
PITTSBURG COAL	288	288	293	293
LS	293	293	420	420
SS	420	420	450	450
LS/SS	450	450	650	650
LS/SS/SH	650	650	810	810
SS/SH	810	810	1300	1300
BIG LIME	1300	1300	1390	1390
BIG INJUN (SS)	1390	1390	1510	1510
SHALE	1510	1510	5892	5702
GENESEO (SH)	5892	5702	5909	5715
TULLY (LS)	5909	5715	6000	5778
HAMILTON (SH)	6000	5778	6183	5866
MARCELLUS (SH)	6183	5866		
TD OF LATERAL			9818	5858