

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

DATE: 1-27-2012  
API #: 47-009-00084

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Farm name: Barry Greathouse A Operator Well No.: 5H

LOCATION: Elevation: 1150' Quadrangle: Tiltonsville WV

MAR 19 2012

District: Buffalo County: Brooke  
Latitude: 2970' Feet South of 40 Deg. 12 Min. 30 Sec.  
Longitude 6140' Feet West of 80 Deg. 37 Min. 30 Sec.

WV GEOLOGICAL SURVEY  
MORGANTOWN, WV

Company: Chesapeake Appalachia, L.L.C.

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>P.O. Box 18496</u> <u>Oklahoma City, OK 73154-0496</u>	<u>20"</u>	<u>90'</u>	<u>90'</u>	<u>Driven</u>
Agent: <u>Eric Gillespie</u>	<u>13 3/8"</u>	<u>368'</u>	<u>368'</u>	<u>434 cf</u>
Inspector: <u>Bill Hendershot</u>	<u>9 5/8"</u>	<u>1716'</u>	<u>1716'</u>	<u>783 cf</u>
Date Permit Issued: <u>1/11/2011</u>	<u>5 1/2"</u>	<u>12733'</u>	<u>12733'</u>	<u>3370 cf</u>
Date Well Work Commenced: <u>5/26/2011</u>				
Date Well Work Completed: <u>9/23/2011</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>5,747'</u>				
Total Measured Depth (ft): <u>12,733'</u>				
Fresh Water Depth (ft.): <u>120'</u>				
Salt Water Depth (ft.): <u>1136'</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>270'</u>				
Void(s) encountered (N/Y) Depth(s) <u>N</u>				

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

Producing formation Marcellus Pay zone depth (ft) 6,515'-12,597'

Gas: Initial open flow 1,267 MCF/d Oil: Initial open flow 100 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 3,736 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

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

3-14-2012  
Date

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 \_\_\_\_\_  
LWD GR from 5001-12677' 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)

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Plug Back Details Including Plug Type and Depth(s): Cement @ 12,647'

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>/</u>	<u>Bottom Depth</u>
<u>Surface:</u>			

(See Attached)

<b>Formation/Lithology</b>	<b>Top Depth (ft)</b>	<b>Bottom Depth (ft)</b>
LS/SHALE	0	270
Pittsburg Coal	270	280
SHALE	280	450
SS/SHALE	450	1260
Big Lime	1260	1395
Big Injun	1395	1550
SHALE/SS	1550	4850
SHALE	4850	6012
Geneseo	6012	6034
Tully	6034	6055
Hamilton	6055	6284
Marcellus	6284	12733

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