

JL

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: 1/22/13 REV. 11/12/14  
API #: 47-67-00946

Farm name: MeadWestvaco Corp. Operator Well No.: MWV Rupert 5H

LOCATION: Elevation: 3,025' Quadrangle: Richwood

District: Kentucky County: Nicholas  
Latitude: 13.650 Feet South of 38 Deg. 15 Min. 00 Sec.  
Longitude: 8.010 Feet West of 00 Deg. 32 Min. 30 Sec.

Company: BRC Operating Company, LLC

Address:	Casing & Tubing	Used in drilling	Left in well	Coment fill up Cu. Ft.
200 Crescent Court, Suite 200 Dallas, TX 75201	20"	130'	130'	180 Tall
Agent: Marc A. Monteleone	13 3/8"	1,550'	1,550'	1,443 Tall
Inspector: Ed Gainer	9 5/8"	6,799'	6,799'	2,706 Lead/202 Tail
Date Permit Issued: 10/7/10	5 1/2"	12,200'	12,200'	1,398 Lead/1,757 Tail
Date Well Work Commenced: 6/23/11				
Date Well Work Completed: 7/29/11				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 7,728				
Total Measured Depth (ft): 12,200				
Fresh Water Depth (ft.): 182				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): N/A				
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) 7,600 - 7,700  
Gas: Initial open flow 0 MCF/d Oil: Initial open flow - Bbl/d  
Final open flow 0 MCF/d Final open flow - Bbl/d  
Time of open flow between initial and final tests 72 Hours  
Static rock Pressure 3,100 psig (surface pressure) after 36 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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WV Department of  
Environmental Protection

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

11/2/2014  
Date

12/05/2014

67-00945<sup>5</sup>

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

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

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list MWD Gamma Ray (7,043' - 12,407')  
MWD - Measurement While Drilling

**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:

Perforations - 4 sets:

12,432' - 12,292'	25 Holes
12,252' - 12,112'	25 Holes
12,072' - 11,932'	25 Holes
11,892' - 11,752'	25 Holes

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

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

<u>Geologic Age</u>	<u>Formation</u>	<u>Lithology</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
Mississippian	Greenbrier	Limestone	2490	2543
Mississippian		Shale	2543	2858
Mississippian	Injun	Sandstone	2858	2875
Mississippian		Shale	2875	2884
Mississippian	Squaw	Sandstone	2884	2890
Mississippian		Shale	2890	2967
Mississippian	Weir	Sandstone	2967	2975
Mississippian		Shale	2975	3433
Mississippian	Berea	Sandstone	3433	3455
Mississippian		Shale	3455	3523
Devonian	Gordon	Sandstone	3523	3548
Devonian		Siltstone & Shale	3548	4493
Devonian	Huron	Shale	4493	7382
Devonian	Rhinestreet	Organic Shale	7382	7620
Devonian	Marcellus	Organic Shale	7620	TD