

WR-35  
Rev (8-10)

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

DATE: 6-8-2011  
API #: 47-097-03691

Farm name: Mark Harper 3H Operator Well No.: 831378

LOCATION: Elevation: 1857 GL Quadrangle: Rock Cave

District: Banks County: Upshur  
Latitude: 2508' Feet South of 38 Deg. 52 Min. 30 Sec.  
Longitude 10,165' Feet West of 89 Deg. 17 Min. 30 Sec.

Company: Chesapeake Appalachia, LLC

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
P.O. Box 18496, Oklahoma City, OK 73154	20"	40'	40'	7 cf
Agent: <b>Eric Gillespie</b>	13 3/8"	544'	544'	590 cf
Inspector: <b>Bill Hatfield</b>	9 5/8"	2352'	2352'	1086 cf
Date Permit Issued: <b>11-12-2009</b>	7"	7404'	7404'	805 cf
Date Well Work Commenced: <b>10-8-2010</b>	4 1/2"	13,390'	13,390'	696 cf
Date Well Work Completed: <b>5-14-2011</b>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig				
Total Vertical Depth (ft): <b>7,224'</b>				
Total Measured Depth (ft): <b>13,390'</b>				
Fresh Water Depth (ft.): <b>400'</b>				
Salt Water Depth (ft.): <b>1100'</b>				
Is coal being mined in area (N/Y)? <b>NO</b>				
Coal Depths (ft.): <b>none</b>				
Void(s) encountered (N/Y) Depth(s)				

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

Producing formation Marcellus Pay zone depth (ft) 7,548' - 13,200'

Gas: Initial open flow 2,378 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 3,251 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

RECEIVED  
Office of Oil & Gas  
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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.

Marlene Williams  
Signature

11-22-2011  
Date

01/27/2012

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

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

Were  Electrical,  Mechanical,  or Geophysical logs recorded on this well?  
Y/N Y/N Y/N

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

Mudlog start from	2352'	
Silty Sandstone	2352'	2650'
Sandstone	2650'	2740'
Limestone with Sand/ Shale inclusion	2740'	2770'
Shale	2770'	3160'
Silty Shale	3160'	3250'
Shale	3250'	7047'
Tully	7047'	7163'
Upper Marcellus	7163'	7208'
Purcell	7208'	7211'
Lower Marcellus	7211'	13390' (Lateral TD)

