

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

DATE: 2-1-2012  
API #: 47-009-00089

Farm name: Mark Owen Operator Well No.: 8H **RECEIVED**

LOCATION: Elevation: 1173' Quadrangle: Bethany, WV **MAR 19 2012**

District: Buffalo County: Brooke WV GEOLOGICAL SURVEY  
Latitude: 1060 Feet South of 40 Deg. 15 Min. 00 Sec. MORGANTOWN, WV  
Longitude 10760' 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.
<u>P.O. Box 18496</u>				
<u>Oklahoma City, OK 73154-0496</u>	<u>20"</u>	<u>93'</u>	<u>93'</u>	<u>Driven</u>
Agent: <u>Eric Gillespie</u>	<u>13 3/8"</u>	<u>390'</u>	<u>390'</u>	<u>478 cf</u>
Inspector: <u>Bill Hendershot</u>	<u>9 5/8"</u>	<u>1790'</u>	<u>1790'</u>	<u>819 cf</u>
Date Permit Issued: <u>1/31/2011</u>	<u>5 1/2"</u>	<u>11380'</u>	<u>11380'</u>	<u>2293 cf</u>
Date Well Work Commenced: <u>3/12/2011</u>				
Date Well Work Completed: <u>11/5/2011</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>6,104'</u>				
Total Measured Depth (ft.): <u>11,393'</u>				
Fresh Water Depth (ft.): <u>175'</u>				
Salt Water Depth (ft.): <u>1271'</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>280'</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) 6,184'-11,256'  
Gas: Initial open flow 2,730 MCF/d Oil: Initial open flow 290 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 3,968 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.

Madlene Williams  
Signature

3-14-2012  
Date

MAR 19 2012

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

Were cuttings caught during drilling? Yes ~~No~~ Yes ~~No~~

WV GEOLOGICAL SURVEY

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR, neutron, density, and resistivity  
open hole logs run from 0-6096' MD; LWD GR from 5202-11339' 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): Cement @ 11,250'

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

(See Attached)

Formation/Lithology	Top Depth (ft)	Bottom Depth (ft)
LS/SHALE	0	280
Pittsburg Coal	280	290
LS/SHALE	290	460
SHALE	460	500
LS/SHALE	500	680
SHALE	680	900
SS/SHALE	900	1350
Big Lime	1350	1455
Big Injun	1455	1796
SHALE	1796	5846
Geneseo	5846	5869
Tully	5869	5939
Hamilton	5939	6129
Marcellus	6129	11339

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WV GEOLOGICAL SURVEY  
MORGANTOWN, WV

