

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: 2-1-2012
API #: 47-009-00101

RECEIVED

Farm name: Mark Owen Operator Well No.: 3H (832801)

LOCATION: Elevation: 1170' Quadrangle: Bethany, WV

MAY 9 2012

District: Buffalo County: Brooke
Latitude: 1050' Feet South of 40 Deg. 15 Min. 00 Sec.
Longitude 10730 Feet West of 80 Deg. 32 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.
P.O. Box 18496 Oklahoma City, OK 73154-0496	20"	100'	100'	Driven
Agent: Eric Gillespie	13 3/8"	382'	382'	447 cf
Inspector: Bill Hendershot	9 5/8"	1770'	1770'	820 cf
Date Permit Issued: 4/8/2011	5 1/2"	13019'	13019'	2797 cf
Date Well Work Commenced: 8/10/2011				
Date Well Work Completed: 11/5/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 5,973'(Cement plug @12,925')				
Total Measured Depth (ft): 13,020'				
Fresh Water Depth (ft.): 175'				
Salt Water Depth (ft.): 1271'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 309'-320'				
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) 6,308'-12,865'

Gas: Initial open flow 1,534 MCF/d Oil: Initial open flow 134 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 3,882 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.

Marlow Williams
Signature

5/8/2012
Date

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes _____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list LWD GR from 5,381'-12,970' 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 @ 12,925'

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

(See Attached)

RECEIVED

MAY 9 2012

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

<u>Mark Owen 3H</u>	MD		
<u>Lithology</u>	<u>Top Depth (ft)</u>	<u>Bottom Depth (ft)</u>	
SHALE	0	100	
SHALE/LIMESTONE	100	220	
SHALE/SANDSTONE/LIMESTONE	220	280	
SHALE/SANDSTONE	280	309	
COAL	309	320	
SHALE/LIMESTONE/SILTSTONE/COAL	320	360	
SHALE/LIMESTONE/SILTSTONE/SANDSTONE	360	385	
SHALE/LIMESTONE	385	450	
SHALE	450	540	
SHALE/LIMESTONE	540	720	
SHALE/LIMESTONE/SANDSTONE	720	780	
SHALE/SANDSTONE	780	840	
SHALE/SANDSTONE/LIMESTONE	840	900	
SHALE/SANDSTONE	900	990	
SHALE/LIMESTONE/SANDSTONE/SILTSTONE	990	1050	
SHALE	1050	1075	
SHALE/SILTSTONE/SANDSTONE	1075	1130	
SHALE/SANDSTONE	1130	1200	
SHALE/LIMESTONE/SANDSTONE	1200	1290	
SHALE/SILTSTONE	1290	1320	
SHALE/LIMESTONE	1320	1410	
SHALE/SANDSTONE	1410	1430	
SHALE/SANDSTONE/LIMESTONE	1430	1456	
BIG INJUN	1456	1654	
SHALE	1654	5847	
GENESEO	5847	5869	
TULLY	5869	5940	
HAMILTON	5940	6130	
MARCELLUS	6130	11340	

