

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

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MAR 20 2012

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

Farm name: Lynette Howes Operator Well No.: 3H (831595)

LOCATION: Elevation: 1850' Quadrangle: Buckhannon

District: Washington County: Upshur
Latitude: 11,185' Feet South of 38 Deg. 55 Min. 00 Sec.
Longitude 1015' Feet West of 80 Deg. 10 Min. 00 Sec.

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"	40'	40"	Driven
Agent: Eric Gillespie	13 3/8"	515'	515'	518 cf
Inspector: Bill Hatfield	9 5/8"	2452'	2452'	1133 cf
Date Permit Issued: 4/29/2010	5 1/2"	12375'	12375'	2454 cf
Date Well Work Commenced: 8/16/2010				
Date Well Work Completed: 1/19/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 7332'				
Total Measured Depth (ft): 12,375'				
Fresh Water Depth (ft.): 400'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): None				
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) 7,908'-12,230'

Gas: Initial open flow 936 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 3,299 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.

Madeline Williams
Signature

3-19-2012
Date

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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 6647-12328' 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): PBTD cement - 12,280'

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

(See Attached)

Formation/Lithology	Top Depth (ft)	Bottom Depth (ft)
SS/LS	0	500
SS/SHALE	500	800
SHALE/SS	800	1100
SHALE/SS	100	1400
Big Lime	1400	1600
Big Injun	1600	1710
SHALE/SS	1710	2450
SILT/SHALE	2450	6050
SHALE/LS	6050	6750
SHALE	6750	7143
Geneseo	7143	7212
Tully	7212	7252
Hamilton	7252	7457
Marcellus	7457	12375

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