

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

DATE: 10-23-2012
API #: 47-009-00091

Farm name: Mildred Mani 5H Operator Well No.: 832969

LOCATION: Elevation: 1090' Quadrangle: Stuebenville East

District: Buffalo County: Brooke
Latitude: 1740' Feet South of 40 Deg. 17 Min. 30 Sec.
Longitude 13760' Feet West of 80 Deg. 35 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"	80'	80'	247 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	201'	201'	286 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	1508'	1508'	668 Cu. Ft.
Date Permit Issued: 2-11-2011	5 1/2"	9800'	9800'	2447 Cu. Ft.
Date Well Work Commenced: 3-27-2011				
Date Well Work Completed: 4-21-2011(Rig Release date)				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 5718'(Cement plug @ 5002' - 5684')				
Total Measured Depth (ft): 9800'				
Fresh Water Depth (ft.): 300'				
Salt Water Depth (ft.): 1100'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 110'				
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) n/a(not frac'd)

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

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

12/15/2012
Date

Were core samples taken? Yes _____ No

Were cuttings caught during drilling? Yes _____ No

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' - 5,718' MD;LWD GR 2702' - 9751' 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:

Fracturing on hold

Plug Back Details Including Plug Type and Depth(s): Cement plug @ 5002' - 5684'

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

See next page

VERTICAL PILOT HOLE

Formation/Lithology	Top Depth, TVD/MD (ft)	Bottom Depth, TVD/MD (ft)
SH	0	110
COAL	110	130
SH/SS	130	690
LS/SH/SS	690	710
COAL/SH/SS	710	720
SH/SS	720	1133
BIG LIME (LS)	1133	1281
BIG INJUN (SS)	1281	1419
SHALE	1419	5491
GENESEO (SH)	5491	5506
TULLY (LS)	5506	5560
HAMILTON (SH)	5560	5649
MARCELLUS (SH)	5649	5711
ONONDAGA (LS)	5711	
TD OF PILOT HOLE		5718

**LATERAL SIDETRACK
WELLBORE**

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SH	0	0	110	110
COAL	110	110	130	130
SH/SS	130	130	690	690
LS/SH/SS	690	690	710	710
COAL/SH/SS	710	710	720	720
SH/SS	720	720	1140	1140
BIG INJUN (SS)	1140	1140	1385	1385
SHALE	1385	1385	5688	5497
GENESEO (SH)	5688	5497	5707	5513
TULLY (LS)	5707	5513	5778	5567
HAMILTON (SH)	5778	5567	5925	5656
MARCELLUS (SH)	5925	5656		
TD OF LATERAL			9679	5660