

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

DATE: 8-6-2012  
API #: 47-009-00103

Farm name: Kathy Mayhew BRK 8H Operator Well No.: 833622

LOCATION: Elevation: 1270' Quadrangle: Bethany WV

District: Buffalo County: Brooke  
Latitude: 11000 Feet South of 40 Deg. 12 Min. 30 Sec.  
Longitude 5820' 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"	109'	109'	Driven
Agent: Eric Gillespie	13 3/8"	508'	508'	421 Cu. Ft.
Inspector: <b>Bill Hendershot</b>	9 5/8"	1897'	1897'	825 Cu. Ft.
Date Permit Issued: 7/5/2011	5 1/2"	10751'	10751'	2711 Cu. Ft.
Date Well Work Commenced: 9/20/2011				
Date Well Work Completed: 2/18/2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6073'				
Total Measured Depth (ft): 10751'				
Fresh Water Depth (ft.): 300'				
Salt Water Depth (ft.): 900'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 434'				
Void(s) encountered (N/Y) Depth(s) Y 425'				

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

Producing formation Marcellus Pay zone depth (ft) 6,425' - 10,619'

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 1,573\* MCF/d Final open flow 319 Bbl/d  
Time of open flow between initial and final tests 37 Hours \* Calculated  
Static rock Pressure 3,946\* 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.

Marlene Williams  
Signature

9-14-2012  
Date





**LATERAL SIDETRACK WELLBORE (no vertical pilot hole associated with this well)****Maximum TVD of wellbore: 6073 ft TVD @ 10751 ft MD**

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SS	0	0	434	434
PITTSBURG COAL	434	434	446	446
SS	446	446	1440	1440
BIG LIME (LS)	1440	1440	1490	1490
BIG INJUN (SS)	1490	1490	1740	1740
SHALE	1740	1740	5845	5815
GENESEO (SH)	5845	5815	5863	5829
TULLY (LS)	5863	5829	5950	5888
HAMILTON (SH)	5950	5888	6208	5979
MARCELLUS (SH)	6208	5979		
TD OF LATERAL			10751	6073