

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: Bill Hendershot	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) 8,425' - 10,819'
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

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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

9-4-2012
Date

11/09/2012

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 5380-10751' 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):

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth
Surface: _____

(See Attached)

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PERFORATION RECORD ATTACHMENT

Well Number and Name: 833622 Kathy Mayhew BRK 8H

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated		Fluid		Propping Agent		Average Injection
	From	To		Type	Amount	Type	Amount			
1/25/2012	10,236	10,619	2/10/2012	10,236	10,619	Slk wtr	9,471	Sand	572,677	90
2/10/2012	9,759	10,143	2/11/2012	9,759	10,143	Slk wtr	9,880	Sand	572,698	86
2/11/2012	9,283	9,666	2/12/2012	9,283	9,666	Slk wtr	12,220	Sand	571,584	85
2/12/2012	8,807	9,190	2/13/2012	8,807	9,190	Slk wtr	9,267	Sand	572,028	85
2/13/2012	8,330	8,714	2/14/2012	8,330	8,714	Slk wtr	9,526	Sand	572,272	86
2/14/2012	7,854	8,237	2/15/2012	7,854	8,237	Slk wtr	9,398	Sand	574,873	86
2/15/2012	7,378	7,761	2/16/2012	7,378	7,761	Slk wtr	9,738	Sand	565,922	85
2/16/2012	6,901	7,285	2/17/2012	6,901	7,285	Slk wtr	9,356	Sand	571,670	84
2/17/2012	6,425	6,808	2/18/2012	6,425	6,808	Slk wtr	9,278	Sand	574,110	85

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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

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