Preliminary Report

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: 12-11-2012
API #: 47-009-00122

Farm name: State of WV DNR B BRK 8H Operator Well No.: 834580

LOCATION: Elevation: 1180' Quadrangle: Steubenville East, WV.

District: Cross Creek County: Brooke
Latitude: 2270' Feet South of 40 Deg. 22 Min. 30 Sec.
Longitude 7470' Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	13 3/8"	389'	389'	434 Cu. Ft.
Agent: Eric Gillespie	9 5/8"	1439'	1439'	651 Cu. Ft.
Inspector: Bill Hendershot	5 1/2"	10617'	10617'	2548 Cu. Ft.
Date Permit Issued: 1-18-2012				
Date Well Work Commenced: 6-20-2012				
Date Well Work Completed: 9-17-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 5713'				
Total Measured Depth (ft): 10617'				
Fresh Water Depth (ft.): 80',300'				
Salt Water Depth (ft.): 1210'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 654'				
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) 6,050'-10,452'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow Not Tested 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

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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.

Signature Date 12-14-2012

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 GR, neutron, density, and resistivity

Open hole logs run from 0-1461' MD; LWD GR from 4676-10668' 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

PERFORATION RECORD ATTACHMENT

Well Number and Name: 834580 State of WV DNR B BRK 8H

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
9/7/2012	10,046	10,452	9/7/2012	10,046	10,452	Slk wtr	11,710	Sand	606,440	80
9/7/2012	9,546	9,963	9/8/2012	9,546	9,963	Slk wtr	10,929	Sand	598,640	79.3
9/8/2012	9,047	9,463	9/10/2012	9,047	9,463	Slk wtr	14,721	Sand	662,075	78.3
9/15/2012	8,547	8,963	9/15/2012	8,547	8,963	Slk wtr	10,857	Sand	599,580	79.7
9/15/2012	8,048	8,464	9/15/2012	8,048	8,464	Slk wtr	10,837	Sand	600,991	79.9
9/15/2012	7,548	7,965	9/16/2012	7,548	7,965	Slk wtr	10,999	Sand	603,440	79.4
9/16/2012	7,049	7,465	9/16/2012	7,049	7,465	Slk wtr	11,383	Sand	601,620	79.8
9/16/2012	6,549	6,965	9/16/2012	6,549	6,965	Slk wtr	10,685	Sand	600,360	80
9/17/2012	6,050	6,466	9/17/2012	6,050	6,466	Slk wtr	10,630	Sand	601,420	79.2

LATERAL WELLBORE (no vertical pilot hole associated with this well)

Maximum TVD of wellbore: 5713 ft TVD @ 10617 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS/LS/SH	0	0	420	420
SHALE	420	420	480	480
SS/LS/SH	480	480	654	654
KITTANING COAL	654	654	660	660
SHALE	660	660	720	720
SS	720	720	840	840
SHALE	840	840	990	990
SS	990	990	1080	1080
BIG LIME	1080	1080	1135	1135
BIG INJUN (SS)	1135	1135	1368	1368
SHALE	1368	1368	5526	5441
GENESEO (SH)	5526	5441	5554	5458
TULLY (LS)	5554	5458	5653	5513
HAMILTON (SH)	5653	5513	5841	5590
MARCELLUS (SH)	5841	5590		
TD OF LATERAL			10617	5713