

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

Farm name: Samuel Hubbard BRK 8H Operator Well No.: 833468

LOCATION: Elevation: 1225' Quadrangle: Steubenville East

District: Cross Creek County: Brooke
Latitude: 1950' Feet South of 40 Deg. 17 Min. 30 Sec.
Longitude 1580' Feet West of 80 Deg. 32 Min. 30 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	13 3/8"	296'	296'	129 Cu. Ft.
Agent: Eric Gillespie	9 5/8"	1765'	1765'	853 Cu. Ft.
Inspector: Bill Hendershot	5 1/2"	10080'	10080'	2503 Cu. Ft.
Date Permit Issued: 6-22-2011				
Date Well Work Commenced: 10-27-2011				
Date Well Work Completed: 7-17-2012(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): 5940'				
Total Measured Depth (ft): 10091'				
Fresh Water Depth (ft.): 60', 95', 200'				
Salt Water Depth (ft.): 1055'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 257'				
Void(s) encountered (N/Y) Depth(s) Y 265'				

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.

Marlon Williams
Signature

12-10-2012
Date

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 5206' - 10091' 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:

No frac or stimulating will frac 5-9-2013

Plug Back Details Including Plug Type and Depth(s):

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

(See attached)

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

Maximum TVD of wellbore: 5940 ft TVD @ 10091 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS/LS	0	0	257	257
PITTSBURG COAL	257	257	350	350
SS/SH	350	350	400	400
SS	400	400	1252	1252
BIG LIME (LS)	1252	1252	1395	1395
BIG INJUN (SS)	1395	1395	1555	1555
SHALE	1555	1555	5696	5664
GENESECO (SH)	5696	5664	5715	5679
TULLY (LS)	5715	5679	5814	5743
HAMILTON (SH)	5814	5743	6043	5839
MARCELLUS (SH)	6043	5839		
TD OF LATERAL			10091	5940