

WR-35
Rev (9-11)

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

DATE: 08-08-2013
API #: 47-009-00098

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: 4/10/2013				
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) 6,150-9,953
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 2,457* MCF/d Final open flow 355 Bbl/d
Time of open flow between initial and final tests 72 Hours
Static rock Pressure 3,861* psig (surface pressure) after 72 Hours * Calculated

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

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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:

See attachment

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

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

See attachment

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PERFORATION RECORD ATTACHMENT

Well Number and Name: 833468 Samuel Hubbard BRK 8H

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated		Fluid		Propping Agent		Average Injection
	From	To		Type	Amount	Type	Amount			
8/2/2012	9,529	9,953	3/9/2013	9,529	9,953	Sik wtr	12,809	Sand	799,980	80
3/9/2013	9,171	9,464	3/9/2013	9,171	9,464	Sik wtr	10,029	Sand	602,380	80
3/9/2013	8,794	9,093	3/9/2013	8,794	9,093	Sik wtr	10,230	Sand	600,380	80
3/9/2013	8,416	8,715	3/10/2013	8,416	8,715	Sik wtr	10,238	Sand	600,460	80
3/10/2013	8,038	8,338	3/10/2013	8,038	8,338	Sik wtr	10,190	Sand	598,331	80
3/10/2013	7,661	7,960	3/10/2013	7,661	7,960	Sik wtr	10,802	Sand	600,320	80
3/10/2013	7,283	7,582	3/10/2013	7,283	7,582	Sik wtr	10,180	Sand	601,100	80
3/10/2013	6,905	7,205	3/10/2013	6,905	7,205	Sik wtr	10,075	Sand	600,440	80
3/11/2013	6,528	6,827	3/11/2013	6,528	6,827	Sik wtr	10,079	Sand	599,640	80
3/11/2013	6,150	6,449	3/11/2013	6,150	6,449	Sik wtr	10,014	Sand	601,800	80

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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
GENESEO (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

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