

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

Farm name: Brooke County Parks BRK 3H Operator Well No.: 833685

LOCATION: Elevation: 1206' Quadrangle: Steubenville East

District: Buffalo County: Brooke
Latitude: 1750' Feet South of 40 Deg. 17 Min. 30 Sec.
Longitude 11340' 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"	357'	357'	409 Cu. Ft.
Agent: Eric Gillespie	9 5/8"	1576'	1576'	785 Cu. Ft.
Inspector: Bill Hendershot	5 1/2"	9283'	9283'	2245 Cu. Ft.
Date Permit Issued: 7-26-2011				
Date Well Work Commenced: 11-6-2011				
Date Well Work Completed: 6-29-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 5915'				
Total Measured Depth (ft): 9287'				
Fresh Water Depth (ft.): 73', 250'				
Salt Water Depth (ft.): 1126'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 319'				
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) 6,145'-9,155'

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow 1,653* MCF/d Final open flow 203 Bbl/d

Time of open flow between initial and final tests 55 Hours *Calculated

Static rock Pressure 3,825* psig (surface pressure) after _____ Hours

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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

9-27-2012
Date

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes _____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR LWD from 5,295' - 9,226' 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):

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

(See Attached)

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PERFORATION RECORD ATTACHMENT

Well Number and Name: 833685 Brooke County Parks BRK 3H

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated	Fluid		Propping Agent		Average Injection	
	From	To			Type	Amount	Type	Amount		
6/1/2012	8,625	9,155	6/21/2012	8,625	9,155	Slk wtr	12,697	Sand	619,760	80
6/22/2012	8,006	8,536	6/26/2012	8,006	8,536	Slk wtr	12,897	Sand	620,080	79.8
6/26/2012	7,350	7,917	6/26/2012	7,350	7,917	Slk wtr	17,133	Sand	618,220	79.8
6/27/2012	6,769	7,299	6/27/2012	6,769	7,299	Slk wtr	12,382	Sand	620,020	80
6/27/2012	6,145	6,680	6/29/2012	6,145	6,680	Slk wtr	12,445	Sand	624,100	79.9

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

Maximum TVD of wellbore: 5915 ft TVD @ 6648 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS	0	0	250	250
LS/SS	250	250	319	319
PITTSBURG COAL	319	319	327	327
SS	327	327	1350	1350
BIG INJUN (SS)	1350	1350	1606	1606
SHALE	1606	1606	5758	5724
GENESEO (SH)	5758	5724	5774	5736
TULLY (LS)	5774	5736	5861	5796
HAMILTON (SH)	5861	5796	6140	5896
MARCELLUS (SH)	6140	5896		
TD OF LATERAL			9287	5884

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