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:	10-18-2012	W.
API #:	47-009-00119	U

Farm name: John Harwatt BRK 8H	_ Operator Wel	l No.: 834171		
LOCATION: Elevation: 1135'	_ Quadrangle: _	247-Bethany		<u></u>
District: Buffalo	_ County: Brook	ke		
	g. 12 Min g. 35 Min			
Longitude 102.10 Peet West of 00 De	g. <u></u> IVIIII	<u></u> Sec	3.	
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"	391'	391'	477 Cu. Ft.
Agent: Eric Gillespie	9 5/8"	1799'	1799'	818 Cu. Ft.
Inspector: Bill Hendershot	5 1/2"	11184'	11184'	2588 Cu. Ft
Date Permit Issued: 1-23-2012				
Date Well Work Commenced: 3-1-2012				
Date Well Work Completed: 7-18-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 5999'				
Total Measured Depth (ft): 11190'				0
Fresh Water Depth (ft.): 70', 300'				
Salt Water Depth (ft.): 1190'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 318'				
Void(s) encountered (N/Y) Depth(s) N				
OPEN FLOW DATA (If more than two producing format Producing formation Marcellus Pay Gas: Initial open flow MCF/d Oil: Initial open	zone depth (ft) flowB	3,199'-11,048' 	ata on separate s	heet)

PEN FLOW DATA (If more t	han two producing formations ple	ease include additional data on sepa	rate sheet)
Producing formation Marcellu	Pay zone d	epth (ft) 6,199'-11,048'	,
	MCF/d Oil: Initial open flow		
Final open flow 909*	MCF/d Final open flow 122	Bbl/d	
Time of open flow between	en initial and final tests 37	Hours *Calculated	
Static rock Pressure 3,899*	psig (surface pressure) after	Hours	
Second producing formation	Pay zone dep	th (ft)	4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
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	en 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.

Marley Williams.
Signature

10-18-2012 Date

Were core samples taken? Yes No_^_	Were cuttings caught	during drilling? YesNo_^
Were Electrical, Mechanical or Geophysical log	s recorded on this well? If yes, please list	t GR MWD from 5303'-11135' MD
NOTE: IN THE AREA BELOW PUT FRACTURING OR STIMULATING, PHYS DETAILED GEOLOGICAL RECORD O COAL ENCOUNTERED BY THE WELLB	SICAL CHANGE, ETC. 2). THE WEL F THE TOPS AND BOTTOMS OF	L LOG WHICH IS A SYSTEMATIC ALL FORMATIONS, INCLUDING
Perforated Intervals, Fracturing, or Stimulating:		
(See attached)		· · · · · · · · · · · · · · · · · · ·
Plug Back Details Including Plug Type and Dep	oth(s):	
Formations Encountered: Surface:	Top Depth /	Bottom Depth
See attached)		
· · · · · · · · · · · · · · · · · · ·		

PERFORATION RECORD ATTACHMENT

Weil Number and Name: 834171 John Harwatt BRK 8H

PERFO	RATION RE	CORD	STIMULATION RECOR							
	Interval P	erforated				F	luid	Proppi	ing Agent	Average
Date	From	То	Date	Interval	Treated	Туре	Amount	Туре	Amount	Injection
6/24/2012	10,509	11,048	7/13/2012	10,509	11,048	Slk wtr	12,813	Sand	626,260	80
7/13/2012	9,893	10,432	7/13/2012	9,893	10,432	Slk wtr	12,478	Sand	629,260	79
7/13/2012	9,278	9,816	7/14/2012	9,278	9,816	Sik wtr	12,560	Sand	625,500	78
7/14/2012	8,662	9,201	7/14/2012	8,662	9,201	Slk wtr	12,729	Sand	623,000	80
7/14/2012	8,046	8,585	7/15/2012	8,046	8,585	Slk wtr	12,766	Sand	622,460	80
7/15/2012	7,430	7,964	7/15/2012	7,430	7,964	Sik wtr	12,387	Sand	620,690	80
7/15/2012	6,815	7,349	7/18/2012	6,815	7,349	Slk wtr	12,418	Sand	625,500	80
7/18/2012	6,199	6,740	7/18/2012	6,199	6,740	Sik wtr	14,226	Sand	627,240	80
									<u> </u>	
			1							
						<u> </u>				
								1		
						<u> </u>	<u> </u>			
		<u> </u>								

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

Maximum TVD of wellbore: 5999 ft TVD @ 11190 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SS	0	0	318	318
PITTSBURG COAL	318	318	326	326
LS/SS	326	326	490	490
SH/SS	490	490	700	700
SS	700	700	1030	1030
SS/LS	1030	1030	1090	1090
SS	1090	1090	1360	1360
LS	1360	1360	1390	1390
SS/LS	1390	1390	1420	1420
SS/SH	1420	1420	1480	1480
BIG INJUN (SS)	1480	1480	1636	1636
SHALE	1636	1636	5810	5784
GENESEO (SH)	5810	5784	5828	5798
TULLY (LS)	5828	5798	5903	5853
HAMILTON (SH)	5903	5853	6112	5955
MARCELLUS (SH)	6112	5955		
TD OF LATERAL			11135	5998