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	
API#:	47-009-00119	

Farm name: John Harwatt BRK 8H	Operator Well No.: 834171					
LOCATION: Elevation: 1135'	Quadrangle: 247-Bethany					
	County: Brook 12 Min 35 Min	1. 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"	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'						
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 formations please include additional data on separate sheet) Producing formation Marcellus Pay zone depth (ft) 6,199'-11,048' Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d Final open flow 909* MCF/d Final open flow 122 Bbl/d Time of open flow between initial and final tests 37 Hours *Calculated Static rock Pressure 3,899* psig (surface pressure) after Hours						
Second producing formation Pay zor Gas: Initial open flow MCF/d Oil: Initial open fl Final open flow MCF/d Final open flow Time of open flow between initial and final tests Static rock Pressure psig (surface pressure) after	MONORANGE AND CA					

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

10-18-9012 Date

Were core samples taken? Ye	sNo_X	Were cutti	ngs caught during drill	ing? Yes	_No_X
Were Electrical, Mechanical or	Geophysical logs record	ed on this well? If yes	, please list GR MWD	from 5303'-	11135' MD
NOTE: IN THE AREA EFRACTURING OR STIMULI DETAILED GEOLOGICAL COAL ENCOUNTERED BY	LATING, PHYSICAL C RECORD OF THE	CHANGE, ETC. 2). T TOPS AND BOTT	THE WELL LOG WI OMS OF ALL FOR	HICH IS A SY	STEMATIC
Perforated Intervals, Fracturing,	or Stimulating:				
(See attached)					
	<u> </u>				
Plug Back Details Including Plu	a Type and Donth(s)				
Flug Back Details including Flu	g Type and Depth(s):				
Formations Encountered: Surface:		Top Depth		Bottom D	epth
Surface.					
(See attached)					
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PERFORATION RECORD ATTACHMENT

Well Number and Name: 834171 John Harwatt BRK 8H

PERFORATION RECORD		STIMULATION RECORD								
	Interval F	Perforated				F	luid	Propp	ing Agent	Average
Date	From	То	Date	Interval	Treated	Type	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	Slk 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	Slk 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	Slk wtr	14,226	Sand	627,240	80
									,	
		Tex.								



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

PGE (GEEVEE)

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