WR-35 Rev (9-11)

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

DATE:	08-09-2013	
API#:	47-009-00112	

CATION: Elevation: 1135'	Quadrangle:	Operator Well No.: 834170 Quadrangle: Bethany WV					
District: Buffalo	County: Broo	nke					
		n. ³⁰ Se					
		n. <u>00</u> Se					
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"	371'	371'	499.646 Cu. Ft			
Agent: Eric Gillespie	9 5/8"	1810'	1810'	814 Cu. Ft.			
Inspector: Bill Hendershot	5 1/2"	10030'	10030'	2408 Cu. Ft.			
Date Permit Issued: 11-21-2011							
Date Well Work Commenced: 2-21-2012							
Date Well Work Completed: 8-16-2012							
Verbal Plugging:							
Date Permission granted on:							
Rotary Cable Rig							
Total Vertical Depth (ft): 5980'							
Total Measured Depth (ft): 10039'							
Fresh Water Depth (ft.): 70', 300'							
Salt Water Depth (ft.): 1090'							
Is coal being mined in area (N/Y)? N							
Coal Depths (ft.): 319'							
Void(s) encountered (N/Y) Depth(s) N							
Gas: Initial open flowMCF/d Oil: Initial open Final open flow 1.189* MCF/d Final open flow between initial and final tests 4 Static rock Pressure 3.887* psig (surface pressure) Second producing formationPay	ay zone depth (ft) n flow E low 190 B 8	6,237-9,888' Bbl/d bl/d s s urs *Calculat	·	heet)			
Gas: Initial open flow MCF/d Oil: Initial open flow MCF/d Final open flow		BbI/d bI/d					
Final open flow MCF/d Final open f Time of open flow between initial and final tests							
Static rock Pressure psig (surface pressure)			_	ceive			

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.

Marlan Williams

5-12-2013
Office of Oil and Gas/13/2013
Date Dept. of Environmental Protection

Were core samples taken?	Yes	_No_X	We	ere cuttings caught	during drillin	g? Yes	No_X
Were Electrical, Mechanical							
NOTE: IN THE AREA FRACTURING OR STIM DETAILED GEOLOGIC COAL ENCOUNTERED	IULATING CAL REC	G, PHYSICAI ORD OF TH	C CHANGE, ET E TOPS AND	C. 2). THE WEL BOTTOMS OF	L LOG WHI ALL FORM	CH IS A SY	VSTEMATIC
Perforated Intervals, Fracturi	ing, or Stim	nulating:					
(See attached)		·			·		
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Plug Back Details Including	Plug Type	and Depth(s):					
Formations Encountered: Surface:			Top Depth	/		Bottom I	<u>Depth</u>
(See attached)							
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						Rec	eivec
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PERFORATION RECORD ATTACHMENT

Well Number and Name: 834170 John Harwatt BRK 3H

PERFO	PERFORATION RECORD					STIMULAT	ION RECOR	RD.		
ļ	Interval P	erforated				F	luid	Propping Agent		Average
Date	From	То	Date	Interval	Treated	Type	Amount	Туре	Amount	Injection
6/27/2012	9,352	9,898	7/12/2012	9,352	9,898	Sik wtr	12,633	Sand	630,240	80
7/12/2012	8,729	9,275	7/12/2012	8,729	9,275	Slk wtr	12,622	Sand	623,540	80
7/12/2012	8,106	8,652	7/16/2012	8,106	8,652	Slk wtr	12,716	Sand	629,800	80
7/16/2012	7,483	8,029	7/16/2012	7,483	8,029	Sik wtr	12,637	Sand	628,340	80
7/16/2012	6,860	7,406	7/17/2012	6,860	7,406	Sik wtr	12,488	Sand	623,760	80
7/17/2012	6,237	6,783	7/17/2012	6,237	6,783	Sik wtr	12,554	Sand	625,700	80
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Office of Oil and Gas WV Dept. of Environmental Englandin

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

Maximum TVD of wellbore: 5980 ft TVD @ 6774 ft MD

Formation/Lithology	Top Depth, MI (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SS	0	0	319	319
PITTSBURG COAL	319	319	327	327
LS/SS	327	327	760	760
SS	760	760	960	960
SS/SH	960	960	1090	1090
SS	1090	1090	1300	1300
LS	1300	1300	1330	1330
BIG INJUN (SS)	1330	1330	1630	1630
SHALE	1630	1630	5805	5779
GENESEO (SH)	5805	5779	5823	5794
TULLY (LS)	5823	5794	5896	5848
HAMILTON (SH)	5896	5848	6106	5947
MARCELLUS (SH)	6106	5947		
TD OF LATERAL			10039	5935

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