

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

DATE: 8-15-2012
API #: 47-009-00099

Farm name: Nick Ballato BRK 1H Operator Well No.: 637877

LOCATION: Elevation: 970' Quadrangle: Steubenville East

District: Cross Creek County: Brooke
Latitude: 6,580' Feet South of 40 Deg. 20 Min. 00 Sec.
Longitude 8,350' 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	20"	110'	110'	381 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	355'	355'	421 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	1400'	1400'	617 Cu. Ft.
Date Permit Issued: 6-16-2011	5 1/2"	10302'	10302'	2442 Cu. Ft.
Date Well Work Commenced: 10-1-2011				
Date Well Work Completed: 3-15-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 5502'				
Total Measured Depth (ft): 10302'				
Fresh Water Depth (ft.): 50', 80', 300'				
Salt Water Depth (ft.): 790'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 536'				
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) 5,913' - 10,162'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 1,467* MCF/d Final open flow 260 Bbl/d
Time of open flow between initial and final tests 64 Hours *Calculated
Static rock Pressure 3,550* psig (surface pressure) after _____ Hours

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.

Marklene Williams
Signature

8-16-2012
Date

01/11/2013

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 4953-10302' 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):

Formations Encountered:	Top Depth	/	Bottom Depth
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(See Attached)

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PERFORATION RECORD ATTACHMENT

Well Number and Name: 637877 Nick Ballato BRK 1H

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated		Fluid		Propping Agent		Average Injection
	From	To		Type	Amount	Type	Amount			
11/20/2011	9,754	10,162	3/6/2012	9,754	10,162	Sik wtr	10,233	Sand	574,860	80
3/6/2012	9,279	9,685	3/7/2012	9,279	9,685	Sik wtr	9,721	Sand	568,560	80
3/7/2012	8,803	9,210	3/8/2012	8,803	9,210	Sik wtr	9,937	Sand	575,000	80
3/8/2012	8,328	8,734	3/9/2012	8,328	8,734	Sik wtr	9,792	Sand	565,880	80
3/9/2012	7,852	8,259	3/9/2012	7,852	8,259	Sik wtr	12,012	Sand	569,600	77
3/10/2012	7,377	7,783	3/10/2012	7,377	7,783	Sik wtr	11,307	Sand	571,720	77
3/10/2012	6,901	7,308	3/11/2012	6,901	7,308	Sik wtr	9,642	Sand	571,900	80
3/11/2012	6,426	6,832	3/12/2012	6,426	6,832	Sik wtr	11,667	Sand	568,880	77
3/12/2012	5,913	6,357	3/15/2012	5,913	6,357	Sik wtr	29,893	Sand	683,740	75.5

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

Maximum TVD of wellbore: 5502 ft TVD @ 6271 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SH/LS/SS	0	0	536	536
PITTSBURG COAL	536	536	550	550
SS/SH	550	550	850	850
SS	850	850	958	958
BIG LIME (LS)	958	958	1076	1076
BIG INJUN (SS)	1076	1076	1244	1244
SHALE	1244	1244	5519	5320
GENESEO (SH)	5519	5320	5538	5334
TULLY (LS)	5538	5334	5623	5388
HAMILTON (SH)	5623	5388	5794	5459
MARCELLUS (SH)	5794	5459		
TD OF LATERAL			10302	5461

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 [Faint, illegible text and stamp]

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