

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

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

RECEIVED

LOCATION: Elevation: 970' Quadrangle: Steubenville East

AUG 17 2012

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.

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

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

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.

Madlene Williams
Signature

8-16-2012
Date

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):

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

(See Attached)

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