

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 3H Operator Well No.: 637878

LOCATION: Elevation: 970' Quadrangle: Steubenville East

RECEIVED

AUG 17 2012

District: Cross Creek County: Brooke
Latitude: 6,580' Feet South of 40 Deg. 20 Min. 00 Sec.
Longitude 8,330' 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.
<u>P.O. Box 18496</u>				
<u>Oklahoma City, OK 73154-0496</u>	<u>20"</u>	<u>114'</u>	<u>114'</u>	<u>Driven</u>
Agent: <u>Eric Gillespie</u>	<u>13 3/8"</u>	<u>381'</u>	<u>381'</u>	<u>465 Cu. Ft.</u>
Inspector: <u>Bill Hendershot</u>	<u>9 5/8"</u>	<u>1310'</u>	<u>1310'</u>	<u>583 Cu. Ft.</u>
Date Permit Issued: <u>6-16-2011</u>	<u>5 1/2"</u>	<u>9943'</u>	<u>9943'</u>	<u>2357 Cu. Ft.</u>
Date Well Work Commenced: <u>9-10-2011</u>				
Date Well Work Completed: <u>3-14-2012</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>5463' (cement plug @ 4750' - 5537')</u>				
Total Measured Depth (ft): <u>9943'</u>				
Fresh Water Depth (ft.): <u>50', 80', 300'</u>				
Salt Water Depth (ft.): <u>790'</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>536'</u>				
Void(s) encountered (N/Y) Depth(s) <u>N</u>				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 5,812' - 9,534'

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow 965* MCF/d Final open flow 174 Bbl/d

Time of open flow between initial and final tests 34 Hours

Static rock Pressure 3,551* 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.

Marlene 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 GR, neutron, density, and resistivity
open hole logs run from 0-5541' MD; LWD GR from 4833-9943' 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): cement plug @ 4750' - 5537'

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

(See Attached)

VERTICAL PILOT HOLE

Formation/Lithology	Top Depth, TVD/MD (ft)	Bottom Depth, TVD/MD (ft)
SH/LS/SS	0	536
PITTSBURG COAL	536	550
SS/SH	550	850
SS	850	958
BIG LIME (LS)	958	1076
BIG INJUN (SS)	1076	1244
SHALE	1244	5318
GENESEO (SH)	5318	5333
TULLY (LS)	5333	5385
HAMILTON (SH)	5385	5460
MARCELLUS (SH)	5460	5525
ONONDAGA (LS)	5525	
TD OF PILOT HOLE		5541

**LATERAL SIDETRACK
WELLBORE**

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	5358	5322
GENESEO (SH)	5358	5322	5376	5337
TULLY (LS)	5376	5337	5451	5389
HAMILTON (SH)	5451	5389	5604	5462
MARCELLUS (SH)	5604	5462		
TD OF LATERAL			9943	5463