

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

DATE: 1-31-2012
API #: 47-069-00061

Farm name: George Gantzer 8H Operator Well No.: 832294

LOCATION: Elevation: 1260' Quadrangle: Valley Grove WV

District: Tridelpia County: Ohio
Latitude: 4750' Feet South of 40 Deg. 05 Min. 00 Sec.
Longitude 13790' Feet West of 80 Deg. 35 Min. 00 Sec.

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>100'</u>	<u>100'</u>	<u>Driven</u>
Agent: <u>Eric Gillespie</u>	<u>13 3/8"</u>	<u>686'</u>	<u>686'</u>	<u>701 Cu. Ft.</u>
Inspector: <u>Bill Hendershot</u>	<u>9 5/8"</u>	<u>2000'</u>	<u>2000'</u>	<u>908 Cu. Ft.</u>
Date Permit Issued: <u>8/18/2010</u>	<u>5 1/2"</u>	<u>12675'</u>	<u>12675'</u>	<u>2473 Cu. Ft.</u>
Date Well Work Commenced: <u>1/16/2011</u>				
Date Well Work Completed: <u>6/5/2011</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>6,509'</u>				
Total Measured Depth (ft): <u>12,677'</u>				
Fresh Water Depth (ft.): <u>30'</u>				
Salt Water Depth (ft.): <u>1135'</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>575'</u>				
Void(s) encountered (N/Y) Depth(s) <u>Y 575'</u>				

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

Producing formation Marcellus Pay zone depth (ft) 6,528'-12,538'

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

Final open flow 3,439 MCF/d Final open flow 190 Bbl/d

Time of open flow between initial and final tests 24 Hours

Static rock Pressure 4,231 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.

Marlon Williams
Signature

7-19-2012
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 GR, neutron, density, and resistivity
open hole logs run from 0-6482' MD; LWD GR from 5552-12620' 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): Pilot Hole PBTD - Cement @ 5,506'

Lateral Wellbore PBTD - Cement @ 12,558.21'

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth
Surface: _____

(See Attached)

VERTICAL PILOT HOLE

Formation/Lithology	Top Depth, TVD/MD (ft)	Bottom Depth, TVD/MD (ft)
LS/SS	0	575
PITTSBURGH COAL	575	585
LS/SHALE	585	700
SS	700	1200
SHALE	1200	1290
SS	1290	1750
BIG LIME (LS)	1750	1800
BIG INJUN (SS)	1800	2011
SHALE	2011	6203
GENESEO (SH)	6203	6226
TULLY (LS)	6226	6256
HAMILTON (SH)	6256	6367
MARCELLUS (SH)	6367	6424
ONONDAGA (LS)	6424	
TD OF PILOT HOLE		6486

LATERAL SIDETRACK WELLBORE

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SS	0	0	575	575
PITTSBURGH COAL	575	575	585	585
LS/SHALE	585	585	700	700
SS	700	700	1200	1200
SHALE	1200	1200	1290	1290
SS	1290	1290	1750	1750
BIG LIME (LS)	1750	1750	1800	1800
BIG INJUN (SS)	1800	1800	2011	2011
SHALE	2011	2011	6251	6218
GENESEO (SH)	6251	6218	6266	6230
TULLY (LS)	6266	6230	6142	6125
HAMILTON (SH)	6142	6125	6519	6374
MARCELLUS (SH)	6519	6374		
TD of Lateral			12677	6509

VERTICAL PILOT HOLE

Formation/Lithology	Top Depth, TVD/MD (ft)	Bottom Depth, TVD/MD (ft)
LS/SS	0	575
PITTSBURGH COAL	575	585
LS/SHALE	585	700
SS	700	1200
SHALE	1200	1290
SS	1290	1750
BIG LIME (LS)	1750	1800
BIG INJUN (SS)	1800	2011
SHALE	2011	6203
GENESEO (SH)	6203	6226
TULLY (LS)	6226	6256
HAMILTON (SH)	6256	6367
MARCELLUS (SH)	6367	6424
ONONDAGA (LS)	6424	
TD OF PILOT HOLE		6486

**LATERAL SIDETRACK
WELLBORE**

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SS	0	0	575	575
PITTSBURGH COAL	575	575	585	585
LS/SHALE	585	585	700	700
SS	700	700	1200	1200
SHALE	1200	1200	1290	1290
SS	1290	1290	1750	1750
BIG LIME (LS)	1750	1750	1800	1800
BIG INJUN (SS)	1800	1800	2011	2011
SHALE	2011	2011	6251	6218
GENESEO (SH)	6251	6218	6266	6230
TULLY (LS)	6266	6230	6142	6125
HAMILTON (SH)	6142	6125	6519	6374
MARCELLUS (SH)	6519	6374		
TD of Lateral			12677	6509