

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

DATE: 3-12-2013  
API #: 47-009-00140

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Farm name: Gerald Gourley BRK 8H Operator Well No.: 834435 MAR 19 2013  
LOCATION: Elevation: 1,160' Quadrangle: Steubenville East, WV WV GEOLOGICAL SURVEY  
MORGANTOWN, WV

District: Cross Creek County: Brooke  
Latitude: 5,110' Feet South of 40 Deg. 20 Min. 00 Sec.  
Longitude 5,490' 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"	138'	138'	247 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	584'	584'	628 Cu. Ft.
Inspector: <b>Bill Hendershot</b>	9 5/8"	1,527'	1,527'	690 Cu. Ft.
Date Permit Issued: 8-8-2012	5 1/2"	11,054'	11,054'	1,072 Cu. Ft.
Date Well Work Commenced: 11-6-2012				
Date Well Work Completed: 11-20-2012(Rig release date)				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6,351'				
Total Measured Depth (ft): 11,054'				
Fresh Water Depth (ft.): 478'				
Salt Water Depth (ft.): 1190'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 704'				
Void(s) encountered (N/Y) Depth(s) Y 704'				

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

Producing formation Marcellus Pay zone depth (ft) <sup>(n/a not frac'd)</sup>  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow N/A\* MCF/d Final open flow \_\_\_\_\_ Bbl/d \*Scheduled to go to production 7-8-2013  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ 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

3-18-2013  
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 0-1064' MD; LWD GR from 5063-11054' 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.**

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Perforated Intervals, Fracturing, or Stimulating:

MAR 19 2013

Scheduled to frac on 5-3-2013

WV GEOLOGICAL SURVEY  
MORGANTOWN, WV

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 WELLBORE (no vertical pilot hole associated with this well)**

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**Maximum TVD of wellbore: 6351 ft TVD @ 10615 ft MD**

WV GEOLOGICAL SURVEY  
MORGANTOWN, WV

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS	0	0	704	704
PITTSBURG COAL (VOID)	704	704	708	708
SS	708	708	758	758
COAL	758	758	766	766
SS	766	766	1110	1110
BIG LIME	1110	1110	1220	1220
BIG INJUN (SS)	1220	1220	1343	1343
SHALE	1343	1343	5565	5505
GENESEO (SH)	5565	5505	5593	5522
TULLY (LS)	5593	5522	5686	5574
HAMILTON (SH)	5686	5574	5884	5652
MARCELLUS (SH)	5884	5652		
TD OF LATERAL			11054	5758