

WR-35  
Rev (8-10)

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

DATE: 11/15/11  
API #: 47-039-06116

Farm name: Brown, James F., III - Esquire Operator Well No.: 12438

LOCATION: Elevation: 1148 Quadrangle: Blue Creek

District: Big Sandy County: Kanawha  
Latitude: 3442 Feet South of 38 Deg. 27 Min. 30 Sec.  
Longitude 6627 Feet West of 81 Deg. 22 Min. 30 Sec.

Company:

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Columbia Gas Transmission, LLC 1700 MacCorkle Ave SE Charleston, WV 25325	16	33	30	none - sanded
Agent: <b>Paul Amick</b>	11-3/4	442	424	325
Inspector: <b>Terry Urban</b>	8-5/8	2455	2435	770
Date Permit Issued: <b>3/17/11</b>	5-1/2	5545	5531	200
Date Well Work Commenced: <b>3/22/11</b>	2-3/8	5536	5536	NA
Date Well Work Completed: <b>4/6/11</b>				
Verbal Plugging: <b>NA</b>				
Date Permission granted on:				
Rotary <b>X</b> Cable Rig <b>X</b>				
Total Vertical Depth (ft):				
Total Measured Depth (ft): <b>5675</b>				
Fresh Water Depth (ft.): <b>135</b>				
Salt Water Depth (ft.): <b>1273</b>				
Is coal being mined in area (N/Y)? <b>N</b>				
Coal Depths (ft.): <b>none</b>				
Void(s) encountered (N/Y) Depth(s) <b>N</b>				

**RECEIVED**  
Office of Oil & Gas  
NOV 15 2011

WV Department of  
Environmental Protection

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

Producing formation Oriskany Pay zone depth (ft) 5578-5610

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

Final open flow 370 MCF/d Final open flow NA Bbl/d

Time of open flow between initial and final tests NA Hours

Static rock Pressure 100 psig (surface pressure) after +72 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.

  
Signature

11/15/11  
Date

01/27/2012

Were core samples taken? Yes \_\_\_\_\_ No NA

Were cuttings caught during drilling? Yes \_\_\_\_\_ No NA

Were N/Y/N Electrical, N/Y/N Mechanical, N/Y/N or Geophysical logs recorded on this well?

**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:

Details of work performed to resolve annular gas leak at surface between 8-5/8" x 11-3/4" surface casing. Killed well. Pulled tubing. Set mechanical bridge plug inside 5-1/2" production casing. Removed wellhead. Backed off 8-5/8" casing at 120 ft and pulled - this is the same connection that had been backed off during repair work in 2009 - threads in bottom coupling imbedded with debris. Ran 120 ft of new 8-5/8" casing, washed pin threads on stub looking up, and re-attached. Installed wellhead. Pulled bridge plug. Re-ran tubing. Swabbed well to re-establish gas flow. Monitored 8-5/8" x 11-3/4" annulus for 6 months - gas leak ceased.

\* source of problem was a connection leak on 8-5/8" casing at a depth of 120 ft

Formations Encountered:	Top Depth	/	Bottom Depth
-------------------------	-----------	---	--------------

Surface:  
Not applicable - repair work to existing well.

**RECEIVED**  
Office of Oil & Gas

NOV 15 2011

WV Department of  
Environmental Protection

01/27/2012