

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

DATE: 09/26/12  
API #: 47-023-00034 *PPR*

Farm name: J. P. GEARY Operator Well No.: 1 ST

LOCATION: Elevation: 3,427' Quadrangle: GREENLAND GAP 7.5'

District: UNION County: GRANT  
Latitude: 39.19041 N Feet South of \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec.  
Longitude 79.24678 E Feet West of \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec.

Company: CARRIZO (MARCELLUS) WV LLC

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
500 DALLAS ST., SUITE 2300 HOUSTON, TX 77002	13-3/8"	360'	360'	SURFACE
Agent:	9-5/8"	3,286'	3,285'	SURFACE
Inspector:	5-1/2"	10,814'	10,814'	6,000'TOC
Date Permit Issued: 8/17/10	3-1/2" liner	9,129' -	9,129'-	148 cu ft
Date Well Work Commenced: 8/25/10		11,496'	11,496'	
Date Well Work Completed: rig release 9/23/10				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>	UDI #21			
Total Vertical Depth (ft): 11,496'				
Total Measured Depth (ft): 9,952'				
Fresh Water Depth (ft.): 100'				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? NO				
Coal Depths (ft.):				
Void(s) encountered (N/Y) Depth(s)				

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

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

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.

Carol A. Pruitt  
Signature

9/26/12  
Date

10/05/2012

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

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

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list MWD - GAMMA RAY

**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:

4/3/11 - 6/20/11: PERFORATED 9,947' - 11,414', FRAC'D W/ 739,300 LBS SAND

+ 18,680 BBLS FLUID + 30 BBLS 15% HCL ACID

NO PRODUCTION RECOVERED, WELL SHUT-IN, TEMPORARILY ABANDONED

Plug Back Details Including Plug Type and Depth(s): \* SEE NOTE BELOW

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
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MARCELLUS SHALE	9,938'		TD @ 11,496
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HORIZONTAL LATERAL DRILLED IN THE MARCELLUS SHALE FORMATION

\* NOTE: SPOT CEMENT PLUG 9,770'-10,627' W/ 89 SX (105 CU FT) CLASS A. CIBP SET @ 9,662' RUN & SET WHIPSTOCK. MILLED WINDOW IN 5-1/2" CASING @ 9,658' AND DRILLED HORIZONTAL LATERAL TO TD @ 11,496. SET 3-1/2" LINER 9,129' - 11,496' & CEMENTED W/ 108 SX CLASS A

10/05/2012