

sent to Dave Belcher or James Martin  
on 3/12/12 index

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: 3/12/12  
API #: 47-073-02523

Well name: \_\_\_\_\_ Operator Well No.: BW #4

LOCATION: Elevation: 640' Quadrangle: Raven Rock 7 1/2 minute

District: Washington County: Pleasants

Latitude: 55.26 Feet South of 50 Deg. 47 Min. 46 Sec.

Longitude 195.80 Feet West of 05 Deg. 25 Min. 01 Sec.

Company:

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
157 Lower Eureka Lane, Saint Marys, WV 26170	26"	20'	20'	CTS
Agent:	20"	140'	115'	CTS
Inspector: <b>Joe Taylor</b>	13 3/8"	550'	506'	CTS
Date Permit Issued: <b>8/13/10</b>	9 5/8"	1885'	1800'	CTS
Date Well Work Commenced: <b>9/6/11</b>	7"	5253'	5176'	733
Date Well Work Completed: <b>12/29/11</b>	4 1/2"	7500'	7457'	360
Verbal Plugging:	2 7/8"		6885'	
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): <b>7457</b>				
Total Measured Depth (ft): <b>7457</b>				
Fresh Water Depth (ft.): <b>100</b>				
Salt Water Depth (ft.): <b>200</b>				
Is coal being mined in area (N/Y)? <b>No</b>				
Coal Depths (ft.):				
Void(s) encountered (N/Y) Depth(s) <b>No</b>				

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

Producing formation Clinton Pay zone depth (ft) 7160

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 Medina Pay zone depth (ft) 7300

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

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Office of Oil and Gas  
WV Dept. of Environmental Protection

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.

Walter Stahl  
Signature

3/12/12  
Date

12/25/2015

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

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

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

**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:

Medina formation perforated from 7300'-7326' (104 shots)

Clinton formation perforated from 7160'-7240' (320 shots)

Fracture the Medina formation with Gel/Water/Sand, 105,000 gallons total displacement.

Fracture the Clinton formation with Gel/Water/Sand, 90,000 gallons total displacement.

Formations Encountered:                      Top Depth                      /                      Bottom Depth  
Surface:

Big Injun 1150'-1190'

Medina 7300'-7326'

Berea 1580'-1620'

Queenstone 7326'-7503'

Ohio Shale 1650'-1720'

Onandoga 5140'-5380'

Oriskany 5380'-5510'

Heklderberg 5510'-5860'

Salina 5860'-6320'

Port 6320'-6480'

Newburg 6480'-6730'

Rochester 6730'-6830'

Dayton 6830'-7010'

Packer Shell 7010'-7050'

Upper Cabot Head 7050'-7160'

Clinton 7160'-7240'

Lower Cabot Head 7240'-7300'

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