

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

DATE: 1/10/2015  
API #: 47-039-02160



Farm name: Bailey, Clay and Bailey Operator Well No.: Cassie Bailey #1

LOCATION: Elevation: 650.40 Quadrangle: Pocatalico

District: Union County: Kanawha  
Latitude: 14.167 Feet South of <sup>38</sup> Deg. 28 Min. 9.5 Sec.  
Longitude 11.229 Feet West of <sup>81</sup> Deg. 42 Min. 57.3 Sec.

Company: Viking Energy Corp.

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
8113 Sissonville Dr. Sissonville, WV 25320	13 3/8	84'	84'	45 sacks
Agent: Michael Pinkerton	8 5/8	1777	1777'	475 sacks
Inspector: Terry Urban	5 1/2	5327'	5327'	200 sacks
Date Permit Issued: 2/18/2014				
Date Well Work Commenced: <u>4/7/2014</u>				
Date Well Work Completed: <u>9/19/2014</u>				
Verbal Plugging: Bridge plug				
Date Permission granted on: 2/18/2014				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 5422'				
Total Measured Depth (ft): 5422'				
Fresh Water Depth (ft.): 140'				
Salt Water Depth (ft.): 1,600'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): N/A				
Void(s) encountered (N/Y) Depth(s) None				

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

Producing formation Oriskany Pay zone depth (ft) 5245-5295  
Gas: Initial open flow 40 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 40 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 24 Hours  
Static rock Pressure 110 psig (surface pressure) after 24 Hours

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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.

Michael Pinkerton  
Signature

1-10-15  
Date

03/27/2015

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 no

**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:

Perforated 20 shots 5245-5295

water used 589 bbl of cross link

Sand - 26'800 #'s pumped at 1-3 pound per gallon

Average pressure 4106

Average rate 21.9 barrels per min.

Acid 500 gal 15% HCl

Plug Back Details Including Plug Type and Depth(s): Bridge Plug set 5315'

Formations Encountered: \_\_\_\_\_ Top Depth 0 15422 Bottom Depth \_\_\_\_\_  
Surface: \_\_\_\_\_

SAND CLAY SHALE	0/55	SHALE	1777-2111
SAND	55-83	SHALE & LIME	2111-2451
SAND SHALE	83-128	SHALE	2451-4572
SHALE SAND	128-469	LIME	4572-4950
SHALEY SAND	469-528	LIME & DOLOMITE	4950-5145
SHALE	528-540	LIME & ORISKANY	5145-5315
SAND & SHALE	540-1016	LIME & SHALE	5315-5345
SHALE & SAND	1016-1053	LIME & NEWBURG	5345-5416
SAND	1053-1462	SAND	5416-5422
SHALEY SAND	1462-1475		
SAND	1475-1512		
SHALEY SAND	1512-1553		
LIME	1553-1625		
SHALE	1625-1679		
SAND & SHALE	1679-1777		

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