

WR-35  
Rev (9-11)

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

DATE: 12/07/2012  
API #: 47-033-05555

Farm name: Hudkins, R.D. Operator Well No.: Hudkins 2HM

LOCATION: Elevation: 1174' GL Quadrangle: Mount Clare 7.5'

District: Grant County: Harrison  
Latitude: 2.840 Feet South of 39 Deg. 12 Min. 30 Sec.  
Longitude 5.127 Feet West of 80 Deg. 20 Min. 00 Sec.

Company: Petroleum Development Corporation

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>120 Genesis Boulevard Bridgeport, WV 26330</u>	<u>20"</u>	<u>27'</u>	<u>27'</u>	<u>Grout to Surface</u>
Agent: <u>Bob Williamson</u>	<u>13 3/8"</u>	<u>462'</u>	<u>462'</u>	<u>466</u>
Inspector: <u>Tristan Jenkins</u>	<u>9 5/8"</u>	<u>2686'</u>	<u>2686'</u>	<u>1135</u>
Date Permit Issued: <u>06/15/2011</u>	<u>5 1/2"</u>	<u>11,856'</u>	<u>11,856'</u>	<u>3154</u>
Date Well Work Commenced: <u>06/29/2011</u>				
Date Well Work Completed: <u>10/09/2012</u>				
Verbal Plugging: <u>N/A</u>				
Date Permission granted on: <u>-----</u>				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>7224'</u>				
Total Measured Depth (ft): <u>11,893'</u>				
Fresh Water Depth (ft.): <u>17', 142'</u>				
Salt Water Depth (ft.): <u>1410'</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>None Reported</u>				
Void(s) encountered (N/Y) Depth(s) <u>None</u>				

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

Producing formation Marcellus Shale Pay zone depth (ft) 7221'  
Gas: Initial open flow N/A MCF/d Oil: Initial open flow --- Bbl/d  
Final open flow 3554 MCF/d Final open flow --- Bbl/d  
Time of open flow between initial and final tests 720 Hours  
Static rock Pressure 1200 psig (surface pressure) after 72 Hours

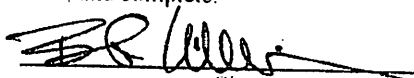
Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

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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

12/07/2012  
Date

03/01/2013

33.05555

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 Sonic Scanner/CBL/GR/CCL from 11,800'-5450'  
OH Mud Log from 5950'- 11,893'. Baker Directional GR from 2705' - 11,893'

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 interval 7,805 ft - 11,785 ft (480 shots) fraced 12 stages using 285 bbls 15% HCl and 105,400 bbls of slickwater carrying 992,500 lbs of 100-mesh sand, 3,764,400 lbs of 40/70 sand, and 20,200 lbs of 30/50 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface: Top Depth / Bottom Depth

Little Lime	1476	1503	(All depths TVD except MD-TD)
Big Lime	1520	1698	Show Oil, Gas & Water @ 1573'
Gantz	1982	2013	
Fifty Foot	2050	2101	
Gordon Stray	2149	2171	
4th SS	2280	2342	
5th Sand	2356	2383	
Bayard	2468	2489	
Benson	4459	4505	

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\*\*All Depths shown above are from the pilot hole log well# 47-033-05556 located on the same 3 well pad.

Sycamore	6381	6426	
Tully LS	6968	7048	
Marcellus Shale	7162	11,893	MD-TD

03/01/2013