

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 #: 47-033-05534

Farm name: Hudkins, R.D. Operator Well No.: Hudkins 1HM

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

District: Grant County: Harrison
Latitude: 2.854 Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 5.132 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</u> <u>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>2709'</u>	<u>2709'</u>	<u>1109</u>
Date Permit Issued: <u>05/12/2011</u>	<u>5 1/2"</u>	<u>13,830'</u>	<u>13,830'</u>	<u>3686</u>
Date Well Work Commenced: <u>07/07/2011</u>				
Date Well Work Completed: <u>10/08/2012</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>7223'</u>				
Total Measured Depth (ft): <u>13,853'</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>				

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

Producing formation Marcellus Shale Pay zone depth (ft) 7224'
Gas: Initial open flow N/A MCF/d Oil: Initial open flow -- Bbl/d
Final open flow 4,828 MCF/d Final open flow 720 Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 1500 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

01/28/2013
Date

02/15/2013

Were core samples taken? Yes _____ No XX

Were cuttings caught during drilling? Yes XX No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list SLB open hole LWD Ecoscope Image/GR/Dens/Neutron gr from 7,190'-13,853'; OH Mud Log from 6400'- 13,853'. Pathfinder Directional GR from 2705' - 13,853'. SLB Sonic Scanner/CBL/GR/CCL CH log from 13,748' - 5400'.

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 8,241 ft – 13,760 ft (640 shots). Frac'd 16 stages using 380 bbls 15% HCL, and 148,000 bbls of Slickwater carrying 1,323,000 lbs of 100-mesh sand, 5,151,800 lbs of 40/70 sand, and 45,300 lbs of 30/50 sand.

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

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth _____
Surface: _____

Formations Encountered:	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	RECEIVED Office of Oil & Gas
Fifty Foot	2050	2101	
Gordon Stray	2149	2171	JAN 29 2013
4th SS	2280	2342	
5th Sand	2356	2383	WV Department of Environmental Protection
Bayard	2468	2489	
Benson	4459	4505	

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

Sycamore	6384	6432	
Tully LS	6970	7052	
Marcellus Shale	7161	13,853	MD-TD

02/15/2013