

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: 10/16/2012
API #: 47-033-05137

Farm name: Carl F. Martin Operator Well No.: Martin 2

LOCATION: Elevation: 1003' GL / 1011' KB Quadrangle: Wolf Summit 7.5

District: Ten Mile County: Harrison
Latitude: 14.800 Feet South of 39 Deg. 22 Min. 30 Sec.
Longitude 8.100 Feet West of 80 Deg. 27 Min. 30 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>13 3/8"</u>	<u>39</u>	<u>39</u>	<u>Sanded In</u>
Agent: <u>Bob Williamson</u>	<u>9 5/8"</u>	<u>254</u>	<u>254</u>	<u>100</u>
Inspector: <u>Tim Bennett</u>	<u>7"</u>	<u>1440</u>	<u>1440</u>	<u>292</u>
Date Permit Issued: <u>8/27/2008</u>	<u>4 1/2"</u>	<u>4913'</u>	<u>4913'</u>	<u>444</u>
Date Well Work Commenced: <u>10/18/2008</u>				
Date Well Work Completed: <u>11/05/2008</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>5101'</u>				
Total Measured Depth (ft): <u>5101'</u>				
Fresh Water Depth (ft.): <u>45'</u>				
Salt Water Depth (ft.): <u>1375'</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>N</u>				

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

Producing formation Benson (co-mingled) Pay zone depth (ft) 4844
Gas: Initial open flow 839 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 68 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 335 psig (surface pressure) after 72 Hours

Second producing formation 5th, 4th, Gordon Pay zone depth (ft) 2520, 2492, 2410
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

10/16/2012
Date

10/19/2012

Were core samples taken? Yes _____ No XX

Were cuttings caught during drilling? Yes _____ No XX

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Weatherford Photo Density/Comp Neutron/ Array Induction from 5101-1420. Superior GR/CL/CBL from 4886 - 1430.

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:

11-5-2008: MIRU BJ Services and Superior:Ran Bond/CCL log found TD @ 4886'. CT @ 1572'.Perforated the BENSON formation:12 (4844-50).

Formation broke at 4200#.Gel frac formation. Start 71 bbl pad, 225 bbls treating fluid, 30,000 lbs of 30/50 Sand, 97 bbl of flush. Stage sand at 1# ppg increments from 1# - 4# ppg. MTP - 4200 psi. ATP - 2389 psi.

Shut down, ISIP - 2147 psi, 5 min SIP - 2022 psi.Perforated the formation: 8 (2857-81), 4 (2643-46), 4(2624-28). Formation broke at 2737#. Pumped 5 bbl of Acid away.

Perforated the formation: 12 (2600-06). Formation broke at 2673#. Pumped remaining 7 bbls of acid away into formation. Perforated the 5TH SAND formation: 8 (2523-27).

Gel frac formations. Start 91 bbl pad, 277 bbls treating fluid, 50,000 lbs of 30/50 Sand. Stage sand at 1# ppg increments from 1# - 4# ppg. Spot acid and ballout formation. Start 58 bbl pad, 148 bbls treating fluid, 15,000 lbs of 20/50 Sand. 44 bbl of total flush

Stage sand at 1# ppg increments from 1# - 4# ppg. Entire interval: MTP - 3170 psi, ATP - 2717 psi. Shut down, ISIP - 2608 psi, 5 min SIP - 2266 psi.

Plug Back Details Including Plug Type and Depth(s): Perforated the 4TH/GORDON formations: 4 (2492-94), 12 (2410-16). Formation broke at 3650#.

Gel frac formation. Start 83 bbl pad, 398 bbls treating fluid, 50,000 lbs of 30/50 Sand, 39 bbls of flush. Stage sand at 0.5# ppg increments from 1# - 4# ppg. MTP - 3650 psi. ATP - 2833 psi. Shut down, ISIP - 2499 psi. 5 min SIP - 2196 psi.

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

Big Lime	1796	1851
Big Injun	1851	1952
Gantz	2284	2320
Fifty Foot	2394	2442
Gordon	2488	2527
4th SS	2560	2614
5th SS	2620	2661
Speechley	2900	3160
Balltown	3186	3490
Bradford	3500	3620
Riley	4350	4760
Benson	4840	4882
TD	5101	