

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 #: 47-033-05138

Farm name: Fahey, William F. Operator Well No.: Fahey 4

LOCATION: Elevation: 1324' GL / Quadrangle: Wolf Summit 7.5

District: Tenmile County: Harrison
Latitude: 11,110 Feet South of 39 Deg. 22 Min. 30 Sec.
Longitude 11,210 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 Bridgeport, WV 26330</u>	<u>13 3/8"</u>	<u>19'</u>	<u>19'</u>	<u>Sanded In</u>
Agent: <u>Bob Williamson</u>	<u>9 5/8"</u>	<u>253'</u>	<u>253'</u>	<u>102</u>
Inspector: <u>Tim Bennett</u>	<u>7"</u>	<u>1741'</u>	<u>1741'</u>	<u>354</u>
Date Permit Issued: <u>08/27/2008</u>	<u>4 1/2"</u>	<u>5340'</u>	<u>5340'</u>	<u>481</u>
Date Well Work Commenced: <u>10/24/2008</u>				
Date Well Work Completed: <u>11/17/2008</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>5485'</u>				
Total Measured Depth (ft): <u>5485'</u>				
Fresh Water Depth (ft.): <u>45', 115'</u>				
Salt Water Depth (ft.): <u>1650'</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>395'</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 Banson Pay zone depth (ft) _____
Gas: Initial open flow NT MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 888 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 990 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

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 5482-1720. Superior GR/CL/CBL from 5330 - 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:

11/12/2008: MIRU BJ Serv. & Superior Wireline, ran GR/CCL/CBL from 5330'. Perf Benson w/12 holes from 5233'-5242'. RU BJ Services, test lines, & pump an N2 assist Lightning 1400 gel system. Formation broke at 2240#. Start 65 bbl pad, 257 bbls treating fluid, 35,000 lbs of 30/50 Sand, 87 bbl of flush.
Stage sand at 1# ppg increments from 1# - 4# ppg. MTP - 2932 psi, ATP - 2586 psi. Shut down, ISIP - 2405 psi, 5 min SIP - 2027 psi. 2nd stage: Perforated the 5th Sand formation: 12 (3040-46). Was going in for second run on the formation and lost gun in hole. Could not go back in with live gun in hole.
RDMO. 11/13/2008: MIRU Arvilla R# 1399, RU 3 3/8" bit & drill baffle at 2854 & baffle at 3150' & clean out sand & gun to 5260'.
11/17/2008: Swab & clean hole & take final OF = 888MCF. SI & TIL on 12/30/2008
Plug Back Details Including Plug Type and Depth(s): N/A

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>/</u>	<u>Bottom Depth</u>
<u>Surface:</u>			
Little Lime	2166		2182
Big Lime	2202		2256
Keener	2256		2300
Big Injun	2305		2352
Gantz	2688		2727
Fifty Foot	2782		2840
Gordon Stray	2917		2928
4th SS	2952		3004
5th SS	3018		3061
Speechley	3528		3950
Balltown	3996		4244
Bradford	4327		4473
Riley	4768		5130
Benson	5230		5273
TD	5485		5485