

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: 02/05/2013
API #: 47-033-05140

Farm name: Fahey, William F. Operator Well No.: Fahey 6

LOCATION: Elevation: 1402' GL Quadrangle: Wolf Summit 7.5

District: Tenmile County: Harrison
Latitude: 12,010 Feet South of 39 Deg. 22 Min. 30 Sec.
Longitude 8,490 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>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>100</u>
Inspector: <u>Tristan Jenkins</u>	<u>7"</u>	<u>1822'</u>	<u>1822'</u>	<u>375</u>
Date Permit Issued: <u>08/27/2008</u>	<u>4 1/2"</u>	<u>5354'</u>	<u>5354'</u>	<u>460</u>
Date Well Work Commenced: <u>11/05/2008</u>				
Date Well Work Completed: <u>11/20/2008</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>5610'</u>				
Total Measured Depth (ft): <u>5610'</u>				
Fresh Water Depth (ft.): <u>45', 115'</u>				
Salt Water Depth (ft.): <u>1883'</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>575'</u>				
Void(s) encountered (N/Y) Depth(s) <u>N</u>				

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

Producing formation Benson, 5th & 4th Sands Pay zone depth (ft) 5254,3009

Gas: Initial open flow 147 MCF/d Oil: Initial open flow Show Bbl/d

Final open flow 291 MCF/d Final open flow Show Bbl/d

Time of open flow between initial and final tests 6 Hours

Static rock Pressure 560 psig (surface pressure) after 744 Hours

Second producing formation Gordon (commingled) Pay zone depth (ft) 2935

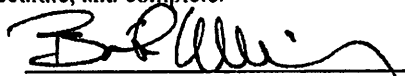
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

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

02/07/2013
Date

03/08/2013

Were core samples taken? Yes _____ No XXWere cuttings caught during drilling? Yes _____ No XXWere Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Weatherford Photo Density/Comp Neutron/Array Induction from 5610-1700. Superior GR/CCL/CBL /VDL from 5306 - 1660.

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:

11/20/2008:MIRU BJ Serv. & Superior Wireline, ran GR/CCL/CBL from 5306'. Perf Benson w/4 holes from 5254'-56' & 9 holes from 5259-62'. RU BJ, test lines, & pump an N2 assist Lightning gel system. Formation broke at 3086#. Start 80 bbl pad, 473 bbls treating fluid, 35,000 lbs of 30/50 Sand, 42 bbl of flush.

Stage sand at 1# ppg increments from 1# - 4# ppg. MTP – 3086 psi, ATP – 2605 psi. Shut down, ISIP – 2033 psi. 2nd stage:

Perforated the 5th/4th Sand formation: 5 holes from 3009-12, 5 holes from 3015-18, 10 holes from 3065-70. Pumped an N2 assist Lightning gel system. Formation broke at 3061#.

Start 74 bbl pad, 407 bbls treating fluid, 50,100 lbs of 30/50 Sand, 49 bbl of flush. Stage sand at 1# ppg increments from 1# - 4# ppg.

MTP – 3061 psi, ATP – 2777 psi. Shut down, ISIP – 2142 psi. Perf Gordon w/8 holes from 2935'-39'. Pumped an N2 assist Lightning

Plug Back Details Including Plug Type and Depth(s): gel system. Formation broke at 3063#. Start 55 bbl pad, 279 bbls treating fluid,

25,000 lbs of 30/50 Sand, 47 bbl of flush. Stage sand at 1# ppg increments from 1# - 4# ppg. MTP – 3287psi, ATP – 3063 psi. Shut down, ISIP – 2609 psi.

<u>Formations Encountered:</u> <u>Surface:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
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Maxton	2162	2193	
Big Lime	2222	2264	
Keener	2268	2313	
Big Injun	2316	2360	
Gantz	2694	2739	
Fifty Foot	2810	2846	
Gordon Stray	2922	2943	
4th SS	2985	3021	Show Gas
5th SS	3036	3077	Show Gas
Speechley	3510	3940	
Balltown	4044	4248	
Bradford	4320	4478	
Riley	4779	5145	
Benson	5251	5294	Show Gas
TD	5610		