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- <del>033-05009</del>
,	22.05099

District: Simpson  Latitude: 7,510 Feet South of 39 Deg.  Longitude 3,810 Feet West of 80 Deg.  Company: Petroleum Development Corporation  Address: 120 Genesis Boulevard  Bridgeport, WV 26330  Agent: Bob Williamson	17 Min.	30 Sec. Used in drilling		Cement fill
Latitude: 7,510 Feet South of 39 Deg. Longitude 3,810 Feet West of 80 Deg.  Company: Petroleum Development Corporation  Address: 120 Genesis Boulevard  Bridgeport, WV 26330	17 Min. 12 Min. Casing & Tubing	30 Sec. Used in drilling		
Longitude 3,810 Feet West of 80 Deg.  Company: Petroleum Development Corporation  Address: 120 Genesis Boulevard  Bridgeport, WV 26330	Casing & Tubing	Used in drilling		
Address: 120 Genesis Boulevard  Bridgeport, WV 26330	Tubing	drilling	Left in well	
Address: 120 Genesis Boulevard  Bridgeport, WV 26330	Tubing	drilling	Left in well	
Bridgeport, WV 26330	Tubing	drilling	Left in well	
Bridgeport, WV 26330				List Cir Et
D 1 11/11/	13 3/0	61'	61'	up Cu. Ft. Sanded I
Agent: Bob Williamson	7"		892'	215
		892'		
Inspector: Tim Bennett	4 1/2"	4246'	4246'	376
Date Permit Issued: 05/28/2008				<b>↓</b>
Date Well Work Commenced: 09/10/2008				1
Date Well Work Completed: 09/24/2008				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 4298'				
Total Measured Depth (ft): 4298'				
Fresh Water Depth (ft.): 30', 150'				
Salt Water Depth (ft.): None Reported				
Is coal being mined in area (N/Y)? N	·			
Coal Depths (ft.): None Reported		-		
Void(s) encountered (N/Y) Depth(s) N		1	l,	_1

l 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

Were core samples taken? YesNo_X	Were o	cuttings caught during dri	lling? Yes	No_XX					
Were Electrical, Mechanical or Geophysical lo Comp. Neutron from 4298' - 886'. Superior Wireline GR/CCL/CI	ogs recorded on this well? If 3L from 4252' - 1050'.	yes, please list Weatherf	ord Photo Dens/Ar	ray Induc/					
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	<b>3:</b>								
09/24/2008: MIRU BJ Serv. & Superior Wireline, ran GR/CCL/CBL from 4252' - 1050' w/cmt top @ 1246'. Perf Benson w/15 holes from 4082'-4102'.									
RU BJ & Gel frac formation w/ Lightning 1400 system. Start 104 bbl pad, 338 bbls treating fluid, 40,000 lbsof 30/50 Sand, 65 bbl of flush. Stage sand at									
1# ppg increments from 1# - 4# ppg. N2 - 143,900	scf. MTP - 2900 psi, ATP - 2	632 psi. Shut down, ISIP -	- 2023 psi, 5 min SIP	– 1722 psi.					
Perforated the BALLTOWN formation: 12 (2804-10). For	ormation broke at 2188#. Gel frac	formation. Start 106 bbl pad	, 267 bbis treating fluid	1, 35,000 lbs					
of 30/50 Sand, 45 bbl of flush. Stage sand at 1# ppg increments from 1# - 4# ppg. N2 - 129,660 scf. MTP - 2023 psi, ATP - 1936 psi.									
Shut down, ISIP – 1401 psi, 5 min SIP – 1276 psi, 10 min SIP – 1228 psi. RDMO. Plug Back Details Including Plug Type and Depth(s): N/A									
- The Date of the December of	-Pin(s): N/A	· · · · · · · · · · · · · · · · · · ·							
Formations Encountered: Surface:	Top Depth	1:	Bottom Dep	oth.					
Little Lime	1051	1066							
Big Lime	1103	1160							
Keener	1160	1198							
Big Injun	1198	1256	Show Gas						
Gantz	1596	1609							
Fifty Foot	1622	1678							
Gordon Stray	1759	1788							
4th SS	1980	2058		· · · · · · · · · · · · · · · · · · ·					
5th SS	2110	2159							
Speechley	2490	2839							
Balltown	2924	3370	Show Ga	s					
Bradford	3374	3538							
Riley	3840	4000							
Benson	4080	4138	Show Ga	S					
TD	4298			5.4					