

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 #: 47-033-05564

Farm name: A&B Management, LLC Operator Well No.: D'Annunzio 2HM

LOCATION: Elevation: 1110' GL Quadrangle: Clarksburg 7.5'

District: Clark County: Harrison  
Latitude: 13.453 Feet South of 39 Deg. 17 Min. 30 Sec.  
Longitude 757 Feet West of 80 Deg. 20 Min. 00 Sec.

Company: PDC Mountaineer, LLC

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
120 Genesis Boulevard Bridgeport, WV 26330	30"	65'	65'	Cement to Surf
Agent: <u>Bob Williamson</u>	13 3/8"	553'	553'	820
Inspector: <u>Sam Ward</u>	9 5/8"	2705'	2705'	1246
Date Permit Issued: <u>09/09/2011</u>	5 1/2"	13,605'	13,605'	2977
Date Well Work Commenced: <u>02/23/2013</u>				
Date Well Work Completed: <u>06/29/2013</u>	2 7/8"	-----	7,564'	-----
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>7,282'</u>				
Total Measured Depth (ft): <u>13,614'</u>				
Fresh Water Depth (ft.): <u>128', 195', 264'</u>				
Salt Water Depth (ft.): <u>840'</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>360', 775'</u>				
Void(s) encountered (N/Y) Depth(s)				

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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) 7245' TVD  
Gas: Initial open flow 7,480 MCF/d Oil: Initial open flow ----- Bbl/d  
Final open flow 3,480 MCF/d Final open flow ----- Bbl/d  
Time of open flow between initial and final tests 640 Hours  
Static rock Pressure 1020 psig (surface pressure) after 72 Hours

Second producing formation N/A 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

0/24/2013  
Date

11/22/2013

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 Vaughn Energy GR/Gyro from 5067' - Surf.  
PathFinder GR/TVD/MD log from 5500'-TD.

**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 7,594 ft – 13,480 ft (950 shots). Frac'd 19 stages using 450 bbls 15% HCL and 159,300 bbls of Slickwater carrying 1,535,600 lbs of 100-mesh sand and 6,423,500 lbs of 40/70 sand.

Plug Back Details Including Plug Type and Depth(s): Original bore hole plugged back & side tracked. Set 2 plugs from 7614'-7914' & 7125'-6500'.  
1st plug was 126 sx. 2nd plug was 285 sx (yld at 1.18). Top plug did not set, set a 3rd plug from 6739'-6100' w/327 sx Class H at 1.17 yld. Plug held for Kick-off.

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
Little Lime	1490		1510
Big Lime	1530		1600
Big Injun	1600		1710
Gantz	2040		2062
50 Foot	2080		2130
30 Foot	2130		2160
Gordon Stray	2168		2180
4th Sand	2430		2491
5th Sand	2520		2570
Benson	4358		4398
Sycamore	6426		6492
Geneseo	6955		6972
Tully	6972		7028
Marcellus	7150		13,614
All depths are TVD except TD.			

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