

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas  
Well Operator's Report of Well Work

DATE: June 23, 2011  
API #: 47-103-02552

Farm name: Wheeling Jesuit University Operator Well No.: Lantz-Mills Unit 2 #2H

LOCATION: Elevation: 764' Quadrangle: Pine Grove

District: Grant County: Wetzel  
Latitude: 6780 Feet South of 39 Deg. 32 Min. 30 Sec.  
Longitude 6490 Feet West of 80 Deg. 37 Min. 30 Sec.

Company: Stone Energy Corporation

Address: 6000 Hampton Center, Suite B Morgantown, WV 26505	Casing & Tubing 20"	Used in drilling 24'	Left in well 24'	Cement fill up Cu. Ft. Sanded In
Agent: <b>Richard Toothman</b>	13-3/8"	628'	628'	684
Inspector: <b>David Scranage/ Derek Haught</b>	9-5/8"	2185'	2185'	858
Date Permit Issued: <b>02/26/2010</b>	5-1/2"		11752'	2802
Date Well Work Commenced: <b>04/05/2010</b>				
Date Well Work Completed: <b>06/05/2011</b>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable Rig				
Total Vertical Depth (ft): <b>6865</b>				
Total Measured Depth (ft): <b>11755</b>				
Fresh Water Depth (ft.): <b>20</b>				
Salt Water Depth (ft.): <b>1320</b>				
Is coal being mined in area (N/Y)? <b>No</b>				
Coal Depths (ft.): <b>490</b>				
Void(s) encountered (N/Y) Depth(s) <b>None</b>				

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

Producing formation Marcellus Shale Pay zone depth (ft) 7166 to 11667

Gas: Initial open flow 501 MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 2945 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 566 Hours

Static rock Pressure 3200 psig (surface pressure) after 8 Hours

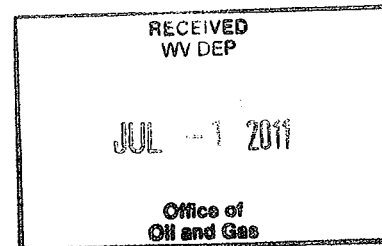
Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_

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.

W. A. Toothman  
Signature

6/22/2011  
Date

Were core samples taken? Yes \_\_\_\_\_ No X

Were cuttings caught during drilling? Yes X No \_\_\_\_\_

Were Y Electrical, N Mechanical, Y or Geophysical logs recorded on this well?  
Y/N Y/N Y/N

**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 from 7,166' MD to 11,667' MD.

Performed an 11 stage slick water frac.

Injected 24,282 gal of 15% HCl, 4,565,448 gal of water, 572,740 lbs of 80/100 Mesh sand, and 3,526,220 lbs of 40/70 Mesh sand.

Average injection rate was 81.8 BPM.

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
<u>Surface:</u>		

\*\* NOTE: See Attached Sheet for Formation Depths

Stone Energy Corporation  
Lantz-Mills Unit 2 #2H (API # 47-103-02552)  
WR-35 Well Operator's Report of Well Work  
Formations Encountered

	Top		Bottom	
	TVD (ft)	MD (ft)	TVD (ft)	MD (ft)
Sandstone and shale	0 *		490	
Pittsburgh coal	490 *		494	
Sandstone and shale	494 *		1685	
Little Lime	1685 *		1705	
Limestone	1705		1715	
Big Lime	1715 *		1860	
Big Injun sandstone	1860 *		1944	
Shale	1944 *		2135	
Weir sandstone	2135 *		2137	
Shale	2137 *		2346	
Berea sandstone	2346 *		2366	
Shale	2366 *		2550	
Gordon sandstone	2550 *		2650	
Shale	2650 *		4853	
Riley shale	4853 *		4908	
Shale	4908 *		4960	
Benson siltstone	4960 *		4690	
Shale	4990 *		5208	
Pipe Creek shale	5208 *		5211	
Shale	5211 *		5217	
Lower Alexander shale	5217 *		5329	
Shale	5329 *		6140	
Rhinestreet shale	6150	6156	6395	6417
Cashaqua shale	6395	6417	6566	6631
Middlesex shale	6566	6631	6580	6651
West River shale	6580	6651	6655	6768
Geneseo shale	6655	6768	6696	6841
Tully limestone	6696	6841	6758	6992
Hamilton shale	6758	6992	6790	7125
Marcellus shale	6790	7125	6865	11755
TD	6865	11755		

\* Formation elevations estimated from pilot hole.