

Farm name: WV Conservation Commission Operator Well No.: Mills Wetzel #1H

LOCATION: Elevation: 1,331' Quadrangle: Pine Grove

District: Grant County: Wetzel  
Latitude: 5,230 Feet South of 39 Deg. 32 Min. 30 Sec.  
Longitude 930 Feet West of 80 Deg. 40 Min. 00 Sec.

Company: Stone Energy Corporation

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
6000 Hampton Center, Suite B Morgantown, WV 26505	20"	42'	42'	Sanded In
Agent: <u>Tim McGregor</u>	13-3/8"	1,232'	1,232'	1,286
Inspector: <u>Dave Scranage</u>	9-5/8"	2,762'	2,762'	1,080
Date Permit Issued: <u>5/12/2010</u>	5-1/2"		11,098'	2,710
Date Well Work Commenced: <u>8/17/2010</u>	2-3/8"		7,760'	
Date Well Work Completed: <u>1/19/2011</u>				
Verbal Plugging:	Well drilled to a TD of 7,346' for logging and			
Date Permission granted on:	plugged back to 6,130' with 498 Cu. Ft.			
Rotary <input checked="" type="checkbox"/> Cable Rig	Class H cement prior to drilling horizontal			
Total Vertical Depth (ft): <u>7,266</u>				
Total Measured Depth (ft): <u>11,112</u>				
Fresh Water Depth (ft.): <u>114</u>				
Salt Water Depth (ft.): <u>1,568</u>				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>1,085</u>				
Void(s) encountered (N/Y) Depth(s) <u>None</u>				

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

Producing formation Marcellus Pay zone depth (ft) 7530' - 10990'

Gas: Initial open flow 400 MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 2,310 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 47 Hours

Static rock Pressure 2,585 psig (surface pressure) after 55 Hours

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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

WV Department of  
Environmental Protection

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. G. [Signature]  
Signature

01/20/2012  
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:

Total perforated interval is from 7,530' to 10,990'.

Performed 9 stage slick water frac injecting; 18,400 gal 15% HCl, 4,234,316 gal fresh water, 786,369 lbs 80/100 Mesh Sand, and 3,204,852 lbs 40/70 Mesh Sand.

Average injection rate was 78.1 BPM

Formations Encountered:	Top Depth	Bottom Depth
Surface:		

Formations encountered are located on a separate page.

Stone Energy Corporation  
Mills-Wetzel #1H (API # 47-103-02558)  
WR-35 Well Operator's Report of Well Work  
Pilot Hole Formations Encountered

Formations	Top TVD (ft)	Bottom TVD (ft)
Sandstone and shale	0 *	1085
Pittsburgh coal	1085 *	1089
Sandstone and shale	1089 *	2253
Little Lime	2253 *	2301
Big Lime	2301 *	2503
Big Injun sandstone	2503 *	2560
Shale	2560 *	2713
Weir sandstone	2713 *	2766
Shale	2766 *	2897
Berea sandstone	2897 *	2950
Shale	2950 *	3128
Gordon Stray	3128 *	3199
Shale	3199 *	5418
Riley shale	5418 *	5492
Shale	5492 *	5520
Benson siltstone	5520 *	5550
Shale	5550 *	5753
Pipe Creek shale	5753 *	5756
Shale	5756 *	5765
Lower Alexander shale	5765 *	5877
Shale	5877 *	6504
Rhinestreet shale	6504 *	7002
Cashaqua shale	7002 *	7060
Middlesex shale	7060 *	7078
West River shale	7078 *	7144
Geneseo shale	7144 *	7204
Tully limestone	7204 *	7240
Hamilton shale	7240 *	7266
Marcellus shale	7266 *	7314
Onondaga	7314 *	7346

PB @ 6130' TVD  
w/498 ft<sup>3</sup> Class H  
Mixed @ 16.0 ppg

TD

\* Formation depths from pilot hole log

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WR-35 Well Operator's Report of Well Work  
Horizontal Formations Encountered

Formations	Top		Bottom	
	TVD (ft)	MD (ft)	TVD (ft)	MD (ft)
Sandstone and shale	0 *		1085	
Pittsburgh coal	1085 *		1089	
Sandstone and shale	1089 *		2300	
Little Lime	2253 *		2272	
Big Lime	2301 *		2503	
Big Injun sandstone	2503 *		2560	
Shale	2560 *		2713	
Weir sandstone	2713 *		2766	
Shale	2766 *		2897	
Berea sandstone	2897 *		2950	
Shale	2950 *		3128	
Gordon Stray	3128 *		3199	
Shale	3199 *		5418	
Riley shale	5418 *		5492	
Shale	5492 *		5520	
Benson siltstone	5520 *		5550	
Shale	5550 *		5753	
Pipe Creek shale	5753 *		5756	
Shale	5756 *		5765	
Lower Alexander shale	5765 *		5813	
Shale	5877 *		6504	
Rhinestreet shale	6504 ~	6504	7002	7039
Cashaqua shale	7002 ~	7039	7060	7120
Middlesex shale	7060 ~	7120	7078	7147
West River shale	7078 ~	7147	7144	7260
Geneseo shale	7144 ~	7260	7204	7385
Tully limestone	7204 ~	7385	7240	7479
Hamilton shale	7240 ~	7479	7266	7603
Marcellus shale	7266 ~	7603	7262	11112
TD	7262 ~	11112		

\* Formation depths from pilot hole log

~ From KOP depths taken from Gamma log of MWD tool