

WR-35
Rev (8-10)

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

DATE: July 7, 2011
API #: 47-103-02560

Farm name: West Virginia Conservation Commission Operator Well No.: Mills-Wetzel #3H

LOCATION: Elevation: 1331' Quadrangle: Pine Grove

District: Grant County: Wetzel
Latitude: 5,250 Feet South of 39 Deg. 32 Min. 30 Sec.
Longitude 960 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"	35'	35'	To Surface
Agent: <u>Tim McGregor</u>	13-3/8"	1,218'	1,218'	1,219
Inspector: <u>David Scranage/ Derek Haight</u>	9-5/8"	2,741	2,741'	1,233
Date Permit Issued: <u>5/12/2010</u>	5-1/2"		10,983'	Set On Pkrs
Date Well Work Commenced: <u>9/26/2010</u>	Cmt DV Tool	On 5-1/2"	Casing @	6,286'
Date Well Work Completed: <u>5/31/2011</u>	Cmt From	DV Tool With	1151 Cu. Ft.	TOC @ 1,570'
Verbal Plugging:	2-3/8"		8,011'	
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig				
Total Vertical Depth (ft): <u>7,285</u>				
Total Measured Depth (ft): <u>11,015</u>				
Fresh Water Depth (ft.): <u>114</u>				
Salt Water Depth (ft.): <u>1,571</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) 8206' - 10785

Gas: Initial open flow 1,003 MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 1,640 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 220 Hours

Static rock Pressure 2,600 psig (surface pressure) after 66 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. J. [Signature]
Signature

7/7/2011
Date

01/20/2012

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes X No _____

Were $\frac{Y}{Y/N}$ Electrical, $\frac{N}{Y/N}$ Mechanical, $\frac{Y}{Y/N}$ or Geophysical logs recorded on this well?

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:

8 stage packer system set from 8,206' MD to 10,785' MD.

8 stage slick water frac pumped injecting 3,041,105 gal water - 55,501 gal 15% HCl -

300,420 lbs 80/100 mesh sand - 2,221,660 lbs 40/70 sand.

Average injection rate 58.2 BPM.

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth _____
Surface: _____

**See Attached Sheet for Formation Tops

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Mills-Wetzel #3H (API # 47-103-02560)
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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 *	3129	3199	3200
Shale	3199 *	3200	5418	5423
Riley shale	5418 *	5423	5492	5497
Shale	5492 *	5497	5520	5526
Benson siltstone	5520 *	5526	5550	5556
Shale	5550 *	5556	5753	5759
Pipe Creek shale	5753 *	5759	5756	5762
Shale	5756 *	5762	5765	5771
Lower Alexander shale	5765 *	5771	5813	5818
Shale	5813 *	5818	6042	6046
Rhinestreet shale	6042 ~	6046	6908	6998
Cashaqua shale	6908 ~	6998	7064	7310
Middlesex shale	7064 ~	4310	7080	7350
West River shale	7080 ~	7350	7152	7540
Geneseo shale	7152 ~	7540	7188	7646
Tully limestone	7188 ~	7646	7256	7890
Hamilton shale	7256 ~	7890	7272	7966
Marcellus shale	7272 ~	7966	7285	11015
TD	7285 ~	11015		

* Formation elevations from pilot hole log

~ From KOP elevations taken from Gamma log of MWD tool