

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: January 30, 2014
API #: 47-103-02770

Farm name: Dennon Trust, Janie Operator Well No.: Bowyers #5H
LOCATION: Elevation: 1,156' Quadrangle: New Martinsville
District: Magnolia County: Wetzel
Latitude: 13.420 Feet South of 39 Deg. 42 Min. 30 Sec.
Longitude 3.010 Feet West of 80 Deg. 50 Min. 00 Sec.

Company: Stone Energy Corporation

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>6000 Hampton Center, Suite B Morgantown, WV 26505</u>	<u>20"</u>	<u>50'</u>	<u>50'</u>	<u>GTS</u>
Agent: <u>Tim McGregor</u>	<u>13.375"</u>	<u>1,148'</u>	<u>1,148'</u>	<u>1,107 - CTS</u>
Inspector: <u>Derek Haught</u>	<u>9.625"</u>	<u>2,241'</u>	<u>2,241'</u>	<u>583 Lead - 494 Tail - CTS</u>
Date Permit Issued: <u>7/16/2012</u>	<u>5.5"</u>		<u>9,671'</u>	<u>970 Lead - 1,360 Tail</u>
Date Well Work Commenced: <u>12/1/2012</u>	<u>2.375"</u>		<u>6,629'</u>	
Date Well Work Completed: <u>8/31/2013</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>6,358</u>				
Total Measured Depth (ft): <u>9,685</u>				
Fresh Water Depth (ft.): <u>90</u>				
Salt Water Depth (ft.): <u>None Reported</u>				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>None Reported</u>				
Void(s) encountered (N/Y) Depth(s) <u>N/A</u>				

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

Producing formation Marcellus Pay zone depth (ft) 6,750' to 9,400'
Gas: Initial open flow 170 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 2,100 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 111 Hours
Static rock Pressure 955 psig (surface pressure) after 1 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.

Signature

1/30/2014
Date

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes X No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list MWD Gamma Ray, Mud Log, and CBL

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 11 intervals from 9,400' to 6,750'. Performed 11 individual stages of slick water stimulation using 3,822,748 gals fresh water, Sand - 442,460 lbs 100 Mesh and 3,993,397 lbs 40/70. AvBDP = 6,235 psi, AvTP = 6,716 psi, AvMTP = 9,019 psi, AvInjRate = 82.5 bpm, and AvISIP = 4,140 psi.

See Attachment for FracFocus information.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered:	Top Depth	/	Bottom Depth
Surface:			

See attached sheet for formations encountered and their depths.

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BOWYERS #5H					
API 47-103-02770					
Stone Energy Corporation					
	Top	Top	(ft	Bottom (ft	Bottom (ft
	(ft TVD)	MD)	MD)	TVD)	MD)
Sandstone & Shale	Surface		*	1733	FW @ 90'
Little Lime	1733		*	1768	SW - None Reported
Big Lime	1768		*	1868	
Big Injun	1868		*	2062	
Sandstone & Shale	2062		*	2435	
Berea Sandstone	2435		*	2475	
Shale	2475		*	2665	
Gordon	2665		*	2725	
Undiff Devonian Shale	2275		*	5727	5745
Rhinestreet	5727	5745	~	6074	6152
Cashaqua	6074	6152	~	6184	6315
Middlesex	6184	6315	~	6211	6361
West River	6211	6361	~	6272	6480
Geneseo	6272	6480	~	6294	6533
Tully Limestone	6294	6533	~	6333	6650
Marcellus	6333	6650	~	6358	9685
TD				6358	9685

* From Pilot Hole Log and Driller's Log

~ From MWD Gamma Log

Hydraulic Fracturing Fluid Product Component Information Disclosure

103.02770

Fracture Date:	7/14/2013
State:	West Virginia
County/Parish:	Wetzel County
API Number:	
Operator Name:	Stone
Well Name and Number:	Bowyers 5H
Longitude:	
Latitude:	
Long/Lat Projection:	
Production Type:	
True Vertical Depth (TVD):	0
Total Water Volume (gal):	3822748

Hydraulic Fracturing Fluid Composition

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
15% HCl, Slickwater, SAPPHIRE VF	Schlumberger	Corrosion Inhibitor, Bactericide (Myacide GA25), Scale Inhibitor, AntiFoam Agent, Acid, Friction Reducer, Rheology Modifier ClearFRAC XT J589, Gelling Agent, Iron Control Agent, Buffer, Propping Agent, Fluid	Water (Including Mix Water Supplied by Client)*	NA		87.68753%	
			Crystalline silica	14808-60-7	98.05851%	12.07343%	
			Hydrogen chloride	7647-01-0	0.73471%	0.09046%	
			Erucic amidopropyl dimethyl betaine	149879-98-1	0.39149%	0.04820%	
			Propan-2-ol	67-63-0	0.34569%	0.04256%	
			Acrylamide, 2-acrylamido-2-methylpropanesulfonic acid, sodium salt polymer	38193-60-1	0.12551%	0.01545%	
			Ammonium sulfate	7783-20-2	0.11863%	0.01461%	
			Glutaraldehyde	111-30-8	0.05781%	0.00712%	
			Sodium chloride	7647-14-5	0.05375%	0.00562%	
			Sodium sulfate	7757-82-6	0.05127%	0.00631%	
			Polymer of 2-acrylamido-2-methylpropanesulfonic acid sodium salt and methyl acrylate	136793-29-8	0.01345%	0.00166%	
			Urea	57-13-6	0.00826%	0.00102%	
			Sodium chloroacetate	3926-62-3	0.00507%	0.00062%	
			Trisodium ortho phosphate	7601-54-9	0.00314%	0.00039%	
			Sodium erythorbate	6381-77-7	0.00263%	0.00032%	
			Sodium carbonate	497-19-8	0.00223%	0.00027%	
			Methanol	67-56-1	0.00222%	0.00027%	
			Polyvinyl acetate, partially hydrolyzed	304443-60-5	0.00193%	0.00024%	
			Fatty acids, tall-oil	61790-12-3	0.00163%	0.00020%	
			Thiourea, polymer with formaldehyde and 1-cyanodithanone	68527-49-1	0.00134%	0.00017%	
			Non-crystalline silica	7631-86-9	0.00120%	0.00015%	
			Polypropylene glycol	25322-69-4	0.00093%	0.00011%	
			Ethane-1,2-diol	107-21-1	0.00089%	0.00011%	
			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00062%	0.00008%	
			Prop-2-yn-1-ol	107-19-7	0.00042%	0.00005%	
			Alkenes, C>10 a-	64743-02-8	0.00028%	0.00003%	
			Tetrasodium ethylenediaminetetraacetate	64-02-8	0.00026%	0.00003%	
			Dimethyl siloxanes and silicones	63148-62-9	0.00012%	0.00001%	
			Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7	0.00002%	< 0.00001%	
			Octamethylcyclotetrasiloxane	556-67-2	0.00001%	< 0.00001%	
			Sodium hydroxide	1310-73-2	0.00001%	< 0.00001%	
			Decamethyl cyclotetrasiloxane	541-02-6	0.00001%	< 0.00001%	
			Dodecamethylcyclohexasiloxane	540-97-6	< 0.00001%	< 0.00001%	

† Proprietary Technology

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

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All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.120(i) and Appendix