

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: February 14, 2014
API #: 47-103-02787

pm jr

Farm name: Lemons, Gary & Judy Operator Well No.: Lemons #8H

LOCATION: Elevation: 1,327' Quadrangle: New Martinsville

District: Magnolia County: Wetzel
Latitude: 5.680 Feet South of 39 Deg. 40 Min. 00 Sec.
Longitude 560 Feet West of 80 Deg. 47 Min. 30 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"	28'	28'	GTS
Agent: Tim McGregor	13.375"	1,316'	1,316'	1,189 - CTS
Inspector: Derek Haught	9.625"	2,702'	2,702'	737 Lead - 471 Tail - CTS
Date Permit Issued: 6/21/2012	5.5"		12,150'	1,081 Lead - 1,923 Tail
Date Well Work Commenced: 9/26/2012	2.375"		7,585'	
Date Well Work Completed: 8/11/2013				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6,856				
Total Measured Depth (ft): 12,159				
Fresh Water Depth (ft.): None Reported				
Salt Water Depth (ft.): None Reported				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 406 to 411				
Void(s) encountered (N/Y) Depth(s) N/A				

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

Producing formation Marcellus Pay zone depth (ft) 7,788' - 12,070'
Gas: Initial open flow 300 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 2,120 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 64 Hours
Static rock Pressure 2,100 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

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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. Bowley
Signature

2/14/2014
Date

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Were core samples taken? Yes _____ No

Were cuttings caught during drilling? Yes 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 16 intervals from 12,070' to 7,788'. Performed 16 individual stages of slick water stimulation using 5,432,267 gals fresh water, Sand - 635,315 lbs 100 Mesh and 5,610,884 lbs 40/70. AvBDP = 6,099 psi, AvTP = 7,074 psi, AvMTP = 8,983 psi, AvInjRate = 81.8 bpm, and AvISIP = 4,571 psi.

See Attachment for FracFocus information.

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

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
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See attached sheet for formations encountered and their depths.

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LEMONS #8H
API 47-103-02787

Stone Energy Corporation

	Top (ft TVD)	Horizontal Top (ft MD)		Bottom (ft TVD)	Bottom (ft MD)
Sandstone & Shale	Surface		*	406	FW @ None Reported
Coal	406		*	411	
Sandstone & Shale	411		*	2313	SW @ None Reported
Little Lime	2313		*	2343	
Big Lime	2343		*	2443	
Big Injun	2443		*	2543	
Sandstone & Shale	2543		*	2873	
Berea Sandstone	2878		*	2928	
Shale	2928		*	3048	
Gordon	3048		*	3098	
Undiff Devonian Shale	3098		*	6190	6205
Rhinestreet	6190	6205	~	6551	6628
Cashaqua	6551	6628	~	6701	6884
Middlesex	6701	6884	~	6720	6917
West River	6720	6917	~	6771	7033
Geneseo	6771	7033	~	6791	7072
Tully Limestone	6791	7072	~	6824	7167
Hamilton	6824	7167	~	6872	7350
Marcellus	6872	7350	~	6794	11248
TD				6794	11248

* From Pilot Hole Log and Driller's Log

~ From MWD Gamma Log

Hydraulic Fracturing Fluid Product Component Information Disclosure

103.02787

Fracture Date:	5/31/2013
State:	West Virginia
County/Parish:	Wetzel County
API Number:	
Operator Name:	Stone
Well Name and Number:	Lemons 8H
Longitude:	
Latitude:	
Long/Lat Projection:	
Production Type:	
True Vertical Depth (TVD):	0
Total Water Volume (gal)*:	5432267

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, Seawater, SAPPHIRE VF	Schlumberger	Corrosion Inhibitor, Bactericide (Myicide GA25), Scale Inhibitor, AntiFoam Agent, Surfactant, Acid, Friction Reducer, Rheology Modifier ClearFRAC XT J589, Gelling Agent, Iron Control Agent, Clay Control Agent, Buffer, Fluid Loss Additive, Resin, Acid	Water (including Mix Water Supplied by Client)	NA		87.66354%	
			Crystalline silica	14608-60-7	98.13447%	12.10832%	
			Hydrogen chloride	7647-01-0	0.72674%	0.05955%	
			Erucic amidepropyl dimethyl betaine	149879-98-1	0.30665%	0.03783%	
			Propan-2-ol	67-63-0	0.26015%	0.03458%	
			Acrylamide, 2-acrylamido-2-methylpropanesulfonic acid, sodium salt polymer	38193-60-1	0.11658%	0.01438%	
			Ammonium sulfate	7783-20-2	0.11019%	0.01359%	
			Sodium chloride	7647-14-5	0.07872%	0.00971%	
			Glutaraldehyde	111-30-8	0.05025%	0.00620%	
			Sodium sulfate	7757-82-6	0.04762%	0.00588%	
			Poly(ethylene glycol) monobutyl ether	3126-34-8	0.04654%	0.00574%	
			Magnesium chloride	7788-30-3	0.03433%	0.00424%	
			Polymer of 2-acrylamido-2-methylpropanesulfonic acid sodium salt and methyl acrylate	138793-29-8	0.01249%	0.00154%	
			Urea	57-13-6	0.00768%	0.00095%	
			Calcium chloride	10043-52-4	0.00481%	0.00059%	
			Sodium chloroacetate	3926-62-3	0.00397%	0.00049%	
			Trisodium ortho phosphate	7601-54-9	0.00332%	0.00041%	
			Methanol	67-56-1	0.00265%	0.00033%	
			Sodium erythorbate	6381-77-7	0.00260%	0.00032%	
			Diocto dimethyl quaternary ammonium chloride	81789-77-3	0.00204%	0.00025%	
			Sodium carbonate	497-19-8	0.00204%	0.00025%	
			Fatty acids, tall-oil	61790-12-3	0.00194%	0.00024%	
			Polyvinyl acetate, partially hydrolyzed	304443-60-5	0.00165%	0.00020%	
			Thiourea, polymer with formaldehyde and 1-thioethanone	68527-49-1	0.00160%	0.00020%	
			Non-crystalline silica	7631-86-9	0.00111%	0.00014%	
			Ethano-1,2-diol	107-21-1	0.00095%	0.00012%	
			Potassium chloride	7647-40-7	0.00092%	0.00011%	
			Alcohols, C14-15, ethoxylated (AEO)	88951-67-7	0.00074%	0.00009%	
			Prop-2-yn-1-ol	107-19-7	0.00050%	0.00006%	
			Alkenes, C>10 a-	64743-02-8	0.00033%	0.00004%	
			Tetraosodium ethylenediaminetetraacetate	64-02-8	0.00024%	0.00003%	
			Polypropylene glycol	25322-69-4	0.00013%	0.00002%	
			Dimethyl siloxanes and silicones	63148-62-9	0.00011%	0.00001%	
			Potassium hydroxide	1310-58-3	0.00009%	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%	
			Dodecamethylcyclotetrasiloxane	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 1910.1200(i) and Appendix D.