

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 #: 47-103-02786

PM J

Farm name: Lemons, Gary & Judy Operator Well No.: Lemons #6H

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

District: Magnolia County: Wetzel
Latitude: 5,690 Feet South of 39 Deg. 40 Min. 00 Sec.
Longitude: 570 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"	40'	40'	GTS
Agent: Tim McGregor	13.375"	1,297'	1,297'	1,190 - CTS
Inspector: Derek Haught	9.625"	2,704'	2,704'	655 Load - 484 Tub - CTS
Date Permit Issued: 6/21/2012	5.5"		12,350'	1,109 Load - 1,925 Tub
Date Well Work Commenced: 10/8/2012	2.375"		7,339'	
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): 6,872				
Total Measured Depth (ft): 12,355				
Fresh Water Depth (ft.): 80				
Salt Water Depth (ft.): 1,449				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 566 to 570				
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) 7,477' - 12,240'
Gas: Initial open flow 1,050 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 3,000 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 94 Hours
Static rock Pressure 1,820 psig (surface pressure) after 4 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. J. [Signature]
Signature

2/14/2014
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 18 intervals from 12,240' to 7,477'. Performed 18 individual stages of slick water stimulation using 6,425,007 gals fresh water, Sand - 699,834 lbs 100 Mesh and 5,569,856 lbs 40/70. AvBDP = 6,335 psi, AvTP = 7,381 psi, AvMTP = 9,074 psi, AvInjRate = 80.0 bpm, and AvSIP = 4,389 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 #6H
 API 47-103-02786
 Stone Energy Corporation

	Top (ft TVD)	Horizontal Top (ft MD)		Bottom (ft TVD)	Bottom (ft MD)
Sandstone & Shale	Surface		*	566	
Coal	566		*	570	
Sandstone & Shale	570		*	2313	
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		*	6188	6198
Rhinestreet	6188	6198	~	6553	6605
Cashaqua	6553	6605	~	6696	6818
Middlesex	6696	6818	~	6727	6873
West River	6727	6873	~	6776	6971
Geneseo	6776	6971	~	6795	7016
Tully Limestone	6795	7016	~	6832	7113
Hamilton	6832	7113	~	6881	7278
Marcellus	6881	7278	~	6872	12355
TD				6872	12355

FW @ 80'

SW @ 1449'

* From Pilot Hole Log and Driller's Log
 ~ From MWD Gamma Log

Hydraulic Fracturing Fluid Product Component Information Disclosure

103-02786

Fracture Date:	6/2/2013
State:	West Virginia
County/Parish:	Wetzel County
API Number:	
Operator Name:	Stone
Well Name and Number:	Lemons 6H
Longitude:	
Latitude:	
Long/Lat Projection:	
Production Type:	
True Vertical Depth (TVD):	0
Tot. l Water Volume (gal)*:	6425007

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, WF115, SAPPHIRE VF	Schlumberger	Corrosion Inhibitor, Bactericide (Myacide GA25), Scale Inhibitor, AntiFoam Agent, Surfactant, Acid, Breaker, Gelling Agent, Friction Reducer, Rheology Modifier, ClearFRAC XT J589, Iron Control Agent, Clay Control Agent, Buffer, Drilling Agent, Fluid	Water (Including Mix Water Supplied by Client)*	NA		88.81754%	
			Crystalline silica	14808-60-7	97.85078%	10.94213%	
			Hydrogen chloride	7647-01-0	0.93404%	0.10445%	
			Erucic amidopropyl dimethyl halimide	149879-98-1	0.29561%	0.03306%	
			Propan-2-ol	67-63-0	0.26220%	0.02932%	
			Acrylamide, 2-acrylamido-2-methylpropanesulfonic acid, sodium salt polymer	38193-60-1	0.13105%	0.01465%	
			Ammonium sulfate	7783-20-2	0.12386%	0.01385%	
			Sodium chloride	7647-14-5	0.08144%	0.00911%	
			Glutaraldehyde	111-30-8	0.05575%	0.00623%	
			Polyethylene glycol monochloro ether	31726-34-8	0.05570%	0.00623%	
			Sodium sulfate	7757-82-6	0.05353%	0.00589%	
			Guar gum	9000-30-0	0.04168%	0.00466%	
			Magnesium chloride	7786-30-3	0.03829%	0.00428%	
			Polymer of 2-acrylamido-2-methylpropanesulfonic acid sodium salt and methyl acrylate	136793-29-8	0.01404%	0.00157%	
			Urea	57-13-6	0.00863%	0.00096%	
			Calcium chloride	10043-52-4	0.00536%	0.00060%	
			Sodium chloroacetate	3926-62-3	0.00383%	0.00043%	
			Trisodium ortho phosphate	7601-54-9	0.00355%	0.00040%	
			Methanol	67-56-1	0.00324%	0.00036%	
			Sodium erythorbate	6381-77-7	0.00323%	0.00036%	
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00244%	0.00027%	
			Fatty acids, tall-oil	61790-12-3	0.00238%	0.00027%	
			Thiourea, polymer with formaldehyde and 1,2-ethanediol	68527-49-1	0.00196%	0.00022%	
			Diammonium persulfate	7727-54-0	0.00163%	0.00018%	
			Polyvinyl acetate, partially hydrolyzed	304443-60-5	0.00147%	0.00016%	
			Non-crystalline silica	7631-86-9	0.00136%	0.00015%	
			Polypropylene glycol	25322-69-4	0.00136%	0.00015%	
			Potassium chloride	7447-40-7	0.00102%	0.00011%	
			Ethane-1,2-diol	107-21-1	0.00101%	0.00011%	
			Alcohols, C14-15, saturated (TEO)	88951-67-7	0.00091%	0.00010%	
			Sodium carbonate	497-19-8	0.00074%	0.00008%	
			Prop-2-yn-1-ol	107-19-7	0.00061%	0.00007%	
			Alkenes, C>10 a-	64743-02-8	0.00040%	0.00005%	
			Tetrasodium ethylenediaminetetraacetate	64-02-8	0.00027%	0.00003%	
			Dimethyl siloxanes and silicones	63148-62-9	0.00012%	0.00001%	
			Potassium hydroxide	1310-58-3	0.00011%	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 1910.1200(i) and Appendix D.