

PM JK

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: March 26, 2014
API #: 47-103-02817

Farm name: Greathouse, James Arnold Operator Well No.: Mason-Conlon Unit 1 - #5H

LOCATION: Elevation: 1,202' Quadrangle: Wileyville

District: Proctor County: Wetzel
Latitude: 14.670 Feet South of 39 Deg. 40 Min. 00 Sec.
Longitude 5.150 Feet West of 80 Deg. 42 Min. 30 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</u> <u>Morgantown, WV 26505</u>	<u>20"</u>	<u>82'</u>	<u>82'</u>	<u>GTS</u>
Agent: <u>Tim McGregor</u>	<u>13.375"</u>	<u>1,183'</u>	<u>1,183'</u>	<u>976 CTS</u>
Inspector: <u>Derek Haught</u>	<u>9.625"</u>	<u>2,631'</u>	<u>2,631'</u>	<u>587 Lead - 524 Tail CTS</u>
Date Permit Issued: <u>12/10/2012</u>	<u>5.5"</u>		<u>9,836'</u>	<u>1,236 Lead - 1,116 Tail</u>
Date Well Work Commenced: <u>1/27/2013</u>	<u>2.375"</u>		<u>7,191'</u>	
Date Well Work Completed: <u>10/28/2013</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>6,838</u>				
Total Measured Depth (ft): <u>9,840</u>				
Fresh Water Depth (ft.): <u>92</u>				
Salt Water Depth (ft.): <u>1,416</u>				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>715 - 719</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 Geneseo Pay zone depth (ft) 7,363' - 9,756'

Gas: Initial open flow 370 MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 1,160 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 158 Hours

Static rock Pressure 2,000 psig (surface pressure) after 94 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

RECEIVED
Office of Oil and Gas
MAR 27 2014
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. Houston
Signature

3/26/2014
Date

05/02/2014

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 9 intervals from 9,756' to 7,363'. Performed 9 individual stages of slick water stimulation using 3,012,612 gals fresh water, Sand - 360,640 lbs 100 Mesh and 3,006,340 lbs 40/70. AvBDP = 7,515 psi, AvTP = 6,998 psi, AvMTP = 9,026 psi, AvInjRate = 78.6 bpm, and AvSIP = 4,177 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.

103-02817

Mason Colon Unit 1 - #5H

API 47-103-02817

Stone Energy Corporation

	Top	Top	Horizontal	Bottom	Bottom
	(ft TVD)	MD)	(ft	(ft TVD)	(ft MD)
Red Rock	Surface		*	251	FW @ 92'
Sandstone & Shale	251		*	715	
Coal	715		*	719	
Sandstone & Shale	719		*	2162	SW @ 1416'
Little Lime	2162		*	2182	
Big Lime	2182		*	2325	
Big Injun	2325		*	2445	
Sandstone & Shale	2445		*	2779	
Berea Sandstone	2779		*	2825	
Undiff Devonian Shale	2825		*	5634	
Rhinestreet	5634		~	6631	6721
Cashaqua	6631	6721	~	6802	6981
Middlesex	6802	6981	~	6822	7023
West River	6822	7023	~	6875	7188
Geneseo	6875	7188	~	9838	9840
TD				6838	9840

* From Pilot Hole Log & Driller's Log

~ From MWD Gamma Log

05/02/2014

Hydraulic Fracturing Fluid Product Component Information Disclosure

103-02817

Fracture Date:	6/8/2013
State:	West Virginia
County/Parish:	Wetzel County
API Number:	
Operator Name:	Stone
Well Name and Number:	Mason-Conlon 5H
Longitude:	
Latitude:	
Long/Lat Projection:	
Production Type:	
True Vertical Depth (TVD):	0
Total Water Volume (gal)*:	5414458

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
H015%, Slickwater	Schlumberger	Corrosion Inhibitor, Bactericide (Myacide GA25), Scale Inhibitor, AntiFoam Agent, Surfactant, Acid, Breaker, Gelling Agent, Friction Reducer, Iron Control Agent, Clay Control Agent, Buffer, Fluid Loss Additive	Water (Including Mix Water Supplied by Client)*	NA		92.94526%	
			Crystalline silica	14808-60-7	98.16265%	6.92512%	
			Hydrochloric acid	7647-01-0	0.91399%	0.06448%	
			Carbohydrate polymer	Proprietary	0.47880%	0.03378%	
			Ammonium sulfate	Proprietary	0.29557%	0.02085%	
			Polyethylene glycol monohexyl ether	31726-34-8	0.07066%	0.00498%	
			Glutaraldehyde	111-30-8	0.06118%	0.00432%	
			Diammonium peroxodisulfate	7727-54-0	0.02420%	0.00171%	
			Calcium chloride	10043-52-4	0.01382%	0.00098%	
			Polypropylene glycol	25322-69-4	0.01230%	0.00087%	
			Polyethoxylated alkanol	Proprietary	0.00998%	0.00070%	
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00544%	0.00038%	
			2-butoxyethanol	111-76-2	0.00499%	0.00035%	
			Sodium carbonate	497-19-8	0.00437%	0.00031%	
			Methanol	67-56-1	0.00371%	0.00026%	
			Trisodium orthophosphate	7601-54-9	0.00350%	0.00025%	
			Ethane-1,2-diol	107-21-1	0.00350%	0.00025%	
			Sodium erythorbate	6381-77-7	0.00292%	0.00021%	
			Aliphatic alcohols, ethoxylated #2	Proprietary	0.00278%	0.00020%	
			Aliphatic acids	Proprietary	0.00278%	0.00020%	
			Butan-1-ol	71-36-3	0.00216%	0.00015%	
			Polyethoxylated alkanol	Proprietary	0.00166%	0.00012%	
			Prop-2-yn-1-ol	107-19-7	0.00093%	0.00007%	

* 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%

Report ID: RPT-24865 (Generated on 2/28/2014 11:51 AM)

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.

05/02/2014