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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#:	47-103-02711

LOCATION: Elevatio	on: 1,327'	Quadrangle:	New	v Martinsville	
		<u> </u>		A IMBITILIZANIA	
	Magnolia	County:	w	etzel	
Latitude:		Deg. 40 Mir			
Longitude	Feet West of80	Deg. 47 Mir	. <u>30</u> Sec	3.	
Company: S	Stone Energy Corporation				
	000 Hampton Center, Suit	e B Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
M	organtown, WV 26505	20"	48'	48'	GTS
Agent: Ti	m McGregor	13.375"	1,314'	1,314'	1,309 - CTS
	erek Haught	9.625"	2,685'	2,685'	768 Lead - 464 Tell CTS
	sued: 10/5/2011	5.5"		11,991'	1,045 Lead - 1,877 Te2
	rk Commenced: 8/18/2012	2.375"		7,258'	
Date Well Wor	010410040				
Verbal Pluggin	ng:				
Date Permissio	on granted on:				
Rotary 🗸	Cable Rig				
Total Vertice	al Depth (ft): 6,748				
	ed Depth (fi): 11,993				
	Depth (ft.): 50				
Salt Water De	epth (ft.): None Reported				
ls coal being m	nined in area (N/Y)? No				
Coal Depths (fi					
Void(s) encour	ntered (N/Y) Depth(s) N/A		-		
Producing format Gas: Initial open for Final open flow Time of open f	flow 560 MCF/d Oil: Initial oper 1,330 MCF/d Final oper flow between initial and final tests	Pay zone depth (ft) pen flow 0 B n flow 0 Bb 185 Hours	',387' - 11,894' ol/d I/d	·	heet) REGEIVED ffice of Oil and Gas
Static rock Pressu	re 1,830 psig (surface pressur	re) after <u>27</u> Hou	.2		FEB 24 2014
Gas: Initial open f Final open flov Time of open f	g formationPa NowMCF/d Oil: Initial open MCF/d Final open Now between initial and final tests repsig (surface pressure)	oen flow Bloom Bb			∜V Department of ironmental Protection

2/14/2014 Date

Were core samples taken? YesNo_	Were cuttings caught during drilling? Yes X No
Were Electrical, Mechanical or Geophysical and CBL	il logs recorded on this well? If yes, please list MWD Gamma Ray, Mud Log
FRACTURING OR STIMULATING, PI DETAILED GEOLOGICAL RECORD	UT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVA PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMAT D OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDI LLBORE FROM SURFACE TO TOTAL DEPTH.
Perforated Intervals, Fracturing, or Stimulati	ting:
Perforated 17 intervals from 11,894' to 7,387'.	 Performed 17 individual stages of slick water stimulation using 5,823,943 gals fres
water, Sand - 650,088 lbs 100 Mesh and 5,88	82,424 lbs 40/70. AvBDP = 7,300 psi, AvTP = 7,637 psi, AvMTP = 9,133 psi,
AvInjRate = 81.0 bpm, and AvISIP = 4,880 ps	Si
See Attachment for FracFocus information.	
Plug Back Details Including Plug Type and I	Depth(s): N/A
Formations Encountered: Surface:	Top Depth / Bottom Depth
See attached sheet for formations er	encountered and their depths.

LEMONS #3H API 47-103-02711

Stone Energy Corporation Horizontal

	Тор	Top (ft		Bottom (ft	Bottom (ft	
	(ft TVD)	MD)		TVD)	MD)	
Sandstone & Shale	Surface			741		FW @ 80'
Coal	741		*	742		
Sandstone & Shale	742		*	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		*	6170	6184	
Rhinestreet	6170	6184	~	6545	6627	
Cashaqua	6545	6627	~	6681	6843	
Middlesex	6681	6843	~	6709	6882	
West River	6709	6882	~	6758	7001	
Geneseo	6758	7001	~	6776	7042	
Tully Limestone	6776	7042	~	6811	7121	
Hamilton	6811	7121	~	6852	7258 ·	
Marcellus	6852	7258	~	6748	11993	
TD				6748	11993	

^{*} From Pilot Hole Log and Driller's Log

[~] From MWD Gamma Log

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	6/1/2013
State:	• West Virginia
County/Parish	Wetzel County
API Number:	•
Operator Name:	Stone
Well Hame and Number:	Lemons 3H
Longitude:	
Latitude:	
Lang/Lat Projection:	
Production Type:	
True Vertical Depth (TVD):	0
Total Water Volume Josist	E022049

103-01711

mulic Erroburion Phild Composition

Trade Namo	Supplier	Purpose	Ingradients	Chemical Abstract Service Number (CAS #)	Maximum ingredient Concentration in Additive (% by mass)**	Maximum Ingradient Concentration in HF Fluid (% by mass)**	Comments
16% HCI, Stickwater, WF115	Schlumberger	Comosion Inhibitor, Bactericido (Myacide GA25), Scale Inhibitor, AntiFoam Agent, Surfactant , Actd, Breaker, Gelling Agent, Friction Reducer, Irun Control Agent, Clay	Water (including Mix Water Supplied by Client)*	NA -		88.06780%	
:		Control Agent, Fluid Loss Additive Propoing	<u></u>				
			Crystaline silica	14808-60-7	98.21013%	11.71883%	1
			Hydrogen chloride	7647-01-0	0.79190%	0.09449%	
-			Guar gum Acrylamide, 2-scrylamide 2-methylpropanesulionic scid, sodium salt polymer		0.47951% 0.08947%	0.05722% 0.01187%	
			Ammonium sulfate	7783-20-2	0.09401%	. 0.011228	
			Polyethylene glycol	31726-34-8	0.08232%	0.01122%	<u>:</u>
			monohevid ethor Glutaraldehyde	111-30-8			
		·	Sodium sulfato	7757-82-6	0.05034%	0.00601%	
			Sodium chtoride	7847-14-5	0.04063%	0.00485%	
			Magnesium chloride	7788-30-3	0.03703%	0.00442%	
			Diammonium	7727-54-0	0.02639%	0.00414%	
			nemvirileulebete Polymer of 2-acrylamido-	135793-29-8	0.01086%	0.00127%	
			2-methylpropanesulfonic acid sodium salt and methyl acrylate		0.01000	0.00127 %	
			Polypropylene glycol	25322-69-4	0.00760%	0.00091%	
			Methanol	67-56-1	0.00717%	0.00086%	
			Ures	57-13-8	0.00855%	0.00078%	
			Fatty acids, tell-oil	61790-12-3	0.00526%	0.00083%	
<u> </u>			Calcium chloride	10043-52-4	0.00486%	0.00058%	
			Thicurea, polymer with formaldehyde and 1-	68527-49-1	0.00433%	0.00052%	_
			Yrisodium ortho	7601-54-9	0.00339%	0.00041%	******
			Dicoco dimethyl quatemary ammonium	61789-77-3	0.00273%	0.00033%	
			Non-crystalline silica	7631-88-9	0.00228%	0.00027%	-
			Athorsted (ZEO)	68951-67-7	0.00202%	0.00024%	
				107-19-7	0.00134%	0.00018%	
				6381-77-7	0.00115%	0.00014%	
 				107-21-1	0.00097%	0.00012%	
				7447-40-7 64743-02-8	0.00093%	0.00011%	
				67-63-0	0.00090%	0.00011%	
				54-02- 8	0.00021%	0.00007%	
			Potassium hydroxide	1310-58-3	0.00012%	0.00001%	
				83148-82-9	0.00009%	0.00001%	
				87782-90-7	0.00001%	< 0.00001%	
			Octamethylcycloretrasilox	556-67-2	0.00001%	< 0.00001%	
			Sodium hydroxide	1310-73-2	0.00001%	< 0.00001%	
			Decamethyl (\$41-02-6	0.00001%	< 0.00001%	

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As component information sted was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplicity 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 Low protects "proprietory", "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

^{*} 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%