State of West Virginia

Department of Environmental Protection - Office of Oil and Gas

Well Operator's Report of Well Work

RECEIVED Office of Oil and Gas

MAR 1 9 2017

API 47 - 103 _ 02	2959 County Wes	tzel	Green	AN 13 con
Quad Porters Falls		4	1/1/1/1	ary Protection
Farm name Martin, Charle	es and Gwendo		Field/Pool Name Manuel Well Number #6H	mental Florogon
Operator (as registered with	the OOG) Stone Energy	Corporation		
Address 1300 Fort Pierp	ont Dr Suite 201 City	Morgantown	State WV	Zip 26508
As Drilled location NAD Top Landing Point of C	hole Northing 4,384,788	3.	w, and deviation survey Easting 520,088 Easting 520,282	
Bottom I			Easting 521,104	
Type of Operation	al □ CBM Gas □ Oil of Oil of Gas □ Oil of Oi	□ Plug Back □ □ Secondary Recovery Produced □ Brine □ th Water Interme Brine	Redrilling	□ Other
Saturated salt mud which	ch includes Caustic Soda	, Barite, Lime, New	-Drill, Perma-Lose HT, ≻	(an-Plex D, X-Cide 102,
Soda Ash, and Sodium	Chloride			
Date permit issued12/1 Date completion activities b Verbal plugging (Y/N)	egan12/10/2015		in detritites ecuseu	eased11/21/2014 2/18/2015
Please note: Operator is req	quired to submit a plugging a	pplication within 5 day	rs of verbal permission to pl	ug
Freshwater depth(s) ft	108	Open mine(s) (Y		
			(/N) depths	N
Salt water depth(s) ft	None Reported			N N
Salt water depth(s) ft	None Reported 632, 714 and 750	Void(s) encount	//N) depths ered (Y/N) depths intered (Y/N) depths	

DATE: 5-25-17

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Rev.	8/23/13

CASING	Hole	Casing		New or	Grade	Basket	Did cement circulate (Y/N)
STRINGS	Size	Size	Depth	Used	wt/ft	Depth(s)	* Provide details below*
Conductor	24"	20"	85'	New	LS - 94.1 ppf		N - GTS
Surface	17.5"	13.375"	907' KB - 897' GL	New	J55 - 54.5 ppf	113' & 195'	Y - CTS
Coal	17.5"	13.375"	907' KB - 897' GL	New	J55 - 54.5 ppf	113' & 195'	Y - CTS
Intermediate 1	12.25"	9.625"	2,227'	New	J55 - 36 ppf		Y - CTS
Intermediate 2					-		
Intermediate 3							
Production	8.75"	5.5"	12,238'	New	P110 - 20 ppf		N - TOC @ 1,098' Calculated
Tubing							
Packer type and de	pth set	TAM CAP Inflat	able Packer on 9.62	25" Casing S	tring @ 780'	<u> </u>	

surface on the 5.5" casing string. TOC on 5.5" calculated to be @ 1,098'.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³/sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Type 1	34	15.6	1.18	40	Surface	24.0
Surface	HalCem Class "A"	400	15.6	1.21	484	Surface	8.0
Coal	HalCem Class "A"	400	15.6	1.21	484	Surface	8.0
Intermediate 1	Lead-10% Salt Tail-HalCem	Lead-400 Tail-400	Lead-15.6 Tail-15.6	Lead-1.24 Tail-1.21	Lead-496 Tail-484	Surface	12.0
Intermediate 2							
Intermediate 3							
Production	Lead-TunedSpacer3 Tal-VariCem	Lead-279 Tail-2,345	Lead-14.5 Tail-15.2	Lead-1.51 Tail-1.20	Lead-421 Tail-2,814	1,098' Calculated	7.0
Tubing							•

Drillers TD (ft) 12,238 MD / 6,651 TVD Deepest formation penetrated Marcellus Shale			Loggers TD (ft) N/A					
Plug back procedure			riug back to (II)					
Kick off depth (ft) 5,674 MD / 5,673 T	VD							
Check all wireline logs run	□ caliper □ neutron	□ density □ resistivity	■ deviated/directional ■ gamma ray	□ induction □ temperature □sonic				
Well cored □ Yes ■ No	Conventio	nal Sidewa	II Were cu	ttings collected ■ Yes □ No				
joints 4, 8, 12, 16 and 20. Intermediate casing had bow sp	ring centralizers placed on	joints 4, 8, 12, 16, 20, 24, 28 a	nd 32.	Surface casing had bow spring centralizers placed on				
Production casing had rigid spiral centralizers plated on every fifth joint. A total of 17 bow spring centralizers		nt beginning with joint 7 to	joint 147. Ran a total of 36 rigid spiral	centralizers. Ran bow spring centralizers from joint 152 to joint 23				
WAS WELL COMPLETED AS	SHOT HOLE	□ Yes 🛔 N	o DETAILS					
WAS WELL COMPLETED OP	EN HOLE?	□ Yes ■ No	DETAILS					
WERE TRACERS USED	es 🖪 No	TYPE OF TRA	CER(S) USED					

API 47- 103	02959	Farm name Martin, Charles and Gwendo	Well number #6H
AFI 4/	<u> </u>	Tarii ilalic	

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	12/10/2015	12,033	12,176	NA	Marcellus
2	12/17/2015	11,969	11,872	54	Marcellus
3	12/18/2015	11,711	11,808	54	Marcellus
		-			

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	12/17/15	79.8	8083	8937	4103	282820	5744	NA
2	12/17/15	80	7583	7891	4940	282492	5888	NA
3	12/18/15	82.8	8331	8331	4801	280943	6116	NA
								·
		•						

Please insert additional pages as applicable.

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API 47- 103	02959	Farm	name Martin, C	Charles a	and Gwendo	_Well i	number_#6H	
PRODUCING F	- Z-13. 3-14.	2)	DEPTHS					
August of the second	OKWATION	51			44 7441 40 4701			
Marcellus		_	6650'	_TVD	11,711'-12,176'	_ MD		
		_		_	-	_		
		_		-/-	-	_		
Please insert add	ditional pages a	s applicable.		_				
GAS TEST	□ Build up □	Drawdown	□ Open Flow		OIL TEST 🗆 F	low [□ Pump	
SHUT-IN PRES	SSURE Surfa	ace	psi Botto	m Hole_	psi	DURA	TION OF TEST _	hrs
OPEN FLOW	Gas mcf	Oil pd	NGL bpd				MEASURED BY nated □ Orifice	□ Pilot
LITHOLOGY/	TOP	воттом	ТОР	вотто	M			
FORMATION	DEPTH IN FT					OCK TY	PE AND RECORD QUA	ANTITYAND
	NAME TVD	TVD	MD	MD	TYPE OF FLU	UID (FRE	SHWATER, BRINE, O	IL, GAS, H₂S, ETC)
See Attached Sheet	0		0					
See Attached Sheet								
								rice in the second
			/					
Please insert add	ditional pages a	s applicable						
			D 1111 / /					
			exon Drilling (horiz		on / The Woodlands	C.	MM//TY 7: 2530	11 / 77391
Address 900 Virg	Jilla St East /93	03 New Trails D	City	Charlesto	on / The woodiands	_ State	WV / TX Zip 2530	11777301
Logging Compa			umberger					(F-15)
Address 124 Visi	ta Drive / 1178 US	HWY 33 East	City	Charleroi	/ Weston	_ State	PA/WV Zip 1502	27-26452
Cementing Com	nany Halliburto	n					Office of Oil	and con
Address 121 Cha			City	Cannonsl	burg	State	DA 4504	
Gri Lui C	nnany Baker I	Hughes					Mit iii - c	
Stimulating Cor Address 1681 E		lugiles	City	Bridgepo	rt	State	WV_/// Zip 2633	dment of
Please insert add		s applicable.	City			_ State	Environment	al Protection
					Andrew Co.	204 225		
Completed by Signature	9 3/	1	Title D	rilling Engin	Telephone	304-225	Date 2/15/17	
/ /	the house		Title 3	J			Duite	-
Submittal of Hy	draulic Fractur	ing Chemical	Disclosure Info	rmation	Attach copy of	FRACI	FOCUS Registry	

Martin #6H API 47-103-02959

Stone Energy Corporation Horizontal

	Тор	Horizontal Top		Bottom (ft	Bottom	
	(ft TVD)	(ft MD)		TVD)	(ft MD)	
Sandstone & Shale	Surface		*	632	FW @ 10)8'
Coal	632		*	636		
Sandstone & Shale	636		*	714		
Coal	714		*	730		
Sandstone & Shale	730		*	750		
Coal	750		*	756		
Sandstone & Shale	756		*	1,883	SW @ None Report	ed
Little Lime	1,883		*	1,913		
Big Lime	1,913		*	2,013		
Big Injun	2,013		*	2,113		
Sandstone & Shale	2,113		*	2,477		
Berea Sandstone	2,477		*	2,507		
Shale	2,507		*	2,679		
Gordon	2,679		*	2,729		
Undiff Devonian Shale	2,729		*	5,662	5,664	
Rhinestreet	5,662	5,664	~	6,149	6,212	
Cashaqua	6,149	6,212	~	6,428	6,590	
Middlesex	6,428	6,590	~	6,450	6,621	
West River	6,450	6,621	~	6,524	6,737	
Geneseo	6,524	6,737	~	6,532	6,754	
Tully Limestone	6,532	6,754	~	6,565	6,825	
Hamilton Shale	6,565	6,825	~	6,619	6,981	
Marcellus	6,619	6,981	~	6,685	12,238	
TD				6,685	12,238	

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

[~] From MWD Gamma Log