State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API <u>47</u> - 103 _ 03012	County Wetzel	District Proctor	
Quad New Martinsville	Pad Name Erlewine	Field/Pool Name Mary	
Farm name Erlewine, Richard		Well Number #2H	
Operator (as registered with the OOG)	Stone Energy Corporation		
Address 1300 Fort Pierpont Dr S	uite 201 City Morgantown	State WV	Zip 26508
As Drilled location NAD 83/UTM Top hole N Landing Point of Curve N Bottom Hole N Elevation (ft) 1,212 GL	Attach an as-drilled plat, profitorthing 4,392,647 orthing 4,392,464 orthing 4,390,794 Type of Well New Frizontal Horizontal Plug Back Gas Oil Secondary Rec	Easting 517,389 Easting 517,021 Easting 517,423 Existing Type of Report 1 Vertical Depth Type Redrilling Rework 1 overy Solution Mining Storage	Deep Shallow
Drilling Media Surface hole Air	□ Mud ■Fresh Water In	termediate hole	Fresh Water Brine
Production hole Air Mud	Fresh Water Brine		
Mud Type(s) and Additive(s) Saturated salt mud which includes	: Caustic Soda, Barite, Lime,	New-Drill, Perma-Lose HT, Xan	-Plex D, X-Cide 102,
Soda Ash, and Sodium Chloride			
Al	Date drining commenced	8/29/2014 Date drilling cease Not Yet Granted by	
Please note: Operator is required to sub	mit a plugging application within	5 days of verbal permission to plug	CEIVED
Freshwater depth(s) ft	105 Open mine	e(s) (Y/N) depths	Oil and Gas
Salt water depth(s) ft1,	Void(s) er	countered (Y/N) depths MAR	1 3N2017
Coal depth(s) ft 374, 444	and 644 Cavern(s)	encountered (Y/N) depth\$	N
Is coal being mined in area (Y/N)	APPRONAME: Ser n A	Tylronmer (Partment of It Reviewed Section

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API 47- 103	- 03012		Farm name_E	rlewine, Ric	hard	Well n	ımber_#2H	
CASING STRINGS	Hole Size	Casin Size	•		w or Grade			Did cement circulate (Y/ N) * Provide details below*
Conductor	24"	20				94.1 ppf	,u.(o)	N - GTS
Surface	17.5"	13.3	75" 1,214'KE	3 - 1,204' GL			21' & 239'	Y - CTS
Coal	17.5"	13.3	75" 1,214' KE	3 - 1,204' GL			21' & 239'	Y - CTS
Intermediate 1	12.25"	9.62	25" 2.	419' N		- 36 ppf		Y - CTS
Intermediate 2								······································
Intermediate 3								
Production	8.75"	5.9	5" 12	,502'	New P110	- 20 ppf	1	N - TOC @ 1,338' Calculat
Tubing								
Packer type and d	epth set							· · · · · · · · · · · · · · · · · · ·
Comment Details suface on the 5.5" of CEMENT	Circulated 32 bbls asing string. TOC on			asing string. Circula	ated 20 bbls cement to	surface on the 9.62	5" casing string. D	Did not circulate any cement to
DATA	of Cement		of Sacks	wt (ppg)	(ft ³ /sks)	(ft. ²)	Top (MD)	
Conductor	Type 1		34	15.6	1.18	40	Surface	24.0
Surface	HalCem Class	"A"	910	15.6	1.18	1,074	Surface	8.0
Coal	HalCem Class		910	15.6	1.18	1,074	Surface	8.0
Intermediate I	HalCem Class	"A"	800	15.6	1.18	944	Surface	12.0
Intermediate 2								
Intermediate 3								
Production	Lead-TunedSpacer3 Toil-	VariCem Lea	nd-178 Tail-2,350	Lead-14.5 Tail-15.0	Lead-2.37 Tail-1.20	Lead-422 Tail-2,820	1,388' Calcu	lated 7.0
Tubing						l	<u></u>	
Drillers TD (ft) 12,510 MD / 6,655	TVD		Log	ggers TD (ft) N/	١		
Deepest forma	tion penetrated	Marcellus	Shale	Plu	g back to (ft)			
Plug back pro	cedure							
Kick off depth	(ft) 5,609 MD / 5,5	77 TVD			-			
Check all wire	line logs run		•		deviated/direct gamma ray			□sonic
Well cored	Yes 🖪 No	C	Conventional	Sidewall	W	ere cuttings co	ollected Y	′es □ No
joints 2, 6, 10, 14, 18, and	22. Intermediate casing h	ad bow spring o	entralizers placed on joints	s 4, 8, 12, 16, 20, 24, 28 a	ind 32			spring centralizers placed on
	d rigid spiral centralize A total of 27 bow sprin			ing with joint 1 to join	t 160. Ran a total of 54 i	igid spiral centralizers	. Ran bow spring ce	entralizers from joint 164 to joint 20
on every lourar joint.	A War Or 21 DOW Sprin	g contrainzers	Wole full.			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	office of C	n and Gas
WAS WELL	COMPLETED	AS SHO	T HOLE 🛚	Yes A No	DETAILS			18 (317
WAS WELL	COMPLETED	OPEN H	OLE? □ Ye	es 🖪 No	DETAILS _		WV Del	partment of ental Protection
WEDETDAC	EDC LICED -	Voc.	No TV	DE OE TRAC	ED(C) HEED	E	HALLOTA	

WERE TRACERS USED □ Yes ■ No TYPE OF TRACER(S) USED ____

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1 agc		O1	

API 4	47- 103 - 03012	Farm name Erlewine, Richard	Well number_#2H
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PERFORATION RECORD

Perforation date	MD ft.	MD ft.	Perforations	Formation(s)
·				
		,		
	·			
-				
			····	
		,		

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		
								
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						_		
						1		<u> </u>
							RECEIVI e of Oil 8	ED
	-					O (E) o	of Oil 8	nd Gas
						Office		
							MAR 1 3	2017
			_			\square w	v Depart	ment of
Please	insert addition	onal pages as ap	plicable.			Envir	onmenta	ment of Protection

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API 47- 103	_ 03012	Farm	_{name_} Erlewine	e, Richard	1	Well n	umber_#2H	
PRODUCING I	FORMATION(<u>S)</u>	<u>DEPTHS</u>					
Not Yet Comple	ted			TVD		MD		
		_		_				
Please insert ad	ditional pages a	as applicable.						
			□ Open Flow		OIL TEST 🗆 I	Flow 🗆	Pump	
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole	psi	DURAT	ION OF TEST _	hrs
OPEN FLOW	Gas mef	Oil pd	NGL bpd	_ bpd _		GAS M □ Estim	EASURED BY	□ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN MD	FT DESCRIBE I		E AND RECORD QUA	
	0		0					
See Attached Sheet								
			-					
								-
Please insert ad	ditional pages a	is applicable.						
			Drilling /horizon	ital)				
Address 2034 M	lartins Branch Rd	9303 New Trails	Drilling (horizon Drive City		ris / The Woodland	ds_State	PA / TX Zip 2531	2 / 77381
Logging Compa	Scientific D	rilling and Schlu	ımberger					
	any Golernine B sta Drive / 1178 US		City	Charleroi /	Weston	State	PA / WV Zip 1502	22 / 26452
Cementing Con	Schlumb	erger						
Address 1178 U	S HWY 33 East	cigoi	City	Weston		State	WV Zip 2645	VED -
						_	RECE	VED
Stimulating Co	mpany		C'		_	C	Office of O	land Gas
Address	ditional pages a	as annlicable	City			_ State	ZIP	2017
		ь аррпсаон.					MAR 1	3 2011
Completed by	Greg Zofchak				Telephone	304-225-	-1600	retment of
Signature	Dy 31	n	Title D	rilling Engine	eer		Date 2/15/17 Depa	tal Protection
Submittal of Hy	ydraulic Fractur	ing Chemical l	Disclosure Info	rmation	Attach copy o	f FRACF	OCUS Registry	

Erlewine #2H API 47-103-03012

Stone Energy Corporation

	300110	Horizontal		1011		
	Тор	Тор		Bottom (ft	Bottom	
	(ft TVD)	(ft MD)		TVD)	(ft MD)	
Sandstone & Shale	Surface		*	374		FW @ 105'
Coal	374		*	378		
Sandstone & Shale	378		*	444		
Coal	444			446		
Sandstone & Shale	446			644		
Coal	644			646		
Sandstone & Shale	646			2,014		SW @ 1,668'
Little Lime	2,014		*	2,044		
Big Lime	2,044		*	2,144		
Big Injun	2,144		*	2,244		
Sandstone & Shale	2,244		*	2,612		
Berea Sandstone	2,612		*	2,642		
Shale	2,642		*	2,857		
Gordon	2,857		*	2,907		
Undiff Devonian Shale	2,907		*	5,571	5,603	
Rhinestreet	5,571	5,603	~	6,177	6,247	
Cashaqua	6,177	6,247	~	6,346	6,850	
Middlesex	6,346	6,850	~	6,362	6,896	
West River	6,362	6,896	~	6,429	7,051	
Geneseo	6,429	7,051	~	6,433	7,093	
Tully Limestone	6,433	7,093	~	6,476	7,223	
Hamilton Shale	6,476	7,223	~	6,520	7,412	
Marcellus	6,520	7,412	~	6,655	12,510	
TD				6,655	12,510	

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

[~] From MWD Gamma Log