06/02/2017

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

API 47 - 103 _ 03000	County Wetzel	Dis	trict Proctor	
Quad New Martinsville	Pad Name Erlew		ld/Pool Name Mary	
Farm name Erlewine, Richard		We	ell Number #7H	
Operator (as registered with the OOG)	Stone Energy Cor	poration		
Address 1300 Fort Pierpont Dr \$	Suite 201 City Moi	rgantown	State WV	Zip 26508
As Drilled location NAD 83/UTM Top hole	Attach an as-drille Northing 4,392,661	d plat, profile view, and de Easting	eviation survey	1 3 2017
	Northing 4,393,087	Easting	517,604 MAK	13
Bottom Hole	Northing 4,394,209	Easting	517,206	nartmort of
Elevation (ft) 1,212 GL	Type of Well	■New □ Existing	Type of Report Unit	erim di Pinal
Permit Type Deviated Ho	orizontal 📕 Horizon	tal 6A D Vertical	Depth Type 🗆 I	Deep 🗂 Shallow
Type of Operation □ Convert □ D	eepen 🏚 Drill 🗆	Plug Back Redrilling	g □ Rework St	imulate
Well Type □ Brine Disposal □ CBM	■ Gas □ Oil □ Sec	condary Recovery Solution	ion Mining Storage	🗆 Other
Type of Completion ■ Single □ Mul	tiple Fluids Produ	ced □ Brine □Gas □	□ NGL □ Oil □ Ot	her
Drilled with □ Cable ■ Rotary				
Drilling Media Surface hole Air	□ Mud ■Fresh Wa	ter Intermediate hole	e ■Air □Mud ■F	resh Water □ Brine
Production hole Air Mud	Fresh Water Brine	3		
Mud Type(s) and Additive(s) Saturated salt mud which include	s Caustic Soda, Ba	rite, Lime, New-Drill, Pe	erma-Lose HT, Xan-f	Plex D, X-Cide 102,
Soda Ash, and Sodium Chloride				4114
Date permit issued 7/9/2014	Data Lilli	menced 8/6/2014	B / 1300	12/5/2014
NI Date permit issued	Date drilling common Yet Completed	neneed	_ Date drilling ceased	1
		Date completion activitie		ompleted
Verbal plugging (Y/N) N I	Date permission granted		Granted by	-
Please note: Operator is required to su	bmit a plugging applic	ation within 5 days of verba	al permission to plug	
Freshwater depth(s) ft	105	Open mine(s) (Y/N) deptl	hs	N
	671	Void(s) encountered (Y/N		N
Coal depth(s) ft 374, 444, 644, 7	69, 868 and 999	Cavern(s) encountered (Y		N
Is coal being mined in area (Y/N)	PPR	OVED		Reviewed by:
NA DA	ME: Der ~ TE: 5-25-1	B		06/02/20

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API 47- 103	03000	Farm na	ame_E	rlewine, Ric	hard		Wel	ll numbe	_{r_} #7H		
CASING STRINGS	Hole Size	Casing Size	D		ew or Ised	Grade wt/ft		Basket Depth(s)			ent circulate (Y/N) le details below*
Conductor	24"	20"			New		941 ppf	Depuis		110410	N - GTS
Surface	17.5"	13.375"			New	 	J55 - 54.5 ppf		195'		Y-CTS
Coal		13.375"				 					Y-CTS
Intermediate 1	17.5"				New	J55 - 54.5 ppf		115' &	195		
Intermediate 2	12.25"	9.625"	2,	383'	New	J55 -	J55 - 36 ppf				Y - CTS
Intermediate 3											
Production											
	8.75"	5.5"	11	,324'	New	P110	- 20 ppf			N - TOC	@ 1,265' Calculated
Tubing								-			·
Packer type and de	eptn set		_								
Comment Details suface on the 5.5° c	Circulated 30 bbls cemerasing string. TOC on 5.5°		-	asing string. Circu	ated 16 bt	ols cement to	surface on the	9.625" cas	sing string. [Did not ci	rculate any cement to
CEMENT DATA	Class/Type of Cement	Numbe of Sack		Slurry wt (ppg)		Yield (ft ³ /sks)			Cement Top (MD		WOC (hrs)
Conductor	Type 1	34		15.6	•	1.18	40	_	Surface	,	24.0
Surface	HalCem Class "A"	910		15.6	<u> </u>	1.18	1,074		Surface		8.0
Coal	HalCem Class "A"	910		15.6	ļ	1.18	1,074		Surface		8.0
Intermediate 1	HalCem Class "A"	790	30 15.6		·	1.21	956 Surfa		Surface	;	12.0
Intermediate 2											
Intermediate 3											
Production	Lead-TunedSpacer3 Tail-VanCer	Lead-178 Ta	_ead-178 Tail-2,100 Lea		Tail-15.2 Lead-2.37 Tail-12		2,541	1,2	265' Calcu	ulated	7.0
Tubing					İ					1	
Deepest forma) 11,354 MD / 6,534 TVD tion penetrated Mar cedure	cellus Shale				D (ft) <u>N/A</u> to (ft)					
Kick off depth Check all wire	(ft) 5,708 MD / 5,682 TV	caliper			deviat	ed/directi a rav		inductio tempera		□sonic	
Well cored □ Yes ■ No Conventional Sidewall Were cuttings collected ■ Yes □ No											
joints 2, 5, B, 11, 14, 17, 2	HE CENTRALIZE 10, 23 and 26. Intermediate casing d rigid spiral centralizers place	had bow spring centra	lizers placed	d on jaints 4, 8, 12, 16, 2), 24, 28 and	32.					
	A total of 7 bow spring centr		Dayiii	g wier jourt 1 to joi			-And ohires results	meors, Refi	our spring C	ermanzere	mora juint 209 to joint 257
WAS WELL (COMPLETED AS	SHOT HOLE	E 0	Yes B No	DI	ETAILS					
WAS WELL (COMPLETED OPE	N HOLE?	□ Ye	es 🖪 No	DET	AILS _					

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

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API	47- 103	03000	Farm name	Erlewine, Richard	_Well number
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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	·				
<u> </u>					

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)
					1011 (101)	110ppuin (100)	11 1101 (0013)	ranagene curer (unita)
						-		
					i			
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Please insert additional pages as applicable.

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API 47- 103	_ 03000	Farm	_{name} Erlewine	e, Richar	d	Well number_#7H	
PRODUCING FORMATION(S) Not Yet Completed		<u>DEPTHS</u>			MD		
	Iditional pages a		□ Open Flow	_	OIL TEST 🗅	Flow 🗆 Pump	
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole	psi	DURATION OF TEST _	hrs
OPEN FLOW	Gas mef	Oil pd	NGL bpd		Water bpd	GAS MEASURED BY □ Estimated □ Orifice	□ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOI DEPTH IN MD	FT DESCRIBE	ROCK TYPE AND RECORD QU LUID (FRESHWATER, BRINE, C	
See Attached Sheet	0		0				
							100
DI	ditional pages a	P 11					
Drilling Contra	ctor Nomac (top lartins Branch Rd /	o-hole) & Saxon			rris / The Woodlan	ds State PA/TX Zip 253	12 / 77381
	any Scientific Dr			0 1		Da (Ma) - 450	22 / 22 / 52
	sta Drive / 1178 US		City	Charleroi	/ Weston	State PA/WV Zip 1500	22 / 26452
Cementing Con Address 1178 U	npany Schlumbers HWY 33 East	erger	City	Weston		State _WVZip _264	52
Stimulating Co	mpany				_		
Address Please insert ad	ditional pages a	s applicable.	City	_		StateZip	
Completed by					Telephone	304-225-1600	
Signature	Dry Boll	M.	Title D	rilling Engin	eer	Date 2/16/17	
Submittal of Hy	ydraulic Fracturi	ing Chemical I	Disclosure Info	rmation	Attach copy o	f FRACFOCUS Registry	

Erlewine #7H API 47-103-03000

Stone Energy Corporation

	Top	•		Bottom (ft	Bottom	
	(ft TVD)	(ft MD)	*	TVD)	(ft MD)	FW @ 10F!
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		*	769		
Coal	769		*	775		
Sandstone & Shale	775		*	868		
Coal	868		*	871		
Sandstone & Shale	871		*	999		
Coal	999		*	1,003		
Sandstone & Shale	1,003		*	2,022		SW @ 1,671'
Little Lime	2,022		*	2,052		
Big Lime	2,052		*	2,152		
Big Injun	2,152		*	2,252		
Sandstone & Shale	2,252		*	2,620		
Berea Sandstone	2,620		*	2,650		
Shale	2,650		*	2,865		
Gordon	2,865		*	2,915		
Undiff Devonian Shale	2,915		*	5,664	5,690	
Rhinestreet	5,664	5,690	~	6,102	6,174	
Cashaqua	6,102	6,174	~	6,344	6,567	
Middlesex	6,344	6,567	~	6,372	6,607	
West River	6,372	6,607	~	6,427	6,730	
Geneseo	6,427	6,730	~	6,442	6,766	
Tully Limestone	6,442	6,766	~	6,483	6,887	
Hamilton Shale	6,483	6,887	~	6,524	7,108	
Marcellus	6,524	7,108	~	6,534	11,354	
TD				6,534	11,354	

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

[~] From MWD Gamma Log