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 _ 02	792 County We	etzel	District Magnolia				
Quad New Martinsville	Pad Name		Field/Pool Name Mary				
Farm name Smith, Sonny a			Well Number #4H				
Operator (as registered with t	he OOG) Stone Energy	y Corporation					
Address 1300 Fort Pierpo	nt Dr Suite 201 City	y Morgantown	State WV	Zip 26508			
As Drilled location NAD 8			ew, and deviation survey Easting 516,225				
Landing Point of Cu	rve Northing 4,388,08	32	Easting 516,401				
Bottom He	ole Northing 4,386,12	28	Easting 517,065				
Permit Type □ Deviated Type of Operation □ Convert Well Type □ Brine Disposal Type of Completion ■ Single Drilled with □ Cable ■ H Drilling Media Surface hole Production hole ■ Air ■ Mud Type(s) and Additive(s Saturated salt mud which	rt □ Deepen □ Drill □ CBM ■ Gas □ Oil le □ Multiple Fluids Rotary e ■ Air □ Mud ■Fre	□ Secondary Recovery Produced □ Brine esh Water Interme	Redrilling Rework Solution Mining Sto	Other			
Soda Ash, and Sodium (,,,,,,,,,,		- Guar			
Date permit issued 10/12/12 Date completion activities be Verbal plugging (Y/N)	2 & 5/7/14 Date drilling	g commenced10/24 eted Date completion granted	on activities ceased Not				
Please note: Operator is requ	iired to submit a plugging	application within 5 da	ys of verbal permission to p	lug			
Freshwater depth(s) ft	100	Open mine(s) (Y/N) depths	N			
Salt water depth(s) ft	2,471		itered (Y/N) depths	N			
Coal depth(s) ft	1,146		untered (Y/N) depths	N			
Is coal being mined in area	PPR	OWE		Reviewed by:			

NAME: 9 - n he

DATE: 5-25-17

Rev. 8/23/13													
API 47- 103	02792		Farm na	me_S	mith, So	nny	and C	harlotte	•w	ell nu	mber <u>#4</u> F	1	
CASING STRINGS	Hole Size	Casi Size	_	D	epth		w or sed	Grade wt/ft		Basket Depth(s)		Did cement circulate (Y/N) * Provide details below*	
Conductor	24"	2	20"	ç	90'		lew	LS - 9	94.1 ppf				N - GTS
Surface	17.5"	13.	.375"	1,323' KB	- 1,308' GL	N	lew	J55 -	J55 - 54.5 ppf		1' & 201'		Y - CTS
Coal	17.5"	13.	.375"	1,323' KB	- 1,308' GL	N	lew	J55 -	54.5 ppf	12	1' & 201'		Y - CTS
Intermediate 1	12.25"	9.6	625"	2,	502'	N	lew	J55 -	- 36 ppf				Y-CTS
Intermediate 2													
Intermediate 3													
Production	8.75"	5	5.5*	12	,022'	١	lew	P110	- 20 ppf			N - TO	C @ 906' Calculated
Tubing										j			
Packer type and de	epth set	TAM CA	AP Packer	Set @	1,228' On	The 9	9.625" C	asing Stri	ing				
CEMENT	asing string. TOC or	n 5.5" Calcu	ulated to be @	906'.	Slurry	,	Y	ield	Volum	ne	Ceme	nt	5 bbls TunedSpacer to
DATA Conductor	of Cement		of Sack	s	wt (ppg	g)		³/sks)	(ft. ²)	<u>!</u>	Top (M		(hrs)
Surface	Type 1 Class "A"		34		15.6 15.6			.18	1,17		Surfa Surfa		24.0 8.0
Coal	Class A Class "A"		987 987		15.6		1.19						8.0
Intermediate 1	Lead-10% Salt Tail-0	_	ead-502 T	oil 217					.,		Surfa Surfa		12.0
Intermediate 2	Leau-10% Sail Tail-C	HASS A L	eau-502 1	all-3 /	Leau-13.4 1a	311 13.0	Leau-1.2	0 Tail-1.21	Leau-043 T	asro/ r	- Julia		12.0
Intermediate 3									-			-	
Production	Load-TunedSpacer3 Tail	-VariCom Le	ead-178 Ta	il-2 340	Lead- 14.5 Ta	ail-15.2	Lead-2.3	7 Tail-1 20	Lead-422 Ta	il-2.808	906 Calc	ulated	7.0
Tubing				2,010				., ,					
Drillers TD (ft Deepest forma Plug back pro	tion penetrated							D (ft) <u>N/A</u> to (ft)					
Kick off depth	(ft) 6,095 MD / 6,0	055' TVD											
Check all wire	line logs run		□ caliper □ neutron		ensity esistivity		deviate gamma	ed/directi a ray		indu temp	ction perature	□soni	c
Well cored	Yes 🖪 No		Conventi	onal	Sidev	vall		W	ere cuttin	ıgs co	llected =	Yes o	□ No
	HE CENTRAI nd 25. Intermediate casin						CH CA	ASING S	TRING	Surface	casing had bo	w spring co	entralizers placed on
				oint begin	ning with joint 1	1 to join	t 216. Rar	a total of 55	rigid spiral cen	tralizers.	Ran bow sprin	g centralize	s from joint 224 to joint 264
on every eighth joint.	A total of 6 bow sprin	g centralize	rs were run.										
WAS WELL	COMPLETED	AS SHO	OT HOLI	E 0	Yes 🛔	No	DE	ETAILS					
WAS WELL	COMPLETED	OPEN I	HOLE?	□ Ye	es 🚇 No	0	DET	AILS _					
WERE TRAC	ERS USED	□ Yes	■ No	TY	PE OF TE	RACI	ER(S) U	USED _					

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_{API 47-} 103 ₋ 02792	Farm name Smith, Sonny and Charlotte	Well number #4H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	-				
		annang,			

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

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)
							
-							
							
		Date Rate (BPM)	Date Rate (BPM) Pressure (PSI)	Date Rate (BPM) Pressure (PSI) Pressure (PSI)	Date Rate (BPM) Pressure (PSI) Pressure (PSI) ISIP (PSI)	Date Rate (BPM) Pressure (PSI) Pressure (PSI) ISIP (PSI) Proppant (lbs)	Date Rate (BPM) Pressure (PSI) Pressure (PSI) ISIP (PSI) Proppant (lbs) Water (bbls)

Please insert additional pages as applicable.

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API 47- 103	02792	Farm	name Smith, S	onny and	Charlotte	Well number	#4H	
PRODUCING I		<u>S)</u>	<u>DEPTHS</u>	_TVD		MD		
				_		_		
Please insert ad	ditional pages a	us applicable.		-		_		
GAS TEST	□ Build up □	Drawdown	□ Open Flow		OIL TEST 🗆	Flow Pump		
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole	psi	DURATION O	F TEST	hrs
OPEN FLOW	Gas met	Oil pd	NGL opd	_ bpd _		GAS MEASUI Estimated		□ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN I MD	T DESCRIBE	ROCK TYPE AND F LUID (FRESHWATE		
0 10 10 1	0		0					
See Attached Sheet								
Please insert ad								
	ctor Nomac (top					DA /T	. 05040	/77004
Address 2034 N	fartins Branch Rd	/9303 New Trails	Drive City	Mount Morr	ris / The Woodlan	State PA/TX	Zip 25312	177381
	any Scientific D		mberger					
Address 124 Vis	sta Drive / 1178 US	S HWY 33 East	City	Charleroi /	Weston	State PA/W	✓ Zip 15022	/ 26452
Cementing Cor	npany Schlumb	erger						
Address 1178 U			City	Weston		State _WV	_ Zip <u>26452</u>	
Stimulating Co	mpany							
Address			City			State	Zip	
Please insert ad	lditional pages a	as applicable.						
Completed by	Greg Zofchak				Telephone	304-225-1600		
Signature	Dry Bu	we	Title D	rilling Engine	er	Date _2/	14/17	
Submittal of Hy	ydraulic Fractur	ing Chemical I	Disclosure Info	rmation	Attach copy	of FRACFOCUS	Registry	
Submittal Of IT	yaraune Fractur	ing Chemical	Placiosule IIIIO	manon	Tittach copy (i i i i i i i i i i i i i i i i i i i	regiatry	

Smith #4H API 47-103-02792 Stone Energy Corporation

Horizontal

	Тор	Тор		Bottom (ft	Bottom	
	(ft TVD)	(ft MD)		TVD)	(ft MD)	
Sandstone & Shale	Surface		*	1,146		FW @ 100
Coal	1,146		*	1,148		
Sandstone & Shale	1,148		*	2,163		
Little Lime	2,163		*	2,193		SW @ 2,471
Big Lime	2,193		*	2,293		
Big Injun	2,293		*	2,393		
Sandstone & Shale	2,393		*	2,762		
Berea Sandstone	2,762		*	2,795		
Shale	2,795		*	2,986		
Gordon	2,983		*	3,033		
Undiff Devonian Shale	3,033		*	5,771	5,810	
Rhinestreet	5,771	5,810	~	6,501	6,604	
Cashaqua	6,501	6,604	~	6,661	6,841	
Middlesex	6,661	6,841	~	6,690	6,891	
West River	6,690	6,891	~	6,748	7,007	
Geneseo	6,748	7,007	~	6,764	7,039	
Tully Limestone	6,764	7,039	~	6,805	7,142	
Hamilton Shale	6,805	7,142	~	6,848	7,302	
Marcellus	6,848	7,302	~	6,899	12,030	
TD				6,899	12,030	

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

[~] From MWD Gamma Log