

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 13 2017

WV Department of  
Environmental Protection

API 47 - 103 - 02907 County Wetzel District Magnolia  
Quad New Martinsville Pad Name Smith Field/Pool Name Mary  
Farm name Smith, Sonny and Charlotte Well Number #5H  
Operator (as registered with the OOG) Stone Energy Corporation  
Address 1300 Fort Pierpont Dr. - Suite 201 City Morgantown State WV Zip 26508

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,388,548 Easting 516,233  
Landing Point of Curve Northing 4,388,812 Easting 516,038  
Bottom Hole Northing 4,389,575 Easting 515,585

Elevation (ft) 1,321 GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  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

Date permit issued 7/31/2013 Date drilling commenced 10/24/2013 Date drilling ceased 7/2/2014  
Date completion activities began Not Yet Completed Date completion activities ceased Not Yet Completed  
Verbal plugging (Y/N) N Date permission granted \_\_\_\_\_ Granted by \_\_\_\_\_

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 100 Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 2,185 Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 1,017 Cavern(s) encountered (Y/N) depths N

Is coal being mined in area (Y/N) N

**APPROVED**

NAME: Sen A. H...  
DATE: 5-25-17

Reviewed by:

D.H.

06/02/2017

API 47-103 - 02907 Farm name Smith, Sonny and Charlotte Well number #5H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	24"	20"	95'	New	LS - 94 ppf		N - GTS
Surface	17.5"	13.375"	1,319' KB - 1,304' GL	New	J55 - 54.5 ppf	117' & 193'	Y - CTS
Coal	17.5"	13.375"	1,319' KB - 1,304' GL	New	J55 - 54.5 ppf	117' & 193'	Y - CTS
Intermediate 1	12.25"	9.625"	2,552'	New	J55 - 36 ppf		Y - CTS
Intermediate 2							
Intermediate 3							
Production	8.75"	5.5"	10,136'	New	P110 - 20 ppf		N - TOC @ 1,537' Calculated
Tubing							
Packer type and depth set		TAM CAP Inflatable Packer On 9.625" Casing String @ 1,186'					

Comment Details Circulated 39 bbls cement to surface on 13.375" casing string. Circulated 25 bbls cement to surface on the 9.625" casing string. Circulated 25 bbls TunedSpacer to surface on the 5.5" casing string. TOC on 5.5" calculated to be @ 1,537'.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Type 1	34	15.6	1.18	40	Surface	24.0
Surface	Class "A"	1,020	15.6	1.20	1,224	Surface	8.0
Coal	Class "A"	1,020	15.6	1.20	1,224	Surface	8.0
Intermediate 1	Lead-10% Salt Tail-Class "A"	Lead-510 Tail-320	Lead-15.4 Tail 15.6	Lead-1.28 Tail-1.19	Lead-653 Tail-381	Surface	12.0
Intermediate 2							
Intermediate 3							
Production	Lead-TunedSpacer3 Tail-VanCom	Lead-178 Tail-1,810	Lead- 14.5 Tail-15.2	Lead-2.37 Tail-1.20	Lead-422 Tail-2,172	1,537 Calculated	7.0
Tubing							

Drillers TD (ft) 10,157 MD / 6,738 TVD Loggers TD (ft) N/A

Deepest formation penetrated Marcellus Shale Plug back to (ft) \_\_\_\_\_

Plug back procedure \_\_\_\_\_

Kick off depth (ft) 6,088 MD / 6,069' TVD

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING Surface casing had bow spring centralizers placed on joints 4, 8, 12, 16, 20, 24, 28 and 30. Intermediate casing had bow spring centralizers placed on joints 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 35, 38, 41, 44, 47, 50, 53, 56, 59 and 62. Production casing had rigid spiral centralizers placed on every fourth joint beginning with joint 1 to joint 96. Ran a total of 25 rigid spiral centralizers. Ran bow spring centralizers from joint 100 to joint 229 on every third joint. A total of 44 bow spring centralizers were run.

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of 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)

Please insert additional pages as applicable.

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Not Yet Completed	TVD	MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface \_\_\_\_\_ psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST \_\_\_\_\_ hrs

OPEN FLOW Gas \_\_\_\_\_ mcfpd Oil \_\_\_\_\_ bpd 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	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	0		0		
See Attached Sheet					

Please insert additional pages as applicable.

Drilling Contractor Nomac (top-hole) & Saxon Drilling (horizontal)  
Address 2034 Martins Branch Rd /9303 New Trails Drive City Mount Morris / The Woodlands State PA / TX Zip 25312 / 77381

Logging Company Scientific Drilling and Schlumberger  
Address 124 Vista Drive / 1178 US HWY 33 East City Charleroi / Weston State PA / WV Zip 15022 / 26452

Cementing Company Schlumberger  
Address 1178 US HWY 33 East City Weston State WV Zip 26452

Stimulating Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Please insert additional pages as applicable.

Completed by Greg Zofchak Telephone 304-225-1600  
Signature  Title Drilling Engineer Date 2/14/17

Submission of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

Smith #5H  
 API 47-103-02907  
 Stone Energy Corporation

	Horizontal		Bottom (ft TVD)	Bottom (ft MD)	
	Top (ft TVD)	Top (ft MD)			
Sandstone & Shale	Surface		*	1,017	FW @ 100
Coal	1,017		*	1,020	
Sandstone & Shale	1,020		*	2,163	
Little Lime	2,163		*	2,193	SW @ 2,185
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		*	5,205	5,216
Rhinestreet	5,205	5,216	~	6,485	6,537
Cashaqua	6,485	6,537	~	6,622	6,718
Middlesex	6,622	6,718	~	6,641	6,746
West River	6,641	6,746	~	6,699	6,847
Geneseo	6,699	6,847	~	6,712	6,872
Tully Limestone	6,712	6,872	~	6,748	6,951
Hamilton Shale	6,748	6,951	~	6,783	7,069
Marcellus	6,783	7,069	~	6,738	10,157
TD				6,738	10,157

\* From Pilot Hole Log and Driller's Log

~ From MWD Gamma Log