

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

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Office of Oil and Gas
MAR 13 2017

WV Department of
Environmental Protection
Magnolia

API 47 - 103 - 02905 County Wetzel District Magnolia
Quad New Martinsville Pad Name Smith Field/Pool Name Mary
Farm name Smith, Sonny and Charlotte Well Number #3H
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 516,226
Landing Point of Curve Northing 4,388,694 Easting 515,832
Bottom Hole Northing 4,389,588 Easting 515,321

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 11/17/2013 Date drilling ceased 7/28/2014
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 2,183 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1,018 Cavern(s) encountered (Y/N) depths N

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

APPROVED

NAME: [Signature]
DATE: 5-25-17

Reviewed by:

[Signature]

06/02/2017

APPROVED

NAME:

DATE:

06/02/2017

API 47-103 - 02905 Farm name Smith, Sonny and Charlotte Well number #3H

Table with columns: CASING STRINGS, Hole Size, Casing Size, Depth, New or Used, Grade w/ft, Basket Depth(s), Did cement circulate (Y/ N) * Provide details below*. Rows include Conductor, Surface, Coal, Intermediate 1-3, Production, Tubing, and Packer type and depth set.

Comment Details Circulated 14 bbls cement to surface on 13.375" casing string. Circulated 9 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" @ 1,493' calculated.

Table with columns: CEMENT DATA, Class/Type of Cement, Number of Sacks, Slurry wt (ppg), Yield (ft^3/sks), Volume (ft^3), Cement Top (MD), WOC (hrs). Rows include Conductor, Surface, Coal, Intermediate 1-3, Production, Tubing.

Drillers TD (ft) 10,782 MD / 6,701 TVD Loggers TD (ft) N/A
Deepest formation penetrated Marcellus Shale Plug back to (ft)
Plug back procedure

Kick off depth (ft) 6,060 MD / 6,013' TVD

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

Well cored [] Yes [x] No Conventional Sidewall Were cuttings collected [x] Yes [] No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING Surface casing had bow spring centralizers placed on joints 28 and 30. Intermediate casing had bow spring centralizers placed on joints 4, 8, 12, 16, 20, 24, 28, 32, 37, 41, 45, 49, 53 and 57. Production casing had rigid spiral centralizers placed on every fourth joint beginning with joint 1 to joint 188. Ran a total of 48 rigid spiral centralizers. Ran bow spring centralizers from joint 196 to joint 244 on every eighth joint. A total of 7 bow spring centralizers were run.

WAS WELL COMPLETED AS SHOT HOLE [] Yes [x] No DETAILS

WAS WELL COMPLETED OPEN HOLE? [] Yes [x] No DETAILS

WERE TRACERS USED [] Yes [x] 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.

06/02/2017

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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 ₂ 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

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

06/02/2017

Smith #3H
API 47-103-02905
Stone Energy Corporation

	Horizontal				
	Top (ft TVD)	Top (ft MD)	Bottom (ft TVD)	Bottom (ft MD)	
Sandstone & Shale	Surface		*	1,018	FW @ 100
Coal	1,018		*	1,020	
Sandstone & Shale	1,020		*	2,163	
Little Lime	2,163		*	2,193	SW @ 2,183
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		*	5,773	5,808
Rhinestreet	5,773	5,808	~	6,481	6,595
Cashaqua	6,481	6,595	~	6,611	6,783
Middlesex	6,611	6,783	~	6,632	6,818
West River	6,632	6,818	~	6,686	6,911
Geneseo	6,686	6,911	~	6,699	6,941
Tully Limestone	6,699	6,941	~	6,734	7,030
Hamilton Shale	6,734	7,030	~	6,768	7,177
Marcellus	6,768	7,177	~	6,701	10,782
TD				6,701	10,782

* From Pilot Hole Log and Driller's Log

~ From MWD Gamma Log