

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

API 47 - 103 - 02925 County Wetzel District Green
 Quad Porters Falls Pad Name Martin Field/Pool Name Mary
 Farm name Martin, Charles and Gwendo Well Number #7H 519180
 Operator (as registered with the OOG) EQT Production Company
 Address 625 Liberty Avenue, Suite 1700 City Pittsburgh State PA Zip 15222

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
 Top hole Northing 4,384,799.997 Easting 520,087.638
 Landing Point of Curve Northing 4,385,202.345 Easting 520,072.631
 Bottom Hole Northing 4,386,470.124 Easting 519,225.789

Elevation (ft) 906 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 9/30/2013 Date drilling commenced 5/29/2014 Date drilling ceased 11/4/2014
 Date completion activities began 10/10/2018 Date completion activities ceased 10/30/2018
 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 RECEIVED
Office of Oil and Gas

Freshwater depth(s) ft 100 Open mine(s) (Y/N) depths _____
 Salt water depth(s) ft None Reported Void(s) encountered (Y/N) depths _____
 Coal depth(s) ft 626, 706 and 742 Cavern(s) encountered (Y/N) depths N
 Is coal being mined in area (Y/N) N

RECEIVED
JAN 25 2019
Department of
Environmental Protection

Reviewed by:

Revieweu

DAH
2-21-19

WR-35
Rev. 8/23/13

API 47-103 - 02925 Farm name Martin, Charles and Gwendo Well number #7H 519180

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"	88'	New	LS - 94.1 ppf		N - GTS
Surface	17.5"	13.375"	899	New	J55 - 54.5 ppf	121' & 199'	Y - CTS
Coal	17.5"	13.375"	899	New	J55 - 54.5 ppf	121' & 199'	Y - CTS
Intermediate 1	12.25"	9.625"	2,235'	New	J55 - 36 ppf		Y - CTS
Intermediate 2							
Intermediate 3							
Production	8.75"	5.5"	12,207'	New	P110 - 20 ppf		N - TOC @ 1,138' Calculated
Tubing							
Packer type and depth set		TAM CAP Inflatable Packer on 9.625" Casing String @ 765'					

Comment Details Circulated 21 bbls cement to surface on 13.375" casing string. Circulated 35 bbls cement to surface on the 9.625" casing string. Did not circulate any cement to surface on the 5.5" casing string. TOC on 5.5" calculated to be @ 1,138'.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Type 1	34	15.6	1.18	40	Surface	24.0
Surface	HalCem Class "A"	670	15.6	1.21	811	Surface	8.0
Coal	HalCem Class "A"	670	15.6	1.21	811	Surface	8.0
Intermediate 1	Lead-HalCem Tail-HalCem	Lead-400 Tail-400	Lead-15.6 Tail-15.6	Lead-1.24 Tail-1.21	Lead-496 Tail-484	Surface	12.0
Intermediate 2							
Intermediate 3							
Production	Lead-TunedSpacer3 Tail-VanCem	Lead-279 Tail-2,330	Lead-14.5 Tail-15.2	Lead-1.51 Tail-1.20	Lead-421 Tail-2,798	1,138' Calculated	7.0
Tubing							

Drillers TD (ft) 12,213 MD / 6,500 TVD Loggers TD (ft) N/A

Deepest formation penetrated Marcellus Shale Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) 5,760 MD / 5,738 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 and 20. Intermediate casing had bow spring centralizers placed on joints 4, 8, 12, 16, 20, 24, 28 and 32.

Production casing had rigid spiral centralizers placed on every fourth joint beginning with joint 7 to joint 147. Ran a total of 38 rigid spiral centralizers. Ran bow spring centralizers from joint 152 to joint 232 on every fifth joint. A total of 17 bow spring centralizers were run.

RECEIVED
Office of Oil and Gas
WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS JAN 25 2019

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS WV Department of Environmental Protection

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

WR-35
Rev. 8/23/13

API 47-103 - 02925 Farm name Martin, Charles and Gwendo Well number #7H 519180

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					Please See Attached

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 See Attached

RECEIVED
Office of Oil and Gas
JAN 25 2019

Please insert additional pages as applicable.

WR-35
Rev. 8/23/13

API 47- 103 - 02925 Farm name Martin, Charles and Gwendo Well number #7H 519180

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>MARCELLUS</u>	<u>6,582'</u> TVD	<u>6,955'</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1,500 psi Bottom Hole N/A psi DURATION OF TEST 429.5 hrs

OPEN FLOW Gas 11,093 mcfpd Oil N/A bpd NGL 595.6 bpd Water 1,795.2 bpd GAS MEASURED BY Estimated Orifice Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u>
	<u>DEPTH IN FT NAME TVD</u>	<u>DEPTH IN FT TVD</u>	<u>DEPTH IN FT MD</u>	<u>DEPTH IN FT MD</u>	
	<u>0</u>		<u>0</u>		
See Attached Sheet					

Please insert additional pages as applicable.

Drilling Contractor Highlands (top-hole) & Saxon Drilling (horizontal)
Address 900 Virginia St. - East / 9303 New Trails Drive City Charleston / The Woodlands State WV / TX Zip 25301 / 77381

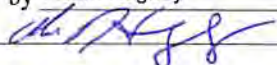
Logging Company Scientific Drilling and Schlumberger
Address 124 Vista Drive / 1178 US HWY 33 East City Charleroi / Weston State PA / WV Zip 15022 / 26452

Cementing Company Halliburton
Address 121 Champion Way, Suite 110 City Cannonsburg State PA Zip 15317

Stimulating Company ProFrac
Address 777 Main Street, Suite 3900 City Fort Worth State TX Zip 76102

RECEIVED
Office of Oil and Gas
JAN 25 2019

Please insert additional pages as applicable.

Completed by Adam Hughey Telephone (724) 579-5475 WV Department of Environmental Protection
Signature  Title Director - Completions Date 01/24/2019

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