

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

API 47 - 033 - 05408 County Harrison District Sardis  
Quad Wallace 7.5' Pad Name Coulter Field/Pool Name \_\_\_\_\_  
Farm name Jerald & Rebecca Jones Well Number 2017 Rev.  
Operator (as registered with the OOG) Waco Oil & Gas Co., Inc.  
Address P.O. Box 397 City Glenville State WV Zip 26351

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 328133 Easting 1720490  
Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Bottom Hole Northing \_\_\_\_\_ Easting \_\_\_\_\_

Elevation (ft) 1309' 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)  
\_\_\_\_\_  
\_\_\_\_\_

Date permit issued 04/19/2010 Date drilling commenced 03/03/2011 Date drilling ceased 03/18/2011  
Date completion activities began 04/29/2011 Date completion activities ceased 04/29/2011  
Verbal plugging (Y/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 118' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft None Void(s) encountered (Y/N) depths \_\_\_\_\_  
Coal depth(s) ft No Cavern(s) encountered (Y/N) depths \_\_\_\_\_  
Is coal being mined in area (Y/N) No

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**APPROVED**  
NAME: Jacqueline Thomas  
DATE: 05/27/2016

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CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Dis cement circulate (Y/ N) * Provide details below*
Conductor							
Surface	15	11 3/4	675'	N	32		Y
Coal							
Intermediate 1	11	8 5/8	2195	N	32		Y
Intermediate 2							
Intermediate 3							
Production	7 1/4	5 1/2	7571	N			
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

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							
Surface	A	300	15.6	1.2		Surface	8
Coal							
Intermediate 1	A	425	15.6	1.18		Surface	8
Intermediate 2							
Intermediate 3							
Production	50/50	600	15.6			5502	
Tubing							

Drillers TD (ft) 7570      Loggers TD (ft) 7568  
 Deepest formation penetrated \_\_\_\_\_ Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

Kick off depth (ft) \_\_\_\_\_

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 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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)
1		7548	7568	120	Marcellus

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)
1	04/29/11	82.7	3497	3910	2675	653,975	12,666	0

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>
<u>Marcellus</u>	<u>7548 - 7568</u> TVD _____ MD _____
_____	_____
_____	_____
_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 810 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 6 hrs

OPEN FLOW Gas 2,000 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)
Soil	0	10	0		Soft
Fill	10	18			Soft
Red Rock	18	260			Soft
Shale	260	860			Soft
Shale	860	1485			Grey, med
Sd & Shale	1485	1749			Grey, med
Sd & Shaie	1749	1822			Grey, med
2nd Salt Sand	1822	1875			Grey, med
Shale	1875	2044			Black, soft
3rd Salt Sand	2044	2124			Lt. grey, med
Sdy Shale	2124	2180			Black-brown, soft
Li Lime	2180	2193			Grey, med
P. Cave	2193	2213			Dk grey, soft
B. Lime	2213	2298			Grey, med

Please insert additional pages as applicable.

Drilling Contractor Waco Oil & Gas Co., Inc.  
Address P.O. Box 397 City Glenville State WV Zip 26351

Logging Company Key Wireline  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Cementing Company Universal Well Service  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Stimulating Company Universal Well Service  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Please insert additional pages as applicable.

Completed by Stephen E. Holloway Telephone 304-462-5347  
Signature  Title Land Manager Date 02/22/2016

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

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FARM NAME

Jerald & Rebecca Jones

WELL NUMBER

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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 QUANTITIES AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC.)
	0		0		
Injun	2298	2370			Mix, soft
Sd & Shale	2475	3643			Grey, soft
Speechly	3643	3721			Grey, soft
Shale	3721	4135			Grey, soft
Upper Balltown	4135	4160			Grey, soft
Shale	4160	4920			Grey, med
Lower Balltown	4920	4889			Grey, soft
Shale	4889	5147			Grey, soft
3rd Riley	5184	5243			Grey, soft
Shale	5243	5290			Grey, soft
Benson	5290	5314			Grey, med
Shale	5314	7298			Grey, soft
Upper Genesee	7298	7380			Black, soft
Tully Lime	7380	7520			Lt. Grey, med
L. Marcellus	7520	7570			Black, soft
Onondaga	7570	TD			

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