

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

API 47 - 033 - 05442 County Harrison District Sardis  
Quad Folsom 7.5' Pad Name Belknap Field/Pool Name \_\_\_\_\_  
Farm name Rhonda Dianne Smith Well Number 2025  
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 339032 Easting 1711083  
Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Bottom Hole Northing \_\_\_\_\_ Easting \_\_\_\_\_

Elevation (ft) 1402' 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 06/23/2010 Date drilling commenced \_\_\_\_\_ Date drilling ceased \_\_\_\_\_  
Date completion activities began 04/01/2011 Date completion activities ceased 04/01/2011  
Verbal plugging (Y/N) \_\_\_\_\_ Date permission granted \_\_\_\_\_ Granted by \_\_\_\_\_

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

Freshwater depth(s) ft 115 Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1510 Void(s) encountered (Y/N) depths \_\_\_\_\_  
Coal depth(s) ft 670 Cavern(s) encountered (Y/N) depths \_\_\_\_\_  
Is coal being mined in area (Y/N) No

AX WS  
05/25/14

**APPROVED**  
NAME: Joqualine H. [Signature]  
DATE: 5/12/14 05/27/2016

API 47-033 - 05442

Farm name Rhonda Dianne Smith

Well number 2025

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		16"	36	U			
Surface	13	11 3/4	808	N	32#		Yes
Coal							
Intermediate 1	11	8 5/8	2620	N			Yes
Intermediate 2							
Intermediate 3							
Production	8"	5 1/2	7674	N	N 80 32#		
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	460	15.6	1.18		Surface	
Coal							
Intermediate 1	A	475	15.6	1.18		Surface	
Intermediate 2							
Intermediate 3							
Production	A	261	15.6	1.18		6860	
Tubing							

Drillers TD (ft) <sup>7683</sup> \_\_\_\_\_

Loggers TD (ft) <sup>7679</sup> \_\_\_\_\_

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 \_\_\_\_\_

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

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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	03/28/2011	7580	7598	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	04/01/11	83.3	5119	5888	3842	815,700	88501	0

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
	TVD	MD
Marcellus	7580 - 7598	

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 960 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 6 hrs

OPEN FLOW Gas 1500 mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water \_\_\_\_\_ bpd  
 GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
Sand & Shale	0	40	0		
Shale	40	142			
Sand & Shale	142	1245			
Red Shale	1245	1380			
Shale	1380	1741			
2nd Salt Sand	1741	1951			
3rd Salt Sand	2117	2241			
Maxton	2331	2383			
Little Lime	2389	2407			
Pencil Cove	2407	2429			
Big Lime	2429	2469			
Big Injun	2469	2631			
30'	3023	3039			
50'	3165	3227			

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 Energy Services  
 Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Cementing Company Superior 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

Rhonda Dianne Smith

WELL NUMBER

2025

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		
Gordon Strey	3271	3285			
Gordon	3285	3325			
5th Sand	3325	3339			
Speechley	3739	3819			
Upper Balltown	4353	4387			
Lower Balltown	4855	4921			
3rd Riley	5321	5461			
Benson	5461	5477			
Upper Genesee	7407	7442			
Lower Genesee	7442	7484			
Tully Lime	7484	7558			
Upper Marcellus	7580	7618			
Lower Marcellus	7639	7683 TD			

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