

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

API 47-049-01607 County Marion District Lincoln  
Quad Shinnston 7.5' Pad Name Tetrick Field/Pool Name \_\_\_\_\_  
Farm name Marvin C. & Bertha Robey Well Number 1666  
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 354461 Easting 1776522  
Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Bottom Hole Northing \_\_\_\_\_ Easting \_\_\_\_\_

Elevation (ft) 1081' 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 05/06/2005 Date drilling commenced 11/01/2006 Date drilling ceased 11/06/2006  
Date completion activities began 11/15/2006 Date completion activities ceased 11/16/2006  
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 211 Open mine(s) (Y/N) depths \_\_\_\_\_ No  
Salt water depth(s) ft 1400 Void(s) encountered (Y/N) depths \_\_\_\_\_  
Coal depth(s) ft 630 2 ft Cavern(s) encountered (Y/N) depths \_\_\_\_\_  
Is coal being mined in area (Y/N) No

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**APPROVED**

NAME: Jacqueline Thornton  
DATE: 5/12/16  
05/27/2016

API 47-049 - 01607 Farm name Marvin C. & Bertha Robey Well number 1666

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							
Surface	12 1/4	9 5/8	513	New	J55 36lb	200 400	Yes
Coal							
Intermediate 1	8 3/8	7"	1647	New	J55 20lb	600 1600	Yes
Intermediate 2							
Intermediate 3							
Production	6 1/2	4 1/2	4150	New	J55 105lb	3900	
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	Sanded						
Surface	Class A	200					
Coal							
Intermediate 1	Class A	350					
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) <sup>4220</sup> \_\_\_\_\_ Loggers TD (ft) <sup>4218</sup> \_\_\_\_\_  
 Deepest formation penetrated Balltown 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 \_\_\_\_\_ **Received Office of Oil & Gas**

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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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PRODUCING FORMATION(S)	DEPTHS
Balltown	TVD 3290 - 3800 MD
Fifth & Gordon	2714 - 2777
50 ft Sand	2250 - 2440

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 740 psi Bottom Hole 740 psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 300 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
Shale	10	112			
Red Rock	112	286			
Mapletown Coal	287	293			
Pittsburgh Coal	395	403			
Red Rock	403	511			
Big Dunkard	835	951			
Salt Sand	1285	1505			
Red Rock	1505	1663			
Little Lime	1663	1675			
Pencil Cave	1675	1707			
Big Lime	1707	1767			
Big Injun	1767	2250			
50 ft Sand	2250	2440			

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 Allegheny Wireline  
Address \_\_\_\_\_ City Weston State WV Zip 26452

Cementing Company Halliburton  
Address \_\_\_\_\_ City Weston State WV Zip 26452

Stimulating Company Halliburton  
Address \_\_\_\_\_ City Weston State WV Zip 26452

Please insert additional pages as applicable.

Completed by Stephen B. 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

Marvin C. & Bertha Robey

WELL NUMBER

1666

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		
30 ft. Sand	2440	2460			
Red Rock	2460	2585			
Gordon Stray	2585	2595			
Gordon	2595	2612			
4th Sand	2612	2714			
5th Sand	2714	2777			
Speechly	2777	3290			
Balltown	3290	3800			
Bradford	3800	4095			
Riley	4120	4131			
Benson	4167	4171			
2nd Benson	4209	4220			

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