

*JK*

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

API 47-013 - 04583-PP/FRAC County Calhoun District Sheridan  
Quad Smithville Pad Name \_\_\_\_\_ Field/Pool Name \_\_\_\_\_  
Farm name Elbert, Hubert F. (Miller #24) Well Number #24  
Operator (as registered with the OOG) Buckeye Oil Producing Co.  
Address PO Box 129 City Wooster State OH Zip 44691

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4320877 Easting 489391  
Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Bottom Hole Northing \_\_\_\_\_ Easting \_\_\_\_\_

Elevation (ft) 1181 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 6-23-09 Date drilling commenced \_\_\_\_\_ Date drilling ceased \_\_\_\_\_  
Date completion activities began 7-7-09 Date completion activities ceased 12-1-09  
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 85 Open mine(s) (Y/N) depths \_\_\_\_\_  
Salt water depth(s) ft 1100 Void(s) encountered (Y/N) depths \_\_\_\_\_  
Coal depth(s) ft n/a Cavern(s) encountered (Y/N) depths \_\_\_\_\_  
Is coal being mined in area (Y/N) N

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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	11-3/4	9-5/8	252	New			Yes
Coal							
Intermediate 1	8-3/4	7"	2321	New			No
Intermediate 2							
Intermediate 3							
Production	6-1/4	4-1/2	5834	New	10.5#		No
Tubing							
Packer type and depth set							

Comment Details 8-11-09 Set solid bridge plug @ 3810. Perf @ 3140' and cmt w/156 sks 50/50 Poz mix 2% gel 10% salt. 1.29 yield.

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	Class "A"	125	15.6	1.18	147.5	-0-	24
Coal							
Intermediate 1	Class "A"	125	15.6	1.18	147.5	1350'	24
Intermediate 2							
Intermediate 3							
Production	Stronglight 250	125	12.3	2.34	292.5	3498'	72
Tubing							

Drillers TD (ft) 5864 Loggers TD (ft) 5865  
 Deepest formation penetrated Eik Plug back to (ft) 3140  
 Plug back procedure Set solid bridge plug @ 3810. Perf @ 3350 to 3352 well would not circulate. Perf well @ 3140, displaced 156 sks cmt on back side.

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	8-17-09	3002	3018	9	Gordon
1	8-17-09	2909	2961	14	Gordon
2	8-18-09	2860			Set frac plug
2	8-18-09	2817	2850	5	Gantz
2	8-18-09	2722	2783	13	Gantz

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	8-18-09	35.1	1640	2190	801	248 sks	1409	-0-
1	8-18-09	31.4	1730	2695	831	224 sks	1299	-0-

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Gordon</u>	<u>2909 - 3018</u>	<u>TVD</u>	<u>MD</u>
<u>Gantz</u>	<u>2722 - 2850</u>		

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 520 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 72 hrs

OPEN FLOW Gas 5 mcfpd Oil 2 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	
	0		0		
Sand & Shale	1900		1950		
Sand	1950		2102		
Shale	2102		2178		
Maxton	2178		2200		
Big Injun	2200		2274		
Shale	2274		2644		
Berea	2644		2647		
Shale	2647		2722		
Gantz	2722		2850		
Shale	2850		2909		
Gordon	2909		3108		

Please insert additional pages as applicable.

Drilling Contractor Warren Drilling  
Address 305 Smithson St. City Dexter City State OH Zip 45727

Logging Company Allegheny  
Address 6 Gordon Plaza City Weston State WV Zip 26452

Cementing Company Universal Well Services  
Address PO Box 2437 City Buckhannon State WV Zip 26201

Stimulating Company Universal Well Services  
Address PO Box 2437 City Buckhannon State WV Zip 26201

Please insert additional pages as applicable.

Completed by Steven W. Sigler Telephone 330-264-8847  
Signature [Signature] Title President Date 5/13/14

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Reg

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