

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

**REWORK**

API 47-<sup>013</sup>130-04743 County Calhoun District Sheridan  
Quad Grantsville 7.5 Pad Name Bennett #2H Field/Pool Name \_\_\_\_\_  
Farm name Taylor, Douglas E. & Shirley Well Number 2H  
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 724063.00 Easting 1967824.00  
Landing Point of Curve Northing 724126.40 Easting 1967205.37  
Bottom Hole Northing 724413.14 Easting 1965374.92

Elevation (ft) 1002 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)  
3% KCL

Date permit issued 6-2-2015 Date drilling commenced \_\_\_\_\_ Date drilling ceased \_\_\_\_\_  
Date completion activities began 6-6-2015 Date completion activities ceased 10-1-2015  
Verbal plugging (Y/N) \_\_\_\_\_ Date permission granted \_\_\_\_\_ Granted by \_\_\_\_\_

\*\*\*\*\* Please see page 5 of 5 for full description of the work performed.  
Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 50' Open mine(s) (Y/N) depths No  
Salt water depth(s) ft 1015' Void(s) encountered (Y/N) depths No  
Coal depth(s) ft n/a Cavern(s) encountered (Y/N) depths No  
Is coal being mined in area (Y/N) No

**APPROVED**

NAME: [Signature]  
DATE: 5-25-17

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WV Department of Environmental Protection  
Reviewed by: \_\_\_\_\_

06/02/2017

API 47- 130 - 4743 Farm name Taylor, Douglas E. & Shirley Well number 2H

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	14"	11-3/4"	40	New			N
Surface	11"	9-5/8"	334	New	26#	N	Y
Coal							
Intermediate 1	8-7/8"	7"	1677	New	20#	N	Y
Intermediate 2							
Intermediate 3							
Production	6-1/4"	4-1/2"	4598	New	11.6#		
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	Neat	5					5
Surface	Type 1 - 3% Kcl	115	15.6	1.20	138	-0-	12
Coal							
Intermediate 1	Unifill light	126	12.7	1.84	231	-0-	12
Intermediate 2	Type 1	100	15.6	1.18	118	-0-	12
Intermediate 3							
Production	n/a						
Tubing							

Drillers TD (ft) 4660' Loggers TD (ft) n/a  
 Deepest formation penetrated Berea Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

Kick off depth (ft) 1707'

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 \_\_\_\_\_  
11-3/4 - None  
 9-5/8 - 5 centralizers  
 7" - 6 centralizers

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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 used packer system, copy attached \_\_\_\_\_

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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	10-3-14	4598	4598	open end	Berea
2	10-3-14	4464	4464	6	Berea
3	10-3-14	4242	4242	6	Berea
4	10-3-14	4061	4061	6	Berea
5	10-3-14	3839	3839	6	Berea
6	10-3-14	3658	3658	6	Berea
7	10-3-14	3435	3435	6	Berea
8	10-3-14	3255	3255	6	Berea
9	10-3-14	3023	3023	6	Berea

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	10-3-14	20	1113	3100	778	17,000	487	-0-
2	10-3-14	20	1241	2800	778	17,000	389	-0-
3	10-3-14	20	1322	2700	778	17,000	433	-0-
4	10-3-14	20	1258	2400	778	17,000	452	-0-
5	10-3-14	20	1238	2400	778	17,000	441	-0-
6	10-3-14	20	1389	2300	778	17,000	434	-0-
7	10-3-14	20	1550	2500	778	17,000	452	-0-
8	10-3-14	20	1524	2300	778	17,000	455	-0-
9	10-3-14	20	1192	2200	778	19,000	488	-0-

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Please insert additional pages as applicable.

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Berea</u>	<u>2418-2447</u> TVD	<u>2585-2807</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump  
 SHUT-IN PRESSURE Surface 310 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 48 hrs  
 OPEN FLOW Gas 70 mcfpd Oil 10 bpd NGL \_\_\_\_\_ bpd Water 30 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)
	0		0		
2nd Salt Sand	1573	1664	1573	1664	
3rd Salt Sand	1719	1840	1720	1842	
Maxton	1861	1923	1862	1925	oil, gas & water (salt)
Big Injun	2000	2053	2006	2063	
Berea	2418	2447	2585	2807	oil & gas

Please insert additional pages as applicable.

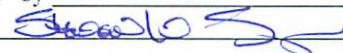
Drilling Contractor Wayco  
 Address PO Box 397 City Glenville State WV Zip 26351

Logging Company ADC  
 Address 1200 Heavy Haul Rd. City Morgantown State WV Zip 26508

Cementing Company Universal Well Services  
 Address 14 Sewer Plant Rd. City Buckhannon State WV Zip 26201

Stimulating Company Producers Services  
 Address 109 S. Graham St. City Zanesville State OH Zip 43701

Please insert additional pages as applicable.

Completed by Steven W. Sigler Telephone 330-264-8847  
 Signature  Title President Date 12-12-2016

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

API #47-130-4748

Farm Name: Taylor, Douglas & Shirley

Well Name: Bennett #2H

1. Set solid bridge plug @ 2215' in 4-1/2" casing
2. Perf 4-1/2" @ 2205' w/6 shots
3. Pumped 140 sks Type 1 cement. Stopped plug @ 2000'
4. Drilled 195' of good cement & drilled out bridge plug
5. Put well back into production

NOTE: No pits used. All brine hauled off location. Per our rework permit.

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