

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

013
+03

API 47-~~130~~-4743 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 7-23-2014 Date drilling commenced 8-8-2014 Date drilling ceased 8-22-2014
Date completion activities began 9-25-2014 Date completion activities ceased 2-25-2015
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 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

RECEIVED
Office of Oil and Gas
MAY 04 2015
Reviewed by:
WV Department of Environmental Protection AL 5/21/15
06/05/2015

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 ³ /sks)	Volume (ft ²)	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

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

RECEIVED
Office of Oil and Gas

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS used packer system, copy attached

MAY 04 2015

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

WV Department of
Environmental Protection

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

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-

RECEIVED
Office of Oil and Gas

MAY 04 2015

Please insert additional pages as applicable.

WV Department of
Environmental Protection

06/05/2015

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

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Berea	2418-2447	TVD 2585-2807 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 ₂ 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 06/04/2015

RECEIVED
 Office of Oil and Gas
 MAY 04 2015
 WV Department of
 Environmental Protection

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