

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

DATE: 8-10-2012
API #: 47-069-00094

Farm name: William Rodgers OHI 3H Operator Well No.: 833681

LOCATION: Elevation: 1270' Quadrangle: Valley Grove

District: Liberty County: Ohio
Latitude: 9000' Feet South of 40 Deg. 07 Min. 30 Sec.
Longitude 8620' Feet West of 80 Deg. 30 Min. 00 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
P.O. Box 18496 Oklahoma City, OK 73154-0496	20"	120'	120'	Driven
Agent: Eric Gillespie	13 3/8"	738'	738'	773 Cu. Ft.
Inspector: Bill Hendershot & Derek Haught	9 5/8"	2145'	2145'	887 Cu. Ft.
Date Permit Issued: 8-30-2011	5 1/2"	14966'	14966'	3896 Cu. Ft.
Date Well Work Commenced: 12-4-2011				
Date Well Work Completed: 5-16-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6580' (cement plug 5643'-6543')				
Total Measured Depth (ft): 14966'				
Fresh Water Depth (ft.): 79', 300'				
Salt Water Depth (ft.): 1189'				
Is coal being mined in area (N/Y)? Y				
Coal Depths (ft.): 664'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 6,856'-14,833'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 1,817* MCF/d Final open flow 141 Bbl/d
Time of open flow between initial and final tests 67 Hours *Calculated
Static rock Pressure 4,215* psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

8-29-2012
Date

12/07/2012

Were core samples taken? Yes _____ No

Were cuttings caught during drilling? Yes _____ No

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR, neutron, density, and resistivity
open hole logs run from 0-6580' MD; LWD GR from 5815-14966' MD.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See Attached)

Plug Back Details Including Plug Type and Depth(s): Cement plug @ 5643' - 6543'

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth
Surface: _____

(See Attached)

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES

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PERFORATION RECORD ATTACHMENT

Well Number and Name: 833681 William Rodgers OHI 3H

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated		Fluid		Propping Agent		Average Injection
	From	To		Type	Amount	Type	Amount			
4/12/2012	14,418	14,833	5/6/2012	14,418	14,833	Sik wtr	10,042	Sand	495,940	80.0
5/6/2012	13,732	14,322	5/8/2012	13,732	14,322	Sik wtr	13,838	Sand	662,480	80.0
5/8/2012	13,044	13,634	5/8/2012	13,044	13,634	Sik wtr	12,610	Sand	663,180	77.0
5/8/2012	12,357	12,946	5/8/2012	12,357	12,946	Sik wtr	12,528	Sand	665,000	77.0
5/9/2012	11,665	12,256	5/12/2012	11,665	12,256	Sik wtr	12,306	Sand	666,820	80.0
5/12/2012	10,982	11,571	5/12/2012	10,982	11,571	Sik wtr	13,390	Sand	663,420	79.0
5/12/2012	10,294	10,887	5/13/2012	10,294	10,887	Sik wtr	12,673	Sand	663,240	80.0
5/13/2012	9,606	10,195	5/13/2012	9,606	10,195	Sik wtr	12,284	Sand	663,400	80.0
5/13/2012	8,919	9,508	5/13/2012	8,919	9,508	Sik wtr	12,005	Sand	663,620	80.0
5/13/2012	8,231	8,820	5/15/2012	8,231	8,820	Sik wtr	12,567	Sand	663,560	79.0
5/15/2012	7,543	8,132	5/15/2012	7,543	8,132	Sik wtr	11,742	Sand	665,720	79.0
5/15/2012	6,856	7,445	5/16/2012	6,856	7,445	Sik wtr	11,718	Sand	664,800	79.0

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VERTICAL PILOT HOLE

Formation/Lithology	Top Depth, TVD/MD (ft)	Bottom Depth, TVD/MD (ft)
LS/SH	0	580
SS/LS	580	660
PITTSBURG COAL	660	670
LS/SH/SS	670	760
SS	760	1030
SH/SS	1030	1180
SS	1180	1780
BIG INJUN (SS)	1780	1988
SHALE	1988	6326
GENESEO (SH)	6326	6349
TULLY (LS)	6349	6381
HAMILTON (SH)	6381	6495
MARCELLUS (SH)	6495	6564
ONONDAGA (LS)	6564	
TD OF PILOT HOLE		6580

LATERAL SIDETRACK WELLBORE

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SH	0	0	580	580
SS/LS	580	580	660	660
PITTSBURG COAL	660	660	670	670
LS/SH/SS	670	670	760	760
SS	760	760	1030	1030
SH/SS	1030	1030	1180	1180
SS	1180	1180	1780	1780
BIG INJUN (SS)	1780	1780	1988	1988
SHALE	2031	2031	6347	6336
GENESEO (SH)	6347	6336	6365	6353
TULLY (LS)	6365	6353	6400	6385
HAMILTON (SH)	6400	6385	6564	6506
MARCELLUS (SH)	6564	6506		
TD OF LATERAL			14966	6429

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