

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

DATE: 9-13-2012
API #: 47-069-00084

Farm name: Roy Riggle 8H Operator Well No.: 833123

LOCATION: Elevation: 1,250' Quadrangle: Bethany, WV

District: Liberty County: Ohio
Latitude: 6,700' Feet South of 40 Deg. 10 Min. 00 Sec.
Longitude 5,540' 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"	75'	75'	263 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	655'	655'	757 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2,190'	2,190'	976 Cu. Ft.
Date Permit Issued: 5-20-2011	5 1/2"	11,472'	11,472'	2458 Cu. Ft.
Date Well Work Commenced: 7-9-2011				
Date Well Work Completed: 5-23-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6,505'(cement plug@ 5770' - 6505')				
Total Measured Depth (ft): 11,527'				
Fresh Water Depth (ft.): 150'				
Salt Water Depth (ft.): 700'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 628'				
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) 6,750'-11,331'

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 1,241* MCF/d Final open flow 127 Bbl/d
Time of open flow between initial and final tests 48 Hours *Calculated
Static rock Pressure 4,210* 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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WV Department of Environmental Protection

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.

Malone Williams
Signature

9-13-2012
Date

12/14/2012

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' - 6,505' MD; LWD GR from 5,640' - 11,416' 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 @ 5770' - 6505'

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>/</u>	<u>Bottom Depth</u>
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Surface:

(See Attached)

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PERFORATION RECORD ATTACHMENT

Well Number and Name: 833123 Roy Riggle 8H

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated		Fluid		Propping Agent		Average Injection
	From	To		Type	Amount	Type	Amount			
5/5/2012	10,757	11,331	5/22/2012	10,757	11,331	Slk wtr	11,579	Sand	665,550	85
5/22/2012	10,089	10,663	5/22/2012	10,089	10,663	Slk wtr	12,124	Sand	665,240	83
5/22/2012	9,421	9,995	5/22/2012	9,421	9,995	Slk wtr	11,226	Sand	664,920	87
5/23/2012	8,754	9,323	5/23/2012	8,754	9,323	Slk wtr	10,830	Sand	664,980	86
5/23/2012	8,086	8,660	5/23/2012	8,086	8,660	Slk wtr	11,624	Sand	665,040	85
5/23/2012	7,418	7,992	5/23/2012	7,418	7,992	Slk wtr	10,643	Sand	665,540	85
5/23/2012	6,750	7,324	5/23/2012	6,750	7,324	Slk wtr	10,506	Sand	657,020	85

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VERTICAL PILOT HOLE

Formation/Lithology	Top Depth, TVD/MD (ft)	Bottom Depth, TVD/MD (ft)
LS/SH	0	628
PITTSBURG COAL	628	635
LS/SH/SS	635	1520
LS/SH	1520	1692
BIG INJUN (SS)	1692	1980
SHALE	1980	6240
GENESEO (SH)	6240	6264
TULLY (LS)	6264	6302
HAMILTON (SH)	6302	6414
MARCELLUS (SH)	6414	6486
ONONDAGA (LS)	6486	
TD OF PILOT HOLE		6505

**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	628	628
PITTSBURG COAL	628	628	635	635
LS/SH/SS	635	635	1520	1520
LS/SH	1520	1520	1692	1692
BIG INJUN (SS)	1692	1692	1980	1980
SHALE	1980	1980	6270	6250
GENESEO (SH)	6270	6250	6293	6270
TULLY (LS)	6293	6270	6345	6312
HAMILTON (SH)	6345	6312	6539	6434
MARCELLUS (SH)	6539	6434		
TD OF LATERAL			11527	6478

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