

WR-35  
Rev (9-11)

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

DATE: 6-27-2013  
API #: 47-069-00092

Farm name: Timmy Minch OHI 1H Operator Well No.: 833624

LOCATION: Elevation: 1225' Quadrangle: Wheeling WV.

District: Richland County: Ohio  
Latitude: 5980' Feet South of 40 Deg. 07 Min. 30 Sec.  
Longitude 14440' Feet West of 80 Deg. 37 Min. 30 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"	124'	124'	409 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	519'	519'	101 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	1981'	1981'	892 Cu. Ft.
Date Permit Issued: 9-6-2011	5 1/2"	15079'	15079'	4047 Cu. Ft.
Date Well Work Commenced: 3-29-2012				
Date Well Work Completed: 3-26-2013				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6092'				
Total Measured Depth (ft): 15084'				
Fresh Water Depth (ft.): 68', 300'				
Salt Water Depth (ft.): 1141'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 513'				
Void(s) encountered (N/Y) Depth(s) Y 513'				

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

Producing formation Marcellus Pay zone depth (ft) 6,700-14,929

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 1,637\* MCF/d Final open flow 118 Bbl/d  
Time of open flow between initial and final tests 72 Hours \*Calculated  
Static rock Pressure 3,960\* psig (surface pressure) after 72 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.

Madlene Williams  
Signature

6-27-2013  
Date

08/16/2013

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 LWD GR from 5,800' - 15,072' 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 plugs: 275'- 565'; 385' - 541'; 1585'-1845';

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

See attached

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PERFORATION RECORD ATTACHMENT

Well Number and Name: 833624 Timmy Minch OHI 1H

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated		Fluid		Propping Agent		Average Injection
	From	To		Type	Amount	Type	Amount			
3/6/2013	14,510	14,929	3/19/2013	14,510	14,929	Sik wtr	10,807	Sand	560,860	99.2
3/19/2013	13,776	14,197	3/19/2013	13,776	14,197	Sik wtr	10,413	Sand	571,320	100
3/19/2013	13,288	13,709	3/20/2013	13,288	13,709	Sik wtr	10,512	Sand	560,600	99.8
3/20/2013	12,817	13,219	3/20/2013	12,817	13,219	Sik wtr	13,295	Sand	563,108	98.3
3/22/2013	12,347	12,748	3/23/2013	12,347	12,748	Sik wtr	10,423	Sand	562,580	100
3/21/2013	11,876	12,278	3/23/2013	11,876	12,278	Sik wtr	10,423	Sand	561,240	99.8
3/23/2013	11,406	11,807	3/23/2013	11,406	11,807	Sik wtr	10,251	Sand	556,350	100
3/23/2013	10,935	11,337	3/23/2013	10,935	11,337	Sik wtr	10,594	Sand	564,400	100
3/23/2013	10,465	10,866	3/23/2013	10,465	10,866	Sik wtr	10,372	Sand	559,660	99.4
3/23/2013	9,994	10,396	3/24/2013	9,994	10,396	Sik wtr	10,302	Sand	560,160	99.9
3/24/2013	9,523	9,925	3/24/2013	9,523	9,925	Sik wtr	10,241	Sand	560,600	100
3/24/2013	9,053	9,454	3/24/2013	9,053	9,454	Sik wtr	10,137	Sand	559,980	100
3/25/2013	8,586	8,984	3/24/2013	8,586	8,984	Sik wtr	10,179	Sand	563,829	100
3/25/2013	8,112	8,513	3/25/2013	8,112	8,513	Sik wtr	10,191	Sand	560,500	100
3/25/2013	7,641	8,043	3/25/2013	7,641	8,043	Sik wtr	10,203	Sand	571,196	100
3/25/2013	7,171	7,572	3/26/2013	7,171	7,572	Sik wtr	10,621	Sand	561,827	100
3/26/2013	6,700	7,102	3/26/2013	6,700	7,102	Sik wtr	10,106	Sand	562,520	99.9

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**LATERAL SIDETRACK WELLBORE (no vertical pilot hole associated with this well)**

**Maximum TVD of wellbore: 6106 ft TVD @ 6689 ft MD**

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SH	0	0	467	467
PITTSBURG COAL VOID	467	467	480	480
SS/LS	480	480	710	710
SS/LS/SH	710	710	920	920
SS	920	920	1250	1250
SS/LS	1250	1250	1310	1310
SS	1310	1310	1550	1550
BIG INJUN (SS)	1550	1550	1819	1819
SHALE	1819	1819	6111	5904
GENESEO (SH)	6111	5904	6138	5924
TULLY (LS)	6138	5924	6209	5972
HAMILTON (SH)	6209	5972	6380	6058
MARCELLUS (SH)	6380	6058		
TD OF LATERAL			15084	5991

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