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: 5960' 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: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
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 ☑ Cable ☐ Rig ☐				
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

Received
JUN 28 2013
Office of Oil and Gas
WV Dept. 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.

Marlene Williams
Signature

6-27-2013
Date

08/23/2013

47-069-00092

Were core samples taken? Yes_____ No X_____ Were cuttings caught during drilling? Yes_____ No X_____

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';

Formations Encountered: Top Depth / Bottom Depth
Surface:

See attached

Received

JUN 28 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

08/23/2013

47-069-0009

PERFORATION RECORD ATTACHMENT

Well Number and Name: 833624 Timmy Minch OHI 1H

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

47-069-00091

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