

WR-35
Rev (1-10)

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

DATE: 09/13/2010
API #: 47-770-0507

Farm name: Titchenell Unit Operator Well No.: 8013

RECEIVED

LOCATION: Elevation: 1791' (GL) Quadrangle: Valley Point

SEP 15 2010

District: Kingwood County: Preston
Latitude: 39.50857 Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude 79.66823 Feet West of _____ Deg. _____ Min. _____ Sec.

WV Oil and Gas
Conservation Commission

Company:

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
4 Grandview Circle, Suite 203	22"	33'		Circulate to surface
Canonsburg, PA 15317	13 3/8"	960'		872 cu ft (760 sq) Circ to surface
Agent: <u>Shawna C. Yezak</u>	9 5/8"	2250'		937 cu ft (650 sq)
Inspector: <u>Bryan Harris</u>	5 1/2"	8320'		644 cu ft (525 sq)
Date Permit Issued: <u>09/10/2009</u>				
Date Well Work Commenced: <u>12/13/2009</u>	2 3/8"		8081'	
Date Well Work Completed: <u>06/10/2010</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig X				
Total Vertical Depth (ft): <u>8320</u>				
Total Measured Depth (ft):				
Fresh Water Depth (ft.): <u>300-900'</u>				
Salt Water Depth (ft.): <u>1850'</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>N/A</u>				

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

Producing formation Upper & Lower Marcellus Pay zone depth (ft) 8020'

Gas: Initial open flow 620,000 MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 70,000 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 480 Hours

Static rock Pressure 4750 psig (surface pressure) after 0 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

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.

Shawna C. Yezak
Signature

09/13/2010
Date

CONFIDENTIAL 08/29/2014

Released 8/25/2014

17-00507

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:

CONFIDENTIAL

04/23/10 - Perforated Lower Marcellus within interval 8144-8164'

04/27/10 - Fraced interval 8144-8164 w/ 441,634 gals water; 169,000 lbs 100 Mesh; 229,700 lbs of 40/70 Sand and 2000 gals 7.5% HCl Acid.

04/27/10 Perforated Upper Marcellus within interval 8074-8094 and fraced interval with 427,697 gal water; 200,500 lbs of 100 Mesh; 242,000 lbs 40/70 Sand

Note: Chemical Tracer and RA Tracer pumped throughout job in sand.

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
Allegheny Formation Sandstone & Shale	0		290
Pottsville Sandstone	290		582
Mauch Chunk Sandstone & Shale	582		656
Sandstone & Shale	656		810
Greenbriar	810		1094
Little Lime - Limestone	1094		1161
Big Lime - Limestone	1161		1264
Big Injun - Sandstone	1264		1541
Weir Sandstone	1541		2096
Sunbury Shale	2096		2100
Berea Sandstone	2100		2281
4th Sandstone	2281		2342
Fifth Sandstone	2342		2401
Bayard Sandstone	2401		2519
Elizabeth Sandstone	2519		2639
Warren Shale	2639		2810
Spechley Sandstone & Shale	2810		2996
Balltown Sandstone	2996		3267
Bradford Sandstone	3267		3407
Riley	3407		3807
Benson Sandstone	3807		4458
Sandstone & Siltstone	4458		5065
Elk Sandstone	5065		5103

08/29/2014

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<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
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Siltstone & Shale	5103	5241
Brallier	5241	7361
Harrell Shale	7361	7644
Burket Shale	7644	7659
Tully Limestone	7659	7696
Hamilton Shale	7696	8020
Upper Marcellus Shale	8020	8094
Purcell Limestone	8094	8129
Lower Marcellus Shale	8129	8174
Onondaga Limestone	8174	8192
Huntersville Chert	8192	8300