

WR-35  
Rev (9-11)

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

DATE: 5/22/2013  
API #: 47-103-02776



Farm name: John W. & Florence E. Kilcoyne Operator Well No.: 513829

LOCATION: Elevation: 860' Quadrangle: Big Run

District: Grant County: Wetzel, WV  
Latitude: 8,365' Feet South of 39 Deg. 35 Min. 00 Sec.  
Longitude 5,190' Feet West of 80 Deg. 32 Min. 30 Sec.

Company: EQT Production Company

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
EQT Plaza, Suite 1700				
625 Liberty Avenue, Pittsburgh, PA 15222	26	80	80	116
Agent: Cecil Ray	16	305	305	540
Inspector: David Scranage	13 3/8	803	803	557
Date Permit Issued: 6/8/2012	9 5/8	3,104	3,104	1,552
Date Well Work Commenced: 7/7/2012	5 1/2	12,057	12,057	1,831
Date Well Work Completed: 3/8/2013				
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 7,087'				
Total Measured Depth (ft): 12,067'				
Fresh Water Depth (ft.): 211'				
Salt Water Depth (ft.): 1,511'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 400', 585', 614'				
Void(s) encountered (N/Y) Depth(s) No				

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

Producing formation Marcellus Pay zone depth (ft) 7,012

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow 10,144 MCF/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests \_\_\_\_\_ Hours

Static rock Pressure 2,700 psig (surface pressure) after 93 Hours

Second producing formation No second 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.

Signature

5/22/2013  
Date

08/09/2013

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Were core samples taken? Yes \_\_\_\_\_ No X

Were cuttings caught during drilling? Yes X No \_\_\_\_\_

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes: CBL, Gyro, & MWD Gamma Logs

**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 Attachment**

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: \_\_\_\_\_ Top Depth \_\_\_\_\_ / \_\_\_\_\_ Bottom Depth \_\_\_\_\_  
Surface:

Sand/Shale / 0 / 400 / 400 -- Coal / 400 / 410 / 10 -- Sand/Shale / 410 / 585 / 175 --  
 Coal / 585 / 596 / 11 -- Sand/Shale / 596 / 614 / 18 -- Coal / 614 / 625 / 11 -- Sand/Shale / 625 / 3,309 / 2,694  
 Warren / 3,309 / 3,358 / 48 -- B-5 / 3,358 / 3,462 / 104 -- SPEECHLEY / 3,462 / 3,873 / 411  
 BALLTOWN A / 3,873 / 4,340 / 466 -- RILEY / 4,340 / 4,985 / 645 -- BENSON / 4,985 / 5,326 / 340 --  
 ALEXANDER / 5,326 / 6,542 / 1,216 -- RHINESTREET / 6,542 / 6,554 / 12 --  
 SONYEA / 6,554 / 6,724 / 169 -- MIDDLESEX / 6,724 / 6,776 / 52 --  
 GENESSEE / 6,776 / 6,859 / 83 -- GENESEO / 6,859 / 6,893 / 33 -  
 TULLY / 6,893 / 6,922 / 29 -- HAMILTON / 6,922 / 7,012 / 89 --  
 MARCELLUS SHALE / 7,012 / 7,087 / 75 --

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**EQT WR-35 Completion Attachment Well 513829 Treatment Summary**

<b>Stage</b> 1	<b>Formation</b> MARCELLUS	<b>Frac Type</b> Slickwater			
<b>Date</b> 3/2/2013	<b>From / To</b> 11728 - 11908	<b># of perfs</b>	<b>BD Press</b> 8,949.00	<b>ATP Psi</b> 8,355.00	<b>SIP Detail</b> 5 Min: 4101 10 Min: 3927 15 Min: 3837
<b>Avg Rate</b> 92.70	<b>Max Press PSI</b> 8,671.00	<b>ISIP</b> 4,613.00	<b>Frac Gradient</b> 1.08		
<b>Sand Proppant</b> 399,850.00	<b>Water-bbl</b> 10,519.00	<b>SCF N2</b>	<b>Acid-Gal</b> 2,000.00		

<b>Stage</b> 2	<b>Formation</b> MARCELLUS	<b>Frac Type</b> Slickwater			
<b>Date</b> 3/3/2013	<b>From / To</b> 11428 - 11670	<b># of perfs</b>	<b>BD Press</b> 9,305.00	<b>ATP Psi</b> 8,406.00	<b>SIP Detail</b> 5 Min: 4566 10 Min: 4325 15 Min: 4179
<b>Avg Rate</b> 97.30	<b>Max Press PSI</b> 8,884.00	<b>ISIP</b> 5,227.00	<b>Frac Gradient</b> 1.17		
<b>Sand</b> 400,237.00	<b>Water-bbl</b> 10,294.00	<b>SCF N2</b>	<b>Acid-Gal</b> 750.00		

<b>Stage</b> 3	<b>Formation</b> MARCELLUS	<b>Frac Type</b> Slickwater			
<b>Date</b> 3/3/2013	<b>From / To</b> 11128 - 11370	<b># of perfs</b>	<b>BD Press</b> 8,625.00	<b>ATP Psi</b> 8,567.00	<b>SIP Detail</b> 5 Min: 4745 10 Min: 4574 15 Min: 4301
<b>Avg Rate</b> 91.50	<b>Max Press PSI</b> 8,878.00	<b>ISIP</b> 5,320.00	<b>Frac Gradient</b> 1.18		
<b>Sand</b> 400,933.00	<b>Water-bbl</b> 10,031.00	<b>SCF N2</b>	<b>Acid-Gal</b> 750.00		

<b>Stage</b> 4	<b>Formation</b> MARCELLUS	<b>Frac Type</b> Slickwater			
<b>Date</b> 3/3/2013	<b>From / To</b> 10828 - 11070	<b># of perfs</b>	<b>BD Press</b> 7,832.00	<b>ATP Psi</b> 8,455.00	<b>SIP Detail</b> 5 Min: 4731 10 Min: 4471 15 Min: 4305
<b>Avg Rate</b> 94.50	<b>Max Press PSI</b> 8,729.00	<b>ISIP</b> 5,389.00	<b>Frac Gradient</b> 1.19		
<b>Sand</b> 401,848.00	<b>Water-bbl</b> 10,196.00	<b>SCF N2</b>	<b>Acid-Gal</b> 750.00		

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Stage	Formation	Frac Type			SIP Detail	
5	MARCELLUS	Slickwater				
<b>Date</b>	<b>From / To</b>	<b># of perfs</b>	<b>BD Press</b>	<b>ATP Psi</b>	<b>SIP Detail</b>	
3/4/2013	10528 - 10799		9,037.00	8,455.00	5 Min: 5055 10 Min: 4746 15 Min: 4522	
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>			
95.20	8,788.00	5,452.00	1.2			
<b>Sand</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>			
403,519.00	10,265.00		750.00			

Stage	Formation	Frac Type			SIP Detail	
6	MARCELLUS	Slickwater				
<b>Date</b>	<b>From / To</b>	<b># of perfs</b>	<b>BD Press</b>	<b>ATP Psi</b>	<b>SIP Detail</b>	
3/4/2013	10228 - 10470		8,878.00	8,273.00	5 Min: 4493 10 Min: 4276 15 Min: 4150	
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>			
88.40	9,019.00	5,079.00	1.15			
<b>Sand</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>			
398,460.00	10,206.00		1,250.00			

Stage	Formation	Frac Type			SIP Detail	
7	MARCELLUS	Slickwater				
<b>Date</b>	<b>From / To</b>	<b># of perfs</b>	<b>BD Press</b>	<b>ATP Psi</b>	<b>SIP Detail</b>	
3/4/2013	9928 - 10170		7,495.00	8,281.00	5 Min: 4687 10 Min: 4444 15 Min: 4301	
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>			
100.10	8,678.00	4,762.00	1.1			
<b>Sand</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>			
400,192.00	10,134.00		750.00			

Stage	Formation	Frac Type			SIP Detail	
8	MARCELLUS	Slickwater				
<b>Date</b>	<b>From / To</b>	<b># of perfs</b>	<b>BD Press</b>	<b>ATP Psi</b>	<b>SIP Detail</b>	
3/5/2013	9628 - 9870		8,243.00	8,286.00	5 Min: 4871 10 Min: 4580 15 Min: 4418	
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>			
93.80	9,065.00	5,287.00	1.18			
<b>Sand</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>			
401,006.00	10,004.00		750.00			

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<b>Stage</b> 9	<b>Formation</b> MARCELLUS	<b>Frac Type</b> Slickwater				
<b>Date</b> 3/5/2013	<b>From / To</b> 9328 - 9570	<b># of perfs</b>	<b>BD Press</b> 7,573.00	<b>ATP Psi</b> 7,948.00	<b>SIP Detail</b> 5 Min: 4976 10 Min: 4676 15 Min: 4495	
<b>Avg Rate</b> 100.20	<b>Max Press PSI</b> 8,540.00	<b>ISIP</b> 5,430.00	<b>Frac Gradient</b> 1.2			
<b>Sand</b> 400,037.00	<b>Water-bbl</b> 9,978.00	<b>SCF N2</b>	<b>Acid-Gal</b> 750.00			
<b>Stage</b> 10	<b>Formation</b> MARCELLUS	<b>Frac Type</b> Slickwater				
<b>Date</b> 3/6/2013	<b>From / To</b> 9028 - 9270	<b># of perfs</b>	<b>BD Press</b> 7,797.00	<b>ATP Psi</b> 8,271.00	<b>SIP Detail</b> 5 Min: 5425 10 Min: 5147 15 Min: 4960	
<b>Avg Rate</b> 97.60	<b>Max Press PSI</b> 9,169.00	<b>ISIP</b> 5,963.00	<b>Frac Gradient</b> 1.28			
<b>Sand</b> 392,979.00	<b>Water-bbl</b> 9,998.00	<b>SCF N2</b>	<b>Acid-Gal</b> 750.00			
<b>Stage</b> 11	<b>Formation</b> MARCELLUS	<b>Frac Type</b> Slickwater				
<b>Date</b> 3/6/2013	<b>From / To</b> 8728 - 8970	<b># of perfs</b>	<b>BD Press</b> 7,136.00	<b>ATP Psi</b> 8,492.00	<b>SIP Detail</b> 5 Min: 4879 10 Min: 4638 15 Min: 4481	
<b>Avg Rate</b> 99.20	<b>Max Press PSI</b> 8,670.00	<b>ISIP</b> 5,062.00	<b>Frac Gradient</b> 1.15			
<b>Sand</b> 400,595.00	<b>Water-bbl</b> 9,962.00	<b>SCF N2</b>	<b>Acid-Gal</b> 750.00			
<b>Stage</b> 12	<b>Formation</b> MARCELLUS	<b>Frac Type</b> Slickwater				
<b>Date</b> 3/7/2013	<b>From / To</b> 8428 - 8670	<b># of perfs</b>	<b>BD Press</b> 7,352.00	<b>ATP Psi</b> 7,988.00	<b>SIP Detail</b> 5 Min: 4991 10 Min: 4664 15 Min: 4502	
<b>Avg Rate</b> 100.20	<b>Max Press PSI</b> 8,235.00	<b>ISIP</b> 5,271.00	<b>Frac Gradient</b> 1.18			
<b>Sand</b> 397,401.00	<b>Water-bbl</b> 9,856.00	<b>SCF N2</b>	<b>Acid-Gal</b> 750.00			

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Stage	Formation	Frac Type			SIP Detail
13	MARCELLUS	Slickwater			
<b>Date</b> 3/7/2013	<b>From / To</b> 8128 - 8370	<b># of perfs</b>	<b>BD Press</b> 7,749.00	<b>ATP Psi</b> 8,263.00	5 Min: 5049 10 Min: 4821 15 Min: 4667
<b>Avg Rate</b> 99.00	<b>Max Press PSI</b> 8,776.00	<b>ISIP</b> 5,416.00	<b>Frac Gradient</b> 1.2		
<b>Sand</b> 403,219.00	<b>Water-bbl</b> 9,872.00	<b>SCF N2</b>	<b>Acid-Gal</b> 750.00		
Stage	Formation	Frac Type			SIP Detail
14	MARCELLUS	Slickwater			
<b>Date</b> 3/8/2013	<b>From / To</b> 7828 - 8070	<b># of perfs</b>	<b>BD Press</b> 6,674.00	<b>ATP Psi</b> 7,613.00	5 Min: 4480 10 Min: 4221 15 Min: 4074
<b>Avg Rate</b> 100.10	<b>Max Press PSI</b> 8,809.00	<b>ISIP</b> 4,948.00	<b>Frac Gradient</b> 1.14		
<b>Sand</b> 400,360.00	<b>Water-bbl</b> 9,745.00	<b>SCF N2</b>	<b>Acid-Gal</b> 750.00		

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