

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 #: 47-103-02805

Farm name: John W. & Florence E. Kilcoyne Operator Well No.: 513834

LOCATION: Elevation: 860' Quadrangle: Big Run

District: Grant County: Wetzel, WV
Latitude: 8,365 Feet South of 39 Deg. 35 Min. 00 Sec.
Longitude 5,180 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	20	287	287	732
Inspector: David Scranage	13 3/8	851	851	904
Date Permit Issued: 8/29/2012	9 5/8	3,060	3,060	1,708
Date Well Work Commenced: 10/20/2012	5 1/2	11,764	11,764	2,220
Date Well Work Completed: 3/1/2013				
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): 7,061'				
Total Measured Depth (ft): 11,795'				
Fresh Water Depth (ft.): 220'				
Salt Water Depth (ft.): 1,511'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 411', 594', 612'				
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 9,461 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 1,700 psig (surface pressure) after 95 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
Office of Oil and Gas
Dept. of Environmental Protection
05/22/2013

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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

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
<u>Surface:</u>		
<u>Sand/Shale / 0 / 200 / 200 -- Sandstone / 200 / 220 / 20 -- Sand/Shale / 220 / 330 / 110 --</u>		
<u>Shale / 330 / 411 / 81 -- Coal / 411 / 416 / 5 -- Sand/Shale / 416 / 594 / 178 -- Coal / 594 / 600 / 6</u>		
<u>Sand/Shale / 600 / 612 / 12 -- Coal / 612 / 615 / 3 -- Sand/Shale / 615 / 3,309 / 2,694 - Warren / 3,309 / 3,358 / 48</u>		
<u>BALLTOWN A / 3,873 / 4,340 / 466 -- RILEY / 4,340 / 4,985 / 645 -- BENSON / 4,985 / 5,326 / 340 --</u>		
<u>ALEXANDER / 5,326 / 6,554 / 1,227 -- RHINESTREET / 6,542 / 6,554 / 12 --</u>		
<u>SONYEA / 6,554 / 6,724 / 169 -- MIDDLESEX / 6,724 / 6,776 / 52 --</u>		
<u>GENESSEE / 6,776 / 6,859 / 83 -- GENESEO / 6,859 / 6,893 / 33 --</u>		
<u>TULLY / 6,893 / 6,922 / 29 -- HAMILTON / 6,922 / 7,012 / 89 --</u>		
<u>MARCELLUS SHALE / 7,012 / 7,061 / 49 --</u>		

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WV Dept. of Environmental Protection

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EQT WR-35 Completion Attachment Well 513834 Treatment Summary

Stage 1	Formation MARCELLUS	Frac Type Slickwater			
Date 2/14/2013	From / To 11478 - 11660	# of perfs	BD Press 6,998.00	ATP Psi 8,032.00	SIP Detail 5 Min: 3961 10 Min: 3797 15 Min: 3716
Avg Rate 89.20	Max Press PSI 8,378.00	ISIP 4,656.00	Frac Gradient 1.09		
Sand Proppant 399,760.00	Water-bbl 9,682.00	SCF N2	Acid-Gal 1,000.00		

Stage 2	Formation MARCELLUS	Frac Type Slickwater			
Date 2/14/2013	From / To 11178 - 11420	# of perfs	BD Press 6,753.00	ATP Psi 8,450.00	SIP Detail 5 Min: 5229 10 Min: 4859 15 Min: 4632
Avg Rate 97.60	Max Press PSI 8,708.00	ISIP 5,932.00	Frac Gradient 1.27		
Sand 398,007.00	Water-bbl 10,209.00	SCF N2	Acid-Gal 750.00		

Stage 3	Formation MARCELLUS	Frac Type Slickwater			
Date 2/15/2013	From / To 10878 - 11120	# of perfs	BD Press 6,615.00	ATP Psi 8,299.00	SIP Detail 5 Min: 5129 10 Min: 4823 15 Min: 4609
Avg Rate 98.20	Max Press PSI 8,799.00	ISIP 6,075.00	Frac Gradient 1.29		
Sand 399,429.00	Water-bbl 10,025.00	SCF N2	Acid-Gal 750.00		

Stage 4	Formation MARCELLUS	Frac Type Slickwater			
Date 2/15/2013	From / To 10578 - 10820	# of perfs	BD Press 6,758.00	ATP Psi 8,351.00	SIP Detail 5 Min: 4608 10 Min: 4312 15 Min: 4144
Avg Rate 89.60	Max Press PSI 8,593.00	ISIP 5,321.00	Frac Gradient 1.19		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		

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398,431.00	9,496.00		750.00		
Stage	Formation	Frac Type			
5	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
2/15/2013	10278 - 10520		6,880.00	8,401.00	5 Min: 4447 10 Min: 4254 15 Min: 4132
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
94.90	8,757.00	4,967.00	1.14		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
398,065.00	10,271.00		750.00		
Stage	Formation	Frac Type			
6	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
2/15/2013	9978 - 10220		6,659.00	8,338.00	5 Min: 4270 10 Min: 4116 15 Min: 4026
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
98.40	8,704.00	4,970.00	1.14		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
397,082.00	11,084.00		750.00		
Stage	Formation	Frac Type			
7	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
2/24/2013	9678 - 9920		7,129.00	8,243.00	5 Min: 4829 10 Min: 4549 15 Min: 4344
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
98.90	8,640.00	5,564.00	1.22		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
387,444.00	9,528.00		750.00		
Stage	Formation	Frac Type			
8	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
2/26/2013	9378 - 9620		7,758.00	8,153.00	5 Min: 5030 10 Min: 4671 15 Min: 4454
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
100.20	8,448.00	5,681.00	1.24		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		

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399,263.00		9,977.00		750.00	
Stage	Formation	Frac Type			
9	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
2/27/2013	9078 - 9320		7,707.00	8,383.00	5 Min: 4775 10 Min: 4511 15 Min: 4354
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
94.70	8,648.00	5,590.00	1.23		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
397,237.00	10,043.00		750.00		
Stage	Formation	Frac Type			
10	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
2/27/2013	8778 - 9020		6,533.00	8,350.00	5 Min: 5129 10 Min: 4834 15 Min: 4642
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
97.80	8,576.00	5,861.00	1.26		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
396,658.00	10,016.00		750.00		
Stage	Formation	Frac Type			
11	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
2/27/2013	8478 - 8720		6,214.00	8,088.00	5 Min: 5202 10 Min: 4886 15 Min: 4697
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
99.10	8,459.00	5,861.00	1.26		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
392,372.00	10,138.00		750.00		
Stage	Formation	Frac Type			
12	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
2/28/2013	8178 - 8420		6,362.00	8,248.00	5 Min: 5259 10 Min: 4960 15 Min: 4761
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
100.20	8,536.00	5,806.00	1.26		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		

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398,990.00		10,007.00		750.00		
Stage	Formation	Frac Type				
13	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
2/28/2013	7878 - 8120		6,677.00	8,442.00	5 Min: 5434	
					10 Min: 5064	
					15 Min: 4848	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
96.70	8,630.00	6,153.00	1.31			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
401,140.00	9,955.00		750.00			
Stage	Formation	Frac Type				
14	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/1/2013	7578 - 7820		6,295.00	8,418.00	5 Min: 4854	
					10 Min: 4582	
					15 Min: 4392	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
87.30	8,632.00	5,314.00	1.19			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
403,535.00	10,242.00		750.00			

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