

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 #: 47-103-02718

Farm name: Kilcoyne, John W. & Florence Operator Well No.: 513826

LOCATION: Elevation: 859' Quadrangle: Big Run

District: Grant County: Wetzel
Latitude: 8.350 Feet South of 39 Deg. 35 Min. 00 Sec.
Longitude 5.230 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	297	297	714
Inspector: David Scranage	13 3/8	838	838	826
Date Permit Issued: 3/13/2012	9 5/8	3,105	3,105	1,333
Date Well Work Commenced: 6/25/2012	5 1/2	12,350	12,350	2,235
Date Well Work Completed: 2/24/2013				
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): 7,099'				
Total Measured Depth (ft): 12,366'				
Fresh Water Depth (ft.): 245'				
Salt Water Depth (ft.): 1,521'				
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 10,986 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 2,300 psig (surface pressure) after 129.5 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

Office of Oil and Gas
WV Dept. of Environmental Protection
5/22/2013
Date 08/09/2013

103-02718

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 / 411 / 411 -- Coal / 411 / 417 / 6 -- Sand/Shale / 417 / 597 / 180 -- Coal / 597 / 604 / 7
Sand/Shale / 604 / 615 / 11 -- Coal / 615 / 621 / 6 -- Sand/Shale / 621 / 3,310 / 2,689 --
Warren / 3,310 / 3,358 / 48 -- B-5 / 3,358 / 3,463 / 105 -- Speechley / 3,463 / 3,874 / 411 -- Balltown A / 3,874 / 4,340 / 466--
Riley / 4,340 / 4,986 / 556 -- Benson / 4,986 / 5,326 / 340 -- Alexander / 5,326 / 6,542 / 1,216 --
Rhine Street / 6,542 / 6,554 / 12 -- Sonyea / 6,554 / 6,724 / 170 -- Middlesex / 6,724 / 6,776 / 52--
Genessee / 6,776 / 6,859 / 83 -- Geneseo / 6,859 / 6,893 / 34 -- Tully / 6,893 / 6,923 / 30 --
Hamilton / 6,923 / 7,012 / 89 -- Marcellus Shale / 7,012 / 7,066 / 54 -- Onondaga / 7,066 / 7,099 / 33 --
Huntersville / 7,099 / --

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EQT WR-35 Completion Attachment Well 513826 Treatment Summary

Stage 1	Formation MARCELLUS	Frac Type Slickwater			
Date 2/17/2013	From / To 12185 - 12227	# of perfs	BD Press 7,060.00	ATP Psi 8,360.00	SIP Detail 5 Min: 3682 10 Min: 3560 15 Min: 3492
Avg Rate 75.00	Max Press PSI 8,966.00	ISIP 4,314.00	Frac Gradient 1.06		
Sand Proppant 119,932.00	Water-bbl 6,134.00	SCF N2	Acid-Gal 2,000.00		

Stage 2	Formation MARCELLUS	Frac Type Slickwater			
Date 2/17/2013	From / To 11885 - 12007	# of perfs	BD Press 6,664.00	ATP Psi 8,384.00	SIP Detail 5 Min: 4638 10 Min: 4366 15 Min: 4196
Avg Rate 88.00	Max Press PSI 8,952.00	ISIP 6,316.00	Frac Gradient 1.34		
Sand Proppant 162,177.00	Water-bbl 4,823.00	SCF N2	Acid-Gal 750.00		

Stage 3	Formation MARCELLUS	Frac Type Slickwater			
Date 2/17/2013	From / To 11885 - 12007	# of perfs	BD Press 6,657.00	ATP Psi 8,198.00	SIP Detail 5 Min: 5012 10 Min: 4765 15 Min: 4595
Avg Rate 91.70	Max Press PSI 8,914.00	ISIP 5,465.00	Frac Gradient 1.21		
Sand Proppant 198,090.00	Water-bbl 5,572.00	SCF N2	Acid-Gal 750.00		

Stage 4	Formation MARCELLUS	Frac Type Slickwater			
Date 2/18/2013	From / To 11735 - 11857	# of perfs	BD Press 6,565.00	ATP Psi 8,018.00	SIP Detail 5 Min: 5261 10 Min: 4933 15 Min: 4691
Avg Rate 98.40	Max Press PSI 8,375.00	ISIP 5,794.00	Frac Gradient 1.26		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		

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199,107.00 5,254.00 750.00

Stage 5	Formation MARCELLUS	Frac Type Slickwater			
Date 2/18/2013	From / To 11585 - 11707	# of perfs	BD Press 6,813.00	ATP Psi 8,332.00	SIP Detail 5 Min: 5489 10 Min: 5225 15 Min: 5040
Avg Rate 95.40	Max Press PSI 8,715.00	ISIP 6,059.00	Frac Gradient 1.3		
Sand Proppant 197,594.00	Water-bbl 5,089.00	SCF N2	Acid-Gal 750.00		

Stage 6	Formation MARCELLUS	Frac Type Slickwater			
Date 2/18/2013	From / To 11435 - 11557	# of perfs	BD Press 6,697.00	ATP Psi 8,380.00	SIP Detail 5 Min: 4932 10 Min: 4566 15 Min: 4398
Avg Rate 91.30	Max Press PSI 8,959.00	ISIP 5,866.00	Frac Gradient 1.27		
Sand Proppant 200,886.00	Water-bbl 5,373.00	SCF N2	Acid-Gal 750.00		

Stage 7	Formation MARCELLUS	Frac Type Slickwater			
Date 2/19/2013	From / To 11285 - 11407	# of perfs Pump in Vol. includes 2 W/L Runs	BD Press 6,041.00	ATP Psi 7,927.00	SIP Detail 5 Min: 5332 10 Min: 5049 15 Min: 4856
Avg Rate 95.80	Max Press PSI 8,287.00	ISIP 5,798.00	Frac Gradient 1.26		
Sand Proppant 201,597.00	Water-bbl 5,157.00	SCF N2	Acid-Gal 750.00		

Stage 8	Formation MARCELLUS	Frac Type Slickwater			
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Date 2/19/2013	From / To 11135 - 11257	# of perfs	BD Press 6,568.00	ATP Psi 8,346.00	SIP Detail 5 Min: 5233 10 Min: 4991
Avg Rate	Max Press PSI	ISIP	Frac Gradient		15 Min: 4800
97.80	8,578.00	5,685.00	1.24		
Sand Proppant 202,838.00	Water-bbl 5,254.00	SCF N2	Acid-Gal 750.00		
Stage 9	Formation MARCELLUS	Frac Type Slickwater			
Date 2/19/2013	From / To 10985 - 11107	# of perfs	BD Press 6,230.00	ATP Psi 8,437.00	SIP Detail 5 Min: 5370 10 Min: 4982
Avg Rate	Max Press PSI	ISIP	Frac Gradient		15 Min: 4735
92.20	8,739.00	6,010.00	1.29		
Sand Proppant 197,835.00	Water-bbl 5,543.00	SCF N2	Acid-Gal 750.00		
Stage 10	Formation MARCELLUS	Frac Type Slickwater			
Date 2/19/2013	From / To 10835 - 10957	# of perfs	BD Press 6,618.00	ATP Psi 8,318.00	SIP Detail 5 Min: 4764 10 Min: 4441
Avg Rate	Max Press PSI	ISIP	Frac Gradient		15 Min: 4200
94.20	8,766.00	5,327.00	1.19		
Sand Proppant 197,258.00	Water-bbl 5,064.00	SCF N2	Acid-Gal 750.00		
Stage 11	Formation MARCELLUS	Frac Type Slickwater			
Date 2/19/2013	From / To 10685 - 10807	# of perfs	BD Press 6,744.00	ATP Psi 8,278.00	SIP Detail 5 Min: 5036 10 Min: 4718
Avg Rate	Max Press PSI	ISIP	Frac Gradient		15 Min: 4505
98.00	8,724.00	5,870.00	1.27		

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Sand Proppant	Water-bbl	SCF N2	Acid-Gal
199,853.00	5,267.00		750.00

Stage	Formation	Frac Type			
12	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
2/19/2013	10535 - 10657		7,359.00	8,029.00	5 Min: 4493 10 Min: 4279
Avg Rate	Max Press PSI	ISIP	Frac Gradient		15 Min: 4135
98.20	8,439.00	4,890.00	1.13		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
201,192.00	5,313.00		750.00		

Stage	Formation	Frac Type			
13	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
2/20/2013	10385 - 10507		6,215.00	7,835.00	5 Min: 4996 10 Min: 4748
Avg Rate	Max Press PSI	ISIP	Frac Gradient		15 Min: 4575
99.50	8,629.00	5,444.00	1.21		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
199,306.00	5,254.00		750.00		

Stage	Formation	Frac Type			
14	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
2/20/2013	10235 - 10357		6,805.00	8,195.00	5 Min: 5249 10 Min: 4997
Avg Rate	Max Press PSI	ISIP	Frac Gradient		15 Min: 4809
99.70	8,741.00	5,776.00	1.26		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
198,259.00	5,423.00		750.00		

Stage	Formation	Frac Type			
15	MARCELLUS	Slickwater			

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Date 2/20/2013	From / To 10085 - 10207	# of perfs	BD Press 6,747.00	ATP Psi 8,315.00	SIP Detail 5 Min: 5014 10 Min: 4673
Avg Rate 98.70	Max Press PSI 8,680.00	ISIP 5,746.00	Frac Gradient 1.25		15 Min: 4476
Sand Proppant 201,057.00	Water-bbl 5,392.00	SCF N2	Acid-Gal 750.00		

Stage 16	Formation MARCELLUS	Frac Type Slickwater			
Date 2/20/2013	From / To 9935 - 10057	# of perfs	BD Press 6,990.00	ATP Psi 8,159.00	SIP Detail 5 Min: 4759 10 Min: 4483
Avg Rate 94.80	Max Press PSI 8,852.00	ISIP 5,834.00	Frac Gradient 1.26		15 Min: 4294
Sand Proppant 203,083.00	Water-bbl 5,295.00	SCF N2	Acid-Gal 750.00		

Stage 17	Formation MARCELLUS	Frac Type Slickwater			
Date 2/21/2013	From / To 9785 - 9907	# of perfs	BD Press 7,528.00	ATP Psi 8,286.00	SIP Detail 5 Min: 4991 10 Min: 4532
Avg Rate 97.00	Max Press PSI 8,668.00	ISIP 5,694.00	Frac Gradient 1.24		15 Min: 4274
Sand Proppant 200,592.00	Water-bbl 5,327.00	SCF N2	Acid-Gal 750.00		

Stage 18	Formation MARCELLUS	Frac Type Slickwater			
Date 2/21/2013	From / To 9635 - 9757	# of perfs	BD Press 7,523.00	ATP Psi 8,086.00	SIP Detail 5 Min: 5243 10 Min: 4924
Avg Rate	Max Press PSI	ISIP	Frac Gradient		15 Min: 4691

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100.10	8,373.00	5,856.00	1.27
Sand Proppant	Water-bbl	SCF N2	Acid-Gal
199,758.00	5,225.00		750.00

Stage	Formation	Frac Type	
19	MARCELLUS	Slickwater	
Date	From / To	# of perfs	BD Press
2/21/2013	9485 - 9607		7,021.00
			ATP Psi
			7,806.00
SIP Detail			
5 Min: 5432			
10 Min: 5085			
Avg Rate	Max Press PSI	ISIP	Frac Gradient
97.20	8,085.00	6,009.00	1.29
Sand Proppant	Water-bbl	SCF N2	Acid-Gal
199,971.00	5,197.00		750.00

Stage	Formation	Frac Type	
20	MARCELLUS	Slickwater	
Date	From / To	# of perfs	BD Press
2/22/2013	9335 - 9457		7,472.00
			ATP Psi
			7,997.00
SIP Detail			
5 Min: 5205			
10 Min: 4981			
Avg Rate	Max Press PSI	ISIP	Frac Gradient
100.30	8,230.00	5,702.00	1.24
Sand Proppant	Water-bbl	SCF N2	Acid-Gal
204,513.00	5,264.00		750.00

Stage	Formation	Frac Type	
21	MARCELLUS	Slickwater	
Date	From / To	# of perfs	BD Press
2/22/2013	9185 - 9307		7,037.00
			ATP Psi
			7,983.00
SIP Detail			
5 Min: 5398			
10 Min: 5128			
Avg Rate	Max Press PSI	ISIP	Frac Gradient
100.00	8,271.00	5,903.00	1.27
Sand Proppant	Water-bbl	SCF N2	Acid-Gal
200,002.00	5,317.00		750.00

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Stage	Formation	Frac Type	JUN 7 2013
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Avg Rate	Max Press PSI	ISIP	Frac Gradient		15 Min: 4525
98.40	8,779.00	5,823.00	1.26		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
198,082.00	5,491.00		750.00		
Stage	Formation	Frac Type			
26	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
2/23/2013	8435 - 8557		7,230.00	7,901.00	5 Min: 4520 10 Min: 4176
Avg Rate	Max Press PSI	ISIP	Frac Gradient		15 Min: 3963
99.50	8,772.00	5,265.00	1.18		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
198,272.00	5,145.00		750.00		
Stage	Formation	Frac Type			
27	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
2/23/2013	8285 - 8407		7,225.00	7,664.00	5 Min: 5140 10 Min: 4769
Avg Rate	Max Press PSI	ISIP	Frac Gradient		15 Min: 4522
100.60	7,863.00	5,915.00	1.27		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
196,879.00	5,139.00		750.00		
Stage	Formation	Frac Type			
28	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
2/23/2013	8135 - 8257		7,163.00	7,905.00	5 Min: 5478 10 Min: 5069
Avg Rate	Max Press PSI	ISIP	Frac Gradient		15 Min: 4780
99.90	8,176.00	6,117.00	1.3		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
201,233.00	5,151.00		750.00		

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Stage 29	Formation MARCELLUS	Frac Type Slickwater			
Date 2/24/2013	From / To 7985 - 8107	# of perfs	BD Press 6,364.00	ATP Psi 7,730.00	SIP Detail 5 Min: 4755 10 Min: 4408
Avg Rate	Max Press PSI	ISIP	Frac Gradient		15 Min: 4228
95.40	8,703.00	5,638.00	1.23		
Sand Proppant 154,928.00	Water-bbl 5,249.00	SCF N2	Acid-Gal 750.00		

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22	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
2/22/2013	9035 - 9157		7,353.00	8,024.00	5 Min: 5472 10 Min: 5204
Avg Rate	Max Press PSI	ISIP	Frac Gradient		15 Min: 5014
98.80	8,466.00	5,928.00	1.28		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
201,401.00	5,172.00		750.00		
Stage	Formation	Frac Type			
23	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
2/22/2013	8885 - 9007		6,948.00	7,717.00	5 Min: 4681 10 Min: 4510
Avg Rate	Max Press PSI	ISIP	Frac Gradient		15 Min: 4406
100.30	8,166.00	5,392.00	1.2		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
201,577.00	5,204.00		750.00		
Stage	Formation	Frac Type			
24	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
2/23/2013	8735 - 8857		6,721.00	7,653.00	5 Min: 4738 10 Min: 4358
Avg Rate	Max Press PSI	ISIP	Frac Gradient		15 Min: 4199
100.50	7,855.00	5,748.00	1.25		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
201,557.00	5,315.00		750.00		
Stage	Formation	Frac Type			
25	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
2/23/2013	8585 - 8707		7,820.00	8,200.00	5 Min: 5102 10 Min: 4748

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