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: 5/9/2013
API #: 47-091-01224
AMENDED

Farm name: James M. Taylor et al Operator Well No.: 511506

LOCATION: Elevation: 1,470' Quadrangle: Rosemont

District: Flemington County: Taylor, WV
Latitude: 14,160 Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 7,300' Feet West of 80 Deg. 10 Min. 00 Sec.

Company: EQT Production Company

Address: EQT Plaza, Suite 1700	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
625 Liberty Avenue, Pittsburgh, PA 15222	20	40	40	100
Agent: Cecil Ray	13 3/8	943	943	900
Inspector: Bryan Harris	9 5/8	2,715	2,715	1,050
Date Permit Issued: 4/25/2011	5 1/2	11,435	11,435	1,256
Date Well Work Commenced: 6/5/2011				
Date Well Work Completed: 9/19/2011				
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☑				
Total Vertical Depth (ft): 7,550'				
Total Measured Depth (ft): 11,457'				
Fresh Water Depth (ft.): 598', 829'				
Salt Water Depth (ft.): No visible show of salt water.				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 600', 795', 890'				
Void(s) encountered (N/Y) Depth(s) Expected void	not encountered.			

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7,632'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 6,768 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 1,086 psig (surface pressure) after 74 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

Received
SEP 3 2013

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
5/9/2013
Date

09/27/2013

91-01224

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, Gyro and 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:

Clay / 0 / 40 / 40 -- Sandstone / 40 / 315 / 275 -- Red Rock / 315 / 320 / 5 -- Siltstone / 320 / 575 / 255
Red Rock / 575 / 595 / 20 -- Siltstone / 595 / 600 / 5 -- Coal / 600 / 610 / 10
Siltstone / 610 / 795 / 185 -- Coal / 795 / 800 / 5 -- Siltstone / 800 / 895 / 95 -- Coal 890 / 895 / 5
Siltstone / 895 / 983 / 88 -- Sand/Shale / 983 / 1,090 / 107 -- Big Lime / 1,090 / 1,290 / 200
Big Injun / 1,290 / 1,340 / 50 -- Weir Sand / 1,340 / 1,630 / 290 -- Gantz / 1,630 / 1,990 / 360 --
Fifty Foot / 1,990 / 2,110 / 120 -- Fourth Sand / 2,110 / 2,340 / 230 -- Fifth Sand / 2,340 / 2,726 / 386 --
Speechley / 3,149 / 3,431 / 282 -- Bradford / 3,431 / 3,600 / 168 --
Balltown B / 3,600 / 3,847 / 247 -- -Riley / 3,847 / 4,459 / 611 --
Benson / 4,459 / 6,814 / 2,355 -- Sonyea / 6,814 / 7,175 / 360 -- Middlesex / 7,175 / 7,291 / 116 --
Genesee / 7,291 / 7,400 / 108 -- Geneseo / 7,400 / 7,450 / 50 -- Tully / 7,450 / 7,504 / 54 --
Hamilton / 7,504 / 7,632 / 128 -- Marcellus / 7,632 / 7,763 / 131

*Please Note: The above formation depths are based off of the pilot hole depths. The actual max TVD of the lateral is 7,550' which is in the Marcellus. The difference in the lithology and the pay zone is due to the drastic formation dip between the landing and the pilot hole location. *

Received
AUG - 9 2013

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WV Dept. of Environmental Protection

09/27/2013

91-01224

EQT WR-35	Completion	Attachment	Well 511506	Treatment	Summary

Stage 1	**Formation** MARCELLUS	**Frac Type** Slickwater			
Date 9/16/2011	**From / To** 11172 - 11414	**# of perfs**	**BD Press** 6,924.00	**ATP Psi** 8,000.00	**SIP Detail** 5 Min: 4259 10 Min: 15 Min:
Avg Rate 95.30	**Max Press PSI** 9,241.00	**ISIP** 4,549.00	**Frac Gradient** 1.04		
Sand Proppant 242,620.00	**Water-bbl** 8,005.00	**SCF N2**	**Acid-Gal** 2,000.00		

Stage 2	**Formation** MARCELLUS	**Frac Type** Slickwater			
Date 9/17/2011	**From / To** 10872 - 11114	**# of perfs**	**BD Press** 5,902.00	**ATP Psi** 7,968.00	**SIP Detail** 5 Min: 4654 10 Min: 4421 15 Min: 4284
Avg Rate 92.40	**Max Press PSI** 8,945.00	**ISIP** 5,254.00	**Frac Gradient** 1.14		
Sand 404,280.00	**Water-bbl** 10,151.00	**SCF N2**	**Acid-Gal** 2,000.00		

Stage 3	**Formation** MARCELLUS	**Frac Type** Slickwater			
Date 9/17/2011	**From / To** 10572 - 10814	**# of perfs**	**BD Press** 7,015.00	**ATP Psi** 7,579.00	**SIP Detail** 5 Min: 5075 10 Min: 4888 15 Min: 4728
Avg Rate 96.20	**Max Press PSI** 8,645.00	**ISIP** 5,260.00	**Frac Gradient** 1.14		
Sand 406,109.00	**Water-bbl** 10,334.00	**SCF N2**	**Acid-Gal** 2,000.00		

Stage 4	**Formation** MARCELLUS	**Frac Type** Slickwater			
Date 9/17/2011	**From / To** 10272 - 10514	**# of perfs**	**BD Press** 7,133.00	**ATP Psi** 7,564.00	**SIP Detail** 5 Min: 5483 10 Min: 5329 15 Min: 5224
Avg Rate 94.10	**Max Press PSI** 8,971.00	**ISIP** 5,825.00	**Frac Gradient** 1.21		
Sand 339,778.00	**Water-bbl** 10,187.00	**SCF N2**	**Acid-Gal** 2,000.00		

91-01224

Stage	Formation	Frac Type			
5	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/17/2011	9972 - 10214		6,409.00	7,726.00	5 Min: 5299
					10 Min: 5072
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4941
97.90	8,429.00	5,806.00	1.21		
Sand	**Water-bbl**	**SCF N2**	**Acid-Gal**		
402,250.00	9,969.00		2,000.00		

Stage	Formation	Frac Type			
6	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/18/2011	9672 - 9914		7,725.00	7,892.00	5 Min: 5670
					10 Min: 5525
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5414
97.40	8,620.00	5,894.00	1.22		
Sand	**Water-bbl**	**SCF N2**	**Acid-Gal**		
402,160.00	9,893.00		2,000.00		

Stage	Formation	Frac Type			
7	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/18/2011	9372 - 9614		7,301.00	7,987.00	5 Min: 5724
					10 Min: 5581
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5461
94.00	8,575.00	5,954.00	1.23		
Sand	**Water-bbl**	**SCF N2**	**Acid-Gal**		
400,400.00	9,700.00		2,000.00		

Stage	Formation	Frac Type			
8	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/18/2011	9072 - 9314		8,887.00	8,246.00	5 Min: 5775
					10 Min: 5580
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5430
89.00	8,967.00	6,286.00	1.27		
Sand	**Water-bbl**	**SCF N2**	**Acid-Gal**		
366,513.00	9,965.00		2,000.00		

91-01224

Stage	Formation	Frac Type			
9	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/18/2011	8772 - 9014		9,303.00	7,871.00	5 Min: 5769
					10 Min: 5558
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5385
89.80	9,303.00	6,261.00	1.27		
Sand	**Water-bbl**	**SCF N2**	**Acid-Gal**		
401,320.00	10,168.00		2,000.00		

Stage	Formation	Frac Type			
10	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/18/2011	8472 - 8714		7,610.00	7,586.00	5 Min: 5647
					10 Min: 5528
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5394
98.60	8,866.00	5,907.00	1.22		
Sand	**Water-bbl**	**SCF N2**	**Acid-Gal**		
401,350.00	10,390.00		2,000.00		

Stage	Formation	Frac Type			
11	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/19/2011	8172 - 8354		6,888.00	7,442.00	5 Min: 5652
					10 Min: 5524
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5419
100.10	8,620.00	5,971.00	1.22		
Sand	**Water-bbl**	**SCF N2**	**Acid-Gal**		
399,820.00	9,852.00		2,000.00		

Stage	Formation	Frac Type			
12	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/19/2011	7872 - 8114		7,088.00	7,772.00	5 Min: 5578
					10 Min: 5471
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5392
94.60	8,578.00	6,018.00	1.23		
Sand	**Water-bbl**	**SCF N2**	**Acid-Gal**		
400,630.00	9,819.00		2,000.00		

91-01224

Stage	Formation	Frac Type			
13	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/19/2011	7722 - 7844		7,188.00	8,006.00	5 Min: 4646
					10 Min: 4595
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4561
82.00	9,302.00	6,731.00	1.33		
Sand	**Water-bbl**	**SCF N2**	**Acid-Gal**		
163,600.00	6,449.00		3,000.00		