

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: 1/28/2013 ✓  
API #: 47-08509933

Farm name: Dewayne Britton, et ux Operator Well No.: 513040

LOCATION: Elevation: 1,116 Quadrangle: Pennsboro

District: Clay County: Ritchie, WV  
Latitude: 10.780 Feet South of 39 Deg. 17 Min. 30 Sec.  
Longitude 9.950 Feet West of 80 Deg. 55 Min. 00 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	20	40	40	45
Agent: <u>Cecil Ray</u>	13 3/8	1,090	1,090	1,016
Inspector: <b>David Cowan</b>	9 5/8	5,359	5,359	2,212
Date Permit Issued: <u>11/18/2011</u>	5 1/2	12,567	12,567	2,066
Date Well Work Commenced: <u>4/16/2012</u>				
Date Well Work Completed: <u>8/13/2012</u>				
Verbal Plugging: <u>N/A</u>				
Date Permission granted on: <u>N/A</u>				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): <u>6,416'</u>				
Total Measured Depth (ft): <u>12,568'</u>				
Fresh Water Depth (ft.): <u>83', 157', 170', 242', 394', 770', 873'</u>				
Salt Water Depth (ft.): <u>No show observed.</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>273', 560', 749'</u>				
Void(s) encountered (N/Y) Depth(s) <u>N</u>				

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

Producing formation Marcellus Pay zone depth (ft) 6,374'  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 9,870 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure 2,243 psig (surface pressure) after \_\_\_\_\_ 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.

*John Britton*  
Signature

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Date

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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 Gamma Ray and CBL

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 / 273 / 273 -- Coal / 273 / 281 / 8

Sand & Shale / 281 / 560 / 279 -- Coal / 560 / 566 / 6 -- Sand & Shale / 566 / 749 / 183 --

Coal / 749 / 753 / 4 -- Sand & Shale / 753 / 1,749 / 996 --

Maxton / 1,749 / 1,968 / 219 -- Big Lime / 1,968 / 2,037 / 69 -- Keener / 2,037 / 2,080 / 43 --

Big Injun / 2,080 / 2,376 / 296 -- Weir / 2,376 / 2,581 / 205 -- Gantz / 2,581 / 2,720 / 139 --

Fifty foot / 2,720 / 2,802 / 82 -- Thirty foot / 2,802 / 2,845 / 43 -- Gordon / 2,845 / 2,927 / 82 --

Forth Sand / 2,927 / 3,072 / 145 -- Fifth Sand / 3,072 / 3,115 / 43 -- Bayard / 3,115 / 3,465 / 350 --

Warren / 3,465 / 3,546 / 81 -- Speechley / 3,546 / 3,930 / 384 -- Balltown A / 3,930 / 4,196 / 266 --

Balltown B / 4,196 / 4,340 / 144 -- Bradford / 4,340 / 4,581 / 241 -- Riley / 4,581 / 4,949 / 368 --

Java / 4,949 / 5,015 / 66 -- Benson / 5,015 / 5,212 / 197 -- Alexander / 5,212 / 5,260 / 48 --

Angola / 5,260 / 6,106 / 846 -- Sonyea / 6,106 / 6,220 / 114 -- Middlesex / 6,220 / 6,260 / 40 --

Genesee / 6,260 / 6,325 / 65 -- Geneseo / 6,325 / 6,355 / 30 -- Tully / 6,355 / 6,368 / 13 --

Hamilton / 6,368 / 6,374 / 6 -- Marcellus / 6,374 / 6,416 / 42

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EQT WR-35		Completion	Attachment	Well	Treatment	Summary
<b>Stage</b>	<b>Formation</b>	<b>Frac Type</b>				
1	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>	
7/17/2012	12266 - 12509		8,718.00	7,387.00	5 Min: 2238	
					10 Min: 2118	
					15 Min: 2047	
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>			
85.50	9,091.00	2,699.00	0.86			
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>			
407,541.00	11,921.00		2,000.00			
<b>Stage</b>	<b>Formation</b>	<b>Frac Type</b>				
2	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>	
7/17/2012	11966 - 12208		6,658.00	6,757.00	5 Min: 2507	
					10 Min: 2367	
					15 Min: 2288	
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>			
96.30	7,980.00	2,985.00	0.9			
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>			
406,623.00	9,541.00		750.00			
<b>Stage</b>	<b>Formation</b>	<b>Frac Type</b>				
3	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>	
7/17/2012	11666 - 11906		5,365.00	6,756.00	5 Min: 2658	
					10 Min: 2518	
					15 Min: 2424	
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>			
99.80	7,474.00	3,035.00	0.91			
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>			
405,034.00	9,133.00		750.00			
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Stage	Formation	Frac Type				
4	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
7/18/2012	11366 - 11608		6,048.00	7,167.00	5 Min: 2768	
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 2588	
98.60	8,575.00	3,333.00	0.96		15 Min: 2564	
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
404,864.00	9,055.00		750.00			
Stage	Formation	Frac Type				
5	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
7/18/2012	11066 - 11308		5,370.00	7,269.00	5 Min: 2553	
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 2410	
99.82	7,952.00	3,122.00	0.92		15 Min: 2325	
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
403,226.00	9,473.00		750.00			
Stage	Formation	Frac Type				
6	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
8/10/2012	10766 - 11008		5,606.00	7,080.00	5 Min: 2356	
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 2230	
100.40	7,692.00	2,707.00	0.86		15 Min: 2137	
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
396,944.00	10,058.00		750.00			

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Stage	Formation	Frac Type				
7	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
8/10/2012	10466 - 10708		5,948.00	7,344.00	5 Min: 2921	
					10 Min: 2645	
					15 Min: 2483	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
99.80	8,919.00	4,020.00	1.06			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
347,975.00	9,551.00		750.00			
Stage	Formation	Frac Type				
8	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
8/10/2012	#Error		5,857.00	6,997.00	5 Min: 3318	
					10 Min: 2974	
					15 Min: 2768	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
99.00	6,997.00	4,455.00	1.13			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
281,087.00	9,002.00		750.00			
Stage	Formation	Frac Type				
9	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
8/11/2012	9866 - 10106		5,773.00	6,530.00	5 Min: 2916	
					10 Min: 2659	
					15 Min: 2483	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
98.40	6,986.00	3,547.00	0.99			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
396,792.00	10,112.00		750.00			

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Stage	Formation	Frac Type				
10	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
8/11/2012	9566 - 9808		5,449.00	6,895.00	5 Min: 3293	
					10 Min: 2808	
					15 Min: 2580	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
100.00	7,425.00	4,941.00	1.2			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
396,284.00	10,473.00		750.00			
Stage	Formation	Frac Type				
11	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
8/11/2012	9266 - 9508		5,447.00	6,556.00	5 Min: 2710	
					10 Min: 2535	
					15 Min: 2431	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
94.10	6,892.00	3,813.00	0.98			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
398,737.00	10,020.00		750.00			
Stage	Formation	Frac Type				
12	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
8/11/2012	8966 - 9208		5,395.00	6,536.00	5 Min: 3179	
					10 Min: 2868	
					15 Min: 2671	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
100.20	7,607.00	3,632.00	1			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
393,493.00	9,708.00		750.00			

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Stage	Formation	Frac Type				
13	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
8/12/2012	8866 - 8908		5,293.00	6,206.00	5 Min: 2542	
					10 Min: 2408	
					15 Min: 2335	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
100.50	6,503.00	3,133.00	0.92			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
401,698.00	9,979.00		750.00			
Stage	Formation	Frac Type				
14	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
8/12/2012	8366 - 8608		5,390.00	6,751.00	5 Min: 3699	
					10 Min: 3393	
					15 Min: 3234	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
97.90	7,852.00	5,479.00	1.28			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
374,519.00	9,739.00		750.00			
Stage	Formation	Frac Type				
15	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
8/12/2012	8066 - 8308		5,901.00	6,441.00	5 Min: 3017	
					10 Min: 2747	
					15 Min: 2614	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
97.20	6,922.00	3,736.00	0.98			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
400,672.00	9,936.00		750.00			

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Stage	Formation	Frac Type			
16	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
8/12/2012	7766 - 8006		5,416.00	6,277.00	5 Min: 2805
					10 Min: 2511
					15 Min: 2355
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
100.30	6,539.00	3,821.00	1.03		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
401,264.00	9,742.00		750.00		
Stage	Formation	Frac Type			
17	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
8/12/2012	7466 - 7708		5,354.00	6,304.00	5 Min: 2711
					10 Min: 2475
					15 Min: 2330
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
100.40	6,509.00	3,524.00	0.98		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
397,392.00	9,621.00		750.00		
Stage	Formation	Frac Type			
18	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
8/13/2012	7166 - 7408		4,792.00	6,068.00	5 Min: 2757
					10 Min: 2583
					15 Min: 2472
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
99.90	6,296.00	3,336.00	0.95		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
394,415.00	7,891.00		750.00		

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Stage	Formation	Frac Type			
19	MARCELLUS	Slickwater			
Date	From / To	# of perms	BD Press	ATP Psi	SIP Detail
8/13/2012	6866 - 7108		5,798.00	5,965.00	5 Min: 2530
					10 Min: 2394
					15 Min: 2310
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
100.20	6,464.00	3,240.00	0.92		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
398,309.00	9,638.00		750.00		

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