

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: 6-3-2013  
API #: 47-1705986 Amended

Farm name: Jackson Leeson, et al Operator Well No.: 512418

LOCATION: Elevation: 1,169' Quadrangle: Oxford

District: Southwest County: Doddridge, WV  
Latitude: 7,850 Feet South of 39 Deg. 10 Min. 00 Sec.  
Longitude 6,420 Feet West of 80 Deg. 47 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	20	42	42	40
Agent: Cecil Ray	13 3/8	1,165	1,165	1,028
Inspector: <b>David Scrange</b>	9 5/8	3,044	3,044	1,137
Date Permit Issued: 12-15-2010	5 1/2	9,853	9,853	1,140
Date Well Work Commenced: 12-23-2010				
Date Well Work Completed: 12-17-2010				
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6,629 (plugged back to 5,765')				
Total Measured Depth (ft): 9,875				
Fresh Water Depth (ft.): 270, 335				
Salt Water Depth (ft.): 1,821				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): No coal encountered during drilling				
Void(s) encountered (N/Y) Depth(s) N				

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

Producing formation Marcellus Pay zone depth (ft) 6,542  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 9,504 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure 1,936 psig (surface pressure) after 44 Hours

Second producing formation N/A 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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Office of Oil and Gas  
WV Dept. of Environmental Protection

6-3-2013  
Date

08/09/2013

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

17-05986

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 Gyro, MWD-Gamma & Open-Hole 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):

**Solid cement plug from 6,629' to 5,765'**

Formations Encountered:	Top Depth	Bottom Depth
Surface:		

Shale / 0 / 50 / 50 -- Sandstone / 50 / 185 / 135 -- Red Rock / 185 / 245 / 60 --
Sandstone / 245 / 280 / 35 -- Red Rock / 280 / 390 / 110 -- Sandstone / 390 / 600 / 210 --
Red Rock / 600 / 623 / 23 -- Sandstone / 623 / 720 / 97 -- Shale / 720 / 850 / 130 -- Sandstone / 850 / 983 / 143 --
Shale / 983 / 1,140 / 157 -- Sandstone / 1,140 / 1,820 / 680 -- Sand / 1,820 / 1,865 / 45 --
Limestone / 1,865 / 1,977 / 112 -- Sandstone / 1,977 / 2,175 / 198 --
Limestone / 2,175 / 2,267 / 92 -- Sandstone / 2,267 / 2,350 / 83 -- Siltstone / 2,350 / 3,070 / 720 --
Gordon Sandstone / 3,070 / 3,188 / 118 -- Warren / 3,188 / 3,253 / 65 -- B-5 / 3,252 / 3,266 / 13 --
Speechley / 3,266 / 3,967 / 700 -- Balltown B / 3,967 / 4,380 / 413 -- Riley / 4,380 / 4,782 / 402 --
Benson / 4,782 / 5,039 / 257 -- Alexander / 5,039 / 6,346 / 1,307
Middlesex / 6,346 / 6,412 / 65 -- Genesee / 6,412 / 6,469 / 57 -- Genesee / 6,469 / 6,511 / 42 --
Tully / 6,511 / 6,529 / 17 -- Hamilton / 6,529 / 6,542 / 12 -- Marcellus / 6,542 / 6,609 / 67 --
Onondaga / 6,609 / 6,629 / 20

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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>	
12/13/2011	9592 - 9834		4,430.00	7,002.00	5 Min: 3719	
					10 Min: 3171	
					15 Min: 2880	
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>			
95.90	8,796.00	5,060.00	1.2			
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>			
360,670.00	9,746.00		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>	
12/13/2011	9292 - 9534		5,701.00	7,013.00	5 Min: 3415	
					10 Min: 2884	
					15 Min: 2686	
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>			
98.80	7,350.00	4,173.00	1.07			
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>			
405,500.00	10,904.00		1,000.00			
<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>	
12/14/2011	8992 - 9234		6,597.00	7,469.00	5 Min: 4244	
					10 Min: 3803	
					15 Min: 3505	
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>			
97.20	8,442.00	4,920.00	1.18			
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>			
407,035.00	11,580.00		1,000.00			

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EQT WR-35	Completion	Attachment	Well	Treatment	Summary
<b>Stage</b>	<b>Formation</b>	<b>Frac Type</b>			
4	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>
12/15/2011	8692 - 8934		5,709.00	7,685.00	5 Min: 4780
					10 Min: 4413
					15 Min: 4144
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>		
83.00	9,045.00	4,948.00	1.14		
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>		
399,600.00	16,903.00		2,000.00		
<b>Stage</b>	<b>Formation</b>	<b>Frac Type</b>			
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>
12/15/2011	8392 - 8634		6,794.00	6,750.00	5 Min: 4499
					10 Min: 4343
					15 Min: 4172
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>		
100.40	7,405.00	4,683.00	1.14		
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>		
404,430.00	10,197.00		1,000.00		
<b>Stage</b>	<b>Formation</b>	<b>Frac Type</b>			
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>
12/15/2011	8092 - 8334		6,300.00	6,524.00	5 Min: 4459
					10 Min: 4195
					15 Min: 4025
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>		
94.80	6,849.00	4,960.00	1.18		
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>		
404,660.00	9,467.00		1,000.00		

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<b>Stage</b>	<b>Formation</b>	<b>Frac Type</b>				
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>	
12/16/2011	7792 - 8034		6,948.00	6,776.00	5 Min: 4450	
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>		10 Min: 4186	
96.27	7,244.00	4,812.00	1.16		15 Min: 4009	
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>			
405,840.00	9,945.00		1,000.00			
<b>Stage</b>	<b>Formation</b>	<b>Frac Type</b>				
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>	
12/16/2011	7492 - 7734		7,236.00	7,717.00	5 Min: 4576	
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>		10 Min: 4466	
96.90	9,358.00	4,688.00	1.13		15 Min: 4297	
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>			
401,496.00	13,121.00		1,000.00			
<b>Stage</b>	<b>Formation</b>	<b>Frac Type</b>				
9	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>	
12/16/2011	7192 - 7434		5,655.00	6,476.00	5 Min: 4596	
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>		10 Min: 4377	
94.90	6,758.00	4,957.00	1.18		15 Min: 4216	
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>			
405,520.00	8,733.00		1,000.00			

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EQT WR-35	Completion	Attachment	Well	Treatment	Summary
<b>Stage</b>	<b>Formation</b>	<b>Frac Type</b>			
10	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>
12/17/2011	6892 - 7134		6,539.00	6,614.00	5 Min: 4378
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>		10 Min: 4192
94.50	7,025.00	4,729.00	1.15		15 Min: 4040
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>		
404,080.00	10,708.00		1,000.00		
<b>Stage</b>	<b>Formation</b>	<b>Frac Type</b>			
11	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>
12/17/2011	6727 - 6849		5,571.00	6,567.00	5 Min: 4646
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>		10 Min: 4401
97.31	6,764.00	5,149.00	1.22		15 Min: 4242
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>		
204,240.00	5,512.00		1,000.00		

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