

JR

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: 09/18/2013
API #: 47-8509990

PM

Farm name: Mary Jane Wilson ET AL Operator Well No.: 513026

LOCATION: Elevation: 957' Quadrangle: Pennsboro

District: Clay County: Ritchie
Latitude: 12.908 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 2.087 Feet West of 80 Deg. 57 Min. 30 Sec.

Company: EQT Production Company

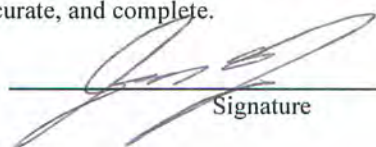
Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
EQT Plaza, Suite 1700 625 Liberty Ave, Pittsburgh PA 15222	20"	40'	40'	45
Agent: <u>Rex C. Ray</u>	13-3/8"	833'	833'	887
Inspector: <u>David Cowan</u>	9-5/8"	5,090'	5,090'	2113
Date Permit Issued: <u>03/26/2013</u>	5-1/2"	9,183'	9,183'	1060
Date Well Work Commenced: <u>4/27/2013</u>				
Date Well Work Completed: <u>09/17/2013</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>6,275'</u>				
Total Measured Depth (ft): <u>9,183'</u>				
Fresh Water Depth (ft.): <u>137'</u>				
Salt Water Depth (ft.): <u>N/A</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>155' & 563'</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) 6,260
Gas: Initial open flow 7.776 MCF/d Oil: Initial open flow 132 Bbl/d
Final open flow 9.792 MCF/d Final open flow 79.2 Bbl/d
Time of open flow between initial and final tests 26.5 Hours
Static rock Pressure 1,168 psig (surface pressure) after 45 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

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

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WV Department of
Environmental Protection
3/25/2014
Date 06/27/2017

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, Gamma, Open Hole logs, & 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

Amended report with FB Data

Plug Back Details Including Plug Type and Depth(s): **N/A**

Formations Encountered:	Top Depth	/	Bottom Depth
Surface:			

SAND/SHALE 0/ 155/ 155 -- COAL 155/ 157/ 2 -- SAND/SHALE 157/ 563/ 406 -- PITTSBURGH COAL 563/ 565/ 2 --			
SAND/SHALE 565/ 1625/ 1060 -- MAXTON 1625/ 1919/ 293 -- BIG LIME 1919/ 1963/ 44 -- KEENER 1963/ 2238/ 275 --			
WEIR 2238/ 2459/ 222 -- GANTZ 2459/ 2660/ 200 -- 30F 2660/ 2697/ 37 -- GORDON 2697/ 2778/ 82 --			
4TH 2778/ 3341/ 563 -- WARREN 3341/ 3375/ 34 -- SPEECHLEY 3375/ 4436/ 1060 -- RILEY 4436/ 4763/ 328 --			
JAVA 4763/ 5035/ 272 -- ALEXANDER 5035/ 5891/ 855 -- RHINESTREET 5891/ 5960/ 70 -- SONYEA 5960/ 6066/ 106 --			
MIDDLESEX 6066/ 6115/ 49 -- GENESSEE 6115/ 6175/ 60 -- GENESEO 6175/ 6203/ 28 -- TULLY 6203/ 6214/ 11 --			
HAMILTON 6214/ 6220/ 6 -- MARCELLUS 6220/ 6260/ 55 -- ONONDAGA 6260/ 6275/ 15			

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06/27/2017

513026 - Perforations

<i>Zone/Stage</i>	<i>Date</i>	<i>Top Plug Depth (ftKB)</i>	<i>Bottom Plug Depth (ftKB)</i>	<i>Top Perf Depth (ftKB)</i>	<i>Bottom Perf Depth (ftKB)</i>	<i>Shots/ft</i>
Toe Pop	10/30/13 20:00	9,021.00	NA	9,156.00	9,158.00	NA
1	10/30/13 22:15	9,021.00	NA	9,035.00	9,127.00	4
2	10/31/13 2:08	8,871.00	9,021.00	8,885.00	9,007.00	4
3	10/31/13 6:05	8,721.00	8,871.00	8,735.00	8,857.00	4
4	10/31/13 9:47	8,571.00	8,721.00	8,585.00	8,707.00	4
5	10/31/13 14:07	8,421.00	8,575.00	8,435.00	8,555.00	4
6	10/31/13 20:39	8,271.00	8,421.00	8,285.00	8,407.00	4
7	11/1/13 1:28	8,121.00	8,271.00	8,135.00	8,257.00	4
8	11/1/13 5:15	7,971.00	8,121.00	7,985.00	8,107.00	4
9	11/1/13 8:31	7,821.00	7,971.00	7,835.00	7,957.00	4
10	11/1/13 13:31	7,671.00	7,821.00	7,685.00	7,807.00	4
11	11/1/13 18:20	7,521.00	7,671.00	7,535.00	7,657.00	4
12	11/1/13 21:46	7,371.00	7,521.00	7,385.00	7,507.00	4
13	11/2/13 1:15	7,221.00	7,371.00	7,235.00	7,357.00	4
14	11/2/13 4:30	7,071.00	7,221.00	7,085.00	7,207.00	4
15	11/2/13 8:19	6,921.00	7,071.00	6,935.00	7,057.00	4
16	11/2/13 12:30	6,771.00	6,921.00	6,785.00	6,907.00	4
17	11/2/13 16:30	NA	6,771.00	6,635.00	6,757.00	4

85.0990

513026 - Stimulated Stages

Zone/Stage	P Break (psi)	Avg Treat Pressure (psi)	Avg rate (bbl/min)	ISIP (psi)	Frac Gradient (psi/ft)	15 Min. SIP (psi)	Fluid Volume (bbl)	Start Date	End Date	Prappant (lb)
Toe Pop	NA	7,042.00	16.2	NA	NA	NA	794	10/30/2013 19:11	10/30/2013 20:43	NA
1	5,531.00	8,087.00	95.4	3,878.00	1.05	2,025.00	5,308	10/30/2013 23:19	10/31/2013 0:39	200,540
2	5,789.00	7,630.00	97.3	3,783.00	1.04	2,211.00	5,059	10/31/2013 3:22	10/31/2013 4:32	201,165
3	6,905.00	7,772.00	99.7	3,921.00	1.06	2,225.00	5,149	10/31/2013 7:12	10/31/2013 8:21	201,568
4	6,483.00	7,766.00	95.7	3,771.00	1.04	2,312.00	4,970	10/31/2013 11:23	10/31/2013 12:32	200,685
5	5,453.00	7,592.00	99.3	3,502.00	1	2,366.00	5,035	10/31/2013 16:37	10/31/2013 17:48	199,595
6	5,621.00	7,505.00	96.8	4,625.00	1.17	2,665.00	4,850	10/31/2013 23:02	11/1/2013 0:10	188,430
7	5,423.00	7,259.00	99.1	4,128.00	1.09	2,396.00	4,983	11/1/2013 2:31	11/1/2013 3:37	201,548
8	5,771.00	7,477.00	95.9	4,596.00	1.17	2,662.00	5,586	11/1/2013 6:21	11/1/2013 7:34	200,972
9	5,724.00	7,708.00	97.2	4,499.00	1.15	2,717.00	4,852	11/1/2013 10:56	11/1/2013 12:02	185,127
10	1,501.00	7,528.00	98.2	3,925.00	1.06	2,558.00	5,192	11/1/2013 15:47	11/1/2013 16:56	200,742
11	5,704.00	7,316.00	99.6	3,869.00	1.05	2,629.00	4,880	11/1/2013 19:24	11/1/2013 20:28	201,698
12	6,530.00	7,279.00	99.5	4,024.00	1.08	2,530.00	4,935	11/1/2013 22:54	11/1/2013 23:58	201,658
13	6,309.00	7,225.00	99.5	3,667.00	1.02	2,679.00	5,082	11/2/2013 2:36	11/2/2013 3:42	201,088
14	6,416.00	7,038.00	97.4	3,691.00	1.02	2,473.00	4,729	11/2/2013 6:21	11/2/2013 7:26	200,505
15	6,449.00	6,804.00	93.5	4,129.00	1.09	2,467.00	4,667	11/2/2013 9:52	11/2/2013 10:57	201,081
16	6,403.00	6,937.00	98.3	4,371.00	1.13	2,620.00	4,633	11/2/2013 14:07	11/2/2013 15:09	200,543
17	5,688.00	7,406.00	100.0	4,224.00	1.11	2,731.00	4,785	11/2/2013 18:05	11/2/2013 19:09	201,005

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