

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: 09/16/2013
API #: 47-8509988

PM

Farm name: Mary Jane Wilson ET AL Operator Well No.: 513024

LOCATION: Elevation: 957' Quadrangle: Pennsboro

District: Clay County: Ritchie
Latitude: 12.894 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 2.082 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'	45.3
Agent: Rex C. Ray	13-3/8"	956'	956'	944
Inspector: David Cowan	9-5/8"	5,112'	5,112'	2128.9
Date Permit Issued: 11/27/2012	5-1/2"	10,407'	10,407'	1,339.6
Date Well Work Commenced: 5/16/2013				
Date Well Work Completed: 09/09/2013				
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): 6,258				
Total Measured Depth (ft): 10,427'				
Fresh Water Depth (ft.): 137'				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 157 and 565				
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) 6,223
Gas: Initial open flow 2,688 MCF/d Oil: Initial open flow 120 Bbl/d
Final open flow 10,272 MCF/d Final open flow 72 Bbl/d
Time of open flow between initial and final tests 91.5 Hours
Static rock Pressure 1,321 psig (surface pressure) after 94 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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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

3/25/2014
Date

06/27/2017

85.09988

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, & 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
<u>Surface:</u>			

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	1919/2238/319	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	5035/5778/743	RHINESTREET	5778/5962/183	SONYEA	5962/6069/108	MIDDLESEX	6069/6121/51	
GENESEE	6121/6187/66	GENESEO	6187/6206/19	TULLY	6206/6218/12	HAMILTON	6218/6223/5	MARCELLUS 6223/6258/35

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513024 - Perforations

Zone/Stage	Date	Top Plug Depth (ftKB)	Bottom Plug Depth (ftKB)	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Shots/ft
Toe Pop	10/26/13 8:37	10,262.00	NA	10,397.00	10,399.00	NA
1	10/26/13 12:31	10,262.00	NA	10,276.00	10,368.00	4
2	10/26/13 19:41	10,112.00	10,262.00	10,126.00	10,248.00	4
3	10/27/13 0:06	9,962.00	10,112.00	9,976.00	10,098.00	4
4	10/27/13 4:47	9,812.00	9,962.00	9,826.00	9,948.00	4
5	10/27/13 9:21	9,662.00	9,812.00	9,676.00	9,798.00	4
6	10/27/13 14:00	9,512.00	9,662.00	9,526.00	9,648.00	4
7	10/27/13 17:30	9,362.00	9,512.00	9,376.00	9,498.00	4
8	10/27/13 21:39	9,212.00	9,362.00	9,226.00	9,348.00	4
9	10/28/13 1:00	9,062.00	9,212.00	9,076.00	9,198.00	4
10	10/28/13 5:21	8,912.00	9,062.00	8,926.00	9,048.00	4
11	10/28/13 8:58	8,762.00	8,912.00	8,776.00	8,898.00	4
12	10/28/13 13:59	8,612.00	8,762.00	8,626.00	8,748.00	4
13	10/28/13 18:00	8,462.00	8,612.00	8,476.00	8,598.00	4
14	10/28/13 21:40	8,312.00	8,462.00	8,326.00	8,448.00	4
15	10/29/13 2:28	8,162.00	8,312.00	8,176.00	8,298.00	4
16	10/29/13 6:46	8,012.00	8,162.00	8,026.00	8,143.00	4
17	10/29/13 10:14	7,862.00	8,012.00	7,876.00	7,996.00	4
18	10/29/13 14:23	7,712.00	7,862.00	7,726.00	7,448.00	4
19	10/29/13 17:28	7,562.00	7,712.00	7,576.00	7,698.00	4
20	10/29/13 21:23	7,412.00	7,562.00	7,426.00	7,544.00	4
21	10/30/13 0:46	7,262.00	7,412.00	7,276.00	7,398.00	4
22	10/30/13 4:06	7,116.00	7,262.00	7,126.00	7,248.00	4
23	10/30/13 7:00	NA	7,116.00	6,976.00	7,098.00	4

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513024 - 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	Proppant (lb)
Toe Pop	NA	8,229.00	32.7	NA	NA	NA	830	10/26/2013 8:38	10/26/2013 9:21	NA
1	7,411.00	8,240.00	32.0	7,181.00	1.58	3,652.00	7,791	10/26/2013 13:47	10/26/2013 18:02	130,043
2	5,552.00	7,759.00	91.1	3,193.00	0.94	1,816.00	4,850	10/26/2013 21:04	10/26/2013 22:21	201,202
3	5,681.00	7,707.00	94.8	5,081.00	1.25	2,746.00	4,989	10/27/2013 1:48	10/27/2013 3:02	200,702
4	5,313.00	8,043.00	100.5	4,268.00	1.12	2,111.00	4,888	10/27/2013 6:48	10/27/2013 7:54	200,623
5	6,108.00	8,103.00	98.1	3,661.00	1.02	2,086.00	4,876	10/27/2013 10:29	10/27/2013 11:34	200,321
6	5,717.00	7,929.00	99.8	4,965.00	1.23	2,676.00	4,919	10/27/2013 15:01	10/27/2013 16:08	201,479
7	6,826.00	7,984.00	97.2	4,975.00	1.23	2,687.00	4,919	10/27/2013 18:48	10/27/2013 19:57	201,274
8	5,734.00	7,466.00	98.1	5,107.00	1.21	3,194.00	4,949	10/27/2013 22:30	10/28/2013 2:00	200,503
9	5,536.00	7,375.00	99.1	5,047.00	1.2	3,361.00	5,041	10/28/2013 2:37	10/28/2013 3:47	200,489
10	5,911.00	7,526.00	100.7	4,191.00	1.07	2,406.00	4,850	10/28/2013 6:27	10/28/2013 7:31	199,942
11	6,442.00	7,647.00	101.1	4,012.00	1.07	2,240.00	4,875	10/28/2013 11:28	10/28/2013 12:32	201,558
12	6,983.00	7,583.00	94.5	3,555.00	1	2,386.00	4,930	10/28/2013 15:01	10/28/2013 16:09	201,005
13	7,581.00	7,469.00	95.2	4,442.00	1.14	2,511.00	4,963	10/28/2013 18:45	10/28/2013 23:00	200,491
14	7,343.00	7,547.00	97.6	4,247.00	1.11	2,460.00	4,970	10/28/2013 23:59	10/29/2013 2:00	200,505
15	6,546.00	7,654.00	96.7	4,718.00	1.19	2,474.00	6,122	10/29/2013 3:59	10/29/2013 5:19	201,001
16	6,411.00	7,417.00	100.0	4,720.00	1.19	2,610.00	4,734	10/29/2013 7:48	10/29/2013 8:48	200,234
17	7,346.00	7,369.00	100.1	3,974.00	1.07	2,373.00	4,841	10/29/2013 12:00	10/29/2013 13:04	199,549
18	7,790.00	7,227.00	100.0	3,855.00	1.05	2,389.00	4,800	10/29/2013 15:11	10/29/2013 16:14	199,940
19	6,857.00	7,207.00	98.9	3,782.00	1.04	2,683.00	3,527	10/29/2013 18:57	10/29/2013 20:18	199,766
20	6,818.00	7,251.00	99.8	4,255.00	1.11	2,317.00	4,742	10/29/2013 22:27	10/29/2013 23:28	200,395
21	7,194.00	7,574.00	99.5	4,368.00	1.13	2,152.00	4,787	10/30/2013 1:42	10/30/2013 2:45	201,254
22	5,984.00	7,462.00	100.0	4,716.00	1.19	2,373.00	4,665	10/30/2013 5:00	10/30/2013 6:01	200,303
23	5,984.00	6,892.00	100.2	3,515.00	1	2,108.00	5,001	10/30/2013 8:20	10/30/2013 9:23	200,966

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