

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: 1/7/2014  
API #: 47-1706199

HCA

Farm name: Eleanor Meyer Operator Well No.: 513768

LOCATION: Elevation: 1068 Quadrangle: West Union 7.5

District: West Union County: Doddridge  
Latitude: 7,930 Feet South of 39 Deg. 17 Min. 30 Sec.  
Longitude 5,196 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	20"	40'	40'	45
625 LIBERTY AVE, PITTSBURGH, PA 15222	13-3/8"	755'	755'	714
Agent: Rex C. Ray	9-5/8"	2981'	2981'	1251
Inspector: <b>Sam Ward</b>	5-1/2"	14053'	14053'	2867
Date Permit Issued: <u>04/24/2013</u>				
Date Well Work Commenced: <u>6/26/2013</u>				
Date Well Work Completed: <u>12/30/2013</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>6,744'</u>				
Total Measured Depth (ft): <u>14,055'</u>				
Fresh Water Depth (ft.): <u>126,271,296, &amp; 649</u>				
Salt Water Depth (ft.): <u>1702 &amp; 1851</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>220-227 &amp; 837-840</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) 6,649  
Gas: Initial open flow 4.416 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 7.824 MCF/d Final open flow 16.8 Bbl/d  
Time of open flow between initial and final tests 16.1 Hours  
Static rock Pressure 1,216 psig (surface pressure) after 20.7 Hours

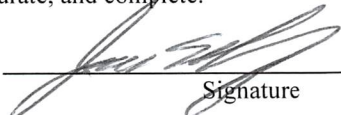
Second producing formation NA Pay zone depth (ft) NA  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ 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

6/26/2014  
Date

Were core samples taken? Yes \_\_\_\_\_ No

Were cuttings caught during drilling? Yes  No \_\_\_\_\_

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list MWD, 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:

Amended Report with Flow Back Data

Screenout and Injection Test on stg 39

Plug Back Details Including Plug Type and Depth(s): Pumped 41bbls/205sks of plug cement @ 16.0 ppg, 1.13 yld, 2% CaCl after dropping bit breaker @ 4,367'.

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
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Formations:

SAND / SHALE 0/ 220/ 220 -- COAL 220/ 227/ 7 -- SAND / SHALE 227/ 837/ 610 -- COAL 837/ 840/ 3 -- SAND / SHALE 840/ 1589/ 749 -- MAXTON 1589/ 1604/ 15

SAND / SHALE 1604/ 1796/ 192 -- BIG LIME 1796/ 1897/ 101 -- BIG INJUN 1897/ 2106/ 209 -- WEIR 2106/ 2206/ 100 -- SAND / SHALE 2206/ 2306/ 100 -- GANTZ 2306/ 2417/ 111

FIFTY FOOT 2417/ 2513/ 96 -- THIRTY FOOT 2513/ 2567/ 54 -- GORDON 2567/ 2658/ 91 -- FORTH SAND 2658/ 2832/ 174 -- BAYARD 2832/ 3336/ 504 -- WARREN 3336/ 3424/ 88

SPEECHLEY 3424/ 4060/ 636 -- BALLTOWN B 4060/ 4311/ 251 -- BRADFORD 4311/ 4549/ 237 -- RILEY 4549/ 4956/ 407 -- BENSON 4956/ 5169/ 213

ALEXANDER 5169/ 6297/ 1128 -- Sonyea 6297/ 6442/ 145 -- Middlesex 6442/ 6496/ 54 -- Genesee 6496/ 6564/ 68 -- Genesee 6564/ 6608/ 44 -- Tully 6608/ 6630/ 22

Hamilton 6630/ 6649/ 19 -- Marcellus 6649/ 6744/ 96 --

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**513768 - 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	2/20/14 2:00	13,878.00	NA	12,025.00	14,027.00	NA
1	2/20/14 4:00	13,878.00	NA	13,904.00	13,996.00	4
2	2/21/14 2:00	13,740.00	13,878.00	13,753.00	13,866.00	4
3	2/21/14 9:50	13,590.00	13,740.00	13,604.00	13,726.00	4
4	2/21/14 15:10	13,440.00	13,590.00	13,454.00	13,576.00	4
5	2/21/14 22:01	13,290.00	13,440.00	13,304.00	13,426.00	4
6	2/22/14 3:22	13,140.00	13,290.00	13,154.00	13,272.00	4
7	2/22/14 8:07	12,990.00	13,140.00	13,004.00	13,120.00	4
8	2/22/14 13:39	12,840.00	12,990.00	12,854.00	12,976.00	4
9	2/22/14 18:45	12,690.00	12,840.00	12,704.00	12,826.00	4
10	2/22/14 23:29	12,540.00	12,690.00	12,554.00	12,676.00	4
11	2/23/14 4:00	12,390.00	12,540.00	12,404.00	12,526.00	4
12	2/23/14 8:10	12,240.00	12,390.00	12,254.00	12,376.00	4
13	2/23/14 12:53	12,084.00	12,240.00	12,104.00	12,220.00	4
14	2/23/14 18:57	11,940.00	12,084.00	11,954.00	12,086.00	4
15	2/24/14 0:35	11,790.00	11,940.00	11,804.00	11,942.00	4
16	2/24/14 5:11	11,640.00	11,792.00	11,658.00	11,774.00	4
17	2/24/14 9:38	11,490.00	11,640.00	11,504.00	11,626.00	4
18	2/24/14 14:07	11,340.00	11,490.00	11,354.00	11,476.00	4
19	2/24/14 19:30	11,190.00	11,340.00	11,204.00	11,324.00	4
20	2/24/14 23:35	11,040.00	11,190.00	11,054.00	11,174.00	4
21	2/25/14 16:45	10,890.00	11,040.00	10,902.00	11,014.00	4
22	2/26/14 0:30	10,740.00	10,890.00	10,874.00	10,754.00	4
23	2/26/14 4:09	10,590.00	10,740.00	10,604.00	10,726.00	4
24	2/26/14 8:56	10,440.00	10,590.00	10,454.00	10,576.00	4
25	2/26/14 13:05	10,288.00	10,440.00	10,304.00	10,422.00	4
26	2/26/14 17:20	10,140.00	10,288.00	10,154.00	10,274.00	4
27	2/26/14 22:53	9,990.00	10,140.00	10,004.00	10,124.00	4
28	2/27/14 4:19	9,840.00	9,990.00	9,854.00	9,976.00	4
29	2/27/14 8:39	9,690.00	9,840.00	9,704.00	9,826.00	4
30	2/27/14 12:58	9,540.00	9,690.00	9,554.00	9,672.00	4
31	2/27/14 17:40	9,390.00	9,540.00	9,404.00	9,526.00	4
32	2/27/14 21:17	9,242.00	9,390.00	9,254.00	9,374.00	4
33	2/28/14 4:31	9,090.00	9,242.00	9,224.00	9,100.00	4
34	2/28/14 9:08	8,940.00	9,090.00	9,074.00	8,954.00	4
35	2/28/14 13:28	8,790.00	8,940.00	8,804.00	8,926.00	4
36	2/28/14 17:21	8,640.00	8,790.00	8,654.00	8,774.00	4
37	2/28/14 20:52	8,483.00	8,640.00	8,504.00	8,620.00	4
38	3/1/14 2:59	8,340.00	8,483.00	8,354.00	8,468.00	4
39	3/1/14 6:25	8,190.00	8,340.00	8,204.00	8,326.00	4
40	3/1/14 19:18	8,040.00	8,190.00	8,054.00	8,176.00	4
41	3/1/14 22:40	7,890.00	8,040.00	7,904.00	8,026.00	4
42	3/2/14 2:50	7,740.00	7,890.00	7,754.00	7,870.00	4
43	3/2/14 6:20	7,590.00	7,740.00	7,604.00	7,726.00	4
44	3/2/14 9:48	NA	7,590.00	7,576.00	7,454.00	4

**513768 - Stimulated Stages**

<b>Zone/Stage</b>	<b>P Break (psi)</b>	<b>Avg Treat Pressure (psi)</b>	<b>Avg rate (bbl/min)</b>	<b>ISIP (psi)</b>	<b>Frac Gradient (psi/ft)</b>	<b>15 Min. SIP (psi)</b>	<b>Fluid Volume (bbl)</b>	<b>Start Date</b>	<b>End Date</b>	<b>Proppant (lb)</b>
<b>Toe Pop</b>	<b>NA</b>	7,951.00	13.5	<b>NA</b>	<b>NA</b>	<b>NA</b>	700	2/20/2014 6:51	2/20/2014 7:40	<b>NA</b>
1	7,286.00	8,437.00	85.8	5,192.00	1.21	3,714.00	6,017	2/21/2014 1:05	2/20/2014 2:48	201,400
2	5,745.00	8,619.00	85.9	5,074.00	1.19	3,345.00	5,092	2/21/2014 6:28	2/21/2014 7:48	199,000
3	5,493.00	8,585.00	96.8	5,316.00	1.22	3,594.00	5,327	2/21/2014 11:54	2/21/2014 13:13	200,100
4	5,655.00	8,361.00	99.2	5,229.00	1.21	3,862.00	5,362	2/21/2014 19:11	2/21/2014 20:40	201,700
5	5,669.00	8,515.00	101.3	5,098.00	1.19	3,708.00	5,328	2/22/2014 0:41	2/22/2014 2:10	200,200
6	5,572.00	8,631.00	100.8	5,399.00	1.24	3,946.00	5,233	2/22/2014 5:10	2/22/2014 6:22	204,400
7	5,597.00	8,639.00	99.1	5,001.00	1.18	3,312.00	5,109	2/22/2014 10:26	2/22/2014 11:38	203,400
8	5,497.00	8,445.00	100.5	5,449.00	1.24	4,151.00	5,140	2/22/2014 15:45	2/22/2014 16:56	205,200
9	5,649.00	8,483.00	99.2	4,921.00	1.17	3,434.00	5,446	2/22/2014 20:46	2/22/2014 22:03	203,100
10	5,477.00	8,036.00	100.3	5,098.00	1.19	3,466.00	5,784	2/23/2014 1:01	2/23/2014 2:34	201,200
11	5,521.00	8,199.00	96.8	5,452.00	1.24	3,791.00	5,195	2/23/2014 5:13	2/23/2014 6:26	201,900
12	6,844.00	8,263.00	100.0	5,328.00	1.22	3,974.00	5,142	2/23/2014 9:59	2/23/2014 11:09	199,900
13	5,784.00	8,587.00	96.3	5,533.00	1.25	4,064.00	5,123	2/23/2014 15:36	2/23/2014 17:25	202,500
14	5,400.00	8,226.00	100.4	5,241.00	1.21	3,946.00	5,654	2/23/2014 20:31	2/23/2014 21:47	200,200
15	5,371.00	8,140.00	99.5	5,172.00	1.2	4,018.00	5,391	2/24/2014 1:40	2/24/2014 2:54	202,200
16	5,266.00	8,458.00	100.5	5,191.00	1.21	4,373.00	5,117	2/24/2014 6:36	2/24/2014 7:45	201,700
17	5,652.00	8,304.00	100.0	5,087.00	1.19	3,383.00	5,180	2/24/2014 11:16	2/24/2014 12:30	201,200
18	5,254.00	8,102.00	101.6	5,319.00	1.22	3,246.00	4,965	2/24/2014 15:46	2/24/2014 16:51	201,600
19	5,426.00	8,027.00	100.4	5,353.00	1.23	3,572.00	5,248	2/24/2014 20:01	2/24/2014 21:11	202,300
20	5,604.00	7,854.00	99.8	3,542.00	0.96	3,512.00	6,066	2/25/2014 0:22	2/25/2014 2:12	201,100
21	5,460.00	8,371.00	91.7	5,379.00	1.23	3,753.00	5,021	2/25/2014 19:42	2/25/2014 21:03	200,300
22	5,832.00	8,153.00	98.0	5,305.00	1.22	3,683.00	5,115	2/26/2014 1:23	2/26/2014 2:34	201,400
23	5,984.00	8,384.00	99.1	5,758.00	1.29	3,216.00	4,994	2/26/2014 5:50	2/26/2014 6:58	201,900
24	5,700.00	8,311.00	99.7	5,700.00	1.28	3,549.00	4,862	2/26/2014 10:33	2/26/2014 11:39	200,600
25	6,499.00	8,347.00	97.6	5,883.00	1.31	3,383.00	4,977	2/26/2014 14:36	2/26/2014 15:48	201,400
26	6,241.00	8,343.00	97.8	5,559.00	1.26	3,421.00	5,035	2/26/2014 19:57	2/26/2014 21:17	201,800
27	5,387.00	8,070.00	100.6	5,382.00	1.23	3,280.00	5,081	2/27/2014 1:40	2/27/2014 2:48	201,800
28	5,550.00	8,448.00	100.6	5,856.00	1.3	3,442.00	4,756	2/27/2014 5:50	2/27/2014 6:54	200,400
29	5,426.00	8,062.00	99.0	5,274.00	1.22	2,922.00	5,100	2/27/2014 10:11	2/27/2014 11:24	203,200
30	5,226.00	8,128.00	100.1	5,734.00	1.28	3,625.00	4,972	2/27/2014 14:18	2/27/2014 15:37	202,800
31	5,426.00	8,432.00	99.8	5,556.00	1.26	3,838.00	5,057	2/27/2014 18:44	2/27/2014 19:52	203,000
32	5,745.00	8,478.00	96.6	5,505.00	1.25	3,298.00	5,085	2/28/2014 1:36	2/28/2014 2:47	200,500
33	5,667.00	8,359.00	99.7	6,245.00	1.36	3,715.00	5,093	2/28/2014 6:05	2/28/2014 7:14	200,300
34	5,554.00	8,314.00	97.9	5,641.00	1.27	3,664.00	5,275	2/28/2014 10:40	2/28/2014 11:51	201,500
35	5,361.00	8,303.00	99.0	5,775.00	1.29	3,829.00	5,339	2/28/2014 14:34	2/28/2014 15:52	201,000
36	5,514.00	8,661.00	92.0	5,328.00	1.22	2,901.00	4,942	2/28/2014 18:25	2/28/2014 19:33	202,000
37	5,614.00	8,685.00	92.5	5,433.00	1.24	3,610.00	5,898	2/28/2014 22:14	3/1/2014 1:30	200,900
38	5,363.00	8,195.00	100.4	5,484.00	1.25	3,447.00	4,950	3/1/2014 4:11	3/1/2014 5:17	202,300
39	5,145.00	8,214.00	99.6	3,494.00	0.95	<b>NA</b>	4,827	3/1/2014 8:07	3/1/2014 9:32	201,600
<b>39 (Inj Test)</b>	<b>NA</b>	5,842.00	35.0	<b>NA</b>	0.43	<b>NA</b>	928	3/1/2014 17:09	3/1/2014 18:03	<b>NA</b>
40	5,262.00	8,313.00	98.2	5,173.00	1.2	3,022.00	4,913	3/1/2014 20:27	3/1/2014 21:31	202,000
41	5,478.00	8,726.00	97.6	5,404.00	1.24	3,679.00	5,349	3/2/2014 0:31	3/2/2014 1:41	215,800
42	5,473.00	8,369.00	95.0	5,313.00	1.22	3,724.00	4,962	3/2/2014 3:59	3/2/2014 5:02	205,300
43	5,539.00	8,300.00	96.7	5,980.00	1.32	3,248.00	4,895	3/2/2014 7:26	3/2/2014 8:36	213,200
44	9,703.00	8,062.00	97.3	5,419.00	1.24	2,833.00	6,091	3/2/2014 11:32	3/2/2014 13:32	203,000