

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: 12/23/2013
API #: 47-1706198

HGA

Farm name: Eleanor Meyer Operator Well No.: 513767

LOCATION: Elevation: 1068 Quadrangle: West Union 7.5

District: West Union County: Doddridge
Latitude: 7916 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 5190 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 AVE, PITTSBURGH, PA 15222	20"	40'	40'	45
Agent: Rex C. Ray	13-3/8"	742'	742'	714
Inspector: Sam Ward	9-5/8"	2981'	2981'	1251
Date Permit Issued: 04/24/2013	5-1/2"	13758'	13758'	2592
Date Well Work Commenced: 6/26/2013				
Date Well Work Completed: 12/21/2013				
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): 6,746'				
Total Measured Depth (ft): 13,761'				
Fresh Water Depth (ft.): 126,271,296, & 649				
Salt Water Depth (ft.): 1702 & 1851				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 220-227 & 837-840				
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) 6,635
Gas: Initial open flow 6,528 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 2,400 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 33.7 Hours
Static rock Pressure 3,232 psig (surface pressure) after 33.5 Hours

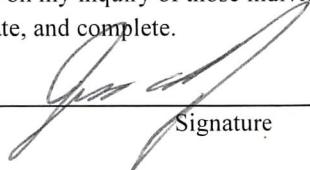
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Second producing formation No Second Formation Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

WV Department of
Environmental Protection

and Gas

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

Department of
Environmental Protection

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to Mr. [unclear] of
[unclear]

and

MS

to Mr. [unclear]
[unclear]

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 MWD, GAMMA, CBL

OH Intermediate Logs ----> Caliper, Gamma Ray, Neutron, Density, Induction, and Resistivity.

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:

Re-perforated stage 14 (14.1); Fractured stage 21 in two parts (21-A and 21-B) due to screenout - performed additional injection test on stage 21 after the screenout

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

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

Formations:

Sand / Shale 0/ 220/ 220 -- COAL 220/ 227/ 7 -- SAND / SHALE 227/ 837/ 610 -- COAL 837/ 840/ 3 -- SAND / SHALE 840/ 1640/ 800 -- MAXTON 1640/ 1655/ 15
SAND / SHALE 1655/ 1846/ 191 -- BIG LIME 1846/ 1948/ 102 -- BIG INJUN 1948/ 2157/ 209 -- WEIR 2157/ 2257/ 100 -- SAND / SHALE 2257/ 2356/ 99 -- GANTZ 2356/ 2468/ 112
FIFTY FOOT 2468/ 2563/ 95 -- THIRTY FOOT 2563/ 2617/ 54 -- GORDON 2617/ 2708/ 91 -- FORTH SAND 2708/ 2882/ 174 -- BAYARD 2882/ 3336/ 454 -- WARREN 3336/ 3424/ 88
SPEECHLEY 3424/ 4062/ 638 -- BALLTOWN B 4062/ 4316/ 254 -- BRADFORD 4316/ 4557/ 241 -- RILEY 4557/ 4977/ 420 -- BENSON 4977/ 5250/ 273
ALEXANDER 5250/ 6287/ 1037 -- SONYEA 6287/ 6432/ 145 -- MIDDLESEX 6432/ 6482/ 51 -- GENESSEE 6482/ 6551/ 69 -- GENESEO 6551/ 6593/ 43 -- TULLY 6593/ 6614/ 21
HAMILTON 6614/ 6635/ 21 -- Marcellus 6635/ 6746/ 111

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513767 - 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	4/7/14 6:22	13,595.00	NA	13,730.00	13,733.00	NA
1	4/7/14 10:21	13,595.00	NA	13,609.00	13,701.00	4
2	4/7/14 17:57	13,445.00	13,595.00	13,459.00	13,581.00	4
3	4/8/14 0:07	13,295.00	13,445.00	13,309.00	13,431.00	4
4	4/8/14 6:29	13,145.00	13,295.00	13,159.00	13,281.00	4
5	4/8/14 10:50	12,995.00	13,145.00	13,009.00	13,131.00	4
6	4/8/14 15:21	12,845.00	12,995.00	12,859.00	12,981.00	4
7	4/8/14 18:42	12,695.00	12,845.00	12,709.00	12,831.00	4
8	4/9/14 0:39	12,545.00	12,695.00	12,559.00	12,681.00	4
9	4/9/14 6:10	12,395.00	12,545.00	12,409.00	12,531.00	4
10	4/9/14 11:34	12,245.00	12,395.00	12,259.00	12,381.00	4
11	4/9/14 17:57	12,095.00	12,245.00	12,109.00	12,231.00	4
12	4/10/14 3:15	11,945.00	12,095.00	11,959.00	12,081.00	4
13	4/10/14 8:00	11,795.00	11,945.00	11,809.00	11,931.00	4
14	4/10/14 11:59	11,645.00	11,795.00	11,659.00	11,781.00	4
14.1 (Re-Perf)	4/10/14 17:06	11,645.00	11,795.00	11,670.00	11,743.50	4
15	4/10/14 23:55	11,495.00	11,645.00	11,509.00	11,631.00	4
16	4/11/14 2:25	11,345.00	11,495.00	11,359.00	11,481.00	4
17	4/12/14 8:54	11,195.00	11,345.00	11,209.00	11,331.00	4
18	4/12/14 12:28	11,045.00	11,195.00	11,059.00	11,181.00	4
19	4/12/14 16:00	10,895.00	11,045.00	10,909.00	11,031.00	4
20	4/12/14 20:16	10,745.00	10,895.00	10,759.00	10,881.00	4
21	4/12/14 23:34	10,595.00	10,745.00	10,609.00	10,731.00	4
22	4/13/14 14:56	10,445.00	10,595.00	10,459.00	10,581.00	4
23	4/13/14 17:49	10,295.00	10,445.00	10,309.00	10,431.00	4
24	4/13/14 22:08	10,145.00	10,295.00	10,159.00	10,281.00	4
25	4/14/14 2:45	9,995.00	10,145.00	10,009.00	10,131.00	4
26	4/14/14 8:30	9,845.00	9,995.00	9,859.00	9,981.00	4
27	4/14/14 11:50	9,695.00	9,845.00	9,709.00	9,831.00	4
28	4/14/14 16:53	9,545.00	9,695.00	9,559.00	9,681.00	4
29	4/14/14 20:01	9,395.00	9,545.00	9,409.00	9,531.00	4
30	4/14/14 23:41	9,245.00	9,395.00	9,259.00	9,381.00	4
31	4/15/14 3:34	9,095.00	9,245.00	9,109.00	9,231.00	4
32	4/15/14 9:17	8,945.00	9,095.00	8,959.00	9,081.00	4
33	4/15/14 13:11	8,795.00	8,945.00	8,809.00	8,931.00	4
34	4/15/14 16:33	8,645.00	8,795.00	8,659.00	8,781.00	4
35	4/15/14 19:26	8,495.00	8,645.00	8,509.00	8,631.00	4
36	4/15/14 23:29	8,345.00	8,495.00	8,359.00	8,481.00	4
37	4/16/14 3:14	8,195.00	8,345.00	8,209.00	8,331.00	4
38	4/16/14 7:48	8,045.00	8,195.00	8,059.00	8,181.00	4
39	4/16/14 13:58	7,895.00	8,045.00	7,909.00	8,031.00	4
40	4/16/14 17:24	7,745.00	7,895.00	7,759.00	7,881.00	4
41	4/17/14 3:02	7,595.00	7,745.00	7,609.00	7,731.00	4
42	4/17/14 7:03	7,445.00	7,595.00	7,459.00	7,581.00	4
43	4/17/14 10:49	7,295.00	7,445.00	7,309.00	7,431.00	4
44	4/17/14 14:07	NA	7,295.00	7,159.00	7,281.00	4

513767 - 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	8,500.00	15.0	NA	NA	NA	605	4/7/2014 6:20	4/7/2014 8:03	NA
1	7,001.00	7,923.00	86.6	5,160.00	1.2	3,465.00	5,441	4/7/2014 12:51	4/7/2014 14:28	199,600
2	5,461.00	8,333.00	97.8	5,225.00	1.21	3,902.00	5,085	4/7/2014 21:16	4/7/2014 22:31	201,500
3	5,537.00	8,287.00	98.6	5,096.00	1.19	3,853.00	5,299	4/8/2014 2:37	4/8/2014 3:52	201,800
4	5,795.00	8,431.00	97.2	5,396.00	1.24	4,359.00	5,178	4/8/2014 8:12	4/8/2014 9:40	200,500
5	5,795.00	8,286.00	93.6	5,102.00	1.19	4,254.00	4,889	4/8/2014 12:21	4/8/2014 13:48	201,400
6	5,222.00	8,273.00	101.5	5,013.00	1.18	4,337.00	4,997	4/8/2014 16:50	4/8/2014 18:18	201,400
7	5,598.00	8,348.00	95.4	5,000.00	1.18	4,401.00	5,317	4/8/2014 22:37	4/8/2014 23:53	200,600
8	5,603.00	8,295.00	93.6	5,073.00	1.19	4,504.00	5,153	4/9/2014 3:10	4/9/2014 4:26	201,100
9	5,492.00	8,192.00	94.9	5,305.00	1.22	3,756.00	6,247	4/9/2014 8:06	4/9/2014 10:08	200,000
10	5,304.00	8,400.00	99.6	4,957.00	1.17	3,607.00	5,175	4/9/2014 12:56	4/9/2014 14:20	201,600
11	5,452.00	8,324.00	97.1	5,064.00	1.19	4,037.00	5,191	4/10/2014 0:08	4/10/2014 1:22	212,200
12	5,378.00	8,211.00	99.7	4,996.00	1.18	4,265.00	5,076	4/10/2014 4:47	4/10/2014 5:58	199,300
13	5,406.00	8,182.00	96.2	5,025.00	1.18	4,381.00	4,962	4/10/2014 9:23	4/10/2014 10:47	201,100
14	5,645.00	8,636.00	69.6	5,535.00	1.26	3,988.00	4,274	4/10/2014 13:19	4/10/2014 15:05	25,100
14.1 (Re-Perf)	NA	8,007.00	81.2	5,071.00	1.19	4,421.00	5,046	4/10/2014 18:45	4/10/2014 20:04	175,100
15	5,933.00	8,242.00	89.1	4,940.00	1.17	3,451.00	5,611	4/10/2014 23:30	4/11/2014 0:53	201,500
16	5,683.00	8,394.00	100.0	5,468.00	1.25	4,002.00	5,061	4/12/2014 5:35	4/12/2014 7:00	200,800
17	5,257.00	7,904.00	100.1	5,150.00	1.2	4,063.00	4,962	4/12/2014 10:02	4/12/2014 11:25	202,100
18	5,563.00	7,745.00	95.1	5,298.00	1.22	3,861.00	5,085	4/12/2014 13:33	4/12/2014 15:00	200,900
19	5,247.00	7,752.00	99.8	4,937.00	1.17	3,917.00	5,142	4/12/2014 17:36	4/12/2014 18:46	201,900
20	5,403.00	8,024.00	101.5	5,056.00	1.19	4,150.00	5,052	4/12/2014 21:49	4/12/2014 22:57	201,100
21-A	5,495.00	8,803.00	99.2	8,668.00	1.72	NA	1,921	4/13/2014 2:05	4/13/2014 3:05	17,000
Inj Test	NA	5,072.00	9.4	4,997.00	1.18	NA	2,637	4/13/2014 7:25	4/13/2014 12:10	NA
21-B	6,077.00	8,141.00	87.0	4,644.00	1.12	3,273.00	4,158	4/13/2014 12:34	4/13/2014 13:55	150,300
22	5,488.00	8,023.00	100.0	5,145.00	1.2	3,959.00	5,057	4/13/2014 16:10	4/13/2014 17:32	200,200
23	5,708.00	7,549.00	100.9	5,066.00	1.19	3,336.00	5,126	4/13/2014 20:23	4/13/2014 21:32	200,900
24	5,473.00	7,995.00	100.9	5,476.00	1.25	3,897.00	5,123	4/14/2014 0:51	4/14/2014 1:58	200,300
25	5,257.00	7,874.00	99.9	5,451.00	1.24	3,769.00	4,951	4/14/2014 5:45	4/14/2014 7:05	200,600
26	5,581.00	8,015.00	100.3	5,307.00	1.22	3,700.00	4,885	4/14/2014 9:34	4/14/2014 10:54	203,600
27	5,583.00	8,279.00	99.8	5,342.00	1.23	3,721.00	5,779	4/14/2014 13:49	4/14/2014 15:57	202,000
28	5,484.00	7,823.00	101.4	5,412.00	1.24	3,680.00	5,102	4/14/2014 18:21	4/14/2014 19:27	202,100
29	5,428.00	7,855.00	101.1	4,987.00	1.17	3,451.00	5,057	4/14/2014 21:54	4/14/2014 23:01	200,500
30	5,700.00	8,127.00	100.9	5,510.00	1.25	3,067.00	5,109	4/15/2014 1:55	4/15/2014 3:03	201,900
31	5,533.00	7,850.00	100.4	5,373.00	1.23	3,368.00	5,352	4/15/2014 6:46	4/15/2014 8:10	201,000
32	5,344.00	7,650.00	101.6	5,426.00	1.24	3,742.00	4,995	4/15/2014 10:54	4/15/2014 12:13	199,800
33	5,475.00	7,719.00	102.0	5,593.00	1.27	3,801.00	4,984	4/15/2014 14:18	4/15/2014 15:37	200,200
34	5,323.00	7,181.00	101.6	5,078.00	1.19	3,201.00	5,071	4/15/2014 17:41	4/15/2014 19:08	201,800
35	5,499.00	7,654.00	101.2	5,598.00	1.27	3,396.00	5,044	4/15/2014 21:47	4/15/2014 22:50	202,200
36	5,271.00	7,162.00	101.7	5,150.00	1.2	3,718.00	5,078	4/16/2014 1:36	4/16/2014 2:42	200,500
37	5,576.00	7,658.00	101.5	5,625.00	1.27	3,765.00	4,933	4/16/2014 5:31	4/16/2014 6:48	200,200
38	5,392.00	7,660.00	101.2	5,247.00	1.21	3,624.00	4,902	4/16/2014 11:43	4/16/2014 13:01	201,000
39	5,271.00	7,346.00	100.7	5,169.00	1.2	3,467.00	4,935	4/16/2014 15:14	4/16/2014 16:33	200,800
40	5,271.00	6,947.00	100.8	5,409.00	1.24	3,585.00	5,285	4/17/2014 1:20	4/17/2014 2:30	200,200
41	5,365.00	7,190.00	101.3	5,447.00	1.24	3,238.00	4,983	4/17/2014 4:46	4/17/2014 5:51	201,500
42	5,343.00	7,342.00	101.3	5,163.00	1.2	3,316.00	4,883	4/17/2014 8:38	4/17/2014 9:55	201,600
43	5,744.00	7,641.00	100.6	5,346.00	1.23	3,175.00	5,054	4/17/2014 11:52	4/17/2014 13:10	206,900
44	6,280.00	7,423.00	101.4	4,647.00	1.12	2,863.00	5,689	4/17/2014 15:12	4/17/2014 17:03	219,400