

JK

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: 9/4/2013  
API #: 47-103-02617

Farm name: J.M. Allen Operator Well No.: 511423

LOCATION: Elevation: 941' Quadrangle: Big Run

District: Grant County: Wetzel, WV  
Latitude: 10,120 Feet South of 39 Deg. 35 Min. 00 Sec.  
Longitude 6,130 Feet West of 80 Deg. 30 Min. 00 Sec.

Company: EQT Production Company

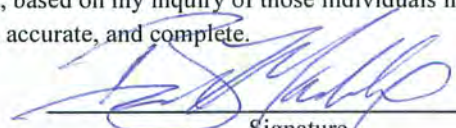
Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
EQT Plaza, Suite 1700 625 Liberty Avenue, Pittsburgh, PA 15222	30	65	65	165
Agent: Cecil Ray	13 3/8	766	766	926
Inspector: David Scranage	9 5/8	3,151	3,151	1,680
Date Permit Issued: 1/26/2011	5 1/2	10,738	10,738	1,560
Date Well Work Commenced: 1/20/2013				
Date Well Work Completed: 4/16/2013				
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): 7,117'				
Total Measured Depth (ft): 10,761'				
Fresh Water Depth (ft.): 657'				
Salt Water Depth (ft.): 1,547'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 269', 377', 444', 534', 629', 746'				
Void(s) encountered (N/Y) Depth(s) No				

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

Producing formation Marcellus Pay zone depth (ft) 7,087  
Gas: Initial open flow NA MCF/d Oil: Initial open flow NA Bbl/d  
Final open flow NA MCF/d Final open flow NA Bbl/d  
Time of open flow between initial and final tests NA Hours  
Static rock Pressure NA psig (surface pressure) after NA Hours

Second producing 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

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

9/4/2013  
Date

03/07/2014

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 Yes, MWD Gamma, Gyro, and CBL 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**

No FB data at this time - will send amended report once well is flowed back

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

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

SAND / SHALE / 0 / 200 / 200 -- COAL / 200 / 203 / 3 --  
SAND / SHALE / 203 / 457 / 254 -- COAL / 457 / 460 / 3 -- SAND / SHALE / 460 / 542 / 82 --  
COAL / 542 / 546 / 4 -- SAND / SHALE / 546 / 630 / 84 -- COAL / 630 / 636 / 6 --  
SAND / SHALE / 636 / 1,732 / 1,096 -- MAXTON / 1,732 / 1,853 / 121 -- BIG LIME / 1,853 / 2,220 / 367 --  
WEIR / 2,220 / 2,425 / 205 -- GANTZ / 2,425 / 2,540 / 115 -- 50F / 2,540 / 2,618 / 78 --  
30F / 2,618 / 2,668 / 50 -- GORDON / 2,668 / 2,735 / 67 -- 4TH / 2,735 / 2,841 / 106 --  
BAYARD / 2,841 / 3,327 / 486 -- WARREN / 3,327 / 3,469 / 142 -- SPEECHLEY / 3,469 / 3,855 / 386 --  
BALLTOWN A / 3,855 / 4,314 / 459 -- RILEY / 4,314 / 4,938 / 624 -- BENSON / 4,938 / 5,356 / 418 --  
ALEXANDER / 5,356 / 6,581 / 225 -- SONYEA / 6,581 / 6,787 / 206 -- MIDDLESEX / 6,787 / 6,802 / 15 --  
GENESSEE / 6,802 / 6,822 / 20 -- GENESEO / 6,822 / 6,838 / 16 -- TULLY / 6,838 / 6,844 / 6 --  
HAMILTON / 6,844 / 7,087 / 243 -- Marcellus blk shale / 7,087 / 7,117 / 30

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511423 - Perforations

Zone/Stage	Date	Top Plug Depth (ftKB)	Bottom Plug Depth (ftKB)	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Shots/ft
Toe Pop	11/4/13 16:39	10,558.00	NA	10,710.00	10,713.00	NA
1	11/4/13 18:00	10,558.00	NA	10,572.00	10,662.00	4
2	11/5/13 6:03	10,408.00	10,558.00	10,422.00	10,545.00	4
3	11/5/13 9:49	10,258.00	10,408.00	10,272.00	10,394.00	4
4	11/5/13 13:45	10,108.00	10,258.00	10,122.00	10,244.00	4
5	11/5/13 19:40	9,958.00	10,108.00	9,972.00	10,094.00	4
6	11/6/13 0:36	9,808.00	9,958.00	9,822.00	9,944.00	4
7	11/6/13 3:53	9,658.00	9,808.00	9,672.00	9,790.00	4
8	11/6/13 7:12	9,508.00	9,658.00	9,522.00	9,644.00	4
9	11/6/13 10:42	9,358.00	9,508.00	9,372.00	9,494.00	4
10	11/6/13 14:16	9,208.00	9,358.00	9,222.00	9,344.00	4
11	11/6/13 19:02	9,058.00	9,208.00	9,072.00	9,194.00	4
12	11/6/13 22:53	8,908.00	9,058.00	8,922.00	9,044.00	4
13	11/7/13 2:56	8,758.00	8,908.00	8,772.00	8,894.00	4
14	11/7/13 6:01	8,608.00	8,758.00	8,622.00	8,746.00	4
15	11/7/13 10:35	8,458.00	8,608.00	8,472.00	8,594.00	4
16	11/7/13 13:51	8,308.00	8,458.00	8,322.00	8,444.00	4
17	11/7/13 17:53	8,158.00	8,308.00	8,172.00	8,294.00	4
18	11/7/13 22:19	8,008.00	8,158.00	8,022.00	8,144.00	4
19	11/8/13 1:50	7,858.00	8,008.00	7,872.00	7,994.00	4
20	11/8/13 6:11	7,708.00	7,858.00	7,722.00	7,844.00	4
21	11/8/13 13:41	NA	7,708.00	7,572.00	7,694.00	4

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511423 - 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	8,273.00	14.8	NA	NA	NA	46,289	11/4/2013 17:27	11/4/2013 18:57	NA
1	6,514.00	8,339.00	92.6	5,459.00	1.2	4,130.00	206,286	11/5/2013 3:29	11/5/2013 4:40	194,476
2	7,057.00	8,192.00	97.6	6,092.00	1.29	4,774.00	214,793	11/5/2013 7:10	11/5/2013 8:26	200,295
3	7,217.00	8,358.00	98.5	6,224.00	1.31	5,046.00	210,641	11/5/2013 11:00	11/5/2013 12:23	200,385
4	6,678.00	8,222.00	98.9	6,055.00	1.29	5,182.00	208,517	11/5/2013 16:54	11/5/2013 18:06	203,294
5	7,594.00	8,469.00	100.3	6,039.00	1.28	5,323.00	207,401	11/5/2013 22:07	11/5/2013 23:15	201,043
6	6,236.00	8,100.00	100.3	5,966.00	1.27	5,234.00	207,624	11/6/2013 1:25	11/6/2013 2:32	201,676
7	6,580.00	8,165.00	100.2	6,045.00	1.28	5,351.00	211,497	11/6/2013 4:44	11/6/2013 5:52	199,689
8	8,009.00	8,143.00	98.4	6,243.00	1.31	5,354.00	206,384	11/6/2013 8:16	11/6/2013 9:26	201,857
9	6,293.00	8,009.00	98.7	6,479.00	1.34	5,448.00	204,167	11/6/2013 11:51	11/6/2013 13:01	197,534
10	7,670.00	8,248.00	97.3	6,242.00	1.31	5,457.00	203,495	11/6/2013 16:19	11/6/2013 17:29	198,996
11	6,336.00	8,176.00	100.0	6,119.00	1.29	5,483.00	208,671	11/6/2013 20:26	11/6/2013 21:00	200,010
12	6,593.00	8,413.00	95.3	6,289.00	1.32	5,422.00	211,137	11/7/2013 0:23	11/7/2013 1:34	200,291
13	6,876.00	8,227.00	100.4	6,154.00	1.3	5,446.00	211,945	11/7/2013 3:48	11/7/2013 4:52	198,286
14	7,043.00	8,220.00	97.6	6,325.00	1.32	5,377.00	216,605	11/7/2013 8:17	11/7/2013 9:26	199,204
15	6,703.00	8,008.00	97.5	6,122.00	1.3	5,382.00	202,334	11/7/2013 11:31	11/7/2013 12:40	199,609
16	6,826.00	7,987.00	97.9	6,006.00	1.28	5,447.00	204,758	11/7/2013 15:28	11/7/2013 16:37	196,466
17	6,508.00	8,161.00	100.4	6,118.00	1.29	5,545.00	207,520	11/7/2013 20:01	11/7/2013 21:07	200,673
18	7,449.00	8,085.00	99.0	6,096.00	1.29	5,575.00	209,101	11/7/2013 23:25	11/8/2013 0:34	202,517
19	6,887.00	8,035.00	98.3	6,120.00	1.29	5,531.00	207,225	11/8/2013 3:53	11/8/2013 5:00	200,680
20	7,067.00	8,089.00	97.0	6,297.00	1.32	5,586.00	200,932	11/8/2013 11:27	11/8/2013 12:34	199,383
21	6,830.00	8,212.00	99.5	6,299.00	1.32	5,352.00	211,777	11/8/2013 18:37	11/8/2013 19:44	199,135