

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: 12/9/13
API #: 47-103-02884

Farm name: Richard M. & M. Underwood Operator Well No.: 514676

LOCATION: Elevation: 941' Quadrangle: Big Run

District: Grant County: Wetzel
Latitude: 10,055 Feet South of 39 Deg. 35 Min. 00 Sec.
Longitude 6,033 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	93
Agent: <u>Rex C. Ray</u>	13 3/8	759	759	922
Inspector: <u>David Scranage</u>	9 5/8	3137	3137	1,288
Date Permit Issued: <u>5/31/13</u>	5 1/2	10,072	10,072	1,487
Date Well Work Commenced: <u>6/1/13</u>				
Date Well Work Completed: <u>7/24/13</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>7,108'</u>				
Total Measured Depth (ft): <u>10,086'</u>				
Fresh Water Depth (ft.): <u>80', 663'</u>				
Salt Water Depth (ft.): <u>1,580'</u>				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>209', 506', 551', 639'</u>				
Void(s) encountered (N/Y) Depth(s) <u>No</u>				

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

Producing formation Genesee Pay zone depth (ft) 6,948
Gas: Initial open flow TBD MCF/d Oil: Initial open flow TBD Bbl/d
Final open flow TBD MCF/d Final open flow TBD Bbl/d
Time of open flow between initial and final tests TBD Hours
Static rock Pressure TBD psig (surface pressure) after TBD Hours

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

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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

12/9/13
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 MWD, Gamma, 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 Attached

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: Surface:	Top Depth	/	Bottom Depth
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Sand/Shale / 0 / 209 / 209 -- Coal / 209 / 212 / 3 -- Sand/Shale / 212 / 506 / 294 --

Coal / 506 / 509 / 3 -- Sand/Shale / 509 / 551 / 42 -- Coal / 551 / 555 / 4 -- Sand/Shale / 555 / 639 / 84

Coal / 639 / 645 / 6 -- Sand/Shale / 645 / 1732 / 1087 -- Maxton / 1732 / 1853 / 121 --

Big Lime / 1853 / 2220 / 367 -- Weir / 2220 / 2425 / 205 -- Gantz / 2245 / 2540 / 115 --

50F / 2540 / 2618 / 78 -- 30F / 2618 / 2668 / 50 -- Gordon / 2668 / 2735 / 67 -- 4TH / 2735 / 2841 / 106

Bayard / 2841 / 3327 / 486 -- Warren / 3327 / 3469 / 142 -- Speechley / 3469 / 3855 / 386 --

Balltown A / 3855 / 4314 / 459 -- Riley / 4314 / 4938 / 624 -- Benson / 4938 / 5356 / 418 --

ALEXANDER / 5356 / 6598 / 1242 -- SONYEA / 6598 / 6784 / 186 -- MIDDLESEX / 6784 / 6841 /

GENESSEE / 6841 / 6948 / 107 -- GENESEO / 6948 / 7108 / 160 --

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514676 - Perforations

Zone/Stage	Date	Top Plug Depth (ftKB)	Bottom Plug Depth (ftKB)	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Shots/ft
Toe Pop	10/27/13 3:40	9,894.00	NA	10,043.00	10,045.00	NA
1	10/27/13 8:24	9,894.00	NA	9,908.00	10,000.00	4
2	10/27/13 18:09	9,744.00	9,862.00	9,758.00	9,880.00	4
3	10/27/13 22:29	9,594.00	9,744.00	9,608.00	9,730.00	4
4	10/28/13 2:33	9,444.00	9,594.00	9,458.00	9,580.00	4
5	10/28/13 6:14	9,294.00	9,444.00	9,308.00	9,430.00	4
6	10/28/13 11:51	9,144.00	9,294.00	9,158.00	9,278.00	4
7	10/28/13 15:58	8,994.00	9,144.00	9,008.00	9,130.00	4
8	10/28/13 19:59	8,844.00	8,994.00	8,980.00	8,994.00	4
9	10/28/13 23:57	8,694.00	8,844.00	8,708.00	8,830.00	4
10	10/29/13 3:55	8,544.00	8,694.00	8,558.00	8,680.00	4
11	10/29/13 7:44	8,394.00	8,544.00	8,408.00	8,530.00	4
12	10/29/13 14:30	8,244.00	9,394.00	8,258.00	8,380.00	4
13	10/29/13 18:48	8,094.00	8,244.00	8,108.00	8,230.00	4
14	10/29/13 23:03	7,944.00	8,094.00	7,958.00	8,080.00	4
15	10/30/13 4:45	7,794.00	7,944.00	7,808.00	7,830.00	4
16	10/30/13 8:43	7,644.00	7,794.00	7,658.00	7,780.00	4
17	10/30/13 16:11	7,494.00	7,644.00	7,508.00	7,630.00	4
18	10/30/13 19:48	7,344.00	7,494.00	7,358.00	7,478.00	4
19	10/31/13 0:14	NA	7,344.00	7,208.00	7,330.00	4

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514676 - 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	7,750.00	14.7	NA	NA	NA	588	10/27/2013 3:30	10/27/2013 3:40	NA
1	6,037.00	7,295.00	100.8	4,389.00	1.05	3,691.00	7,489	10/27/2013 9:55	10/27/2013 16:19	207,152
2	7,317.00	7,769.00	99.3	4,292.00	1.04	3,593.00	4,891	10/27/2013 19:52	10/27/2013 21:02	200,391
3	8,039.00	7,965.00	96.2	4,385.00	1.05	3,566.00	4,763	10/27/2013 23:54	10/28/2013 1:04	199,837
4	8,942.00	8,069.00	87.5	4,516.00	1.07	3,568.00	4,964	10/28/2013 3:39	10/28/2013 4:59	203,540
5	8,764.00	8,045.00	95.5	4,446.00	1.06	3,610.00	4,858	10/28/2013 8:57	10/28/2013 10:11	202,915
6	8,801.00	7,981.00	96.4	4,426.00	1.06	3,621.00	5,138	10/28/2013 13:07	10/28/2013 14:27	202,599
7	6,967.00	8,052.00	93.8	4,470.00	1.07	3,593.00	4,964	10/28/2013 17:20	10/28/2013 18:37	189,996
8	7,782.00	8,105.00	99.4	4,894.00	1.13	3,655.00	4,841	10/28/2013 21:16	10/28/2013 22:28	198,790
9	7,041.00	8,010.00	99.6	4,906.00	1.13	3,689.00	4,820	10/29/2013 1:27	10/29/2013 2:38	201,173
10	7,480.00	7,480.00	100.8	4,478.00	1.07	3,775.00	5,025	10/29/2013 5:11	10/29/2013 6:18	204,413
11	7,649.00	7,743.00	100.8	4,446.00	1.07	3,782.00	5,052	10/29/2013 11:56	10/29/2013 13:04	200,993
12	7,597.00	7,826.00	100.7	4,450.00	1.07	3,693.00	5,009	10/29/2013 15:41	10/29/2013 16:49	198,924
13	7,883.00	7,876.00	99.8	4,481.00	1.07	3,736.00	4,765	10/29/2013 20:41	10/29/2013 21:47	203,214
14	7,172.00	7,754.00	100.3	4,355.00	1.06	3,704.00	4,832	10/30/2013 2:21	10/30/2013 3:28	198,944
15	7,434.00	7,488.00	100.5	4,547.00	1.08	3,790.00	5,036	10/30/2013 6:07	10/30/2013 7:13	200,509
16	7,433.00	7,483.00	99.7	4,486.00	1.08	3,750.00	5,033	10/30/2013 13:32	10/30/2013 14:52	203,582
17	7,605.00	7,855.00	98.1	4,276.00	1.05	3,561.00	5,074	10/30/2013 17:24	10/30/2013 18:36	200,853
18	7,565.00	7,477.00	98.6	4,366.00	1.06	3,643.00	4,761	10/30/2013 21:58	10/30/2013 23:04	197,779
19	8,008.00	7,635.00	97.8	4,288.00	1.05	3,470.00	4,786	10/31/2013 1:36	10/31/2013 2:42	200,020

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