

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- *Final*

DATE: 9/2/2013
API #: 47-017-06060

Farm name: Joseph L. Carr et al. Operator Well No.: 514138

LOCATION: Elevation: 1,179' Quadrangle: Smithburg 7.5

District: Grant County: Doddridge
Latitude: 2.854 Feet South of 39 Deg. 22 Min. 30 Sec.
Longitude 8.063 Feet West of 80 Deg. 40 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 AVE, PITTSBURGH, PA 15222	20	53	53	45
Agent: CECIL RAY	13-3/8"	1,028	1,028	934
Inspector: DAVID SCRANAGE	9-5/8"	5,350	5,350	792
Date Permit Issued: 6/15/2012	5-1/2"	11,420	11,420	1533
Date Well Work Commenced: 5/4/2013				
Date Well Work Completed: 9/1/2013				
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): 7,119'				
Total Measured Depth (ft): 11,420'				
Fresh Water Depth (ft.): 344'				
Salt Water Depth (ft.): 1,187'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): N/A				
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) 7.034
Gas: Initial open flow 225 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 4.138 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 57.75 Hours
Static rock Pressure 3.123 psig (surface pressure) after 58.25 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

7/9/2014
Date

09/19/2014

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:

Re-perforated stage 2 due to high pressure

Amended Report with Flow Back Data

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

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

Sand/Shale 0/2021 -- Maxton 2021/2092 -- Sand/Shale 2092/ 2181 -- Big Lime 2181/2276

Big Injun 2276/2444 -- Sand/Shale 2444/ 2548 -- Weir 2548/2613 -- Sand/Shale 2613 / 2679 -- Gantz 2679/2735

Sand/Shale 2735/ 2747 -- Fifty Foot 2747 / 2794 -- Sand/Shale 2794/ 2885 --

Thirty Foot 2885/2911 -- Sand/Shale 2911/ 2972 -- Gordon 2972/3036 -- Fourth Sand 3036/3134

-- Fifth Sand 3134/3211 -- Sand/Shale 3211/3611 -- Warren 3611/3666 -- Sand/Shale 3666/3818 --

Speechley 3818/3916 -- Sand/Shale 3916/ 4047 -- Balltown 4047/4471 -- Sand/Shale 4471/5186 --

Benson 5186/5253 -- Sand/Shale 5253/5606 -- Alexander 5606/5729 -- Sand/Shale 5729/6049

Elk 6049/6625 -- Rhinestreet 6625/6792 -- Middlesex 6792/6848 -- Genesee 6848/6932 --

Genesee 6932/6962 -- Tully 6962/6988 -- Hamilton 6988/7034 -- Marcellus 7034/7119

514138 - Perforations

Zone/Stage	Date	Top Plug Depth (ftKB)	Bottom Plug Depth (ftKB)	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Shots/ft
Toe Pop		11,260.00	NA	11,395.00	11,397.00	NA
1	2/4/14 18:45	11,260.00	NA	11,274.00	11,366.00	4
2	2/5/14 4:23	11,110.00	11,260.00	11,124.00	11,246.00	4
2.1 (Re-Perf)	2/5/14 10:07	11,110.00	11,260.00	11,166.00	11,142.00	4
3	2/5/14 17:45	10,960.00	11,110.00	10,974.00	11,096.00	4
4	2/5/14 22:53	10,810.00	10,960.00	10,824.00	10,946.00	4
5	2/6/14 2:56	10,660.00	10,810.00	10,674.00	10,798.00	4
6	2/6/14 6:25	10,510.00	10,660.00	10,524.00	10,646.00	4
7	2/6/14 13:33	10,360.00	10,510.00	10,374.00	10,496.00	4
8	2/6/14 19:27	10,210.00	10,360.00	10,224.00	10,346.00	4
9	2/6/14 23:54	10,060.00	10,210.00	10,078.00	10,196.00	4
10	2/7/14 3:44	9,910.00	10,060.00	9,924.00	10,046.00	4
11	2/7/14 6:41	9,760.00	9,910.00	9,774.00	9,896.00	4
12	2/7/14 12:33	9,610.00	9,760.00	9,624.00	9,746.00	4
13	2/7/14 18:03	9,460.00	9,610.00	9,474.00	9,596.00	4
14	2/7/14 22:00	9,310.00	9,460.00	9,324.00	9,446.00	4
15	2/8/14 3:13	9,160.00	9,310.00	9,174.00	9,296.00	4
16	2/8/14 6:13	9,010.00	9,160.00	9,024.00	9,146.00	4
17	2/8/14 13:07	8,860.00	9,010.00	8,874.00	8,996.00	4
18	2/8/14 18:13	8,710.00	8,860.00	8,724.00	8,846.00	4
19	2/8/14 21:49	8,560.00	8,710.00	8,574.00	8,696.00	4
20	2/9/14 1:29	8,410.00	8,560.00	8,424.00	8,546.00	4
21	2/9/14 6:39	8,260.00	8,410.00	8,274.00	8,396.00	4
22	2/9/14 10:29	8,110.00	8,260.00	8,124.00	8,246.00	4
23	2/9/14 14:37	7,960.00	8,110.00	7,974.00	8,096.00	4
24	2/9/14 18:49	7,810.00	7,960.00	7,824.00	7,946.00	4
25	2/9/14 22:29	7,660.00	7,810.00	7,674.00	7,796.00	4
26	2/10/14 5:11	7,510.00	7,660.00	7,524.00	7,646.00	4
27	2/11/14 21:04	NA	7,510.00	7,374.00	7,496.00	4

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514138 - Stimulated Stages

Zone/Stage	P Break (psi)	Avg Treat Pressure (psi)	Avg rate (bbl/min)	ISIP (psi)	Frac Gradient (psi/ft)	15 Mln. SIP (psi)	Fluid Volume (bbl)	Start Date	End Date	Proppant (lb)
Toe Pop	NA	6,606.00	17.2	NA	NA	NA	1,016	2/4/2014 15:31	2/4/2014 16:37	NA
1	7,973.00	8,285.00	93.7	3,642.00	0.95	2,572.00	5,225	2/5/2014 1:05	2/5/2014 2:23	197,200
2	7,018.00	8,056.00	20.6	5,077.00	1.15	NA	1,962	2/5/2014 8:03	2/5/2014 9:27	1,400
2.1 (Re-Perf)	7,682.00	8,110.00	88.9	3,675.00	0.95	2,799.00	5,521	2/5/2014 14:41	2/5/2014 16:04	200,700
3	6,715.00	7,912.00	95.4	4,258.00	1.03	3,147.00	5,253	2/5/2014 19:50	2/5/2014 21:13	201,500
4	6,115.00	7,970.00	96.8	4,757.00	1.1	3,700.00	5,144	2/5/2014 0:07	2/5/2014 1:26	200,300
5	7,508.00	7,919.00	93.3	4,682.00	1.09	3,582.00	5,216	2/6/2014 4:12	2/6/2014 5:33	202,600
6	7,083.00	7,999.00	97.5	4,305.00	1.04	3,344.00	5,075	2/6/2014 8:23	2/6/2014 9:43	202,600
7	7,179.00	7,999.00	97.8	3,948.00	0.99	3,111.00	4,888	2/6/2014 16:41	2/6/2014 17:53	201,900
8	7,350.00	7,814.00	96.3	4,195.00	1.02	3,203.00	5,064	2/6/2014 21:04	2/6/2014 22:18	201,400
9	5,953.00	7,776.00	99.1	4,447.00	1.06	3,360.00	5,030	2/7/2014 1:00	2/7/2014 2:12	199,900
10	6,856.00	7,773.00	99.3	4,811.00	1.06	3,692.00	4,939	2/7/2014 4:45	2/7/2014 5:58	200,400
11	7,050.00	7,990.00	97.3	4,444.00	1.06	3,470.00	5,182	2/7/2014 10:31	2/7/2014 11:50	201,600
12	6,729.00	7,896.00	98.9	4,457.00	1.06	3,411.00	5,203	2/7/2014 15:26	2/7/2014 16:45	199,300
13	5,712.00	7,836.00	99.6	4,219.00	1.03	3,327.00	4,961	2/7/2014 20:10	2/7/2014 21:20	199,900
14	7,154.00	8,032.00	86.4	4,112.00	1.01	3,221.00	5,653	2/8/2014 0:08	2/8/2014 1:36	200,900
15	6,541.00	8,098.00	95.1	4,409.00	1.06	3,443.00	4,852	2/8/2014 4:12	2/8/2014 5:23	199,100
16	6,498.00	8,144.00	87.6	4,278.00	1.04	3,340.00	5,696	2/8/2014 10:05	2/8/2014 11:37	201,000
17	6,250.00	7,705.00	99.0	4,457.00	1.06	3,340.00	5,066	2/8/2014 15:37	2/8/2014 17:10	200,300
18	7,143.00	7,605.00	98.1	4,523.00	1.07	3,551.00	4,859	2/8/2014 19:11	2/8/2014 20:20	197,200
19	6,580.00	7,704.00	99.6	4,604.00	1.08	3,595.00	4,879	2/8/2014 23:02	2/9/2014 0:10	199,800
20	7,187.00	7,654.00	94.7	4,826.00	1.12	3,729.00	6,542	2/9/2014 3:53	2/9/2014 5:48	198,500
21	6,454.00	7,689.00	98.1	4,553.00	1.08	3,513.00	4,840	2/9/2014 8:21	2/9/2014 9:33	200,800
22	7,127.00	8,282.00	99.8	3,940.00	1.04	3,299.00	5,021	2/9/2014 12:40	2/9/2014 13:53	196,500
23	6,309.00	7,633.00	98.2	4,776.00	1.11	3,545.00	5,101	2/9/2014 16:21	2/9/2014 17:36	198,200
24	5,911.00	7,548.00	99.5	4,482.00	1.07	3,553.00	4,896	2/9/2014 19:59	2/9/2014 21:07	196,000
25	5,750.00	7,188.00	99.1	4,833.00	1.12	3,762.00	6,893	2/10/2014 0:10	2/10/2014 3:49	198,300
26	5,266.00	7,238.00	100.7	4,325.00	1.04	3,287.00	4,905	2/11/2014 18:29	2/11/2014 19:31	201,800
27	6,118.00	7,613.00	99.3	4,734.00	1.1	3,872.00	5,000	2/11/2014 22:03	2/11/2014 23:12	200,600

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