

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: 9/30/2013  
API #: 47-10302852

Farm name: Coastal Lumber Company Operator Well No.: 514424

LOCATION: Elevation: 1452 Quadrangle: Big Run 7.5'

District: Grant County: Wetzel, WV  
Latitude: 6185 Feet South of 39 Deg. 32 Min. 30 Sec.  
Longitude 2392 Feet West of 80 Deg. 35 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	26"	40	40	57.82
Agent: Rex C. Ray	13-3/8"	1000	1000	1014.8
Inspector: <b>Derek Haught</b>	9-5/8"	2845	2845	1428
Date Permit Issued: 2/05/2013	5-1/2"	12663	12663	2178.62
Date Well Work Commenced: 4/23/2013				
Date Well Work Completed: 9/27/2013				
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): 7646				
Total Measured Depth (ft): 12675				
Fresh Water Depth (ft.): 756'				
Salt Water Depth (ft.): 2260'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 853', 922', 1012', 1261', 1336'				
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) 7,612  
Gas: Initial open flow 1,632 MCF/d Oil: Initial open flow NA Bbl/d  
Final open flow 8,784 MCF/d Final open flow NA Bbl/d  
Time of open flow between initial and final tests 59 Hours  
Static rock Pressure 1,242 psig (surface pressure) after 62 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 Date

4/28/2014

06/27/2017

103-02852

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 Gyro, 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 FB Data

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Plug Back Details Including Plug Type and Depth(s):

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

Sand/Shale 0/853/853

Coal 853/854/1 Benson 5639/5963/324

Sand/Shale 854/922/68 Alexander 5963/7170/1207

Coal 922/923/1 Rhinestreet 7170/7178/8

Sand/Shale 923/1012/89 Sonyea 7178/7343/165

Coal 1012/1014/2 Middlesex 7343/7392/49

Sand/Shale 1014/1261/247 Genesee 7392/7478/86

Coal 1261/1274/13 Geneseo 7478/7505/27

Sand/Shale 1274/1336/62 Tully 7505/7526/21

Coal 1336/1340/4 Hamilton 7526/7612/86

Sand/Shale 1340/2875/1535 Marcellus 7612/7646/34

Weir 2875/3323/448

Fourth 3323/3967/644

Warren 3967/4117/150

Speechley 4117/5639/1522

06/27/2017

103.02852

## 514424 - Perforations

<b>Zone/Stage</b>	<b>Date</b>	<b>Top Plug Depth (ftKB)</b>	<b>Bottom Plug Depth (ftKB)</b>	<b>Top Perf Depth (ftKB)</b>	<b>Bottom Perf Depth (ftKB)</b>	<b>Shots/ft</b>
<b>Toe Pop</b>	11/18/13 6:10	12,368.00	NA	12,650.00	12,652.00	NA
<b>1</b>	11/18/13 13:20	12,368.00	NA	12,397.00	12,579.00	4
<b>2</b>	11/18/13 20:44	12,068.00	12,368.00	12,097.00	12,339.00	4
<b>3</b>	11/19/13 5:24	11,768.00	12,068.00	11,797.00	12,039.00	4
<b>4</b>	11/19/13 13:14	11,470.00	11,768.00	11,497.00	11,739.00	4
<b>5</b>	11/20/13 2:00	11,168.00	11,470.00	11,197.00	11,439.00	4
<b>6</b>	11/20/13 7:45	10,868.00	11,168.00	10,897.00	11,139.00	4
<b>7</b>	11/20/13 18:28	10,568.00	10,868.00	10,597.00	10,839.00	4
<b>8</b>	11/21/13 1:33	10,268.00	10,568.00	10,297.00	10,539.00	4
<b>9</b>	11/29/13 17:57	9,968.00	10,268.00	9,997.00	10,239.00	4
<b>10</b>	11/30/13 1:06	9,668.00	9,968.00	9,697.00	9,939.00	4
<b>11</b>	12/1/13 2:16	NA	9,668.00	9,397.00	9,639.00	4

514424 - Stimulated Stages

Zone/Stage	P Break (psi)	Avg Treat Pressure (psi)	Avg rate (bbl/min)	ISIP (psi)	Frac Gradient (psi/ft)	1S Min. SIP (psi)	Fluid Volume (bbl)	Start Date	End Date	Proppant (lb)
Toe Pop	NA	7,647.00	3.6	NA	NA	NA	1,817	11/17/2013 23:06	11/18/2013 6:10	NA
1	4,500.00	8,417.00	92.3	4,109.00	0.97	2,870.00	12,432	11/18/2013 15:48	11/18/2013 18:38	500,339
2	7,165.00	7,881.00	85.7	4,084.00	0.97	3,014.00	12,569	11/19/2013 0:20	11/19/2013 3:16	500,637
3	6,469.00	8,383.00	89.7	4,655.00	1.04	3,217.00	12,197	11/19/2013 8:30	11/19/2013 11:16	497,252
4	6,902.00	8,350.00	96.7	5,162.00	1.11	3,631.00	11,793	11/19/2013 21:45	11/20/2013 0:25	490,085
5	7,551.00	8,418.00	92.0	4,359.00	1	3,397.00	11,925	11/20/2013 3:58	11/20/2013 7:07	469,305
6	6,396.00	7,919.00	90.4	4,948.00	1.08	3,804.00	12,300	11/20/2013 13:56	11/20/2013 16:39	501,945
7	6,374.00	8,115.00	100.0	4,880.00	1.07	3,373.00	12,596	11/20/2013 21:12	11/20/2013 23:58	497,157
8	6,725.00	8,290.00	97.3	NA	NA	NA	13,535	11/21/2013 5:03	11/21/2013 21:11	498,563
Inj Test	NA	4,719.00	8.7	4,772.00	1.06	NA	1,463	11/22/2013 0:50	11/22/2013 3:39	NA
9	7,449.00	8,116.00	95.4	5,080.00	1.1	3,472.00	12,436	11/29/2013 20:48	11/29/2013 23:58	499,673
10	7,725.00	8,267.00	99.2	4,981.00	1.09	NA	11,859	11/30/2013 13:01	11/30/2013 16:18	488,551
Inj Test	NA	6,460.00	8.3	NA	NA	NA	1,291	11/30/2013 22:21	12/1/2013 0:57	NA
11	6,100.00	7,783.00	100.1	3,852.00	0.92	2,951.00	12,292	12/1/2013 3:47	12/1/2013 6:49	501,882

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