

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: 10/29/2013  
API #: 47-10302857

Farm name: Coastal Lumber Company Operator Well No.: 514423

LOCATION: Elevation: 1452 Quadrangle: Big Run 7.5'

District: Grant County: Wetzel, WV  
Latitude: 6170 Feet South of 39 Deg. 32 Min. 30 Sec.  
Longitude 2395 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	1016.32
Inspector: Derek Haught	9-5/8"	3694	3694	1716.9
Date Permit Issued: 3/05/2013	5-1/2"	11941	11941	1841.72
Date Well Work Commenced: 4/23/2013				
Date Well Work Completed: 10/25/2013				
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): 7505				
Total Measured Depth (ft): 11958				
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)

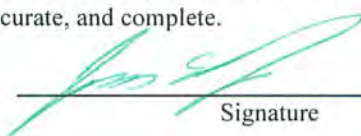
Producing formation Geneseo Pay zone depth (ft) 7,478  
Gas: Initial open flow 336 MCF/d Oil: Initial open flow NA Bbl/d  
Final open flow 8,496 MCF/d Final open flow NA Bbl/d  
Time of open flow between initial and final tests 60.5 Hours  
Static rock Pressure 1,805 psig (surface pressure) after 62.5 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

RECEIVED  
Office of Oil and Gas

MAY 01 2014

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

4/28/2014  
Date

06/27/2017

WV Department of Environmental Protection

103.02857

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

\_\_\_\_\_  
\_\_\_\_\_

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	
Coal 1336/1340/4	
Sand/Shale 1340/2875/1535	
Weir 2875/3323/448	
Fourth 3323/3967/644	
Warren 3967/4117/150	
Speechley 4117/5639/1522	

06/27/2017

103-02857

## 514423 - 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>	12/8/13 18:12	11,714.00	NA	11,916.00	11,918.00	NA
<b>1</b>	12/8/13 21:00	11,714.00	NA	11,735.00	11,870.00	4
<b>2</b>	12/9/13 3:14	11,489.00	11,714.00	11,510.00	11,692.00	4
<b>3</b>	12/9/13 8:12	11,264.00	11,489.00	11,285.00	11,467.00	4
<b>4</b>	12/9/13 14:59	11,039.00	11,264.00	11,060.00	11,242.00	4
<b>5</b>	12/9/13 18:35	10,814.00	11,039.00	10,835.00	11,017.00	4
<b>6</b>	12/10/13 11:32	10,589.00	10,814.00	10,610.00	10,792.00	4
<b>7</b>	12/10/13 16:49	10,364.00	10,589.00	10,385.00	10,567.00	4
<b>8</b>	12/10/13 20:21	10,139.00	10,364.00	10,160.00	10,342.00	4
<b>9</b>	12/11/13 2:01	9,914.00	10,139.00	9,935.00	10,117.00	4
<b>10</b>	12/11/13 7:09	9,689.00	9,914.00	9,710.00	9,892.00	4
<b>11</b>	12/11/13 11:50	9,464.00	9,689.00	9,485.00	9,667.00	4
<b>12</b>	12/11/13 16:49	9,239.00	9,464.00	9,260.00	9,442.00	4
<b>13</b>	12/11/13 21:26	9,014.00	9,239.00	9,035.00	9,215.00	4
<b>14</b>	12/12/13 5:31	8,789.00	9,014.00	8,810.00	8,992.00	4
<b>15</b>	12/12/13 10:17	8,564.00	8,789.00	8,585.00	8,767.00	4
<b>16</b>	12/12/13 15:20	8,339.00	8,564.00	8,360.00	8,542.00	4
<b>17</b>	12/12/13 23:02	8,114.00	8,339.00	8,135.00	8,317.00	4
<b>18</b>	12/13/13 3:45	NA	8,114.00	7,910.00	8,092.00	4

103.02857

514423 - 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	7,952.00	18.8	NA	NA	NA	2,349	12/8/2013 16:09	12/8/2013 18:12	NA
1	6,161.00	7,131.00	98.2	3,531.00	0.9	3,211.00	7,448	12/8/2013 23:51	12/9/2013 1:30	298,492
2	7,949.00	7,388.00	99.9	3,875.00	0.95	3,321.00	7,465	12/9/2013 4:44	12/9/2013 6:27	299,228
3	8,230.00	7,176.00	100.5	3,814.00	0.94	3,457.00	7,280	12/9/2013 0:00	12/9/2013 0:00	300,464
4	7,687.00	7,630.00	100.2	4,025.00	0.97	3,497.00	7,019	12/9/2013 15:32	12/9/2013 17:17	300,139
5	6,457.00	7,528.00	100.3	3,897.00	0.95	3,482.00	7,510	12/9/2013 20:47	12/9/2013 22:26	301,818
6	7,181.00	8,252.00	97.5	3,931.00	0.96	3,466.00	6,882	12/10/2013 13:26	12/10/2013 15:12	300,711
7	6,106.00	7,385.00	100.4	3,568.00	0.91	3,353.00	7,246	12/10/2013 18:01	12/10/2013 19:36	294,455
8	7,347.00	7,303.00	101.4	3,677.00	0.92	3,369.00	7,403	12/10/2013 22:44	12/10/2013 0:16	295,911
9	7,736.00	7,334.00	100.8	3,711.00	0.93	3,398.00	7,299	12/11/2013 3:51	12/11/2013 5:22	301,247
10	7,227.00	7,484.00	100.5	4,061.00	0.97	3,556.00	3,026	12/11/2013 8:44	12/11/2013 10:35	300,722
11	6,373.00	7,580.00	99.9	3,906.00	0.95	3,415.00	7,371	12/11/2013 13:34	12/11/2013 15:19	299,834
12	8,063.00	7,583.00	100.6	3,520.00	0.9	3,166.00	7,153	12/11/2013 18:19	12/11/2013 19:50	275,760
13	6,463.00	7,537.00	100.7	3,582.00	0.91	3,282.00	7,239	12/12/2013 2:22	12/12/2013 3:55	302,424
14	8,077.00	7,713.00	100.3	3,627.00	0.92	3,395.00	7,316	12/12/2013 6:59	12/12/2013 9:04	301,143
15	7,266.00	7,353.00	100.6	3,644.00	0.92	3,392.00	7,108	12/12/2013 12:09	12/12/2013 13:57	300,420
16	7,458.00	7,129.00	99.9	3,648.00	0.92	3,319.00	3,648	12/12/2013 20:04	12/12/2013 21:37	300,860
17	6,790.00	7,194.00	100.2	3,718.00	0.93	3,410.00	7,174	12/12/2013 0:38	12/12/2013 2:09	300,928
18	7,415.00	7,326.00	100.2	3,308.00	0.88	3,048.00	7,369	12/13/2013 5:15	12/13/2013 7:14	299,118