

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 #: 47-10302848

JK

Farm name: Coastal Lumber Company Operator Well No.: 514420

LOCATION: Elevation: 1452 Quadrangle: Big Run 7.5'

District: Grant County: Wetzel, WV
Latitude: 6214 Feet South of 36 Deg. 32 Min. 30 Sec.
Longitude 2386 Feet West of 80 Deg. 35 Min. 00 Sec.

Company: EQT Production Company

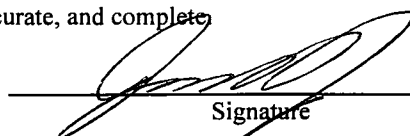
Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
EQT Plaza, Suite 1700 625 Liberty Avenue, Pittsburgh, PA 15222	26	40	40	57.8
Agent: Rex C. Ray	13 3/8	1,015	1,015	708
Inspector: Derek Haught	9 5/8	3,704	3,704	1,681.5
Date Permit Issued: 2/8/2013	5 1/2	12,032	12,032	2134.6
Date Well Work Commenced: 4/23/2013				
Date Well Work Completed: 9/3/2013				
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): 7648				
Total Measured Depth (ft): 12,054				
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 912 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 12,288 MCF/d Final open flow 3.6 Bbl/d
Time of open flow between initial and final tests 71 Hours
Static rock Pressure 2,484 psig (surface pressure) after 75.5 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

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

4/30/2014
Date

06/27/2017

[Faint stamps and handwritten notes, including "MAY 05 2014" and "OFFICE OF OIL AND GAS"]

103.02848

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	Tully 7505/7526/21
Coal 1336/1340/4	Hamilton 7526/7612/86
Sand/Shale 1340/2875/1535	Marcellus 7612/7648/36
Weir 2875/3323/448	
Fourth 3323/3967/644	
Warren 3967/4117/150	
Speechley 4117/5639/1522	

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514420 - Perforations

Zone/Stage	Date	Top Plug Depth (ftKB)	Bottom Plug Depth (ftKB)	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Shots/ft
Toe Pop	12/13/13 23:04	11,870.00	NA	12,005.00	12,007.00	NA
1	12/14/13 6:01	11,870.00	NA	11,884.00	11,976.00	4
2	12/14/13 11:02	11,720.00	11,870.00	11,734.00	11,856.00	4
3	12/14/13 22:18	11,570.00	11,720.00	11,584.00	11,706.00	4
4	12/16/13 1:25	11,420.00	11,570.00	11,434.00	11,556.00	4
5	12/16/13 6:02	11,273.00	11,420.00	11,284.00	11,406.00	4
6	12/16/13 19:53	11,120.00	11,273.00	11,134.00	11,256.00	4
7	12/17/13 0:18	10,970.00	11,120.00	10,984.00	11,104.00	4
8	12/17/13 5:02	10,820.00	10,970.00	10,834.00	10,956.00	4
9	12/17/13 10:17	10,670.00	10,820.00	10,684.00	10,806.00	4
10	12/17/13 14:16	10,520.00	10,670.00	10,534.00	10,656.00	4
11	12/17/13 23:17	10,370.00	10,520.00	10,384.00	10,506.00	4
12	12/18/13 23:01	10,220.00	10,370.00	10,234.00	10,356.00	4
13	12/19/13 19:04	10,070.00	10,220.00	10,084.00	10,206.00	4
14	12/19/13 23:00	9,914.00	10,070.00	9,934.00	10,056.00	4
15	12/20/13 4:01	9,770.00	9,914.00	9,784.00	9,906.00	4
16	12/20/13 8:00	9,620.00	9,770.00	9,634.00	9,756.00	4
17	12/20/13 11:45	9,470.00	9,620.00	9,484.00	9,606.00	4
18	12/20/13 19:11	9,320.00	9,470.00	9,334.00	9,456.00	4
19	12/20/13 23:36	9,168.00	9,320.00	9,184.00	9,302.00	4
20	12/21/13 3:49	9,020.00	9,168.00	9,034.00	9,154.00	4
21	12/21/13 12:36	8,870.00	9,020.00	8,884.00	9,006.00	4
22	12/21/13 17:06	8,720.00	8,870.00	8,736.00	8,856.00	4
23	12/21/13 21:33	8,570.00	8,720.00	8,584.00	8,706.00	4
24	12/22/13 5:26	8,420.00	8,570.00	8,434.00	8,556.00	4
25	12/22/13 14:44	NA	8,420.00	8,284.00	8,406.00	4

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514420 - 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	8,040.00	20.2	NA	NA	NA	3,886	12/13/2013 23:04	12/14/2013 4:01	NA
1	5,960.00	8,632.00	90.9	4,405.00	1.01	3,550.00	5,558	12/14/2013 7:47	12/14/2013 9:30	200,236
2	7,199.00	8,200.00	91.3	4,750.00	1.05	3,676.00	5,097	12/14/2013 18:51	12/14/2013 20:08	200,223
3	7,172.00	8,533.00	94.7	4,585.00	1.03	3,734.00	4,963	12/14/2013 23:33	12/15/2013 0:47	199,282
4	6,944.00	8,683.00	86.6	4,091.00	0.97	3,520.00	4,884	12/16/2013 2:52	12/16/2013 4:10	190,016
5	7,992.00	8,512.00	95.7	4,296.00	0.99	3,724.00	5,239	12/16/2013 16:40	12/16/2013 17:54	202,111
6	6,836.00	8,559.00	98.7	4,416.00	1.01	3,786.00	5,058	12/16/2013 21:15	12/16/2013 22:32	201,718
7	7,251.00	8,604.00	95.2	5,505.00	1.15	4,105.00	5,145	12/17/2013 1:56	12/17/2013 3:15	199,721
8	7,555.00	8,560.00	100.9	5,054.00	1.09	3,839.00	5,045	12/17/2013 7:26	12/17/2013 8:36	200,224
9	6,653.00	8,522.00	100.7	4,956.00	1.08	3,982.00	5,038	12/17/2013 11:34	12/17/2013 12:40	200,992
10	6,984.00	8,484.00	100.0	5,572.00	1.16	3,528.00	5,063	12/17/2013 20:11	12/17/2013 21:21	202,397
11	6,148.00	8,623.00	96.9	4,414.00	1.01	3,861.00	5,158	12/18/2013 20:08	12/18/2013 21:28	202,690
12	6,227.00	8,529.00	99.1	5,542.00	1.16	4,166.00	6,274	12/19/2013 0:23	12/19/2013 17:04	200,985
13	6,246.00	8,430.00	97.9	5,695.00	1.18	4,234.00	5,137	12/19/2013 20:40	12/19/2013 21:52	199,414
14	7,286.00	8,023.00	92.0	5,175.00	1.11	3,943.00	5,067	12/20/2013 1:03	12/20/2013 2:17	202,012
15	6,937.00	8,428.00	99.4	5,309.00	1.13	3,937.00	4,840	12/20/2013 5:22	12/20/2013 6:47	199,160
16	7,378.00	8,172.00	96.4	5,561.00	1.16	4,081.00	5,010	12/20/2013 9:06	12/20/2013 10:30	201,232
17	6,465.00	8,481.00	100.2	5,504.00	1.15	3,999.00	5,075	12/20/2013 16:18	12/20/2013 17:25	199,898
18	6,075.00	8,183.00	97.9	5,290.00	1.13	3,904.00	5,034	12/20/2013 20:26	12/20/2013 21:35	199,413
19	7,027.00	8,171.00	99.7	5,106.00	1.1	3,921.00	4,986	12/21/2013 1:05	12/21/2013 2:14	201,181
20	7,646.00	8,066.00	100.5	5,387.00	1.14	3,791.00	4,967	12/21/2013 10:05	12/21/2013 11:28	199,768
21	6,626.00	7,726.00	99.8	5,092.00	1.1	3,750.00	5,073	12/21/2013 14:37	12/21/2013 16:01	200,117
22	7,826.00	7,930.00	97.1	5,305.00	1.13	4,091.00	5,011	12/21/2013 18:40	12/21/2013 19:51	201,876
23	7,221.00	7,692.00	100.3	5,267.00	1.12	3,969.00	5,038	12/22/2013 0:42	12/22/2013 1:50	201,946
24	8,009.00	7,691.00	100.5	5,402.00	1.14	4,131.00	5,024	12/22/2013 7:52	12/22/2013 9:14	197,535
25	6,214.00	7,811.00	100.7	4,367.00	1.01	3,571.00	5,144	12/22/2013 15:46	12/22/2013 17:12	199,899