

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas  
Well Operator's Report of Well Work

Farm name: Kathy S. Edgell Operator Well No.: 513860

LOCATION: Elevation: 924' Quadrangle: Big Run

District: Grant County: Wetzel, WV  
Latitude: 441' Feet South of 39 Deg. 35 Min. 00 Sec.  
Longitude 9,997' 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	58
Agent: Cecil Ray	13 3/8	358	358	484
Inspector: Bill Hatfield	9 5/8	2,901	2,901	1,175
Date Permit Issued: 5/13/13	5 1/2	10,290	10,290	1,490
Date Well Work Commenced: 5/23/213				
Date Well Work Completed: 6/13/13				
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): 6,981'				
Total Measured Depth (ft): 10,300'				
Fresh Water Depth (ft.): 282'				
Salt Water Depth (ft.): 1,900'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 178', 538', 643', 1,153', 1,503', 1,526'				
Void(s) encountered (N/Y) Depth(s) No				

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

Producing formation Marcellus Pay zone depth (ft) 6,948

Gas: Initial open flow 4,392 MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 13,412 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 87 Hours

Static rock Pressure 1,162 psig (surface pressure) after 91.5 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.

Brad Ma  
Signature

10/10/13  
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, & 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 Attachment**

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

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

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

Sand / Shale / / 178 / 178 -- Fresh Water Zone / 1 / 282 / 281 -- Coal / 178 / 181 / 3 --  
Sand / Shale / 181 / 538 / 357 -- Coal / 538 / 540 / 2 -- Sand / Shale / 540 / 643 / 103 --  
Coal / 643 / 646 / 3 -- Sand / Shale / 646 / 1,153 / 507 -- Coal / 1,153 / 1,155 / 2 --  
Sand / Shale / 1,155 / 1,503 / 348 -- Coal / 1,503 / 1,505 / 2 -- Sand / Shale / 1,505 / 1,526 / 21 --  
Coal / 1,526 / 1,532 / 6 -- Sand / Shale / 1,532 / 1,773 / 241 -- Maxton / 1,773 / 1,889 / 117 --  
Big Lime / 1,889 / 2,271 / 381 -- Weir / 2,271 / 2,445 / 151 -- Gantz / 2,445 / 2,596 / 151 --  
Fifty foot / 2,596 / 2,667 / 71 -- Thirty foot / 2,667 / 2,714 / 47 -- Gordon / 2,714 / 2,801 / 87 --  
Forth Sand / 2,801 / 2,853 / 52 -- Bayard / 2,853 / 3,386 / 533 -- Warren / 3,386 / 3,532 / 146 --  
Speechley / 3,532 / 3,900 / 368 -- Balltown A / 3,900 / 4,354 / 454 -- Riley / 4,354 / 5,011 / 657 --  
Benson / 5,011 / 5,368 / 357 -- Alexander / 5,368 / 6,506 / 1,139 -- Rhinestreet / 6,506 / 6,524 / 18 --  
Sonyea / 6,524 / 6,690 / 166 -- Middlesex / 6,690 / 6,727 / 38 -- Genesee / 6,727 / 6,801 / 73 --  
Geneseo / 6,801 / 6,835 / 35 -- Tully / 6,835 / 6,863 / 27 -- Hamilton / 6,863 / 6,948 / 85 --  
Marcellus / 6,948 / 6,981 / 33 --

Environmental Protection

513860 - 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)	Vol Water Pump (bbl)	Start Date	End Date	Proppant (lb)
Toe Pop	NA	8,343.00	15.6	NA	NA	NA	696	8/17/2013 14:20	8/17/2013 16:25	NA
1	7,563.00	8,561.00	89.2	3,957.00	1	3,337.00	5134	8/17/2013 21:13	8/17/2013 22:41	203,777
2	6,940.00	8,694.00	90.7	4,274.00	1.06	3,382.00	5105	8/18/2013 1:39	8/18/2013 2:52	200,541
3	6,889.00	8,229.00	90.7	4,034.00	1.01	3,354.00	5138	8/18/2013 6:25	8/18/2013 7:38	201,005
4	6,480.00	8,238.00	90.7	4,170.00	1.03	3,381.00	5342	8/18/2013 11:16	8/18/2013 12:34	200,770
5	6,032.00	8,368.00	89.3	4,010.00	1.01	3,451.00	5049	8/18/2013 16:10	8/18/2013 17:23	199,980
6	7,372.00	8,559.00	86.5	4,647.00	1.1	3,444.00	5049	8/18/2013 19:47	8/18/2013 21:01	199,994
7	7,103.00	8,348.00	91.1	4,499.00	1.08	3,562.00	5023	8/19/2013 2:40	8/19/2013 3:51	199,955
8	8,538.00	7,987.00	97.3	3,759.00	1.06	3,413.00	5189	8/19/2013 15:19	8/19/2013 16:31	199,987
9	6,186.00	8,052.00	100.7	4,911.00	1.15	3,587.00	5046	8/19/2013 19:31	8/19/2013 20:55	200,216
10	6,908.00	8,597.00	94.3	4,121.00	1.05	3,488.00	5008	8/19/2013 23:07	8/20/2013 0:17	200,585
11	6,179.00	8,639.00	89	4,371.00	1.06	3,370.00	4966	8/20/2013 2:19	8/20/2013 3:31	200,148
12	6,364.00	8,526.00	92.2	4,839.00	1.13	3,510.00	4721	8/20/2013 5:50	8/20/2013 6:56	200,169
13	7,096.00	8,219.00	96.5	4,842.00	1.13	3,563.00	5079	8/20/2013 9:36	8/20/2013 10:42	201,544
14	6,559.00	8,098.00	97.4	3,582.00	1.06	3,473.00	4979	8/20/2013 13:49	8/20/2013 14:57	202,033
15	6,108.00	8,066.00	97.1	3,983.00	1.09	3,559.00	4984	8/20/2013 17:43	8/20/2013 21:18	200,024
16	6,114.00	7,467.00	100.2	5,320.00	1.2	3,630.00	5022	8/20/2013 23:50	8/21/2013 0:57	202,135
17	6,529.00	7,455.00	100.2	4,924.00	1.14	3,560.00	4971	8/21/2013 3:46	8/21/2013 4:52	201,360
18	6,971.00	7,366.00	100	4,872.00	1.13	3,666.00	5027	8/21/2013 7:17	8/21/2013 8:20	199,678
19	6,210.00	7,261.00	100.6	5,606.00	1.24	4,237.00	4954	8/21/2013 14:16	8/21/2013 15:18	200,840
20	6,423.00	7,282.00	99.5	5,537.00	1.23	3,753.00	4970	8/21/2013 18:01	8/21/2013 19:06	202,101

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