

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: 9/3/2013
API #: 47-017-06115

Farm name: Sue Ann Spiker Operator Well No.: 513531

LOCATION: Elevation: 1,254' Quadrangle: Smithburg

District: New Milton County: Doddridge, WV
Latitude: 10,559 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 8,403 Feet West of 80 Deg. 42 Min. 30 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	20	72	72	81
Agent: Cecil Ray	13 3/8	667	667	649
Inspector: Sam Ward	9 5/8	5,327	5,327	2,095
Date Permit Issued: 9/13/2012	5 1/2	11,960	11,960	1,988
Date Well Work Commenced: 11/14/2012				
Date Well Work Completed: 2/18/2013				
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): 6,835'				
Total Measured Depth (ft): 11,960'				
Fresh Water Depth (ft.): 106', 576'				
Salt Water Depth (ft.): 2000'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 45', 281', 557', 628', 1,207', 1,376'				
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) 6,764
Gas: Initial open flow 1,328 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 13,536 MCF/d Final open flow 24 Bbl/d
Time of open flow between initial and final tests 92.75 Hours
Static rock Pressure 1,652 psig (surface pressure) after 93 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

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

7/17/2014
Date

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 Yes, MWD Gamma, CBL, and Gyro

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

Re-perforated stage 7 due to high treating pressures

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 / 45 / 45 -- COAL / 45 / 50 / 5 -- SAND / SHALE / 50 / 281 / 231 --

COAL / 281 / 285 / 4 -- SAND / SHALE / 285 / 557 / 272 --

COAL / 557 / 560 / 3 -- SAND / SHALE / 560 / 628 / 68 --

COAL / 628 / 633 / 5 -- SAND / SHALE / 633 / 1,207 / 574 --

COAL / 1,207 / 1,210 / 3 -- SAND / SHALE / 1,210 / 1,376 / 166 --

COAL / 1,376 / 1,381 / 5 -- SAND / SHALE / 1,381 / 2,657 / 1,276 --

GORDON / 2,657 / 3,257 / 600 -- WARREN / 3,257 / 3,336 / 79 --

SPEECHLEY / 3,336 / 3,999 / 663 -- BALLTOWN B / 3,999 / 4,209 / 210 --

BRADFORD / 4,209 / 4,509 / 300 -- RILEY / 4,509 / 4,924 / 415 --

BENSON / 4,924 / 5,183 / 259 -- ALEXANDER / 5,183 / 6,185 / 1,002

RHINESTREET / 6,185 / 6,202 / 17 -- SONYEA / 6,202 / 6,529 / 327 --

MIDDLESEX / 6,529 / 6,583 / 55 -- GENESSEE / 6,583 / 6,657 / 73 --

GENESE0 / 6,657 / 6,699 / 43 -- TULLY / 6,699 / 6,728 / 29 --

HAMILTON / 6,728 / 6,764 / 36 -- Marcellus blk shale / 6,764 / 6,835 / 71--

513531 - Perforations

Zone/Stage	Date	Top Plug Depth (ftKB)	Bottom Plug Depth (ftKB)	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Shots/ft
Toe Pop	2/4/14 19:02	11,797.00	NA	11,932.00	11,932.00	NA
1	2/4/14 20:57	11,797.00	NA	11,811.00	11,903.00	4
2	2/5/14 2:40	11,647.00	11,797.00	11,661.00	11,783.00	4
3	2/5/14 10:00	11,497.00	11,647.00	11,511.00	11,633.00	4
4	2/5/14 23:30	11,347.00	11,497.00	11,361.00	11,483.00	4
5	2/6/14 14:53	11,197.00	11,347.00	11,211.00	11,329.00	4
6	2/6/14 21:07	11,047.00	11,197.00	11,061.00	11,182.00	4
7	2/7/14 7:25	10,856.00	11,047.00	10,911.00	11,033.00	4
7 (Re-Perf)	2/7/14 12:58	10,856.00	11,047.00	10,869.50	10,922.50	4
8	2/7/14 19:05	10,706.00	10,856.00	10,725.00	10,842.00	4
9	2/8/14 1:30	10,556.00	10,706.00	10,570.00	10,692.00	4
10	2/8/14 6:25	10,406.00	10,556.00	10,420.00	10,542.00	4
11	2/8/14 11:05	10,256.00	10,406.00	10,270.00	10,392.00	4
12	2/8/14 15:59	10,106.00	10,256.00	10,120.00	10,242.00	4
13	2/8/14 23:08	9,956.00	10,106.00	9,970.00	10,092.00	4
14	2/9/14 3:30	9,806.00	9,956.00	9,820.00	9,942.00	4
15	2/9/14 11:05	9,656.00	9,806.00	9,670.00	9,792.00	4
16	2/9/14 14:53	9,506.00	9,656.00	9,520.00	9,642.00	4
17	2/10/14 3:16	9,356.00	9,506.00	9,370.00	9,487.00	4
18	2/10/14 7:15	9,206.00	9,356.00	9,220.00	9,342.00	4
19	2/10/14 15:14	9,056.00	9,206.00	9,070.00	9,189.50	4
20	2/10/14 21:00	8,906.00	9,056.00	8,920.00	9,042.00	4
21	2/11/14 0:15	8,756.00	8,906.00	8,770.00	8,892.00	4
22	2/11/14 5:00	8,606.00	8,756.00	8,620.00	8,742.00	4
23	2/11/14 9:50	8,456.00	8,606.00	8,470.00	8,592.00	4
24	2/11/14 15:56	8,306.00	8,456.00	8,320.00	8,442.00	4
25	2/11/14 22:53	8,156.00	8,306.00	8,170.00	8,292.00	4
26	2/12/14 3:43	8,006.00	8,156.00	8,020.00	8,142.00	4
27	2/12/14 8:22	7,856.00	8,006.00	7,870.00	7,992.00	4
28	2/12/14 14:41	7,706.00	7,856.00	7,720.00	7,842.00	4
29	2/12/14 19:10	7,556.00	7,706.00	7,570.00	7,692.00	4
30	2/12/14 23:46	NA	7,556.00	7,420.00	7,542.00	4

513531 - 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	6,739.00	16.3	NA	NA	NA	960	2/4/2014 19:02	2/4/2014 20:00	NA
1	5,707.00	8,325.00	88.2	5,033.00	1.17	3,968.00	5,418	2/4/2014 23:39	2/5/2014 0:58	199,800
2	7,210.00	8,472.00	89.2	5,388.00	1.22	4,119.00	5,285	2/5/2014 13:50	2/5/2014 15:13	195,300
3	5,917.00	8,183.00	83.6	4,469.00	1.09	3,932.00	5,683	2/5/2014 21:41	2/5/2014 23:28	200,600
4	6,163.00	8,634.00	96.4	4,974.00	1.16	4,201.00	6,022	2/6/2014 10:01	2/6/2014 13:28	203,500
5	5,689.00	8,594.00	92.4	4,014.00	1.02	3,430.00	5,197	2/6/2014 17:17	2/6/2014 18:34	200,900
6	7,155.00	8,634.00	96.1	4,476.00	1.09	3,997.00	4,977	2/7/2014 4:20	2/7/2014 5:37	202,100
7	7,042.00	7,898.00	23.2	4,905.00	1.15	NA	1,549	2/7/2014 11:05	2/7/2014 12:13	1,100
7 (Re-Perf)	4,827.00	7,846.00	91.9	4,692.00	1.12	4,024.00	5,124	2/7/2014 16:14	2/7/2014 17:38	196,400
8	6,745.00	8,372.00	92.3	3,911.00	1.01	3,251.00	5,037	2/7/2014 0:00	2/7/2014 0:00	199,400
9	7,002.00	8,349.00	89.2	4,269.00	1.06	3,495.00	5,106	2/8/2014 3:19	2/8/2014 4:44	197,700
10	7,589.00	8,479.00	96.7	4,882.00	1.15	3,876.00	5,037	2/8/2014 8:22	2/8/2014 9:40	200,600
11	7,023.00	8,139.00	89.1	4,726.00	1.13	3,953.00	5,028	2/8/2014 13:21	2/8/2014 14:40	198,900
12	7,564.00	8,267.00	95.0	4,888.00	1.15	3,923.00	5,119	2/8/2014 20:20	2/8/2014 21:41	201,700
13	7,189.00	8,231.00	94.0	4,132.00	1.04	3,418.00	4,938	2/8/2014 0:00	2/8/2014 0:00	202,400
14	6,217.00	8,444.00	95.4	4,989.00	1.17	3,577.00	4,968	2/9/2014 8:33	2/9/2014 9:50	195,300
15	7,170.00	8,284.00	97.2	5,098.00	1.18	3,910.00	5,163	2/9/2014 12:25	2/9/2014 13:41	201,900
16	6,881.00	8,228.00	98.0	4,801.00	1.14	4,271.00	4,961	2/10/2014 0:36	2/10/2014 1:56	199,000
17	6,303.00	7,992.00	94.0	4,202.00	1.05	3,641.00	5,373	2/10/2014 4:34	2/10/2014 5:51	201,400
18	6,945.00	8,240.00	87.9	4,513.00	1.1	3,747.00	7,173	2/10/2014 11:11	2/10/2014 14:00	203,500
19	5,856.00	8,239.00	88.3	4,619.00	1.11	3,766.00	5,178	2/10/2014 16:32	2/10/2014 17:52	201,700
20	5,445.00	8,202.00	93.0	4,268.00	1.06	3,523.00	5,262	2/10/2014 21:30	2/10/2014 22:49	203,900
21	7,306.00	8,272.00	95.5	4,182.00	1.05	3,472.00	4,969	2/11/2014 2:17	2/11/2014 3:31	198,600
22	6,085.00	8,081.00	100.2	4,180.00	1.05	3,459.00	4,931	2/11/2014 7:03	2/11/2014 8:13	202,100
23	6,317.00	8,071.00	98.1	4,359.00	1.07	3,774.00	5,015	2/11/2014 13:10	2/11/2014 14:22	200,400
24	5,195.00	8,110.00	99.9	4,383.00	1.08	3,730.00	4,992	2/11/2014 20:16	2/11/2014 21:27	201,700
25	5,735.00	7,742.00	99.0	4,674.00	1.12	4,086.00	4,674	2/12/2014 1:04	2/12/2014 2:20	201,200
26	6,587.00	7,929.00	97.5	4,742.00	1.13	3,159.00	4,812	2/12/2014 5:08	2/12/2014 6:19	201,400
27	5,321.00	7,990.00	100.3	4,804.00	1.14	3,325.00	4,948	2/12/2014 11:55	2/12/2014 13:02	201,600
28	5,652.00	7,994.00	100.3	4,972.00	1.16	3,214.00	4,869	2/12/2014 16:37	2/12/2014 17:45	199,700
29	5,411.00	7,411.00	100.0	4,506.00	1.1	3,661.00	4,817	2/12/2014 21:07	2/12/2014 22:13	195,400
30	6,027.00	7,918.00	99.6	4,037.00	1.03	3,339.00	4,889	2/13/2014 1:00	2/13/2014 2:08	203,700