

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 #: 47-103-02807

Farm name: J.R.Shreve Operator Well No.: 512753

LOCATION: Elevation: 927 Quadrangle: Big Run

District: Grant County: Wetzel
Latitude: 421 Feet South of 39 Deg. 35 Min. 00 Sec.
Longitude 10,037 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	362	362	460
Inspector: David Scranage	9 5/8	2,929	2,929	1,230
Date Permit Issued: 8/13/2012	5 1/2	14,627	14,627	2,630
Date Well Work Commenced: 10/10/2012				
Date Well Work Completed: 1/3/2013				
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): 6,988'				
Total Measured Depth (ft): 14,640'				
Fresh Water Depth (ft.): 282'				
Salt Water Depth (ft.): 1,900				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 175, 640, 1,153, 1,503				
Void(s) encountered (N/Y) Depth(s) No				

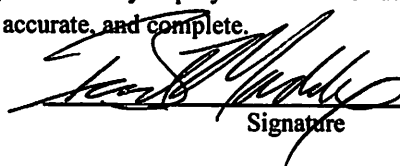
OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 6,937
Gas: Initial open flow 5,108 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 12,065 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 49.5 Hours
Static rock Pressure 3,100 psig (surface pressure) after 50.5 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

RECEIVED
Office of Oil and Gas
NOV 22 2013
WV Department of
Environmental Protection

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

9/3/2013
Date

01/10/2014

103-02807

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 Yes, Gyro, CBL, and MWD

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-perf stage 7 (7A); screenout stage 13 - ran injection test

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

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
<u>Surface:</u>		

Sand/shale / 0 / 178 / 178 -- 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 / 1,772.8 / 240.8 -- MAXTON / 1,772.8 / 1,889.31 / 116.51 --

BIG LIME / 1,889.31 / 2,270.76 / 381.45 -- WEIR / 2,270.76 / 2,444.77 / 174.01 -- GANTZ / 2,444.77 / 2,596.03 / 151.26 --

50F / 2,596.03 / 2,666.98 / 70.95 -- 30F / 2,666.98 / 2,713.83 / 46.85 -- GORDON / 2,713.83 / 2,800.84 / 87.01 --

4TH / 2,800.84 / 2,852.61 / 51.77 -- BAYARD / 2,852.61 / 3,385.8 / 533.19 -- WARREN / 3,385.8 / 3,531.71 / 145.91 --

SPEECHLEY / 3,531.71 / 3,900.01 / 368.3 -- BALLTOWN A / 3,900.01 / 4,353.6 / 453.59 -- RILEY / 4,353.6 / 5,010.84 / 657.24 --

BENSON / 5,010 / 5,367 / 357 -- ALEXANDER / 5,367 / 6,357 / 990 -- RHINESTREET / 6,357 / 6,516 / 159 --

SONYEA / 6,516 / 6,685 / 169 -- MIDDLESEX / 6,685 / 6,720 / 35 -- GENESSEE / 6,720 / 6,793 / 73 --

GENESE0 / 6,793 / 6,827 / 34 -- TULLY / 6,827 / 6,852 / 25 -- HAMILTON / 6,852 / 6,937 / 85 --

MARCELLUS / 6,937 / 6,988 / 51 --

01/10/2014

103-02807

512753 - Perforations

Zone/Stage	Date	Top Plug Depth (ftKB)	Bottom Plug Depth (ftKB)	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Shots/ft
1	9/9/13 14:45	14,465.00	NA	14,479.00	14,549.50	32
2	9/9/13 21:15	14,315.00	14,465.00	14,329.00	14,451.00	40
3	9/10/13 1:36	14,165.00	14,315.00	14,179.00	14,301.00	40
4	9/10/13 4:47	14,015.00	14,165.00	14,029.00	14,151.00	40
5	9/10/13 22:07	13,865.00	14,015.00	13,879.00	14,001.00	40
6	9/11/13 19:44	13,715.00	13,865.00	13,729.00	13,851.00	40
7	9/12/13 0:35	13,552.00	13,715.00	13,579.00	13,701.00	40
7A	9/12/13 7:00	13,552.00	13,715.00	13,565.50	13,610.00	32
8	9/12/13 11:50	13,402.00	13,552.00	13,416.00	13,538.00	40
9	9/12/13 17:10	13,252.00	13,402.00	13,266.00	13,388.00	40
10	9/12/13 20:44	13,102.00	13,252.00	13,116.00	13,238.00	40
11	9/13/13 1:41	12,952.00	13,102.00	12,966.00	13,088.00	40
12	9/13/13 12:35	12,802.00	12,952.00	12,816.00	12,933.00	40
13	9/13/13 16:55	12,652.00	12,802.00	12,666.00	12,788.00	40
13 Inj	9/14/13 2:16	12,652.00	12,802.00	NA	NA	NA
14	9/14/13 8:10	12,502.00	12,652.00	12,516.00	12,638.00	40
15	9/14/13 12:20	12,352.00	12,502.00	12,366.00	12,483.00	40
16	9/14/13 16:10	12,202.00	12,352.00	12,216.00	12,338.00	40
17	9/14/13 22:00	12,052.00	12,202.00	12,066.00	12,186.00	40
18	9/15/13 3:00	11,902.00	12,052.00	11,916.00	12,038.00	40
19	9/15/13 5:58	11,752.00	11,902.00	11,766.00	11,888.00	40
20	9/15/13 16:48	11,602.00	11,752.00	11,616.00	11,738.00	40
21	9/15/13 21:07	11,452.00	11,602.00	11,466.00	11,588.00	40
22	9/16/13 0:04	11,302.00	11,452.00	11,316.00	11,438.00	40
23	9/16/13 4:01	11,152.00	11,302.00	11,166.00	11,288.00	40
24	9/16/13 9:49	11,002.00	11,152.00	11,016.00	11,138.00	40
25	9/16/13 13:55	10,852.00	11,002.00	10,866.00	10,988.00	40
26	9/16/13 17:12	10,702.00	10,852.00	10,716.00	10,838.00	40
27	9/16/13 21:26	10,552.00	10,702.00	10,566.00	10,688.00	40
28	9/17/13 1:46	10,402.00	10,552.00	10,416.00	10,538.00	40
29	9/17/13 6:03	10,252.00	10,402.00	10,266.00	10,388.00	40
30	9/17/13 10:08	10,102.00	10,252.00	10,116.00	10,238.00	40
31	9/17/13 16:37	9,952.00	10,102.00	9,966.00	10,088.00	40
32	9/17/13 20:23	9,802.00	9,952.00	9,821.00	9,938.00	40
33	9/18/13 2:00	9,652.00	9,802.00	9,666.00	9,788.00	40
34	9/18/13 6:36	9,502.00	9,652.00	9,521.00	9,638.00	40
35	9/18/13 19:22	9,352.00	9,502.00	9,366.00	9,488.00	40
36	9/18/13 23:03	9,202.00	9,352.00	9,216.00	9,338.00	40
37	9/19/13 2:38	9,052.00	9,202.00	9,066.00	9,188.00	40
38	9/19/13 5:57	8,902.00	9,052.00	8,916.00	9,040.00	40
39	9/19/13 10:06	8,752.00	8,902.00	8,765.00	8,888.00	40
40	9/21/13 22:13	8,602.00	8,752.00	8,616.00	8,738.00	40
41	9/22/13 1:23	8,452.00	8,602.00	8,466.00	8,588.00	40
42	9/22/13 4:28	8,302.00	8,452.00	8,316.00	8,438.00	40
43	9/22/13 8:54	8,152.00	8,302.00	8,166.00	8,285.00	40
44	9/22/13 12:43	8,002.00	8,152.00	8,016.00	8,138.00	40
45	9/22/13 16:09	7,852.00	8,002.00	7,866.00	7,989.00	40
46	9/22/13 19:22	7,702.00	7,852.00	7,716.00	7,838.00	40
47	9/22/13 22:51	NA	7,702.00	7,566.00	7,688.00	40

01/10/2014

103-02807

512753 - 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	7,403.00	22	NA	NA	NA	540	9/9/2013 12:05	9/9/2013 13:39	NA
1	6,435.00	8,205.00	80.5	4,272.00	1.04	3,406.00	5752	9/9/2013 18:17	9/9/2013 19:42	203,311
2	6,493.00	8,458.00	79.8	4,588.00	1.09	3,639.00	6421	9/9/2013 22:23	9/10/2013 0:03	197,973
3	7,040.00	8,260.00	82.9	4,891.00	1.13	3,703.00	5505	9/10/2013 2:51	9/10/2013 4:18	201,697
4	7,653.00	8,188.00	85.9	5,034.00	1.15	3,686.00	5314	9/10/2013 7:07	9/10/2013 8:49	203,910
5	7,187.00	8,251.00	77.5	4,421.00	1.07	3,477.00	6257	9/11/2013 16:24	9/11/2013 18:02	199,800
6	6,977.00	8,481.00	79.8	4,306.00	1.05	3,449.00	5609	9/11/2013 21:24	9/11/2013 22:59	200,385
7	7,117.00	8,387.00	64.9	5,785.00	1.26	3,753.00	3840	9/12/2013 1:48	9/12/2013 3:09	75,872
7A	7,266.00	8,135.00	87.8	4,509.00	1.08	3,601.00	5421	9/12/2013 9:09	9/12/2013 10:10	135,380
8	7,718.00	8,261.00	88.8	4,606.00	1.09	3,687.00	5667	9/12/2013 13:58	9/12/2013 15:26	199,260
9	6,835.00	8,202.00	88	5,003.00	1.15	3,850.00	5205	9/12/2013 18:38	9/12/2013 20:08	199,268
10	6,405.00	8,221.00	80.9	4,592.00	1.1	3,628.00	5185	9/12/2013 23:37	9/13/2013 1:07	200,328
11	6,634.00	8,461.00	72.3	4,600.00	1.09	3,602.00	7473	9/13/2013 6:41	9/13/2013 8:42	189,013
12	7,094.00	8,257.00	88.5	4,821.00	1.12	3,715.00	5789	9/13/2013 13:56	9/13/2013 15:24	184,630
13	5,958.00	8,240.00	84.3	NA	NA	NA	4134	9/13/2013 18:40	9/13/2013 19:53	154,139
13 Inj	5,527.00	5,938.00	8.9	5,651.00	1.24	NA	2141	9/14/2013 2:16	9/14/2013 6:16	NA
14	5,930.00	8,220.00	93.6	4,436.00	1.07	3,476.00	5481	9/14/2013 9:30	9/14/2013 10:51	201,730
15	6,411.00	8,248.00	81.2	5,393.00	1.2	3,508.00	6078	9/14/2013 13:34	9/14/2013 15:07	194,720
16	6,247.00	8,779.00	85.3	5,631.00	1.24	3,628.00	4933	9/14/2013 18:34	9/14/2013 19:56	198,838
17	6,885.00	8,026.00	85	4,815.00	1.15	3,583.00	5007	9/14/2013 23:27	9/14/2013 0:28	199,947
18	7,329.00	8,082.00	88	5,084.00	1.16	3,601.00	5060	9/15/2013 3:13	9/15/2013 4:33	200,081
19	6,062.00	8,017.00	99	4,839.00	1.13	3,595.00	5340	9/15/2013 14:11	9/15/2013 15:27	197,960
20	6,258.00	7,782.00	92.68	4,936.00	1.14	3,658.00	5385	9/15/2013 18:05	9/15/2013 19:28	201,661
21	5,977.00	8,055.00	91.1	5,724.00	1.25	3,871.00	5056	9/15/2013 22:11	9/15/2013 23:31	199,973
22	6,295.00	8,174.00	92.2	5,107.00	1.17	3,752.00	5395	9/16/2013 2:08	9/16/2013 3:28	200,954
23	6,475.00	7,675.00	96.9	5,271.00	1.19	3,794.00	5301	9/16/2013 7:08	9/16/2013 8:23	199,260
24	7,317.00	8,009.00	98.6	5,750.00	1.26	4,093.00	5260	9/16/2013 11:22	9/16/2013 12:36	201,880
25	7,469.00	7,868.00	97.7	5,138.00	1.17	3,770.00	5221	9/16/2013 15:39	9/16/2013 16:43	201,630
26	6,349.00	7,847.00	95.6	5,020.00	1.15	3,930.00	4802	9/16/2013 19:41	9/16/2013 20:54	200,457
27	7,051.00	8,111.00	98.07	4,936.00	1.14	3,896.00	4857	9/16/2013 23:41	9/17/2013 0:55	200,218
28	7,018.00	7,907.00	98.4	5,010.00	1.15	3,854.00	4856	9/17/2013 3:32	9/17/2013 4:43	200,476
29	6,235.00	8,023.00	99	5,439.00	1.21	4,005.00	5160	9/17/2013 7:34	9/17/2013 8:47	190,020
30	7,036.00	8,078.00	90.2	5,067.00	1.16	3,832.00	4974	9/17/2013 14:02	9/17/2013 15:19	198,810
31	6,967.00	7,938.00	89.3	4,718.00	1.11	3,957.00	5284	9/17/2013 19:43	9/17/2013 21:04	199,652
32	7,307.00	8,002.00	92.4	4,758.00	1.12	4,027.00	4925	9/17/2013 23:29	9/18/2013 0:44	201,162
33	6,966.00	7,795.00	95.4	5,349.00	1.2	4,083.00	4952	9/18/2013 3:09	9/18/2013 4:22	198,994
34	6,623.00	7,905.00	96.4	5,591.00	1.24	4,290.00	5513	9/18/2013 9:17	9/18/2013 18:27	199,576
35	7,101.00	8,041.00	93.8	5,510.00	1.22	4,247.00	4915	9/18/2013 20:36	9/18/2013 22:06	200,108
36	6,557.00	8,148.00	99.3	5,588.00	1.23	4,039.00	4897	9/19/2013 0:19	9/19/2013 1:45	200,108
37	7,045.00	8,167.00	98.2	4,778.00	1.12	3,846.00	4925	9/19/2013 3:34	9/19/2013 5:01	199,272
38	6,645.00	8,302.00	95.5	5,840.00	1.27	4,026.00	4536	9/19/2013 7:18	9/19/2013 8:29	155,660
39	7,916.00	7,783.00	97.8	5,154.00	1.17	3,858.00	5070	9/21/2013 19:45	9/21/2013 21:16	199,379
40	7,615.00	7,758.00	99.6	5,150.00	1.17	3,959.00	5163	9/21/2013 23:09	9/22/2013 0:38	199,022
41	6,675.00	7,654.00	99.8	5,047.00	1.16	3,890.00	4930	9/22/2013 2:13	9/22/2013 3:40	200,489
42	6,370.00	8,018.00	95.9	4,720.00	1.1	3,785.00	4911	9/22/2013 5:56	9/22/2013 7:06	200,590
43	6,811.00	8,214.00	97.6	4,724.00	1.11	3,708.00	4899	9/22/2013 10:24	9/22/2013 11:32	200,310
44	6,950.00	8,092.00	96.7	5,271.00	1.19	3,888.00	4873	9/22/2013 13:47	9/22/2013 14:59	200,010
45	7,231.00	8,172.00	98.4	5,788.00	1.26	4,035.00	4878	9/22/2013 17:07	9/22/2013 18:31	201,071
46	6,654.00	8,026.00	97	5,271.00	1.19	3,923.00	4856	9/22/2013 20:28	9/22/2013 21:55	200,186
47	6,186.00	7,898.00	96.2	4,216.00	1.04	3,641.00	4919	9/22/2013 23:40	9/23/2013 1:36	200,009

01/10/2014