

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

DATE: 11/25/2013
API #: 47-1706197

HCA

Farm name: Eleanor Meyer Operator Well No.: 513766

LOCATION: Elevation: 1068 Quadrangle: West Union 7.5

District: West Union County: Doddridge
Latitude: 7903 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 5184 Feet West of 80 Deg. 47 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 AVE, PITTSBURGH, PA 15222	20"	40	40	45
Agent: Rex C. Ray	13-3/8"	739	739	762
Inspector: Douglas Newlon	9-5/8"	2,981	2,981	1286
Date Permit Issued: <u>4/24/2013</u>	5-1/2"	10,944	10,944	1,909
Date Well Work Commenced: <u>6/26/2013</u>				
Date Well Work Completed: <u>11/22/2013</u>				
Verbal Plugging: <u>N/A</u>				
Date Permission granted on: <u>N/A</u>				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): <u>6,727</u>				
Total Measured Depth (ft): <u>10,952</u>				
Fresh Water Depth (ft.): <u>126,271,296,& 649</u>				
Salt Water Depth (ft.): <u>1702 & 1851</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>220-227 & 837-840</u>				
Void(s) encountered (N/Y) Depth(s) <u>N</u>				

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

Producing formation Marcellus Pay zone depth (ft) 6,626
Gas: Initial open flow 4.704 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 5.667 MCF/d Final open flow 9.6 Bbl/d
Time of open flow between initial and final tests 44 Hours
Static rock Pressure 3,037 psig (surface pressure) after 47 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

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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 MWD, 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:

See Attachment

Amended Report with Flow Back Data

Plug Back Details Including Plug Type and Depth(s): Drilled a Lateral hole to 10,541'. Lost circulation and got stuck.

Set 2 BHKA plugs f/ 4733' t/ 3907' with 408 cuft of cmt and f/ 4372' t/ 3843' with 254 cuft of cmt with Halliburton. Sidetrack curve and Lateral.

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth
Surface: _____

Formations:

Sand / Shale 0/ 220/ 220 -- COAL 220/ 227/ 7 -- SAND / SHALE 227/ 837/ 610 -- COAL 837/ 840/ 3 -- SAND / SHALE 840/ 1589/ 749 -- MAXTON 1589/ 1604/ 15 --
SAND / SHALE 1604/ 1796/ 192 -- BIG LIME 1796/ 1897/ 101 -- BIG INJUN 1897/ 2106/ 209 -- WEIR 2106/ 2206/ 100 -- SAND / SHALE 2206/ 2306/ 100 -- GANTZ 2306/ 2417/ 111 --
FIFTY FOOT 2417/ 2513/ 96 -- THIRTY FOOT 2513/ 2567/ 54 -- GORDON 2567/ 2658/ 91 -- FORTH SAND 2658/ 2832/ 174 -- BAYARD 2832/ 3336/ 504 -- WARREN 3336/ 3424/ 88 --
SPEECHLEY 3424/ 4059/ 635 -- BALLTOWN A 4059/ 4555/ 496 -- RILEY 4555/ 4969/ 414 -- BENSON 4969/ 5242/ 273 -- ALEXANDER 5242/ 6279/ 1037 -- SONYEA 6279/ 6424/ 145 --
MIDDLESEX 6424/ 6475/ 51 -- GENESSEE 6475/ 6541/ 66 -- GENESEO 6541/ 6583/ 42 -- TULLY 6583/ 6605/ 23 -- HAMILTON 6605/ 6626/ 21 -- Marcellus 6626/ 6727/ 101 --

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513766 - Perforations

Zone/Stage	Date	Top Plug Depth (ftKB)	Bottom Plug Depth (ftKB)	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Shots/ft
Toe Pop	2/11/14 11:51	10,782.00	NA	10,917.00	10,920.00	NA
1	2/11/14 18:04	10,782.00	NA	10,796.00	10,888.00	4
2	2/12/14 8:21	10,646.00	10,782.00	10,646.00	10,768.00	4
3	2/12/14 23:14	10,482.00	10,632.00	10,496.00	10,608.00	4
4	2/13/14 6:10	10,332.00	10,482.00	10,346.00	10,468.00	4
5	2/13/14 15:22	10,182.00	10,332.00	10,196.00	10,316.00	4
6	2/13/14 20:12	10,035.00	10,182.00	10,046.00	10,166.00	4
7	2/14/14 3:27	9,882.00	10,035.00	9,899.00	10,018.00	4
8	2/14/14 8:39	9,732.00	9,882.00	9,746.00	9,866.00	4
9	2/14/14 16:40	9,596.00	9,732.00	9,596.00	9,716.00	4
10	2/14/14 23:26	9,432.00	9,582.00	9,446.00	9,568.00	4
11	2/15/14 3:45	9,282.00	9,432.00	9,296.00	9,419.00	4
12	2/15/14 8:26	9,132.00	9,282.00	9,146.00	9,260.00	4
13	2/15/14 14:37	8,982.00	9,132.00	8,996.00	9,116.00	4
14	2/15/14 19:34	8,846.00	8,982.00	8,846.00	8,966.00	4
15	2/16/14 0:36	8,682.00	8,832.00	8,696.00	8,818.00	4
16	2/16/14 5:18	8,532.00	8,682.00	8,696.00	8,818.00	4
17	2/16/14 16:24	8,396.00	8,530.00	8,396.00	8,516.00	4
18	2/16/14 23:54	8,232.00	8,382.00	8,246.00	8,368.00	4
19	2/17/14 8:10	8,082.00	8,232.00	8,096.00	8,216.00	4
20	2/17/14 15:23	7,932.00	8,082.00	7,946.00	8,066.00	4
21	2/17/14 19:04	7,782.00	7,932.00	7,796.00	7,911.00	4
22	2/18/14 2:16	7,632.00	7,780.00	7,646.00	7,766.00	4
23	2/18/14 15:15	7,496.00	7,632.00	7,496.00	7,616.00	4
24	2/18/14 21:12	NA	7,482.00	7,344.00	7,462.00	4

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513766 - 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	8,847.00	16.0	NA	NA	NA	1,969	2/11/2014 12:00	2/11/2014 14:41	NA
1	5,460.00	8,391.00	81.8	5,094.00	1.19	2,866.00	9,360	2/11/2014 22:11	2/11/2014 5:47	249,700
2	5,983.00	8,741.00	94.8	5,241.00	1.21	2,723.00	6,509	2/11/2014 10:53	2/11/2014 12:20	252,900
3	5,316.00	8,506.00	86.1	5,279.00	1.22	2,824.00	7,109	2/13/2014 1:10	2/13/2014 4:00	248,400
4	5,724.00	8,524.00	98.9	5,387.00	1.23	2,780.00	6,892	2/13/2014 9:12	2/13/2014 10:50	251,000
5	5,802.00	8,296.00	98.7	5,299.00	1.22	2,626.00	6,560	2/13/2014 17:17	2/13/2014 18:45	247,200
6	5,694.00	8,574.00	90.5	5,551.00	1.26	2,964.00	6,235	2/13/2014 23:11	2/13/2014 0:41	250,500
7	6,221.00	8,671.00	92.5	6,540.00	1.41	2,792.00	6,645	2/14/2014 5:14	2/14/2014 6:46	248,100
8	5,522.00	8,631.00	98.4	5,837.00	1.3	3,270.00	6,503	2/14/2014 10:50	2/14/2014 16:17	250,000
9	5,842.00	8,158.00	98.0	5,639.00	1.27	3,304.00	6,030	2/14/2014 20:08	2/14/2014 21:33	253,900
10	5,683.00	8,151.00	99.5	5,436.00	1.24	3,365.00	6,267	2/15/2014 0:44	2/15/2014 2:30	250,500
11	6,222.00	8,264.00	101.2	5,327.00	1.23	3,728.00	6,348	2/15/2014 5:03	2/15/2014 6:24	252,600
12	5,644.00	8,135.00	100.8	5,300.00	1.22	3,515.00	5,888	2/15/2014 11:12	2/15/2014 12:44	252,300
13	5,699.00	8,426.00	94.6	5,447.00	1.24	3,019.00	6,034	2/15/2014 16:51	2/15/2014 18:14	250,600
14	5,694.00	8,174.00	98.7	5,550.00	1.26	3,227.00	6,086	2/15/2014 21:34	2/15/2014 23:10	253,400
15	5,543.00	7,908.00	101.7	5,182.00	1.21	3,420.00	6,364	2/16/2014 5:18	2/16/2014 6:47	251,500
16	6,339.00	8,172.00	100.6	5,056.00	1.19	2,902.00	5,897	2/16/2014 14:17	2/16/2014 15:33	250,800
17	6,230.00	7,524.00	99.6	5,536.00	1.26	3,160.00	6,516	2/16/2014 20:22	2/16/2014 22:02	248,200
18	5,429.00	7,488.00	102.5	4,339.00	1.08	3,477.00	6,531	2/17/2014 4:45	2/17/2014 6:21	251,600
19	5,510.00	8,166.00	102.0	5,154.00	1.2	2,623.00	6,014	2/17/2014 12:45	2/17/2014 14:03	250,800
20	6,477.00	7,716.00	100.0	5,057.00	1.19	2,880.00	6,011	2/17/2014 16:42	2/17/2014 18:00	248,600
21	5,576.00	7,387.00	101.6	5,103.00	1.2	2,996.00	6,425	2/17/2014 23:10	2/18/2014 1:00	249,700
22	5,821.00	7,553.00	100.0	5,358.00	1.24	3,345.00	6,091	2/18/2014 13:24	2/18/2014 14:45	250,700
23	6,128.00	7,618.00	100.3	4,776.00	1.15	2,658.00	6,253	2/18/2014 18:00	2/18/2014 19:53	248,400
24	5,742.00	6,820.00	100.1	3,282.00	0.93	2,336.00	6,166	2/18/2014 22:25	2/19/2014 0:16	241,600

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