

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: 10/10/13
API #: 47-017-06035

PM JR

Farm name: L.I. Morris Operator Well No.: 512496

LOCATION: Elevation: 1,166' Quadrangle: Oxford

District: Southwest County: Doddridge, WV
Latitude: 11.280' Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 5.740' 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 Avenue, Pittsburgh, PA 15222	20	40	40	45
Agent: Cecil Ray	13 3/8	972	972	876
Inspector: David Scranage	9 5/8	3,145	3,145	1,313
Date Permit Issued: 10/24/2011	5 1/2	9,789	9,789	1,432
Date Well Work Commenced: 4/11/2012				
Date Well Work Completed: 6/27/2012				
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): 6,583'				
Total Measured Depth (ft): 9,802'				
Fresh Water Depth (ft.): 295', 765'				
Salt Water Depth (ft.): 1,140'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 1,294, 1,328, 1,422				
Void(s) encountered (N/Y) Depth(s) No				

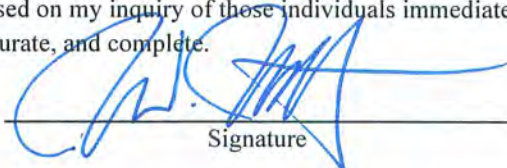
OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 6243
Gas: Initial open flow 1,680 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 6,336 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 92.5 Hours
Static rock Pressure 1,225 psig (surface pressure) after 106.5 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.


Signature

3/11/2014
Date

06/27/2017

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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 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

Re-perforated stage 17 due to pressures

Sliding sleeves used on stages 1 - 10

Plug Back Details Including Plug Type and Depth(s): Pumped solid cement plug from 5,983' to 5,483'.

Plugged around shanked hammer bit.

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

Sand / Shale / 0 / 1,861 / 1,861 -- Big Lime 1861 / 1923 / 62 -- Big Injun / 1923 / 2089 / 165 --
Weir / 2089 / 2345 / 257 -- Gantz / 2345 / 2465 / 119 -- 50F / 2465 / 2553 / 88 -- 30F / 2553 / 2607 / 54 --
Gordon / 2607 / 2700 / 94 -- Forth Sand / 2700 / 2872 / 172 -- Fifth Sand / 2872 / 2918 / 46 --
Bayard / 2918 / 3213 / 295 -- Warren / 3213 / 3284 / 72 -- Speechley / 3284 / 3817 / 533 --
Balltown A / 3817 / 4162 / 345 -- Bradford / 4162 / 4731 / 570 -- Riley / 4731 / 4812 / 81 --
Benson / 4812 / 5059 / 246 -- Alexander / 5059 / 6002 / 943 -- Sonyea / 6002 / 6106 / 104 --
Middlesex / 6106 / 6142 / 36 -- Genesee / 6142 / 6192 / 50 -- Geneseo / 6192 / 6223 / 31 --
Tully / 6223 / 3236 / 13 -- Hamilton / 6236 / 6243 / 7 -- Marcellus / 6243 / 6583 / 340

512496 - Perforations

Zone/Stage	Date	Top Plug Depth (ftKB)	Bottom Plug Depth (ftKB)	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Shots/ft
1	8/24/2012	9,694.00	NA	9,761.00	9,761.00	4
2	8/25/2012	9,626.00	9,694.00	9,704.00	9,704.00	4
3	8/25/2012	9,558.00	9,626.00	9,637.00	9,637.00	4
4	8/25/2012	9,491.00	9,558.00	9,568.00	9,568.00	4
5	8/30/2012	9,423.00	9,491.00	9,491.00	9,491.00	4
6	8/31/2012	9,356.00	9,423.00	9,423.00	9,423.00	4
7	8/31/2012	9,288.00	9,356.00	9,356.00	9,356.00	4
8	8/31/2012	9,221.00	9,288.00	9,288.00	9,288.00	4
9	9/1/2012	9,154.00	9,221.00	9,221.00	9,221.00	4
10	9/1/2012	9,124.00	9,154.00	9,154.00	9,154.00	4
11	9/1/2012	8,974.00	9,124.00	8,989.00	9,111.00	4
12	9/1/2012	8,824.00	8,974.00	8,839.00	8,961.00	4
13	9/2/2012	8,674.00	8,824.00	8,689.00	8,811.00	4
14	9/2/2012	8,524.00	8,674.00	8,539.00	8,661.00	4
15	9/2/2012	8,374.00	8,524.00	8,389.00	8,511.00	4
16	9/2/2012	8,224.00	8,374.00	8,239.00	8,361.00	4
17	9/4/2012	8,026.00	8,224.00	8,089.00	8,211.00	4
17.1	9/4/2012	8,026.00	8,224.00	8,042.00	8,132.00	4
18	9/5/2012	7,876.00	8,026.00	7,891.00	8,013.00	4
19	9/5/2012	7,726.00	7,876.00	7,741.00	7,863.00	4
20	9/5/2012	7,576.00	7,726.00	7,591.00	7,713.00	4
21	9/5/2012	7,426.00	7,576.00	7,441.00	7,563.00	4
22	9/5/2012	7,276.00	7,426.00	7,291.00	7,413.00	4
23	9/6/2012	NA	7,276.00	7,141.00	7,263.00	4

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512496 - Stimulated Stages

Zone/Stage	P Break (psi)	Avg Treat Pressure (psi)	Avg rate (bbl/min)	ISIP (psi)	15 Min. SIP (psi)	Fluid Volume (bbl)	Date	Proppant (lb)
1	8,930.00	5,646.00	30.4	4,685.00	2,228.00	2,846	8/24/2012	80,300
2	9,477.00	5,785.00	30.1	4,744.00	2,224.00	2,648	8/25/2012	83,000
3	6,771.00	5,618.00	30.5	NA	NA	2,517	8/25/2012	81,700
4	9,525.00	6,839.00	29.1	9,657.00	NA	2,275	8/25/2012	83,200
5	9,471.00	6,995.00	32.7	4,992.00	NA	2,516	8/30/2012	73,300
6	9,536.00	6,009.00	32.9	5,200.00	NA	2,308	8/31/2012	91,600
7	9,575.00	5,595.00	33.3	4,647.00	NA	2,125	8/31/2012	85,200
8	9,322.00	6,982.00	28.0	4,310.00	NA	1,000	8/31/2012	36,700
9	8,695.00	7,664.00	32.6	4,963.00	NA	3,608	9/1/2012	40,600
10	9,618.00	7,359.00	33.6	5,030.00	NA	2,051	9/1/2012	44,800
11	5,686.00	7,692.00	94.8	4,970.00	2,812.00	5,418	9/1/2012	203,700
12	6,186.00	7,006.00	92.4	5,449.00	3,176.00	5,147	9/2/2012	200,700
13	5,774.00	7,237.00	99.7	5,449.00	2,927.00	5,177	9/2/2012	191,800
14	6,685.00	6,965.00	98.7	4,836.00	2,906.00	5,162	9/2/2012	207,400
15	6,234.00	6,907.00	99.4	4,368.00	2,703.00	4,368	9/2/2012	203,000
16	6,207.00	6,885.00	98.0	4,689.00	2,634.00	5,142	9/4/2012	201,200
17	7,331.00	8,618.00	66.1	NA	NA	3,684	9/4/2012	2,200
17.1	5,390.00	7,523.00	100.5	4,586.00	3,116.00	5,392	9/4/2012	206,300
18	6,442.00	7,027.00	100.4	4,255.00	2,653.00	5,120	9/5/2012	204,200
19	6,485.00	7,029.00	95.9	4,959.00	2,940.00	5,013	9/5/2012	201,100
20	5,604.00	7,795.00	90.6	4,825.00	2,584.00	5,331	9/5/2012	167,700
21	5,213.00	7,661.00	95.3	4,242.00	2,546.00	5,153	9/5/2012	200,500
22	5,609.00	7,276.00	88.8	4,675.00	2,641.00	4,940	9/5/2012	196,500
23	6,477.00	7,205.00	96.1	3,291.00	2,396.00	5,011	9/6/2012	208,300

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