

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

pm

JL

DATE: 12/10/13
API #: 47-017-05857

Farm name: I.L. Morris Operator Well No.: 512447

LOCATION: Elevation: 1,250' Quadrangle: Oxford

District: Southwest County: Doddridge, WV
Latitude: 2.440 Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 7.180 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	42	42	40
Agent: Cecil Ray	13 3/8	981	981	912
Inspector: David Scranage	9 5/8	3,145	3,145	1,171
Date Permit Issued: 7/30/09	5 1/2	10,249	10,249	1,497
Date Well Work Commenced: 2/28/10				
Date Well Work Completed: 5/3/2010				
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): 6,707'				
Total Measured Depth (ft): 10,377'				
Fresh Water Depth (ft.): 120', 610'				
Salt Water Depth (ft.): 1,470'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 99', 616', 920'				
Void(s) encountered (N/Y) Depth(s) No				

RECEIVED
Office of Oil and Gas

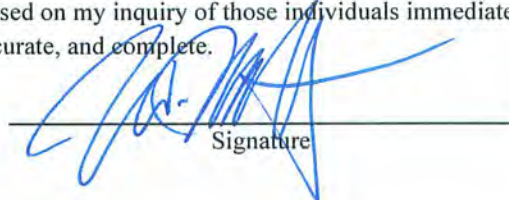
OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 6,644
Gas: Initial open flow 1,955 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 11,210 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 49.5 Hours
Static rock Pressure 1,144 psig (surface pressure) after 54 Hours

WV Department of
Environmental Protection

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

3/6/2014
Date

06/27/2017

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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: Surface:	Top Depth	/	Bottom Depth
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SAND / SHALE / / 99 / 99 -- FRESH WATER ZONE / 1 / 610 / 609 -- COAL / 99 / 103 / 4 --
SAND / SHALE / 103 / 616 / 513 -- COAL / 616 / 620 / 4 -- SAND / SHALE / 620 / 920 / 300 --
COAL / 920 / 924 / 4 -- SAND / SHALE / 924 / 1,746.8 / 822.8 -- MAXTON / 1,746.84 / 1,942.9 / 196.06 --
BIG LIME / 1,942.9 / 2,003.56 / 60.66 -- KEENER / 2,003.56 / 2,031.72 / 28.16 -- BIG INJUN / 2,031.72 / 2,242.94 / 211.22 --
WEIR / 2,242.94 / 2,441.16 / 198.22 -- BERE A / 2,441.16 / 2,449.83 / 8.67 -- GANTZ / 2,449.83 / 2,520.24 / 70.41 --
50F / 2,520.24 / 2,632.89 / 112.65 -- 30F / 2,632.89 / 2,683.8 / 50.91 -- GORDON / 2,683.8 / 2,792.11 / 108.31 --
4TH / 2,792.11 / 2,931.84 / 139.73 -- 5TH / 2,931.84 / 2,974.09 / 42.25 -- BAYARD / 2,974.09 / 3,305.9 / 331.81 --
WARREN / 3,305.9 / 3,381.6 / 75.7 -- SPEECHLEY / 3,381.6 / 3,879.35 / 497.75 -- BALLTOWN A / 3,879.35 / 4,026.15 / 146.8 --
BALLTOWN B / 4,026.15 / 4,264.7 / 238.55 -- BRADFORD / 4,264.7 / 4,504.02 / 239.32 -- RILEY / 4,504.02 / 4,927.61 / 423.59 --
BENSON / 4,927.61 / 5,172.05 / 244.44 -- ALEXANDER / 5,172.05 / 6,304.66 / 1,132.61 -- SONYEA / 6,304.66 / 6,455.06 / 150.4 --
MIDDLESEX / 6,455.06 / 6,508.66 / 53.6 -- GENESSEE / 6,508.66 / 6,581.27 / 72.61 -- GENESEO / 6,581.27 / 6,616.19 / 34.92 --
TULLY / 6,616.19 / 6,631.88 / 15.69 -- HAMILTON / 6,631.88 / 6,644.83 / 12.95 -- MARCELLUS BLK SHALE / 6,644.83 / 6,707 / 62.17

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512447 - Perforations

Zone/Stage	Date	Top Plug Depth (ftKB)	Bottom Plug Depth (ftKB)	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Shots/ft
1	8/3/2010	9,977.00	NA	10,006.00	10,248.00	4
2	5/10/2011	9,677.00	9,977.00	9,706.00	9,948.00	4
3	5/11/2011	9,377.00	9,677.00	9,406.00	9,648.00	4
4	5/11/2011	9,077.00	9,377.00	9,106.00	9,348.00	4
5	5/12/2011	8,777.00	9,077.00	8,806.00	9,048.00	4
6	5/12/2011	8,477.00	8,777.00	8,506.00	8,748.00	4
7	5/12/2011	8,177.00	8,477.00	8,206.00	8,448.00	4
8	5/13/2011	7,877.00	8,177.00	7,906.00	8,148.00	4
9	5/13/2011	7,577.00	7,877.00	7,606.00	7,848.00	4
10	5/13/2011	7,277.00	7,577.00	7,306.00	7,548.00	4
11	5/15/2011	6,992.00	7,277.00	7,006.00	7,248.00	4
12	5/15/2011	NA	6,992.00	6,856.00	6,978.00	4

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512447 - 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	4,606.00	6,422.00	100.0	2,146.00	1,725.00	9,779	5/10/2011	406,391
2	4,294.00	6,129.00	102.0	2,892.00	1,791.00	9,832	5/11/2011	404,000
3	4,253.00	5,771.00	102.0	2,774.00	1,913.00	9,781	5/11/2011	411,354
4	4,214.00	5,931.00	103.0	2,691.00	1,821.00	9,690	5/11/2011	409,869
5	3,947.00	5,684.00	102.0	2,528.00	2,114.00	9,643	5/12/2011	405,720
6	4,485.00	5,914.00	102.0	2,664.00	2,213.00	9,545	5/12/2011	403,763
7	3,639.00	5,197.00	102.0	2,865.00	2,322.00	9,772	5/13/2011	406,819
8	4,265.00	5,466.00	102.0	3,099.00	2,561.00	9,984	5/13/2011	401,502
9	6,268.00	5,641.00	102.0	3,189.00	2,666.00	9,896	5/13/2011	404,770
10	5,678.00	5,457.00	101.0	3,499.00	3,084.00	10,314	5/15/2011	407,513
11	4,607.00	5,717.00	102.0	3,486.00	2,681.00	9,725	5/15/2011	406,650
12	5,502.00	6,633.00	103.0	5,524.00	2,523.00	4,937	5/15/2011	207,629

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