

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 DATE: 12/10/13
API #: 47-017-05849 *JK*

Farm name: Jeffrey A. Sperry Operator Well No.: 512421

LOCATION: Elevation: 850' Quadrangle: OXFORD

District: Southwest County: Doddridge
Latitude: 11.120 Feet South of 39 Deg. 10 Min. 00 Sec.
Longitude 8.600' 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	39	39	40
Agent: Cecil Ray	13 3/8	842	842	585
Inspector: David Scranage	9 5/8	2,634	2,634	1,122
Date Permit Issued: 6/3/2009	5 1/2	10,497	10,497	1,349
Date Well Work Commenced: 7/25/2009				
Date Well Work Completed: 11/3/2009				
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): 6,333'				
Total Measured Depth (ft): 10,505'				
Fresh Water Depth (ft.): 713'				
Salt Water Depth (ft.): No visible show.				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): No observable coal seams				
Void(s) encountered (N/Y) Depth(s) No				

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

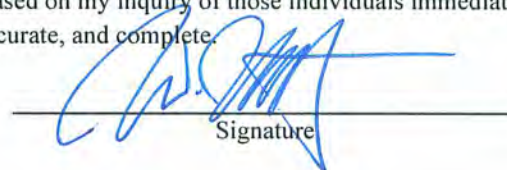
Producing formation Marcellus Pay zone depth (ft) 6,178
Gas: Initial open flow 4368 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 3576 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 398 psig (surface pressure) after 24 Hours

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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

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

3/6/2014
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, and 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
SAND / SHALE /	1,404.87 / 1,404.87	--	FRESH WATER ZONE / 1 / 713 / 712 -- MAXTON / 1,404.87 / 1,581.1 / 176.23 --
BIG LIME /	1,581.07 / 1,658 / 76.93	--	KEENER / 1,658.02 / 1,682.9 / 24.88 -- BIG INJUN / 1,682.92 / 1,848.8 / 165.88 --
WEIR /	1,848.78 / 2,042.8 / 194.02	--	BEREA / 2,042.77 / 2,055.1 / 12.33 -- GANTZ / 2,055.06 / 2,134.6 / 79.54 --
50F /	2,134.6 / 2,232.6 / 98	--	30F / 2,232.56 / 2,276.9 / 44.34 -- GORDON / 2,276.86 / 2,378.1 / 101.24 --
4TH /	2,378.05 / 2,532.6 / 154.55	--	5TH / 2,532.6 / 2,559.4 / 26.8 -- BAYARD / 2,559.44 / 2,894.1 / 334.66 --
WARREN /	2,894.07 / 2,948.7 / 54.63	--	B-5 / 2,948.71 / 2,963.9 / 15.19 -- SPEECHLEY / 2,963.91 / 3,473.1 / 509.19 --
BALLTOWN A /	3,473.13 / 3,703.7 / 230.57	--	BALLTOWN B / 3,703.66 / 3,810 / 106.34 -- BRADFORD / 3,810.03 / 4,046.4 / 236.37 --
RILEY /	4,046.38 / 4,506.8 / 460.42	--	BENSON / 4,506.78 / 4,728.3 / 221.52 -- ALEXANDER / 4,728.26 / 5,815 / 1,086.74 --
RHINESTREET /	5,815 / 5,840 / 25	--	SONYEA / 5,839.96 / 5,983 / 143.04 -- MIDDLESEX / 5,983 / 6,040 / 57 --
GENESSEE /	6,040 / 6,110 / 70	--	GENESE0 / 6,110 / 6,152 / 42 -- TULLY / 6,152 / 6,165 / 13 --
HAMILTON /	6,165 / 6,178 / 13	--	MARCELLUS BLK SHALE / 6,178 / 6,333 / 155 -- --

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512421 - Perforations

Zone/Stage	Date	Top Plug Depth (ftKB)	Bottom Plug Depth (ftKB)	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Shots/ft
1	11/20/2009	10,184.00	NA	10,213.00	10,334.00	4
2	2/4/2010	9,884.00	10,184.00	9,913.00	10,034.00	4
3	2/5/2010	9,584.00	9,884.00	9,613.00	9,734.00	4
4	2/9/2010	9,284.00	9,584.00	9,313.00	9,434.00	4
5	2/10/2010	8,984.00	9,284.00	9,013.00	9,134.00	4
6	2/11/2010	8,684.00	8,984.00	8,713.00	8,834.00	4
7	2/12/2010	8,384.00	8,684.00	8,413.00	8,534.00	4
8	2/12/2010	8,084.00	8,384.00	8,113.00	8,234.00	4
9	2/12/2010	7,784.00	8,084.00	7,813.00	7,934.00	4
10	2/13/2010	7,484.00	7,784.00	7,513.00	7,634.00	4
11	2/14/2010	NA	7,484.00	7,213.00	7,334.00	4

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512421 - 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	7,584.00	8,903.00	83.0	4,968.00	3,202.00	9,587	2/4/2010	392,207
2	7,250.00	8,641.00	93.0	5,680.00	4,100.00	10,201	2/4/2010	450,346
3	6,555.00	8,298.00	86.0	5,662.00	3,725.00	9,868	2/9/2010	416,423
4	6,840.00	8,078.00	94.0	5,291.00	4,169.00	9,802	2/10/2010	408,065
5	6,388.00	8,207.00	90.0	3,836.00	3,175.00	9,826	2/11/2010	402,235
6	6,545.00	7,803.00	98.0	3,940.00	3,310.00	9,858	2/11/2010	415,692
7	7,735.00	7,558.00	93.0	4,251.00	3,328.00	9,820	2/12/2010	414,478
8	6,240.00	7,800.00	91.0	4,200.00	3,535.00	9,915	2/12/2010	407,896
9	5,816.00	7,793.00	88.0	3,980.00	3,110.00	9,544	2/12/2010	408,079
10	5,121.00	7,862.00	94.0	3,848.00	2,991.00	9,736	2/14/2010	405,018
11	6,563.00	7,399.00	87.0	3,489.00	2,806.00	10,157	2/14/2010	405,963