

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

Original Sent: 4/17/12

DATE: 9/11/2013 - Amended

API #: 47-017-05987

Farm name: Jackson Leeson, et al Operator Well No.: 512419

LOCATION: Elevation: 1,169' Quadrangle: Oxford

District: Southwest County: Doddridge, WV
Latitude: 7.840' Feet South of 39 Deg. 10 Min. 00 Sec.
Longitude 6.410' 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	37
Agent: Cecil Ray	13 3/8	1,152	1,152	994
Inspector: David Scranage	9 5/8	3,031	3,031	1,144
Date Permit Issued: 12/15/2010	5 1/2	9,746	9,746	1,156
Date Well Work Commenced: 12/23/2010				
Date Well Work Completed: 1/5/2012				
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): 6,592'				
Total Measured Depth (ft): 9,747'				
Fresh Water Depth (ft.): 335'				
Salt Water Depth (ft.): 1,821'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): No coal encountered while drilling.				
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) 6,542'

Gas: Initial open flow 6672 MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 9,408 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 23 Hours

Static rock Pressure 2,192 psig (surface pressure) after 24 Hours

Second producing formation No second formation. Pay zone depth (ft) _____

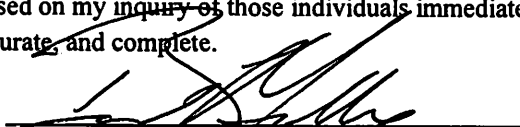
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

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

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

9/11/2013
Date

11/08/2013

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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 Yes, Gyro and MWD Gamma 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

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

Shale / 0 / 50 / 50 -- Sandstone / 50 / 185 / 135 -- Red Rock / 185 / 245 / 60 --

Sandstone / 245 / 280 / 35 / -- Red Rock / 280 / 390 / 110 -- Sandstone / 390 / 600 / 210 --

Red Rock / 600 / 623 / 23 -- Sandstone / 623 / 720 / 97 -- Shale / 720 / 850 / 130 -- Sandstone / 850 / 983 / 143 --

Shale / 983 / 1,140 / 157 -- Sandstone / 1,140 / 1,688 / 548 -- Sandstone / 1,688 / 1,820 / 132 --

Sand / 1,820 / 1,865 / 45 -- Limestone / 1,865 / 1,977 / 112 -- Sandstone / 1,977 / 2,175 / 198 --

Limestone / 2,175 / 2,267 / 92 -- Sandstone / 2,267 / 2,350 / 83 / -- Siltstone / 2,350 / 3,070 / 720 --

Gordon Sandstone / 3,070 / 3,188 / 118 -- Warren / 3,188 / 3,253 / 65 -- B-5 / 3,253 / 3,266.7 / 13.7 --

Speechley / 3,266.7 / 3,967.6 / 700.9 -- Balltown B / 3,967 / 4,380 / 413 -- Riley / 4,380 / 4,782 / 402 --

Benson / 4,782 / 5,039 / 257 -- Alexander / 5,039 / 6,346 / 1,307 --

Middlesex / 6,346 / 6,412 / 65 -- Genessee / 6,412 / 6,469 / 57 -- Genessee / 6,469 / 6,511 / 42 --

Tully / 6,511 / 6,529 / 17 -- Hamilton / 6,529 / 6,542 / 12 -- Marcellus / 6,542 / 6,592 / 50

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512419 - Perforations

Zone/Stage	Date	Top Plug Depth (ftKB)	Bottom Plug Depth (ftKB)	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Shots/ft	Number of Shots
1	10/5/2011 13:50	9,456.00	NA	9,458.00	9,727.00	4	40
2	12/12/2011 12:04	9,156.00	9,456.00	9,185.00	9,427.00	4	40
2.1	1/2/2012 13:45	9,156.00	9,456.00	9,185.00	9,302.00	4	40
3	1/2/2012 18:20	8,856.00	9,156.00	8,885.00	9,127.00	4	40
4	1/2/2012 23:50	8,556.00	8,856.00	8,585.00	8,827.00	4	40
5	1/3/2012 4:15	8,256.00	8,556.00	8,285.00	8,527.00	4	40
6	1/3/2012 6:25	7,956.00	8,256.00	7,985.00	8,227.00	4	40
7	1/4/2012 16:56	7,656.00	7,956.00	7,685.00	7,927.00	4	40
8	1/5/2012 1:30	7,356.00	7,656.00	7,385.00	7,627.00	4	40
9	1/5/2012 6:22	7,056.00	7,356.00	7,085.00	7,327.00	4	40
10	1/5/2012 11:56	NA	7,056.00	6,920.00	7,042.00	4	40

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