

JK

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: 12/4/13
API #: 47-017-05957

Farm name: John R. Davies et al Operator Well No.: 513370

LOCATION: Elevation: 1,153' Quadrangle: West Union

District: West Union County: Doddridge, WV
Latitude: 7.120 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 6.140 Feet West of 80 Deg. 45 Min. 00 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	1,147	1,147	980
Inspector: David Scranage	9 5/8	3,192	3,192	1,363
Date Permit Issued: 6/18/2010	5 1/2	9,656	9,656	1,829
Date Well Work Commenced: 6/25/2010				
Date Well Work Completed: 2/4/2011				
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): 6,692'				
Total Measured Depth (ft): 9,656'				
Fresh Water Depth (ft.): 109', 208', 693'				
Salt Water Depth (ft.): No visible show				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 403', 675'				
Void(s) encountered (N/Y) Depth(s) No				

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

Producing formation Marcellus Pay zone depth (ft) 6,673'
Gas: Initial open flow 2325 MCF/d Oil: Initial open flow NA Bbl/d
Final open flow 2,256 MCF/d Final open flow NA Bbl/d
Time of open flow between initial and final tests 27 Hours
Static rock Pressure 2,368 psig (surface pressure) after 32 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

3/6/2014
Date

06/27/2017

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 & 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): Pumped solid cement plug from 3,218' to 3,030'

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

Sand/Shale / 0 / 220 / 220 -- Red Rock / 220 / 230 / 10 -- Sand/Shale / 230 / 250 / 20

Red Rock / 250 / 265 / 15 -- Sand/Shale / 265 / 280 / 15 -- Red Rock / 280 / 290 / 10

Sand/Shale / 290 / 330 / 40 -- Red Rock / 330 / 350 / 20 -- Sand and Shale / 350 / 403 / 53

Coal / 403 / 406 / 3 -- Sand and Shale / 406 / 675 / 269 -- Coal / 675 / 677 / 2 --

Sand and Shale / 677 / 983 / 306 -- Warren / 3,273 / 3,342 / 68 --

Speechley / 3,342 / 4,028 / 685 -- Balltown B / 4,028 / 4,220 / 192 --

Riley / 4,492 / 4,930 / 437 -- Benson / 4,930 / 5,186 / 256 --

Alexander / 5,186 / 6,311 / 1,124 -- Sonyea / 6,311 / 6,459 / 148 --

Middlesex / 6,459 / 6,516 / 56 -- Genesee / 6,516 / 6,591 / 74 --

Geneseo / 6,591 / 6,631 / 40 -- Tully / 6,631 / 6,656 / 24 --

Hamilton / 6,656 / 6,673 / 17 -- Marcellus / 6,673 / 6,692 / 19

513370 - Perforations

Zone/Stage	Date	Top Plug Depth (ftKB)	Bottom Plug Depth (ftKB)	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Shots/ft
1	2/20/2011	9,364.00	NA	9,393.00	9,635.00	4
2	4/1/2011	9,064.00	9,364.00	9,093.00	9,335.00	4
3	4/1/2011	8,764.00	9,064.00	8,793.00	9,033.00	4
4	4/2/2011	8,464.00	8,764.00	8,493.00	8,733.00	4
5	4/2/2011	8,164.00	8,464.00	8,193.00	8,435.00	4
6	4/2/2011	7,864.00	8,164.00	7,893.00	8,135.00	4
7	4/4/2011	7,564.00	7,864.00	7,593.00	7,835.00	4
8	4/4/2011	7,264.00	7,564.00	7,293.00	7,533.00	4
9	4/4/2011	NA	7,264.00	6,993.00	7,233.00	4

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513370 - 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	6,424.00	7,493.00	95.1	3,122.00	2,417.00	9,714	4/1/2011	398,407
2	7,721.00	7,452.00	97.2	3,323.00	2,574.00	9,596	4/1/2011	397,724
3	6,605.00	7,255.00	99.6	3,291.00	2,505.00	9,748	4/1/2011	409,790
4	6,774.00	6,690.00	101.9	3,275.00	2,566.00	9,593	4/2/2011	404,230
5	5,684.00	6,433.00	100.6	3,388.00	2,659.00	9,704	4/2/2011	399,941
6	6,307.00	6,955.00	100.3	3,879.00	2,935.00	9,750	4/4/2011	399,240
7	6,058.00	7,086.00	100.2	3,482.00	2,695.00	9,715	4/4/2011	395,550
8	6,883.00	6,555.00	101.0	3,486.00	2,748.00	9,578	4/4/2011	401,293
9	7,281.00	6,585.00	98.8	3,368.00	2,728.00	9,662	4/5/2011	401,566

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