

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: 9/3/2013
API #: 47-017-06135

PM

TA

Farm name: Sue Ann Spiker Operator Well No.: 514413

LOCATION: Elevation: 1,245 Quadrangle: Smithburg

District: New Milton County: Doddridge, WV
Latitude: 10.558' Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 8.435' Feet West of 80 Deg. 42 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	72	72	81
Agent: Cecil Ray	13 3/8	665	665	649
Inspector: Sam Ward	9 5/8	5,603	5,603	2173
Date Permit Issued: 11/27/2012	5 1/2	10,983	10,983	1,588
Date Well Work Commenced: 12/15/2012				
Date Well Work Completed: 3/30/2013				
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): 6,861'				
Total Measured Depth (ft): 10,993'				
Fresh Water Depth (ft.): 106', 576'				
Salt Water Depth (ft.): 2,000'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 48', 281', 557', 628', 1,207', 1,376'				
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) 6,769
Gas: Initial open flow NA MCF/d Oil: Initial open flow NA Bbl/d
Final open flow NA MCF/d Final open flow NA Bbl/d
Time of open flow between initial and final tests NA Hours
Static rock Pressure NA psig (surface pressure) after NA 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

2/26/2014
Date

04/04/2014

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 Yes, MWD Gamma, CBL, and Gyro

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 stages 3 (3.1) and 9 (9.1) due to high pressures

No FB Data at this - Will send amended report when well is flowed back

Plug Back Details Including Plug Type and Depth(s): N/A

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

SAND / SHALE / 0 / 48 / 48 --

COAL / 48 / 53 / 5 -- SAND / SHALE / 53 / 281 / 228 --

COAL / 281 / 285 / 4 -- SAND / SHALE / 285 / 557 / 272 --

COAL / 557 / 560 / 3 -- SAND / SHALE / 560 / 628 / 68 --

COAL / 628 / 633 / 5 -- SAND / SHALE / 633 / 1,207 / 574 --

COAL / 1,207 / 1,210 / 3 -- SAND / SHALE / 1,210 / 1,376 / 166 -

COAL / 1,376 / 1,381 / 5 -- SAND / SHALE / 1,381 / 2,657 / 1,276 --

GORDON / 2,657 / 3,257 / 600 -- WARREN / 3,257 / 3,336 / 79 --

SPEECHLEY / 3,336 / 3,996 / 660 -- BALLTOWN B / 3,996 / 4,198 / 202 --

BRADFORD / 4,198 / 4,482 / 284 -- RILEY / 4,482 / 4,838 / 356 --

BENSON / 4,838 / 5,035 / 197 -- ALEXANDER / 5,035 / 5,907 / 872 --

RHINESTREET / 5,907 / 5,926 / 19 -- SONYEA / 5,926 / 6,537 / 611 --

MIDDLESEX / 6,537 / 6,568 / 31 -- GENESSEE / 6,568 / 6,641 / 73 --

GENESE0 / 6,641 / 6,680 / 39 -- TULLY / 6,680 / 6,709 / 29 --

HAMILTON / 6,709 / 6,769 / 60 -- Marcellus blk shale / 6,769 / 6,861 / 92 --

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514413 - Perforations

Zone/Stage	Date	Top Plug Depth (ftKB)	Bottom Plug Depth (ftKB)	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Shots/ft
Toe Pop	12/20/13 12:30	10,680.00	NA	10,955.00	10,958.00	NA
1	12/20/13 17:03	10,680.00	NA	10,698.00	10,878.00	4
2	12/21/13 9:07	10,385.00	10,680.00	10,414.00	10,656.00	4
3	12/22/13 6:51	10,085.00	10,385.00	10,114.00	10,356.00	4
3.1 (Re-Perf)	12/22/13 16:00	10,085.00	10,385.00	10,045.00	10,105.00	4
4	12/23/13 0:12	9,715.00	10,015.00	9,744.00	9,982.00	4
5	12/23/13 20:12	9,415.00	9,715.00	9,444.00	9,886.00	4
6	12/26/13 5:29	8,815.00	9,115.00	8,844.00	9,086.00	4
7	12/26/13 15:19	9,115.00	9,415.00	9,144.00	9,386.00	4
8	12/27/13 21:18	8,515.00	8,815.00	8,544.00	8,786.00	4
9	12/28/13 14:33	8,215.00	8,515.00	8,244.00	8,486.00	4
9.1 (Re-Perf)	12/29/13 4:31	8,215.00	8,515.00	8,244.00	8,316.00	4
10	12/29/13 13:47	7,915.00	8,215.00	7,944.00	8,186.00	4
11	12/30/13 7:49	NA	7,915.00	7,644.00	7,886.00	4

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514413 - Stimulated Stages

Zone/Stage	P Break (psi)	Avg Treat Pressure (psi)	Avg rate (bbl/min)	ISIP (psi)	Frac Gradient (psi/ft)	15 Min. SIP (psi)	Fluid Volume (bbl)	Start Date	End Date	Proppant (lb)
Toe Pop	NA	7,550.00	7.1	NA	NA	NA	693	12/20/2013 12:20	12/20/2013 14:07	NA
1	5,712.00	7,752.00	89.6	5,188.00	1.19	3,190.00	12,577	12/21/2013 3:45	12/21/2013 6:46	494,127
2	5,786.00	8,305.00	99.3	5,187.00	1.19	3,458.00	11,197	12/22/2013 2:46	12/22/2013 5:00	497,591
3	5,274.00	8,656.00	96.1	4,397.00	1.08	3,550.00	9,068	12/22/2013 12:52	12/22/2013 14:54	281,230
3.1 (Re-Perf)	4,563.00	7,917.00	99.9	5,205.00	1.19	3,720.00	5,722	12/22/2013 21:06	12/22/2013 22:20	207,599
4	5,848.00	7,975.00	98.8	4,978.00	1.16	3,660.00	10,426	12/22/2013 0:00	12/22/2013 0:00	367,897
5	5,294.00	7,888.00	99.8	4,898.00	1.15	3,321.00	12,468	12/26/2013 11:06	12/26/2013 14:02	502,141
6	5,837.00	7,751.00	98.9	5,233.00	1.2	4,073.00	14,056	12/27/2013 0:04	12/27/2013 4:08	482,238
7	5,295.00	7,445.00	93.2	5,277.00	1.21	4,532.00	15,330	12/27/2013 13:36	12/27/2013 18:58	469,309
8	5,762.00	8,003.00	99.6	5,378.00	1.22	4,245.00	12,169	12/28/2013 10:09	12/28/2013 12:37	500,909
9	6,706.00	8,400.00	60.0	5,211.00	1.2	4,428.00	4,482	12/29/2013 2:04	12/28/2013 3:32	3,988
9.1 (Re-Perf)	6,488.00	8,627.00	94.8	5,671.00	1.26	4,038.00	77	12/29/2013 8:51	12/29/2013 12:31	204,394
10	5,840.00	7,082.00	100.4	5,259.00	1.2	4,273.00	11,688	12/30/2013 4:19	12/30/2013 6:36	502,729
11	5,445.00	6,958.00	100.0	4,512.00	1.1	3,852.00	11,437	12/30/2013 21:50	12/31/2013 0:30	499,931

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