

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: 3/19/14
API #: 47-33-05190

Farm name: Mazzei, Gloria Operator Well No.: McDonald 1

LOCATION: Elevation: 1267' Quadrangle: Brownston 7.5

District: Simpson County: Harrison
Latitude: 13,170 Feet South of 39 Deg. ¹⁵ Min. 00 Sec.
Longitude 1,530 Feet West of 80 Deg. ¹² Min. 30 Sec.

Company: Gastar Exploration USA, Inc.

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
PO box 273 Charleston, WV 25301-0273	13 3/8"	40'	40'	Sand
Agent: William M. Herlihy	9 5/8"	250'	250'	CTS
Inspector: Tim Bennett	7"	2239'	2239'	CTS
Date Permit Issued: 1/15/2009	4 1/2"		3812'	TOC 2175'
Date Well Work Commenced: 7/28/2009				
Date Well Work Completed: 3/17/2010				
Verbal Plugging:				
Date Permission granted on: 7/26/2009				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 4731				
Total Measured Depth (ft): 4731				
Fresh Water Depth (ft.): 19'				
Salt Water Depth (ft.): none				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): none				
Void(s) encountered (N/Y) Depth(s) N				

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

Producing formation Balltown Pay zone depth (ft) 3643-93

Gas: Initial open flow odor MCF/d Oil: Initial open flow 0 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

Second producing formation Fifth Sand Pay zone depth (ft) 2490-94

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

Final open flow 50 MCF/d Final open flow 1 Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure 1050 psig (surface pressure) after 96 Hours

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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.

Randy Steed
Signature

3/19/14
Date

03/18/2016

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 Photo density, Compensated neutron, Array Induction. _____

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:

3643-46 W/6 holes, 3691-93 W/6 holes Fraced with 500 gal. 15% HCL acid, 351 sx 20/40 mesh sand & 1,195 Bbls. slick water.

3499-3502 W/10 holes, Fraced with 500 gals. 15% HCL acid, 348 sx 20/40 mesh sand & 1,180 Bbls. slick water.

2490-94 W/9 holes, 2532-34 W/3 holes, Fraced with 500 gals. 15% HCL acid, 218 sx 20/40 mesh sand & 1,459 Bbls slick water.

Plug Back Details Including Plug Type and Depth(s):

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

Formations Encountered:	Top Depth	Bottom Depth
Fill	0/8	
Shale	8/322	19'-3" stream water
Sand & shale	322/1552	
Big Lime	1552/1639	
Big Injun	1639/1706	
Sand & shale	1706/2246	
Gantz Sand	2246/2260	
Shale	2260/2490	
Fifth Sand	2490/2528	
Sandy shale	2528/3498	
Upper Balltown	3498/3510	
Sandy shale	3510/4459	
Benson Sand	4459/4471	
Shale	4471/4731	

03/18/2016