

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

DATE: April 11, 2013  
API #: 47-051-01523

Farm name: Wayne - South Operator Well No.: 4H

LOCATION: Elevation: 1354' Quadrangle: New Martinsville 7.5'

District: Franklin County: Marshall  
Latitude: 1580 Feet South of 39 Deg. 45 Min. 00 Sec.  
Longitude 6605 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: Gastar Exploration USA, Inc.

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
229 West Main Street, Suite 301 Clarksburg, WV 26301	20"		110'	CTS
Agent: Michael McCown	13-3/8"		1145'	994
Inspector: Bill Hendershot	9-5/8"		2527'	1071
Date Permit Issued: 1/13/2012	5-1/2"		12244'	3428
Date Well Work Commenced: 4/20/2012	2-3/8"		6544'	
Date Well Work Completed: 8/26/2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 6,612'				
Total Measured Depth (ft): 12,270'				
Fresh Water Depth (ft.): 60'				
Salt Water Depth (ft.): 1600'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 890-910; 1031-1041				
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 Marcellus Pay zone depth (ft) 6612'  
Gas: Initial open flow 1848 MCF/d Oil: Initial open flow 100 Bbl/d  
Final open flow 2904 MCF/d Final open flow 212 Bbl/d  
Time of open flow between initial and final tests 216 Hours  
Static rock Pressure 1800 psig (surface pressure) after 216 Hours

Second producing 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 report 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]  
Signature

4-11-13  
Date

Received  
AUG - 2 2013  
Office of Oil and Gas  
WV Dept. of Environmental Protection

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 Gamma Ray Log

**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 attached sheet:

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>		
Sewickley Coal	890 - 910	Geneseo 6483 - 6502
Pittsburgh Coal	1031 - 1041	Tully 6502 - 6534
Maxton	2009 - 2059	Hamilton 6534 - 6577
Big Lime	2082 - 2112	Marcellus 6577 - 6612
Big Injun	2122	
Base of Big Injun	2256	
Weir	2441 - 2611	
Berea	2629 - 2869	
Gordon	2964 - 2994	
Benson	3668 - 3678	
Java	5291 - 5611	
Rhinestreet	5994 - 6310	
Cashaqua	6310 - 6412	
Middlesex	6412 - 6440	
West River	6440 - 6483	

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