

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

Farm name: Burch Ridge Operator Well No.: 1H

LOCATION: Elevation: 1328' Quadrangle: Powhatan Point 7.5'

District: Franklin County: Marshall  
Latitude: 13.565 Feet South of 39 Deg. 47 Min. 30 Sec.  
Longitude 3.170 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 St, Suite 301 Clarksburg, WV 26301	20"		40'	Sanded
Agent: Michael McCown	13 3/8"		1056'	930 ft^3
Inspector: <b>Bill Hendershot</b>	9 5/8"		2532'	876 ft^3
Date Permit Issued: 9-30-2011	5 1/2"		13,091'	3459 ft^3
Date Well Work Commenced: 10-15-2011	2 3/8"		6504'	
Date Well Work Completed: 7-31-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 6608'				
Total Measured Depth (ft): 13,102'				
Fresh Water Depth (ft.): 60'				
Salt Water Depth (ft.): 1600'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): Refer to page 2				
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) 6964' to 12,981'

Gas: Initial open flow 1168 MCF/d Oil: Initial open flow 13 Bbl/d

Final open flow 2856 MCF/d Final open flow 210 Bbl/d

Time of open flow between initial and final tests 96 Hours

Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ 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

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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]  
Signature

6-25-13  
Date

01/17/2014

Were core samples taken? Yes \_\_\_\_\_ No X

Were cuttings caught during drilling? Yes \_\_\_\_\_ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list No

**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:

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Plug Back Details Including Plug Type and Depth(s): n/a

Formations Encountered: \_\_\_\_\_ Top Depth \_\_\_\_\_ / \_\_\_\_\_ Bottom Depth \_\_\_\_\_  
 Surface: \_\_\_\_\_

Sewickley Coal	890 - 910	Geneseo	6496 - 6522
Pittsburgh Coal	1031 - 1041	Tully	6522 - 6553
Maxton	2009 - 2059	Hamilton	6553 - 6574
Big Lime	2082- 2112	Marcellus	6574 - 6608
Big Injun	2122		
Base of Big Injun	2256		
Weir	2441 - 2611		
Berea	2629 - 2869		
Gordon	2964 - 2994		
Benson	3668 - 3678		
Java	5291 - 5611		
Rhinestreet	5919 - 6283		
Cashaqua	6283 - 6411		
Middlesex	6411 - 6430		
West River	6430 - 6496		

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