

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

DATE: 6/27/2013
API #: 47-051-01542

Farm name: Shields Operator Well No.: 10H

LOCATION: Elevation: 1331' Quadrangle: Powhatan Point 7.5'

District: Franklin County: Marshall
Latitude: 11,465 Feet South of 39 Deg. 47 Min. 30 Sec.
Longitude 10,805 Feet West of 80 Deg. 45 Min. 00 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"		110'	CTS
Agent: Michael McCown	13 3/8"		1177'	1065 ft^3
Inspector: Bill Hendershot	9 5/8"		2595'	1122 ft^3
Date Permit Issued: 3-7-2012	5 1/2"		11255'	3158 ft^3
Date Well Work Commenced: 12-18-2012	2 3/8"		6560'	
Date Well Work Completed: 5-31-2013				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 6487'				
Total Measured Depth (ft): 11,281'				
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) 7079' to 11,113'
Gas: Initial open flow 1272 MCF/d Oil: Initial open flow 153 Bbl/d
Final open flow 1704 MCF/d Final open flow 181 Bbl/d
Time of open flow between initial and final tests 72 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.

David ...

6-27-13

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:

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 766 - 786

Geneseo 6355 - 6375

Pittsburgh Coal 907 - 917

Tully 6375 - 6412

Maxton 1885 - 1935

Hamilton 6412 - 6452

Big Lime 1958 - 1988

Marcellus 6452 - 6487

Big Injun 1988

Base of Big Injun 2132

Weir 2317 - 2487

Berea 2505 - 2745

Gordon 2840 - 2870

Benson 3544 - 3554

Java 5167 - 5487

Rhinestreet 5839 - 5981

Cashaqua 5981 - 6270

Middlesex 6270 - 6284

West River 6284 - 6355

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