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:	6/27/2013	
API#:	47-051-01538	

rm name: Shields	_ Operator We	Operator Well No.: 6H						
OCATION: Elevation: 1331'	Quadrangle: Powhatan Point 7.5'							
District: Franklin	County: Marshall							
Latitude: 11,465 Feet South of 39 Deg	g. <u>47</u> Min	47 Min. 30 Sec.						
Longitude 10,725 Feet West of 80 Deg	g. 45 Mir	n. 00 S	ec.					
Company: Gastar Exploration USA, Inc								
Address: 229 West Main St, Suite 301	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft. CTS 1045 ft^3				
Clarksburg, WV 26301	20"		110'					
Agent: Michael McCown	13 3/8"		1178'					
Inspector: Bill Hendershot	9 5/8"		2474'	1096 ft^3				
Date Permit Issued: 3-29-2012	5 1/2"		9,512'	2683 ft^3				
Date Well Work Commenced: 5-28-2012	2 3/8"		None					
Date Well Work Completed: 5-31-2013								
Verbal Plugging:								
Date Permission granted on:								
Rotary Cable Rig 🗸								
Total Vertical Depth (ft): 6494'								
Total Measured Depth (ft): 9541'								
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 format	y zone depth (ft) flow 76 E  DW 181 B  Hour after Hou	6837 to 9371' Bbl/d bl/d s urs	data on separate s	Receive Office of Oil				
Gas: Initial open flowMCF/d Oil: Initial open	flowF	Bbl/d						
Final open flow MCF/d Final open flo								
Time of open flow between initial and final tests  Static rock Pressure psig (surface pressure)								

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. She bulin 6-27-13 01/17/2014

Were core samples taken? YesNo_X	Were cuttings caught during drilling? YesNo_X
Were Electrical, Mechanical or Geophysical logs	recorded on this well? If yes, please list No
FRACTURING OR STIMULATING, PHYSI	THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, CAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING RE FROM SURFACE TO TOTAL DEPTH.
See attached sheet:	
Plug Back Details Including Plug Type and Depth	n(s): n/a
Formations Encountered: Surface:	Top Depth / Bottom Depth
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 - 6494
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	Received Office of Oil & Gas
West River 6284 - 6355	Ollios C. C.

JUL 1 2013

Fluid & Sand Volume Summary - Shields #6H

Avg Inj	BPM	80	80	80	80	80	80	80	80	81	80					
Total Sand	sql	131304	210896	257694	145835	299550	294402	300382	301824	275437	104623	2321947				
40/70 M	sql	131304	210896	257694	145835	299550	294402	300382	301824	275437	104623	2321947				
100 mesh	sql	0	0	0	0	0	0	0	0	0	0	0	siqq			
Pump	Down bbls	342	233	229	182	151	147	149	96	79	52	1663	54777			
Frac Fluid	slqq	4956	4657	6408	4962	5948	6012	5889	5819	5833	2630	53114	Recover			
Fluid Type		slk wtr	slk wtr	slk wtr	slk wtr		Water to Recover									
d interval	의 #	9361	9312	9187	8887	8587	8287	7987	7687	7387	7087					
ate	From	9337	9222	8937	8637	8337	8037	7737	7437	7137	6837					
Stage		1	2	3	4	2	9	7	∞	6	10	Totals		Red Office C	ceived of Oil 8	Gas
Date		4/1/2013	4/2/2013	4/3/2013	4/4/2013	4/5/2013	4/7/2013	4/11/2013	4/14/2013	4/15/2013	4/18/2013			JUL		2013