**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#:	47-051-01542	

OCATION: Elevation: 1331'		Operator Well No.: 10H  Quadrangle: Powhatan Point 7.5'						
OCATION: Elevation: 1001			1.0					
District: Franklin		County: Marshall						
	0							
Longitude		n						
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.				
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 Cable Rig 🗸								
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 form	ay zone depth (ft) en flow 153 I flow 181 E 72 Hour	) <sup>7079' to 11,113'</sup> Bbl/d Bbl/d rs		Received Office of Oil &				
				////				
Second producing formation Pay		DL1/1		20				
Gas: Initial open flow MCF/d Oil: Initial open Final open flow MCF/d Final open		Bbl/d Bbl/d						
Time of open flow between initial and final tests								
Static rock Pressurepsig (surface pressure		urs						

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. La Sulini 6.27-13 01/17/2014

Were core samples taken? YesNo	X Were cuttings caught during drilling? Yes	NoX									
Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list No											
FRACTURING OR STIMULATING, PH DETAILED GEOLOGICAL RECORD	T THE FOLLOWING: 1). DETAILS OF PERFORATED YSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SOF THE TOPS AND BOTTOMS OF ALL FORMATIONS, BORE FROM SURFACE TO TOTAL DEPTH.	YSTEMATIC									
Perforated Intervals, Fracturing, or Stimulating	g:										
See attached sheet:											
N. D. I. D. C. I. L. L. D. T. L. L.	4()										
Plug Back Details Including Plug Type and D	epth(s): n/a										
Formations Encountered: Surface:	Top Depth / Bottom	<u>Depth</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	<del>-</del>										
Gordon 2840 - 2870											
Benson 3544 - 3554											
Java 5167 - 5487											
Rhinestreet 5839 - 5981		-d -e									
Cashaqua 5981 - 6270	Kece,	11 & G 20									
Middlesex 6270 - 6284	Office of C	-013									
West River 6284 - 6355		1 100									
	in the second se										

Fluid & Sand Volume Summary - Shields #10H

·a _																
Avg Inj BPM	79	80	80	80	80	80	81	80	82	81	81	80	80	80	80	
	180308	199395	313770	313532	339863	351853	350972	350343	353830	351817	353672	350498	332872	154179	154101	4451005
40/70 M	74331	78668	58857	44298	78957	93032	90783	90208	92891	91434	97620	91773	74642	61784	61814	1181392
100 mesh	105977	120727	254913	269234	260906	258821	260189	259835	260939	260383	256052	258725	258230	92395	92287	3269613 3 <u>bbls</u>
Pump Down bbls	348	332	320	332	282	254	374	213	200	170	139	128	86	77	46	3313 <u>86578</u>
Frac Fluid bbls	5094	5226	6604	8010	7092	6183	5480	5795	6136	4815	5603	5825	5642	2952	2808	83265 Water to Recover
Fluid Type	slk wtr	slk wtr	slk wtr	slk wtr	slk wtr	slk wtr	slk wtr	slk wtr	slk wtr	slk wtr	Water to					
d interval To ft	11103	11054	10929	10629	10329	10029	9729	9429	9129	8829	8529	8229	7929	7629	7329	
Perforate From ft	11079	10964	10679	10379	10079	9779	9479	9179	8879	8579	8279	7979	7679	7379	7079	
Stage	1	2	က	4	2	9	7	∞	6	10	11	12	13	14	15	Totals
<u>Date</u>	4/2/2013	4/3/2013	4/5/2013	4/6/2013	4/7/2013	4/10/2013	4/11/2013	4/12/2013	4/13/2013	4/14/2013	4/15/2013	4/16/2013	4/17/2013	4/18/2013	4/19/2013	Othice of Oil & Care