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	
<b>API</b> #:	47-051-01540	

ATION: Elevation: 1331'	_ Quadrangle:	Powhatan Point	7.5'								
District: Franklin	County: Mar	County: Marshall									
	g. <u>47</u> Mi	47 Min. 30 Sec.									
Longitude 10,765 Feet West of 80 De	g. 45 Mi	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.							
Clarksburg, WV 26301	20"		110'	CTS							
Agent: Michael McCown	13 3/8"		1184'	1103 ft^3							
Inspector: Bill Hendershot	9 5/8"		2416'	1084 ft^3							
Date Permit Issued: 3-29-2012	5 1/2"		12071'	3394 ft^3							
Date Well Work Commenced: 6-23-2012	2 3/8"		6571'								
Date Well Work Completed: 5-31-2013											
Verbal Plugging:											
Date Permission granted on:											
Rotary Cable Rig											
Total Vertical Depth (ft): 6490'											
Total Measured Depth (ft): 12,101'											
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											
PEN FLOW DATA (If more than two producing format Producing formation Marcellus Pa Gas: Initial open flow 504 MCF/d Oil: Initial open flow 1512 MCF/d Final open flow 1512 mcF/d Final open flow between initial and final tests 72	y zone depth (ft) a flow 32 I ow 181 B	3bl/d bl/d		Received ffice of Oil & G							
Static rock Pressure psig (surface pressure)	afterHo	urs		705 - 5							
Gas: Initial open flow MCF/d Oil: Initial open flow MCF/d Final open flow Time of open flow between initial and final tests	flowI	Bbl/d bbl/d rs									

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. 6-27-1301/17/2014

Were core samples taken? YesNo_X	Were cuttings caught during drilling? YesNo_X
Were Electrical, Mechanical or Geophysical logs	s recorded on this well? If yes, please list No
FRACTURING OR STIMULATING, PHYS DETAILED GEOLOGICAL RECORD OF	THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, ICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING DRE FROM SURFACE TO TOTAL DEPTH.
Perforated Intervals, Fracturing, or Stimulating:	
See attached sheet:	
Plug Back Details Including Plug Type and Dept	h(s): n/o
Ting 2001 2001 Distance 1 Tag 13po and 20pt	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 - 6490
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	- A
Cashaqua 5981 - 6270	Received Gas
Middlesex 6270 - 6284	
West River 6284 - 6355	<sup>3</sup> 5013

Fluid & Sand Volume Summary - Shields #8H

100 mesh 40/70 M Total Sand Avg Inj	lbs	183718	0 61199	14087 273818	90282 350427	259712 94603 354315 80	94917 350935	92005 351485	90509 346109	69556 328425	91063 349856	0 259995	91839 350115	92155 350412	91634 350573	92868 351202	78269 336922	93309 351068	0 1423	4050522 1251475 5301997	<u>97689 bbls</u>
Pump	slqq	487	1101	0	377	355	317	299	270	240	217	209	117	155	151	105	87	62	46	4595	976
Frac Fluid	slqq	3972	2365	5699	6330	5806	6182	5188	5672	5410	5771	4536	2698	5569	5553	5604	5379	5630	2730	93094	Water to Recover
Fluid Type		slk wtr	sik wtr	sik wtr	slk wtr	sik wtr	sik wtr	sik wtr	sik wtr	slk wtr	slk wtr	slk wtr	slk wtr	slk wtr	slk wtr	slk wtr	slk wtr	slk wtr	sik wtr		Water to
l interval To	#	11919	11870	11745	11445	11145	10845	10545	10245	9945	9645	9345	9045	8745	8445	8145	7845	7545	7250		
Perforated interval	쁄	11895	11780	11495	11195	10895	10595	10295	9995	9692	9395	9095	8795	8495	8195	7895	7595	7295	2060		
Stage		Н	7	3	4	2	9	7	∞	6	10	11	12	13	14	15	16	17	18	Totals	
<u>Date</u>		4/1/2013	4/3/2013	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	4/19/2013	4/20/2013	4/20/2013	4/21/2013	4/21/2013	4/22/2013	C	'IIII - 50; Hece of Oil & Ga