

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: April 11, 2013  
API #: 47-051-01522 - Revised

Farm name: Wayne - South Operator Well No.: 3H

LOCATION: Elevation: 1354' Quadrangle: New Martinsville 7.5'

District: Franklin County: Marshall  
Latitude: 1565 Feet South of 39 Deg. 45 Min. 00 Sec.  
Longitude 6620 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 Street, Suite 301 Clarksburg, WV 26301	20"		110'	CTS
Agent: Michael McCown	13-3/8"		1147'	1046
Inspector: Bill Hendershot	9-5/8"		2528'	1075
Date Permit Issued: 1/13/2012	5-1/2"		12103'	3394
Date Well Work Commenced: 4/4/2012	2-3/8"		6445'	
Date Well Work Completed: 8/26/2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 6,610'				
Total Measured Depth (ft): 12,104'				
Fresh Water Depth (ft.): 60'				
Salt Water Depth (ft.): 1600'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 890-910; 1031-1041				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 6610'  
Gas: Initial open flow 1512 MCF/d Oil: Initial open flow 90 Bbl/d  
Final open flow 3096 MCF/d Final open flow 126 Bbl/d  
Time of open flow between initial and final tests 216 Hours  
Static rock Pressure 1800 psig (surface pressure) after 216 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

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, the information is true, accurate, and complete.

[Signature]  
Signature

4-11-13  
Date

Received  
AUG - 2 2013  
11/22/2013  
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WV Dept. of Environmental Protection

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

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

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Gamma Ray Log

**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

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

Sewickley Coal	890 - 910	Geneseo	6483 - 6502
Pittsburgh Coal	1031 - 1041	Tully	6502 - 6534
Maxton	2009 - 2059	Hamilton	6534 - 6577
Big Lime	2082 - 2112	Marcellus	6577 - 6610
Big Injun	2122		
Base of Big Injun	2256		
Weir	2441 - 2611		
Berea	2629 - 2869		
Gordon	2964 - 2994		
Benson	3668 - 3678		
Java	5291 - 5611		
Rhinestreet	5994 - 6310		
Cashaqua	6310 - 6412		
Middlesex	6412 - 6440		
West River	6440 - 6483		

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Fluid & Sand Volume Summary - Wayne #3H

Date	Stage	Perforated interval		Fluid Type	Frac Fluid	Pump Down	100 mesh	40/70 M	Total Sand	Avg Inj
		From ft	To ft							
7/16/2012	1	11934	12024	slk wtr	4100	397	48043	149031	197074	BPM
7/17/2012	2	11659	11869	slk wtr	7236	721	94110	283734	377844	83
7/19/2012	3	11359	11569	slk wtr	7408	371	93905	296065	389970	82
7/20/2012	4	11059	11269	slk wtr	7699	326	94048	310250	404298	81
7/21/2012	5	10759	10969	slk wtr	7352	309	95069	292209	387278	82
7/22/2012	6	10459	10669	slk wtr	7328	288	94005	278441	372446	83
7/23/2012	7	10159	10369	slk wtr	7018	264	93834	271760	365594	82
7/24/2012	8	9859	10069	slk wtr	7885	212	95096	299187	394283	80
7/25/2012	9	9559	9769	slk wtr	8841	230	95200	281974	377174	81
7/26/2012	10	9259	9469	slk wtr	7303	201	94520	134656	229176	80
7/28/2012	11	8959	9169	slk wtr	7300	206	94740	283847	378587	80
7/30/2012	12	8659	8869	slk wtr	7094	153	93484	297057	390541	80
7/31/2012	13	8359	8569	slk wtr	6694	151	94187	205027	299214	80
8/1/2012	14	8059	8269	slk wtr	6616	121	78884	124913	203797	81
8/2/2012	15	7759	7969	slk wtr	6969	87	79200	207608	286808	81
8/3/2012	16	7459	7669	slk wtr	5887	73	80251	85627	165878	80
8/4/2012	17	6959	7309	slk wtr	6931		79346	202986	282332	81

Totals

119661      4110      1497922      4004372      5502294

Water to Recover

123771 bbls