

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

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

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

District: Franklin County: Marshall  
Latitude: 1585 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 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)

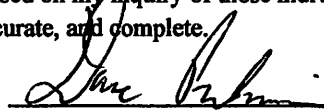
Producing formation Marcellus Pay zone depth (ft) 6610'  
Gas: Initial open flow 1512 MCF/d Oil: Initial open flow 90 Bbl/d  
Final open flow 3096 MCF/d Final open flow 126 Bbl/d  
Time of open flow between initial and final tests 216 Hours  
Static rock Pressure 1800 psig (surface pressure) after 216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

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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.

  
Signature

4-11-13  
Date

06/14/2013

51-01522

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 \_\_\_\_\_  
GR, Mudlog, Acousti, Density, Induction, Mech. Prop. & XMAC

**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 page:

Plug Back Details Including Plug Type and Depth(s):

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

SEWICKLEY COAL: 890 - 910	GENESEO: 6750 - 6797
PITTSBURGH COAL: 1031 - 1041	TULLY: 6797 - 6872
MAXTON: 2009 - 2059	HAMILTON: 6872 - 6921
BIG LIME: 2082 - 2112	MARCELLUS: 6921 - 6974
BIG INJUN: 2122	ONONDAGA: 6974 - n/a (TD'd before base)
BASE OF BIG INJUN: 2256	
WEIR: 2441 - 2611	
BEREA: 2629 - 2869	
GORDON: 2964 - 2994	
BENSON: 3668 - 3678	
JAVA: 5291 - 5611	
RHINESTREET: 6137 - 6473	
CASHAQUA: 6473 - 6605	
MIDDLESEX: 6605 - 6639	
WEST RIVER: 6639 - 6750	

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**Fluid & Sand Volume Summary - Wayne #3H**

<u>Date</u>	<u>Stage</u>	<u>Perforated interval</u>		<u>Fluid Type</u>	<u>Frac Fluid</u>	<u>Pump</u> <u>Down</u>	<u>100 mesh</u>	<u>40/70 M</u>	<u>Total Sand</u>	<u>Avg Inj</u>
		<u>From</u> ft	<u>To</u> ft							
7/16/2012	1	11934	12024	slk wtr	4100		48043	149031	197074	83
7/17/2012	2	11659	11869	slk wtr	7236	397	94110	283734	377844	82
7/19/2012	3	11359	11569	slk wtr	7408	721	93905	296065	389970	81
7/20/2012	4	11059	11269	slk wtr	7699	371	94048	310250	404298	82
7/21/2012	5	10759	10969	slk wtr	7352	326	95069	292209	387278	83
7/22/2012	6	10459	10669	slk wtr	7328	309	94005	278441	372446	82
7/23/2012	7	10159	10369	slk wtr	7018	288	93834	271760	365594	80
7/24/2012	8	9859	10069	slk wtr	7885	264	95096	299187	394283	81
7/25/2012	9	9559	9769	slk wtr	8841	212	95200	281974	377174	80
7/26/2012	10	9259	9469	slk wtr	7303	230	94520	134656	229176	80
7/28/2012	11	8959	9169	slk wtr	7300	201	94740	283847	378587	80
7/30/2012	12	8659	8869	slk wtr	7094	206	93484	297057	390541	80
7/31/2012	13	8359	8569	slk wtr	6694	153	94187	205027	299214	80
8/1/2012	14	8059	8269	slk wtr	6616	151	78884	124913	203797	81
8/2/2012	15	7759	7969	slk wtr	6969	121	79200	207608	286808	80
8/3/2012	16	7459	7669	slk wtr	5887	87	80251	85627	165878	81
8/4/2012	17	6959	7309	slk wtr	6931	73	79346	202986	282332	81
<b>Totals</b>					<b>119661</b>	<b>4110</b>	<b>1497922</b>	<b>4004372</b>	<b>5502294</b>	
<b><u>Water to Recover</u></b>						<b><u>123771 bbls</u></b>				

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