

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: 6/28/2013  
API #: 47-051-01448

Farm name: Wengerd Operator Well No.: 4H

LOCATION: Elevation: 1326' Quadrangle: Glen Easton 7.5'

District: Franklin County: Marshall  
Latitude: 12.105 Feet South of 39 Deg. 47 Min. 30 Sec.  
Longitude 7.790 Feet West of 80 Deg. 42 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 St, Suite 301 Clarksburg, WV 26301	20"		39'	CTS
Agent: Michael McCown	13 3/8"		1011'	900 ft^3
Inspector: Bill Hendershot	9 5/8"		2497'	1045 ft^3
Date Permit Issued: 3-30-2011	5 1/2"		11724'	3282 ft^3
Date Well Work Commenced: 5-8-2012	2 3/8"		6759'	
Date Well Work Completed: 11-29-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 6725'				
Total Measured Depth (ft): 11,756'				
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 formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 7213' to 11,584'  
Gas: Initial open flow 2520 MCF/d Oil: Initial open flow 63 Bbl/d  
Final open flow 3216 MCF/d Final open flow 105 Bbl/d  
Time of open flow between initial and final tests 96 Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ 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.

*Dave Perkins*

6-28-13

10/11/2013

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

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

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list No

**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:

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Plug Back Details Including Plug Type and Depth(s): n/a

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<u>Formations Encountered:</u>	<u>Top Depth</u>	/	<u>Bottom Depth</u>
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Surface:

Sewickley Coal	917 - 937		Geneseo 6380 - 6593
Pittsburgh Coal	1080 - 1090		Tully 6593 - 6634
Maxton	2061 - 2111		Hamilton 6634 - 6692
Big Lime	2112- 2142		Marcellus 6692 - 6725
Big Injun	2170		
Base of Big Injun	2315		
Weir	2488 - 2658		
Berea	2658 - 2898		
Gordon	2913 - 2943		
Benson	3635 - 3645		
Java	5250 - 5570		
Rhinestreet	6004 - 6396		
Cashaqua	6396 - 6492		
Middlesex	6492 - 6512		
West River	6512 - 6580		

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**Fluid & Sand Volume Summary - Wengerd #4H**

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Date	Stage	Perforated Interval		Fluid Type	Frac Fluid	Pump	100 mesh	40/70 M	Total Sand	Avg Inj
		From ft	To ft							
10/2/2012	1	11580	11584	slk wtr	bbls 2684	bbls 0	lbs 25470	lbs 71854	lbs 97324	BPM 76
10/6/2012	2	11353	11443	slk wtr	3367	0			0	76
10/7/2012	3	11068	11318	slk wtr	5937	303	72166	59094	131260	81
10/9/2012	4	11018	10768	slk wtr	6210	296	77577	195949	273526	81
10/10/2012	5	10468	10593	slk wtr	7250	279	77580	285923	363503	80
10/11/2012	6	10168	10418	slk wtr	5006	269	79705	25526	105231	80
10/16/2012	7	9868	10118	slk wtr	6968	246	76817	283342	360159	81
10/17/2012	8	9568	9818	slk wtr	6580	196	77616	236086	313702	80
10/20/2012	9	9268	9518	slk wtr	6776	190	77932	216626	294558	80
10/22/2012	10	8968	9218	slk wtr	6908	181	78110	283486	361596	80
10/23/2012	11	8668	8918	slk wtr	6189	135	78450	202625	281075	80
10/26/2012	12	8368	8618	slk wtr	7547	117	78018	187800	265818	80
10/27/2012	13	8068	8318	slk wtr	6970	99	77654	281679	359333	82
10/28/2012	14	7768	8018	slk wtr	6805	94	78042	286003	364045	82
10/30/2012	15	7468	7718	slk wtr	6464	68	76020	229483	305503	82
11/1/2012	16	7313	7418	slk wtr	6658	48	77591	244733	322324	82

**Totals**

**98319**

**2521**

**1108748**

**3090209**

**4198957**

Water to Recover

100840 bbls