

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 #: 47-051-01467 - Revised

Farm name: Hendrickson Operator Well No.: 1H

LOCATION: Elevation: 1228' Quadrangle: Wileyville 7.5'

District: Franklin County: Marshall
Latitude: 1795 Feet South of 39 Deg. 45 Min. 00 Sec.
Longitude 11175 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 Street, Suite 301 Clarksburg, WV 26301	20"		40'	CTS
Agent: <u>Michael McCown</u>	13-3/8"		1040'	958
Inspector: <u>Bill Hendershot</u>	9-5/8"		2514'	958
Date Permit Issued: <u>5/24/2011</u>	5-1/2"		11434'	3031
Date Well Work Commenced: <u>6/27/2011</u>	2-3/8"		6530'	
Date Well Work Completed: <u>3/31/2012</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): <u>6,670'</u>				
Total Measured Depth (ft): <u>11,434'</u>				
Fresh Water Depth (ft.): <u>60'</u>				
Salt Water Depth (ft.): <u>1600'</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>832-852; 987-997</u>				
Void(s) encountered (N/Y) Depth(s) <u>N</u>				

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

Producing formation Marcellus Pay zone depth (ft) 6670'
Gas: Initial open flow 1608 MCF/d Oil: Initial open flow 41 Bbl/d
Final open flow 2498 MCF/d Final open flow 57 Bbl/d
Time of open flow between initial and final tests 240 Hours
Static rock Pressure 1679 psig (surface pressure) after 240 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 I believe that the information is true, accurate, and complete.

[Signature]
Signature

4-11-13
Date

Received
AUG - 2 2013
11/22/2013
Office of Oil and Gas
WV Dept. of Environment

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 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

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

Sewickley Coal	832 - 852		Geneseo 6443 - 6573
Pittsburgh Coal	987 - 997		Tully 6573 - 6510
Maxton	2029 - 2069		Hamilton 6510 - 6641
Big Lime	2060 - 2090		Marcellus 6641 - 6670
Big Injun	2100		
Base of Big Injun	2290		
Weir	2420 - 2590		
Berea	2599 - 2823		
Gordon	2826 - 2857		
Benson	3535 - 3545		
Java	5126 - 5445		
Rhinestreet	5900 - 6240		
Cashaqua	6240 - 6363		
Middlesex	6363 - 6386		
West River	6386 - 6443		

51-01467

Fluid & Sand Volume Summary - Hendrickson #1H

<u>Date</u>	<u>Stage</u>	<u>Perforated Interval</u>		<u>Fluid Type</u>	<u>Frac Fluid</u>	<u>Pump 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							
1/1/2012	1	11172	11382	slk wtr	8689	0	92975	305929	398904	81
1/2/2012	2	10872	11082	slk wtr	7096	257	82702	313649	396351	82
1/2/2012	3	10572	10782	slk wtr	7451	201	93576	300408	393984	80
1/3/2012	4	10272	10482	slk wtr	7522	198	93969	299833	393802	81
1/4/2012	5	9972	10182	slk wtr	7182	177	93132	298355	391487	82
1/4/2012	6	9672	9882	slk wtr	7276	168	93873	302504	396377	81
1/5/2012	7	9372	9582	slk wtr	7480	167	93373	299601	392974	81
1/6/2012	8	9072	9282	slk wtr	7430	134	94452	298555	393007	82
1/6/2012	9	8772	8982	slk wtr	6698	113	94999	251672	346671	82
1/6/2012	10	8472	8682	slk wtr	7184	100	93538	297597	391135	83
1/7/2012	11	8172	8382	slk wtr	7206	88	94102	302958	397060	82
1/7/2012	12	7872	8082	slk wtr	7036	81	97012	297401	394413	83
1/8/2012	13	7572	7782	slk wtr	7082	70	93776	300196	393972	83
1/8/2012	14	7272	7482	slk wtr	7064	56	94026	299647	393673	83
1/8/2012	15	6972	7182	slk wtr	7073	27	93931	298634	392565	83
1/9/2012	16	6762	6932	slk wtr	6947	26	94302	299424	393726	82

Totals

116416

1863

1493738

4766363

6260101

Water to Recover

118279 bbls