

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 #: 47-051-01449

Farm name: Wengerd Operator Well No.: 5H

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

District: Franklin County: Marshall
Latitude: 12,165 Feet South of 39 Deg. 47 Min. 30 Sec.
Longitude 7,785 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"		1051'	935 ft ³
Inspector: Bill Hendershot	9 5/8"		2491'	1116 ft ³
Date Permit Issued: 3-30-2011	5 1/2"		12853'	3558 ft ³
Date Well Work Commenced: 5-8-2012	2 3/8"		6851'	
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): 6720'				
Total Measured Depth (ft): 12,880'				
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) 7449' to 12,759'

Gas: Initial open flow 1872 MCF/d Oil: Initial open flow 11 Bbl/d

Final open flow 3408 MCF/d Final open flow 114 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 Rubin 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:

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 917 - 937

Geneseo 6380 - 6593

Pittsburgh Coal 1080 - 1090

Tully 6593 - 6634

Maxton 2061 - 2111

Hamilton 6634 - 6692

Big Lime 2112- 2142

Marcellus 6692 - 6720

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 #5H

Date	Stage	Perforated Interval		Fluid Type	Frac Fluid	Pump	100 mesh	40/70 M	Total Sand	Avg Int
		From ft	To ft							
10/3/2012	1	12669	12759	silc wtr	4626	0	48214	116503	164717	80
10/4/2012	2	12384	12634	silc wtr	6863	301	78136	197578	275714	81
10/7/2012	3	12084	12334	silc wtr	7410	427	78261	227790	306051	80
10/10/2012	4	11784	12034	silc wtr	6416	363	77820	228591	306411	81
10/12/2012	5	11484	11734	silc wtr	6644	341	76891	240001	316892	81
10/13/2012	6	11184	11434	silc wtr	6966	316	77602	277411	355013	80
10/14/2012	7	10884	11134	silc wtr	7004	296	77632	282706	360338	80
10/15/2012	8	10584	10834	silc wtr	6819	265	77414	282017	359431	80
10/16/2012	9	10284	10534	silc wtr	6854	239	77477	282063	359540	80
10/17/2012	10	9984	10234	silc wtr	6993	195	77515	282281	359796	80
10/18/2012	11	9684	9934	silc wtr	6596	180	77606	248713	326319	80
10/19/2012	12	9384	9634	silc wtr	6603	151	77938	249687	327625	80
10/21/2012	13	9084	9334	silc wtr	6065	160	78078	185466	263544	80
10/22/2012	14	8784	9034	silc wtr	7163	132	78052	282278	360330	80
10/23/2012	15	8484	8734	silc wtr	6936	114	78154	279396	357550	80
10/25/2012	16	8184	8434	silc wtr	7118	99	77499	281649	359148	80
10/26/2012	17	7884	8134	silc wtr	6807	76	77799	284964	362763	81
10/30/2012	18	7644	7834	silc wtr	8511	64	77624	282094	359718	82
10/31/2012	19	7449	7559	silc wtr	7758	54	77473	241302	318775	81

Totals **130152** **3773** **1447185** **4752490** **6-199675**

Water to Recover 133925 bbbls

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