

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 #: 47-51-01524

Farm name: Burch Ridge Operator Well No.: 5H

LOCATION: Elevation: 1328' Quadrangle: Powhatan Point 7.5'

District: Franklin County: Marshall
Latitude: 13,605 Feet South of 39 Deg. 47 Min. 30 Sec.
Longitude 3,100 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 St, Suite 301 Clarksburg, WV 26301	20"		110'	Sanded
Agent: Michael McCown	13 3/8"		616'	992 ft^3
Inspector: Bill Hendershot	9 5/8"		2514'	1290 ft^3
Date Permit Issued: 1-13-2012	5 1/2"		12,507'	3457 ft^3
Date Well Work Commenced: 1-24-2012	2 3/8"		6503'	
Date Well Work Completed: 8-4-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 6612'				
Total Measured Depth (ft): 12,508'				
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) 7008' to 12,428'

Gas: Initial open flow 936 MCF/d Oil: Initial open flow 15 Bbl/d

Final open flow 2328 MCF/d Final open flow 227 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

Received
Office of Oil & Gas
JUL 1 2013

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.

Steve Perkins 6-25-13

01/17/2014

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 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

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth
Surface:

Sewickley Coal	890 - 910	Geneseo	6496 - 6522
Pittsburgh Coal	1031 - 1041	Tully	6522 - 6553
Maxton	2009 - 2059	Hamilton	6553 - 6574
Big Lime	2082 - 2112	Marcellus	6574 - 6612
Big Injun	2122		
Base of Big Injun	2256		
Weir	2441 - 2611		
Berea	2629 - 2869		
Gordon	2964 - 2994		
Benson	3668 - 3678		
Java	5291 - 5611		
Rhinestreet	5919 - 6283		
Cashaqua	6283 - 6411		
Middlesex	6411 - 6430		
West River	6430 - 6496		

Received
 Office of Oil & Gas
 JUL 1 2013

5101524

Fluid & Sand Volume Summary - Burch Ridge #5H

Date	Stage	Perforated Interval		Fluid Type	Frac Fluid	Pump	100 mesh	40/70 M	Total Sand	Avg Inj
		From ft	To ft							
5/29/2012	1	12338	12428	slk wtr	4261	0	47891	154365	202256	80
5/29/2012	2	12043	12273	slk wtr	7735	343	95784	301252	397036	81
5/30/2012	3	11750	11973	slk wtr	7836	329	95806	298507	394313	81
6/2/2012	4	11500	11673	slk wtr	7854	689	94876	303699	398575	81
6/2/2012	5	11143	11373	slk wtr	7772	300	94114	295440	389554	81
6/3/2012	6	10843	11073	slk wtr	7504	279	94476	300069	394545	81
6/3/2012	7	10543	10773	slk wtr	7447	288	94871	300363	395234	81
6/3/2012	8	10243	10473	slk wtr	7661	254	94938	296828	391766	81
6/4/2012	9	9943	10173	slk wtr	7485	215	94143	302387	396530	81
6/4/2012	10	9643	9873	slk wtr	7461	208	95324	298362	393686	81
6/4/2012	11	9343	9573	slk wtr	7447	191	94866	301404	396270	81
6/5/2012	12	9043	9273	slk wtr	7538	161	95518	299296	394814	81
6/5/2012	13	8743	8973	slk wtr	7561	147	94297	297552	391849	81
6/5/2012	14	8443	8673	slk wtr	7582	142	94139	300299	394438	81
6/6/2012	15	8143	8373	slk wtr	7560	120	93773	300956	394729	81
6/6/2012	16	7843	8073	slk wtr	7637	95	93384	297726	391110	81
6/6/2012	17	7543	7773	slk wtr	7483	77	93965	299439	393404	81
6/7/2012	18	7243	7473	slk wtr	7388	60	93504	224586	318090	81
6/7/2012	19	7008	7178	slk wtr	7510	50	94368	300153	394521	82
Totals					140722	3948	1750037	5472683	7222720	

Water to Recover

144670 bbls

Received
Office of Oil & Gas
JUL 17 2012

01/17/2014