

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: June 25, 2013
API #: 47-051-01507

Farm name: Burch Ridge Operator Well No.: 3H

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

District: Franklin County: Marshall
Latitude: 13,585 Feet South of 39 Deg. 47 Min. 30 Sec.
Longitude 3,135 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: Gastar Exploration USA, Inc

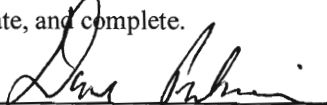
Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
229 West Main St, Suite 301 Clarksburg, WV 26301	20"		40'	Sanded
Agent: Michael McCown	13 3/8"		1145'	1045 ft^3
Inspector: Bill Hendershot	9 5/8"		2509'	1038 ft^3
Date Permit Issued: 9-30-2011	5 1/2"		12,346'	3275 ft^3
Date Well Work Commenced: 10-15-2011	2 3/8"		6430'	
Date Well Work Completed: 7-31-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 6602'				
Total Measured Depth (ft): 12,348'				
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) 6887' to 12,267'
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 2160 MCF/d Final open flow 210 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

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

6-25-13
Date

01/17/2014

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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

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

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 - 6602

Big Injun 2122

Base of Big Injun 2256

Weir 2441 - 2611

Berea 2629 - 2869

Gordon 2964 - 2994

Benson 3668 - 3678

Java 5291 - 5611

Rhinstreet 5919 - 6283

Cashaqua 6283 - 6411

Middlesex 6411 - 6430

West River 6430 - 6496

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Fluid & Sand Volume Summary - Burch Ridge #3H

<u>Date</u>	<u>Stage</u>	<u>Perforated interval</u>		<u>Fluid Type</u>	<u>Frac Fluid</u>	<u>Pump</u>	<u>100 mesh</u>	<u>40/70 M</u>	<u>Total Sand</u>	<u>Avg Inj</u>
		<u>From</u>	<u>To</u>							
6/16/2012	1	12174	12264	slk wtr	4304	0	47032	148248	195280	82
6/16/2012	2	11874	12104	slk wtr	6675	337	94004	296443	390447	82
6/16/2012	3	11574	11804	slk wtr	6840	326	94019	294362	388381	82
6/17/2012	4	11274	11504	slk wtr	6249	286	94004	234365	328369	82
6/25/2012	5	10974	11204	slk wtr	6878	0	94062	270329	364391	82
6/26/2012	6	10674	10904	slk wtr	6797	275	94585	270872	365457	83
6/26/2012	7	10374	10604	slk wtr	6752	295	94018	256988	351006	83
6/27/2012	8	10074	10304	slk wtr	7009	222	94060	297082	391142	80
6/27/2012	9	9774	10004	slk wtr	6953	240	95415	296086	391501	80
6/27/2012	10	9474	9704	slk wtr	6992	203	93689	297552	391241	81
6/28/2012	11	9174	9404	slk wtr	6977	172	94150	297235	391385	80
6/28/2012	12	8874	9104	slk wtr	7748	172	94582	295256	389838	81
6/28/2012	13	8574	8804	slk wtr	7166	143	94018	295857	389875	80
6/29/2012	14	8274	8504	slk wtr	6891	120	94101	296801	390902	80
6/29/2012	15	7974	8204	slk wtr	6861	110	94060	298341	392401	81
6/29/2012	16	7674	7904	slk wtr	7225	88	94054	297935	391989	81
6/30/2012	17	7374	7604	slk wtr	6832	128	94052	298226	392278	80
6/30/2012	18	7074	7304	slk wtr	7120	51	94393	296007	390400	80
7/1/2012	19	6884	7009	slk wtr	6426	33	94028	248193	342221	80
Totals						3201	1742326	5286178	7028504	

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Water to Recover 131896 bbls