

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

DATE: June 7, 2013
API #: 47-051-01487

Farm name: Hall Operator Well No.: 3H

LOCATION: Elevation: 1320' Quadrangle: Glen Easton 7.5'

District: Franklin County: Marshall
Latitude: 14,435 Feet South of 39 Deg. 47 Min. 30 Sec.
Longitude 10,350 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'	Sanded
Agent: Michael McCown	13 - 3/8"		1,057'	920 ft^3
Inspector: Bill Hendershot	9 - 5/8"		2,502'	895 ft^3
Date Permit Issued: 8/22/2011	5 - 1/2"		11,878'	3,165 ft^3
Date Well Work Commenced: 9/20/2011	2 - 3/8"		6,123'	
Date Well Work Completed: 1/9/2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 6,777'				
Total Measured Depth (ft): 11,888'				
Fresh Water Depth (ft.): 60'				
Salt Water Depth (ft.): 1,600'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 1,073' thru 1,083'				
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) 6,777'
Gas: Initial open flow 2606 MCF/d Oil: Initial open flow 36 Bbl/d
Final open flow 3815 MCF/d Final open flow 44 Bbl/d
Time of open flow between initial and final tests 96 Hours
Static rock Pressure 1,550 psig (surface pressure) after 96 Hours

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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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WV Dept. of Environmental Protection

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 Palmer 6-7-13

02/28/2014

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 _____
GR, Mud Log, Acousti, Density, Induction, Mech Prop. & XMAC

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):

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

	Top / Base		Top / Base
Sewickley	912 / 932	Geneseo	6636 / 6666
Pittsburgh Coal	1073 / 1083	Tully	6666 / 6748
Maxton	2073 / 2123	Hamilton	6748 / 6873
Big Lime	2124 / 2140	Marcellus	6873 / 6927
Big Injun	2144 / 2307	Onondaga	6927 / none reported
Weir	2455 / 2625		
Berea	2645 / 2885		
Gordon	2905 / 2935		
Benson	3622 / 3632		
Java	5244 / 5564		
Rhinestreet	6001 / 6401		
Cashaqua	6401 / 6522		
Middlesex	6522 / 6552		
West River	6552 / 6636		

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Fluid & Sand Volume Summary - Hall #3H

Date	Stage	Perforated interval		Fluid Type	Frac Fluid	Pump Down	100 mesh			40/70 M		Total Sand	Avg. Inj
		From ft	To ft				bbls	lbs	lbs	lbs	BPM		
12/7/2011	1	11554	11764	slk wtr	9117	0	88530	286874	286874	375404	82		
12/8/2011	2	11254	11464	slk wtr	8930	414	86655	289370	289370	376025	82		
12/9/2011	3	10954	11164	slk wtr	8962	280	87492	287866	287866	375358	81		
12/12/2011	4	10654	10864	slk wtr	8806	211	87917	286207	286207	374124	81		
12/13/2011	5	10354	10564	slk wtr	8734	228	87556	283396	283396	370952	80		
12/15/2011	6	10054	10264	slk wtr	8761	177	88021	281871	281871	369892	80		
12/16/2011	7	9754	9964	slk wtr	8429	360	88113	212530	212530	300643	82		
12/17/2011	8	9454	9664	slk wtr	8706	157	88235	288906	288906	377141	82		
12/18/2011	9	9154	9364	slk wtr	9015	142	88047	286888	286888	374935	81		
12/19/2011	10	8854	9064	slk wtr	8740	146	88747	275792	275792	364539	80		
12/20/2011	11	8554	8764	slk wtr	8865	96	89517	294904	294904	384421	82		
12/21/2011	12	8254	8464	slk wtr	8657	104	88830	287136	287136	375966	80		
12/22/2011	13	7954	8164	slk wtr	8653	81	88875	282615	282615	371490	80		
12/23/2011	14	7654	7864	slk wtr	9446	109	88971	284369	284369	373340	80		
12/26/2011	15	7354	7564	slk wtr	8675	72	88756	266415	266415	355171	81		
12/26/2011	16	7134	7264	slk wtr	8705	52	88799	284981	284981	373780	82		

Totals **141201** **2629** **1413061** **4480120** **589** **Received**

Water to Recover **143830 bbls**

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