

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 #: 47-051-01486

Farm name: Hall Operator Well No.: 2H

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

District: Franklin County: Marshall
Latitude: 14,395 Feet South of 39 Deg. 47 Min. 30 Sec.
Longitude 10,365 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"		1,058'	957 ft^3
Inspector: Bill Hendershot	9 - 5/8"		2,529'	945 ft^3
Date Permit Issued: 8/22/2011	5 - 1/2"		11,422'	3,618 ft^3
Date Well Work Commenced: 10/16/2011	2 - 3/8"		6,225'	
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): 6,770'				
Total Measured Depth (ft): 11,440'				
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) 6,770'

Gas: Initial open flow 2760 MCF/d Oil: Initial open flow 31 Bbl/d

Final open flow 3801 MCF/d Final open flow 51 Bbl/d

Time of open flow between initial and final tests 96 Hours

Static rock Pressure 1,400 psig (surface pressure) after 96 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

JUN 10 2013

Office of Oil and Gas
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.

[Signature] 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		

Received

JUN 10 2013

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02/28/2014

Fluid & Sand Volume Summary - Hall #2H

Date	Stage	Perforated interval		Fluid Type	Frac Fluid	Pump	100 mesh			40/70 M		Total Sand	Avg Inj
		From	To				ft	bbls	lbs	lbs	lbs		
12/6/2011	1	11098	11308	silk wtr	10136	0	87094	287579	374673		82		
12/8/2011	2	10798	11008	silk wtr	9042	319	88414	286429	374843		82		
12/10/2011	3	10498	10708	silk wtr	9947	217	87963	286683	374646		79		
12/11/2011	4	10198	10408	silk wtr	9379	190	88863	289221	378084		82		
12/12/2011	5	9898	10108	silk wtr	9766	373	91866	284404	376270		81		
12/14/2011	6	9598	9808	silk wtr	8105	158	88053	209441	297494		81		
12/15/2011	7	9298	9508	silk wtr	8665	146	88186	289931	378117		80		
12/16/2011	8	8998	9208	silk wtr	8876	127	88435	288913	377348		80		
12/18/2011	9	8698	8908	silk wtr	8598	99	88095	259966	348061		81		
12/19/2011	10	8398	8608	silk wtr	8809	85	88268	289835	378103		80		
12/21/2011	11	8098	8308	silk wtr	8742	76	88909	287688	376597		81		
12/23/2011	12	7798	8008	silk wtr	8712	89	88781	277728	366509		80		
12/28/2011	13	7498	7708	silk wtr	8639	75	90127	285192	375319		81		
12/28/2011	14	7278	7408	silk wtr	8474	56	88871	222136	311007		81		

Totals

Received

125890 2010 1241925 3845146 5087

Water to Recover 127900 bbls

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