

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

DATE: February 5, 2013  
API #: 47-051-01437

Farm name: Corley Operator Well No.: 2H

LOCATION: Elevation: 1272' Quadrangle: Powhatan Point 7.5'

District: Franklin County: Marshall  
Latitude: 14.155 Feet South of 39 Deg. 47 Min. 30 Sec.  
Longitude 3.750 Feet West of 80 Deg. 45 Min. 00 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'	40'	CTS
Agent: Michael McCown	13-3/8"	1017'	1017'	975'
Inspector: Carl McCune	9-5/8"	2494'	2494'	906'
Date Permit Issued: 04/05/2011	5-1/2"	12,152	12,152'	3229'
Date Well Work Commenced: 07/21/2011				
Date Well Work Completed: 11/17/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6632'				
Total Measured Depth (ft): 12,152'				
Fresh Water Depth (ft.): 60'				
Salt Water Depth (ft.): 1600'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): refer to page 2				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 6835'  
Gas: Initial open flow 2028 MCF/d Oil: Initial open flow 38 Bbl/d  
Final open flow 2413 MCF/d Final open flow 45 Bbl/d  
Time of open flow between initial and final tests 24 Hours  
Static rock Pressure 2265 csg. psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation none 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.

Michael McCown  
Signature

2/25/2013  
Date

51-01437

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  
YES : GR, Mudlog, 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:

\_\_\_\_\_  
\_\_\_\_\_

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Plug Back Details Including Plug Type and Depth(s):

\_\_\_\_\_

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Formations Encountered: Top Depth / Bottom Depth  
Surface:

Sewickley:	Top:885, Base: 905	Java:	5378, 5698
Pittsburgh coal:	1061, 1071	Rhinestreet:	6190, 6500
Maxton:	1980, 2030	Cashaqua:	6547, 6692
Big Lime:	2043, 2073	Middlesex:	6642, 6662
Big Injun:	2079	West River:	6664, 6724
Base of Big Injun:	2223	Geneseo:	6726, 6744
Weir:	2397, 2567	Tully:	6740, 6775
Berea:	2581, 2821	Hamilton:	6786, 6836
Gordon:	2855, 2885	Marcellus:	6835, 6888
Benson:	3617, 3627	Onondaga:	6889, NA (TD'd before base)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

03/01/2013

51-01437

Well Name: Corley 2H  
 Permit #: 47-051-01437

Interval Perforated				Stimulation Summary				
Date	From	To	Date	Fluid	Amount	Proppant	Amount	AVG Rate
9/14/2011	12083	11877	10/10/2011	SLK WTR	9341	100m & 40/70	378110	87
10/10/2011	11787	11577	10/10/2011	SLK WTR	8872	100m & 40/70	380183	87
10/11/2011	11487	11277	10/11/2011	SLK WTR	8829	100m & 40/70	375681	85
10/11/2011	11187	10977	10/11/2011	SLK WTR	8894	100m & 40/70	375250	87
10/12/2011	10887	10677	10/12/2011	SLK WTR	8644	100m & 40/70	374862	87
10/12/2011	10587	10377	10/12/2011	SLK WTR	8901	100m & 40/70	374226	88
10/13/2011	10287	10077	10/13/2011	SLK WTR	8913	100m & 40/70	374366	88
10/13/2011	9987	9777	10/13/2011	SLK WTR	8722	100m & 40/70	374079	89
10/14/2011	9687	9477	10/14/2011	SLK WTR	9534	100m & 40/70	384975	88
10/14/2011	9387	9177	10/14/2011	SLK WTR	8594	100m & 40/70	376862	88
10/14/2011	9087	8877	10/14/2011	SLK WTR	8880	100m & 40/70	378310	91
10/15/2011	8787	8577	10/15/2011	SLK WTR	8608	100m & 40/70	374321	89
10/15/2011	8487	8277	10/15/2011	SLK WTR	9138	100m & 40/70	372451	90
10/16/2011	8187	7977	10/16/2011	SLK WTR	9051	100m & 40/70	374696	91
10/16/2011	7887	7677	10/16/2011	SLK WTR	9225	100m & 40/70	376308	88
10/17/2011	7587	7377	10/17/2011	SLK WTR	9079	100m & 40/70	373125	87
10/18/2011	7287	6937	10/18/2011	SLK WTR	8774	100m & 40/70	373700	88

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