

WR-35  
Rev (9-11)

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

DATE: January 23, 2013 ✓  
API #: 47-051-01396

Farm name: Corley Operator Well No.: 1H

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

District: Franklin County: Marshall  
Latitude: 14,150 Feet South of 39 Deg. 47 Min. 30 Sec.  
Longitude 3,760 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 St., Suite 301 Clarksburg, WV 26301	20"	40'	40'	Sanded
Agent: <u>Michael McCown</u>	13-3/8"	1017'	1017'	975'
Inspector: <u>Carl McCune</u>	9-5/8"	2481'	2481'	1058'
Date Permit Issued: <u>01/24/2011</u>	5-1/2"	12,407'	12,407'	3414'
Date Well Work Commenced: <u>06/11/2011</u>	<u>2-3/8"</u>		<u>6786'</u>	
Date Well Work Completed: <u>11/11/2011</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>6,625'</u>				
Total Measured Depth (ft): <u>12,408'</u>				
Fresh Water Depth (ft.): <u>60'</u>				
Salt Water Depth (ft.): <u>1,600'</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): refer to page 2				
Void(s) encountered (N/Y) Depth(s) <u>N</u>				

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 2658 MCF/d Oil: Initial open flow 39 Bbl/d  
Final open flow 2433 MCF/d Final open flow 34 Bbl/d  
Time of open flow between initial and final tests 24 Hours  
Static rock Pressure 2250 csg. 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.

Michael McCown  
Signature

1/24/13  
Date

03/15/2013

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): *set plug from 6220' to 6926' (MD)*

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)

**Fluid & Sand Volume Summary - Corley #1H**

<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>							
		ft	ft		bbls	bbls	lbs	lbs	lbs	BPM
9/26/2011	1	12133	12328	slk wtr	8000	0	88037	215635	303672	87.6
9/27/2011	1A	12133	12328	slk wtr	220	0	0	0	0	4.7
10/2/2011	2	11787	11893	slk wtr	9339	0	87701	282116	369817	87
10/2/2011	3	11535	11616	slk wtr	9446	335	87853	287496	375349	87
10/3/2011	4	11233	11443	slk wtr	9146	231	89881	272846	362727	87
10/3/2011	5	11143	10933	slk wtr	8649	308	89221	251517	340738	89
10/3/2011	6	10633	10843	slk wtr	9198	268	88058	274382	362440	87
10/4/2011	7	10333	10543	slk wtr	9493	260	88926	287687	376613	87
10/4/2011	8	10033	10243	slk wtr	8851	219	89308	287520	376828	88
10/5/2011	9	9733	9943	slk wtr	9617	276	89360	285181	374541	90
10/5/2011	10	9433	9643	slk wtr	8892	191	88114	282104	370218	86
10/6/2011	11	9133	9343	slk wtr	8757	142	89054	291266	380320	87
10/6/2011	12	8833	9043	slk wtr	8678	167	88395	288006	376401	86
10/6/2011	13	8533	8763	slk wtr	8705	134	90020	291594	381614	85
10/7/2011	14	8233	8443	slk wtr	8663	110	88370	289480	377850	86
10/8/2011	15	7841	8143	slk wtr	9076	141	88148	287189	375337	86
10/8/2011	16	7633	7843	slk wtr	8687	96	89042	289644	378686	87
10/8/2011	17	7333	7543	slk wtr	8686	75	89423	287961	377384	86
10/8/2011	18	7033	7243	slk wtr	8726	48	89240	289351	378591	86
<b>Totals</b>					<b>160829</b>	<b>3001</b>	<b>1598151</b>	<b>5040975</b>		

**Water to Recover      163830 bbls**

51-01396