

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

DATE: NOV 10 2011  
API No: 47-097-03750H  
Lease No: 63848



Farm Name: WOODY, JIMMIE R., ET AL Operator Well No.: ALT1BHS (405892)

LOCATION: Elevation: 2395' Quadrangle: Alton

District: Washington County: Upshur

Latitude: 14,180 Feet South of: 38 Deg. 50 Min. 00 Sec.  
Longitude: 5,050 Feet West of: 80 Deg. 10 Min. 00 Sec.

Company: CNX Gas Company LLC formerly Consol Gas Company

	Casing and Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<b>Address:</b> P.O. Box 1248 Jane Lew, WV 26378				
<b>Agent:</b> Kent Wright				
<b>Inspector:</b> Bill Hatfield				
<b>Date Permit Issued:</b> 08/05/2010				
<b>Date Well Work Commenced:</b> 09/18/2010	20"	44'	44'	400 sks
<b>Date Well Work Completed:</b> 05/27/2011				
<b>Verbal Plugging:</b>	13 3/8"	659'	659'	550 sks
<b>Date Permission granted on:</b>				
<b>Rotary Cable Rig X</b>	9 5/8"	2009'	2009'	595 sks
<b>Total Vertical Depth (feet):</b> 7468				
<b>Total Measured Depth (feet):</b> 12000	5"	11895'	11895'	1782 sks
<b>Fresh Water Depth (ft.):</b> N/A				
<b>Salt Water Depth (ft.):</b> N/A				
<b>Is coal being mined in area (N/Y)?:</b> No				
<b>Coal Depths (ft.):</b> 750'-760'				
<b>Void(s) encountered (N/Y) Depth(s)</b>				

RECEIVED

Office of Oil & Gas

**OPEN FLOW DATA**

NOV 14 2011

Producing formation MARCELLUS Pay zone depth (ft) 7583'-11895'  
 Gas: Initial production 4500 MCF/d Oil: Initial open flow 0 Bbl/d  
 Final open flow 2832 MCF/d Final open flow 0 Bbl/d  
 Time of open flow between initial and final tests 12 Hours  
 Initial Flowing Pressure 4258 psig (surface pressure) after 12 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

**\* COMMINGLED WITH PREVIOUS FORMATIONS**

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

11-10-11

Date

55 11/4/11  
11/18/11

11/18/2011

Were core samples taken? Yes \_\_\_ No X Were cuttings caught during drilling? Yes X No \_\_\_

Were \_\_\_ Electrical, \_\_\_ Mechanical, X or Geophysical logs recorded on this well?

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:**

5/16/2011 FRACED STAGE 1/14. PERFED MARCELLUS @ 11602'-11806' W/ 72 SHOTS.  
 SAND 346,380#, 83 BPM AVG, 105 BPM MAX, ATP 8396 PSI, FR 0.75 GPT.

5/17/2011 FRACED STAGE 2/14. PERFED MARCELLUS @ 11302'-11544' W/ 60 SHOTS. SAND 361,740#, 91 BPM AVG, ATP 8386 PSI.

5/18/2011 FRACED STAGE 3/14. PERFED MARCELLUS @ 11002'-11244' W/ 60 SHOTS.  
 SAND 352,100#, 89 BPM AVG, 100 BPM MAX, 8574 PSI AVG, FR 0.50 GPT.

5/19/2011 FRACED STAGE 4/14. PERFED MARCELLUS @ 10702'-10944' W/ 60 SHOTS. SAND 341,740#, 82 BPM AVG, 99 BPM MAX, ATP 8162 PSI.

5/22/2011 FRACED STAGE 5/14. PERFED MARCELLUS @ 10402'-10644' W/ 60 SHOTS.  
 SAND 350,760#, 76 BPM AVG, 91 BPM MAX, 8623 PSI AVG, ISIP 4244 PSI, FR 1.0 GPT.  
 FRACED STAGE 6/14. PERFED MARCELLUS @ 10102'-10344' W/ 60 SHOTS.  
 SAND 357,880#, 92 BPM AVG, 98 BPM MAX, 8788 PSI AVG, ISIP 4585, FR 0.75 GPT.  
 FRACED STAGE 7/14. PERFED MARCELLUS @ 9802'-10044' W/ 60 SHOTS.  
 SAND 312,460#, 66.8 BPM AVG, 70.5 BPM MAX, 8528 PSI AVG, ISIP 3964.

5/23/2011 FRACED STAGE 8/14. PERFED MARCELLUS @ 9502'-9744' W/ 60 SHOTS.  
 SAND 384,040#, 98 BPM AVG, 101 BPM MAX, 8636 PSI AVG, ISIP 3990, FR 0.75 GPT.

5/24/2011 FRACED STAGE 9/14. PERFED MARCELLUS @ 9202'-9444' W/ 60 SHOTS. SAND 356,640#, 80 BPM AVG, 81 BPM MAX, ATP 7706 PSI.  
 FRACED STAGE 10/14. PERFED MARCELLUS @ 8902'-9144' W/ 60 SHOTS.  
 SAND: 100 MESH 60,420#, 40/70 MESH 291,340#, 89.5 BPM AVG, 103.3 BPM MAX, 8011 AVG PSI.

5/25/2011 FRACED STAGE 11/14. PERFED MARCELLUS @ 8602'-8844' W/ 60 SHOTS.  
 SAND: 100 MESH 60,780#, 40/70 MESH 293,400#, 98 BPM AVG, 104.2 BPM MAX, 8055 PSI AVG, ISIP 4009, FR 0.75 GPT.

5/26/2011 FRACED STAGE 12/14. PERFED MARCELLUS @ 8302'-8544' W/ 60 SHOTS.  
 SAND 351,740#, 101 BPM AVG, 105 BPM MAX, 8412 PSI AVG, ISIP 4258, FR 0.75 GPT.  
 FRACED STAGE 13/14. PERFED MARCELLUS @ 8002'-8244' W/ 60 SHOTS.  
 SAND 350,060#, 103.8 BPM AVG, 105.5 BPM MAX, ATP 7889 PSI, MTP 8736 PSI.

5/27/2011 FRACED STAGE 14/14. PERFED MARCELLUS @ 7702'-7944' W/ 60 SHOTS.  
 SAND 351,880#, 100 BPM AVG, 105 BPM MAX, 7933 PSI AVG, ISIP 4131, FR 0.75 GPT.

**FORMATIONS ENCOUNTERED:**

Fill	0	10	Sandstone	10	40	Shale	40	170
Sand	170	242	RedRock	242	258	Shale	258	580
RedRock	580	595	Sand	595	675	Black Shale & Sand	675	750
Coal	750	760	Black Shale & Sand	760	900	Gray Shale	900	1055
RedRock	1055	1107	Gray Shale	1107	1114	Limestone	1114	1118
Shale	1118	1127	RedRock	1127	1138	Shale & RedRock	1138	1157
Limestone & Shale	1157	1168	Shale	1168	1334	Red & Gray Shale	1334	1394
Gray Shale	1394	1485	Sandstone	1485	1805	RedRock	1805	1840
Gordon	1970	2050	4th Sand	2075	2090	5th Sand	2190	2210
Bayard	2260	2310	Elizabeth	2400	2425	Warren	2470	2490
Speechley	2780	2790	Balltown	2935	2945	Bradford	3270	3290
Riley	3590	3630	Benson	3900	3920	1st Elk	4185	4205
2nd Elk	4390	4420	Haverty	5005	5025	Shale	6350	6380

GAMMA			
RAY /			
FORMATION			
#ALT1BHS (405892)	TOPS		47-097-03750H
	TOP	BASE	
BURKETT	7160	7208	
TULLY	7208	7246	
HAMILTON	7246	7312	
MARCELLUS	7312		
GAMMA RAY - MD	6416	11920	