

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: **47-097-03752H**  
Lease No: 63848

Farm Name: WOOD, JIMMY R ET AL Operator Well No.: **ALT1DHS (405938)**

LOCATION: Elevation: 2395' Quadrangle: Alton

District: Washington County: Upshur

Latitude: 14,140 Feet South of: 38 Deg. 50 Min. 00 Sec.  
Longitude: 5,030 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> 08/17/2010				
<b>Date Well Work Commenced:</b> 08/26/2010	20"	42'	42'	Grouted In
<b>Date Well Work Completed:</b> 05/27/2011				
<b>Verbal Plugging:</b>	13 3/8"	675'	675'	530 sks
<b>Date Permission granted on:</b>				
<b>Rotary Cable Rig</b> X	9 5/8"	2012'	2012'	553 sks
<b>Total Vertical Depth (feet):</b> 7442				
<b>Total Measured Depth (feet):</b> 10820	5 1/2"	10775'	10775'	1508 sks
<b>Fresh Water Depth (ft.):</b> 550'				
<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** 2011/02/09 - PLUGGED BACK FROM 6310' to 6706'. SET SOLID 400' CEMENT PLUG AT 6706'. SET NEW DIRECTIONAL.

NOV 14 2011

Producing formation MARCELLUS Pay zone depth (ft) 7565'-10775'  
Gas: Initial production 2700 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 1428 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 12 Hours  
Initial Flowing Pressure 3954 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]  
Signature

11-10-11  
Date

11/18/2011

55 11/4/11  
Att 11/8/11

WELL: **ALT1DHS (405938)**

Were core samples taken? Yes  No  Were cuttings caught during drilling? Yes  No

Were  Electrical,  Mechanical,  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 1/10. PERFED MARCELLUS @ 10446'-10650' W/ 72 SHOTS.  
SAND 353,500#, 87 BPM AVG, 99 BPM MAX, ATP 8606 PSI, FR 0.50 GPT.
- 5/17/2011 FRACED STAGE 2/10. PERFED MARCELLUS @ 10146'-10388' W/ 48 SHOTS.  
SAND 349,280#, 71 BPM AVG, ATP 8484 PSI.
- 5/18/2011 FRACED STAGE 3/10. PERFED MARCELLUS @ 9846'-10088' W/ 48 SHOTS.  
SAND 352,940#, 101 BPM AVG, 102 BPM MAX, 8164 PSI AVG, FR 0.50 GPT.
- 5/23/2011 FRACED STAGE 4/10. PERFED MARCELLUS @ 9546'-9788' W/ 48 SHOTS.  
SAND 350,580#, 98 BPM AVG, 102 BPM MAX, 8516 PSI AVG, ISIP 3852, FR 0.75 GPT.  
FRACED STAGE 5/10. PERFED MARCELLUS @ 9246'-9488' W/ 48 SHOTS.  
SAND 350,840#, 78.7 BPM AVG, 84.3 BPM MAX, 7792 PSI AVG, ISIP 3711, FR 0.5 GPT.
- 5/24/2011 FRACED STAGE 6/10. PERFED MARCELLUS @ 8946'-9188', 48 SHOTS.  
SAND: 100 MESH 61,820#, 40/70 MESH 293,060#, 82.8 BPM MAX, 77.1 BPM AVG, 8016 PSI AVG, FR 0.5 GPT AVG.
- 5/25/2011 FRACED STAGE 7/10. PERFED MARCELLUS @ 8646'-8888' W/ 48 SHOTS.  
SAND 278,000#, 90 BPM AVG, 102 BPM MAX, ATP 8369 PSI.  
FRACED STAGE 8/10. PERFED MARCELLUS @ 8346'-8588' W/ 48 SHOTS.  
SAND 350,000#, 94 BPM AVG, 101 BPM MAX, ATP 8011 PSI, MTP 8958 PSI.
- 5/27/2011 FRACED STAGE 9/10. PERFED MARCELLUS @ 8046'-8288' W/ 48 SHOTS.  
SAND 351,320#, 103.8 BPM AVG, 105.7 BPM MAX, ATP 7586 PSI, MTP 9168.  
FRACED STAGE 10/10. PERFED MARCELLUS @ 7746'-7988' W/ 48 SHOTS.  
SAND 379,500#, 101 BPM AVG, 106 BPM MAX, 8282 PSI AVG, ISIP 4334. FR 1.0 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	1505	Big Lime	1505	1550
Big Injun	1550	1680	Gantz	1695	1705	Fifty Foot	1735	1760
Thirty Foot	1840	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
Bedford	3270	3290	Riley	3590	3630	Benson	3900	3920
1st Elk	4185	4205	2nd Elk	4390	4420	Haverty	5005	5025
Shale	6350	6380						

<b>GAMMA</b>			
<b>RAY /</b>			
<b>FORMATION</b>			
#ALT1DHS (405938)	<b>TOPS</b>		47-097-03752H
	<b>TOP</b>	<b>BASE</b>	
SYCAMORE GRIT	6378	6406	
BURKETT	7149	7191	
TULLY	7191	7228	
HAMILTON	7228	7294	
MARCELLUS	7294		
GAMMA RAY - MD	6251	10757	