

**State of West Virginia**  
**Division of Environmental Protection**  
**Section of Oil and Gas**  
**Well Operator's Report of Well Work**

*JK*

Farm name: YOHO, SEAN & ANDREW Operator Well No.: ZUE LANTZ 288  
LOCATION: Elevation: 884' Quadrangle: PINE GROVE 7.5'  
District: GRANT County: WETZEL  
Latitude: 2,680 Feet south of 39 Deg 35 Min 0 Sec.  
Longitude: 9,800 Feet west of 80 Deg 37 Min 30 Sec.

Company Address:	HG Energy PO Box 5519 Vienna, WV 26105	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Inspector:	Derek Haught				
Date Permit Issued:	07/18/2011				
Date Well Work Commenced:	01/25/2012				
Date Well Work Completed:	03/02/2012				
Verbal Plugging:					
Date Permission Granted On:					
Rotary X Cable	Rig	7"	869'	869'	215 sks
Total vertical Depth (ft):	2980'				
Total Measured Depth (ft):	3222'				
Fresh Water Depth (ft):	none	4 1/2"	3113.7'	3113.7'	200 sks
Salt Water Depth (ft):	none				
Is Coal being mined in ares (Y/N)?	No				
Coal Depths (ft): x	625'-632'				
Void(s) encountered (Y/N) depth(s):	NONE				
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**OPEN FLOW DATA**

**\* Waterflood Producer**

This well drilled directionally 3.4 ° NE a distance of 872' WV Department of Environmental Protection

Producing formation Gordon Pay zone depth (ft) 2952'-2971'  
 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  
  
 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.

*Derek Haught*  
Signature

7/6/12  
Date

Were core samples taken? No

Were cuttings caught during drilling? No 103.02678

Were Y Electrical, N Mechanical, N or Geophysical logs recorded on this well?  
Y/N Y/N Y/N

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.

**Treatment :** Treated perms 2952'-2971' w/ 250 gals 15% HCL, 307 bbls cross linked gel, and 15,000# 20/40 sand.

**Well Log :** All depths are measured relative to KB (8' AGL ).

Shale w/ sand streaks	0	-	625
Coal	625	-	632
Shale w/ sand streaks	632	-	1124
Sand	1124	-	1150
shale	1150	-	1214
sand	1214	-	1246
shale	1246	-	1428
sand	1428	-	1450
shale	1450	-	1498
sand	1498	-	1563
shale	1563	-	1624
sand	1624	-	1694
shale	1694	-	1833
sand	1833	-	1850
shale	1850	-	1865
sand	1865	-	1875
Big Lime	1875	-	1945
Big Injun	1945	-	2255
shale	2255	-	2916
Gordon Stray	2916	-	2938
shale	2938	-	2948
Gordon	2948	-	2970
shale	2970	-	3093
sand	3093	-	3097
shale	3097	-	3222
TD	3222		
T.D. -Logger	3185	KB	
T.D. -Driller	3222	KB	

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WV Department of  
Environmental Protection