

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

Farm name: HG ENERGY LLC

Operator Well No.: T.J. HIGGINBOTHAM 305

LOCATION: Elevation: 977'

Quadrangle: BIG RUN 7.5'

District: CENTER

County: WETZEL

Latitude: 1,835 Feet south of

39 Deg 37 Min 30 Sec.

Longitude: 11,060 Feet west of

80 Deg 35 Min 0 Sec.

RECEIVED  
AUG 22 2012  
WV GEOLOGICAL SURVEY  
MORGANTOWN, WV

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:	06/28/2011				
Date Well Work Commenced:	06/02/2011				
Date Well Work Completed:	07/21/2011				
Verbal Plugging:					
Date Permission Granted On:					
Rotary X Cable	Rig	9 5/8"	289'	289'	125 sks
Total vertical Depth (ft):	3110'				
Total Measured Depth (ft):	3110'				
Fresh Water Depth (ft):	150'	7"	1507'	1507'	280 sks
Salt Water Depth (ft):	None				
Is Coal being mined in ares (Y/N)?	No				
Coal Depths (ft): x	850'-860'	4 1/2"	3052.05'	3052.05'	150 sks
Void(s) encountered (Y/N) depth(s):	NONE				


OPEN FLOW DATA

\* Waterflood Producer

Producing formation Gordon Pay zone depth (ft) 2912'-2926'  
 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.

  
\_\_\_\_\_  
Signature

8/20/12  
\_\_\_\_\_  
Date

Were core samples taken? No

Were cuttings caught during drilling? No

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 2912'-2926' w/ 250 gals. 15% HCL, 340 bbls cross linked gel, and 16,600# 20/40 sand.

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

Shale w/ sand streaks	0	-	850
Coal	850	-	860
Sand/Shale	860	-	1333
sand	1333	-	1366
shale	1366	-	1376
sand	1376	-	1392
shale	1392	-	1446
sand	1446	-	1470
shale	1470	-	1503
sand	1503	-	1566
shale	1566	-	1606
sand	1606	-	1642
shale	1642	-	1672
sand	1672	-	1699
shale	1699	-	1720
sand	1720	-	1766
shale	1766	-	1804
sand	1804	-	1910
shale	1910	-	1995
sand	1995	-	2008
shale	2008	-	2021
sand	2021	-	2032
Big Lime	2032	-	2098
Big Injun	2098	-	2312
shale	2312	-	2879
Gordon Stray	2879	-	2902
shale	2902	-	2908
Gordon	2908	-	2928
shale	2928	-	2940
sand	2940	-	2946
shale	2946	-	3110
TD	3110	-	
T.D. -Logger	3109	KB	
T.D. -Driller	3110	KB	