

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

Farm name: H.G. ENERGY, LLC. Operator Well No.: L.J. FLUHARTY NO. 7  
 LOCATION: Elevation: 781' Quadrangle: PINE GROVE 7.5'  
 District: GREEN County: WETZEL  
 Latitude: 7,630 Feet south of 39 Deg 32 Min 30 Sec.  
 Longitude: 8,110 Feet west of 80 Deg 40 Min 0 Sec.

Company Address:	HG Energy 5260 Dupont Rd Parkersburg, WV 26101	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Inspector:	Derek Haught				
Date Permit Issued:	08/31/2012				
Date Well Work Commenced:	10/08/2012				
Date Well Work Completed:	11/01/2012				
Verbal Plugging:					
Date Permission Granted On:					
Rotary X Cable Rig		7"	772'	772'	200 sks
Total vertical Depth (ft):	2840'				
Total Measured Depth (ft):	2840'				
Fresh Water Depth (ft):	180'	4 1/2"	2755'	2755'	210 sks
Salt Water Depth (ft):	1580'				
Is Coal being mined in ares (Y/N)?	No				
Coal Depths (ft):	519'-527'				
Void(s) encountered (Y/N) depth(s):	NONE				

OPEN FLOW DATA \* Waterflood Producer

Producing formation	Gordon	Pay zone depth (ft)	2606'-2615' 2619'-2621'
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

2/1/13  
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 2606'-2615' and 2619'-2621' w/ 250 gals 15% HCL acid, 250 bbls cross linked gel, and 7,600# 20/40 sand.

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

Shale w/ sand streaks	0	-	519
Coal	519	-	527
Shale w/ sand streaks	527	-	1107
Sand	1107	-	1150
shale	1150	-	1222
sand	1222	-	1232
shale	1232	-	1244
sand	1244	-	1288
shale	1288	-	1448
sand	1448	-	1511
shale	1511	-	1516
sand	1516	-	1544
shale	1544	-	1558
sand	1558	-	1568
shale	1568	-	1682
sand	1682	-	1706
shale	1706	-	1718
sand	1718	-	1728
Big Lime	1728	-	1778
Big Injun	1778	-	1998
shale	1998	-	2570
Gordon stray	2570	-	2588
shale	2588	-	2599
Gordon	2599	-	2621
shale	2621	-	2628
sand	2628	-	2634
shale	2634	-	2840
TD	2840		
T.D. -Logger	2798	KB	
T.D. -Driller	2840	KB	

RECEIVED  
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WV GEOLOGICAL SURVEY  
MORGANTOWN, WV