

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

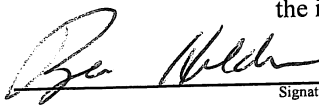
Farm name: BRIGGS, DIANA & DANNY Operator Well No.: S.L. CRANE 306  
 LOCATION: Elevation: 939' Quadrangle: BIG RUN 7.5'  
 District: CENTER County: WETZEL  
 Latitude: 1,315 Feet south of 39 Deg 37 Min 30 Sec.  
 Longitude: 9,115 Feet west of 80 Deg 35 Min 0 Sec.

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:	12/09/2011				
Date Well Work Commenced:	12/27/2011				
Date Well Work Completed:	02/10/2012				
Verbal Plugging:					
Date Permission Granted On:					
Rotary X Cable Rig		7"	933'	933'	190 sks
Total vertical Depth (ft):	3150'				
Total Measured Depth (ft):	3312'				
Fresh Water Depth (ft):	none	4 1/2"	3218.9'	3218.9'	200 sks
Salt Water Depth (ft):	none				
Is Coal being mined in ares (Y/N)?	No				
Coal Depths (ft): x	924'-931'				
Void(s) encountered (Y/N) depth(s):	NONE				

OPEN FLOW DATA This well drilled directionally 6.8 degrees NE a distance of 606.37'.  
 3024'-3030'  
 Producing formation Gordon Pay zone (ft) 3155.5'-3160.5'  
 Gas: Initial open flow 23 MCF/d Oil: Initial open flow 4 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 Date 5/23/12

Were core samples taken? 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 3155.5'-3160.5' w/ 200 bbls x linked gel and 6,000# 20/40 sand.  
 Treated perms 3024'-3030' w/500 gals 15%HCL, 298bbls Crosslink gel, & 20,000# 20/40 sand.

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

Shale w/ sand streaks	0	-	924
Coal	924	-	931
Shale	931	-	934
Sand	934	-	1012
shale	1012	-	1132
sand	1132	-	1150
shale	1150	-	1266
sand	1266	-	1280
shale	1280	-	1304
sand	1304	-	1324
shale	1324	-	1443
sand	1443	-	1494
shale	1494	-	1536
sand	1536	-	1594
shale	1594	-	1660
sand	1660	-	1698
shale	1698	-	1712
sand	1712	-	1727
shale	1727	-	1768
sand	1768	-	1782
shale	1782	-	1800
sand	1800	-	1860
shale	1860	-	1950
sand	1950	-	1963
shale	1963	-	1978
sand	1978	-	1985
shale	1985	-	1988
Big Lime	1988	-	2080
Big Linjun	2080	-	2313
shale	2313	-	2984
Gordon Stray	2984	-	3008
shale	3008	-	3114
Gordon	3114	-	3038
shale	3038	-	3044
sand	3044	-	3056
shale	3056	-	3155
sand	3155	-	3161
shale	3161	-	3312
TD	3312		
T.D. -Logger	3311	KB	
T.D. -Driller	3312	KB	