

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

Farm name: STACKPOLE, GRACE Operator Well No.: ELIZABETH LONGSTRETH 3  
 LOCATION: Elevation: 1,166' Quadrange: CENTERPOINT 7.5'  
 District: MCELROY County: TYLER  
 Latitude: 11,760 Feet south of 39 Deg 30 Min 0 Sec.  
 Longitude: 10,820 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:	Joe Taylor				
Date Permit Issued:	4/11/2013				
Date Well Work Commenced:	4/22/2013				
Date Well Work Completed:	4/25/2013				
Verbal Plugging:					
Date Permission Granted On:					
Rotary X Cable	Rig	7"	1094'	1094'	existing
Total vertical Depth (ft):	3200'				
Total Measured Depth (ft):	3200'				
Fresh Water Depth (ft):	None	4 1/2"	3154.25'	3154.25'	existing
Salt Water Depth (ft):	None				
Is Coal being mined in ares (Y/N)?	No				
Coal Depths (ft):	968'-978'				
Void(s) encountered (Y/N) depth(s):	NONE				

OPEN FLOW DATA

Producing formation Big Injun Pay zone 2315'-2319'  
 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) DEC 27 2013 after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay zone 2377'-2379'  
 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.

Bo Weldon  
Signature

11/22/13  
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 perfs 2315'-2319', 2332'-2337', 2343'-2350', 2368'-2370', & 2377'-2379' w/ 500 gals. 15% HCL, 592 bbls linear gel, and 24,500# 20/40 sand.

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

Shale w/ sand streaks	0	-	968
Coal	968	-	978
Shale	978	-	1000
Sand	1000	-	1022
shale	1022	-	1200
sand	1200	-	1220
shale	1220	-	1314
sand	1314	-	1326
shale	1326	-	1386
sand	1386	-	1404
shale	1404	-	1554
sand	1554	-	1602
shale	1602	-	1712
sand	1712	-	1788
shale	1788	-	1980
sand	1980	-	1990
shale	1990	-	2138
sand	2138	-	2152
shale	2152	-	2159
sand	2159	-	2190
Big Lime	2190	-	2260
Big Injun	2260	-	2426
shale	2426	-	2990
Gordon Stray	2990	-	3008
shale	3008	-	3015
Gordon	3015	-	3032
shale	3032	-	3048
sand	3048	-	3052
shale	3052	-	3200
TD	3200		
T.D. -Logger	3200	KB	
T.D. -Driller	3200	KB	