07/05/2011 47-103-02666

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

Farm name:

GIFFORD, THOMAS L.

Operator Well No.: ARA LONG 2 RECEIVED

LOCATION:

Elevation:

1,446'

Ouadrangle:

PINE GROVE 7.5'

JUL 09 2012

District: Latitude: **GRANT**

County: WETZEL

39 Deg 37 Min

WV GEOLOGICAL SURVEY 30 | Sec.

MORGANTOWN, WV

Longitude:

13,065 Feet south of 1,230 Feet west of

80 Deg 40 Min

0 Sec.

Company Address:	HG Energy PO Box 5519 Vienna, WV		Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Inspector: Derek Haught						
Date Permit Issued: 07/05/2011						
Date Well Wo	ork Commenced:	12/05/2011				
Date Well Wo	ork Completed:	01/16/2012				
Verbal Pluggi	ng:	•				
Date Permission Granted On:						
Rotary X	Cable Ri	g	7"	1435'	1435'	350 sks
Total vertical	Depth (ft):	3530'				
Total Measure	ed Depth (ft):	3611'				
Fresh Water D	Depth (ft):	none	4 ½"	3491.8'	3491.8'	200 sks
Salt Water De	pth (ft):	none				
Is Coal being	mined in ares (Y/N)?	No				
Coal Depths (ft): x 124	1'-1248'				
Void(s) encountered (Y/N) depth(s): NONE						

OPEN FLOW DATA * Waterflood Pr	oducer			
This well drilled direction	nally 213 degrees	SW a distance of 51	5'.	3347'-3348'
Producing formation	Gordon	Pay zone de	pth (ft)	3419'-3420.5'
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 (surf	face pressure)	after *	Hours
Second producing formation		Pay zone de	pth (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 (surf	face 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.

No

Were cuttings caught during drilling? No

Mechanical, ____ or Geophysical logs recorded on this well? 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 3347'-3348', 3419'-3420.5' w/ 300 gals 15% HCL, 282 bbls cross linked gel, and

13,100# 20/40 sand.

Well Log:

All depths are measured relative to KB (8' AGL).

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WV GEOLOGICAL SURVEY MORGANTOWN, WV

Shale w/ sand streaks	0	-	1241
Coal	1241	-	1248
Shale	1248	-	1706
Shale w/ sand streaks	1706	-	1765
shale	1765	-	1808
sand	1808	-	1858
shale	1858	-	1885
sand	1885	-	1950
shale	1950	-	2042
sand	2042	-	2150
shale	2150	-	2154
sand	2154	-	2176
shale	2176	-	2192
sand	2192	-	2202
shale	2202	-	2380
sand	2380	-	2412
shale	2412	-	2424
sand	2424	-	2432
Big Lime	2432	-	2538
Big Injun	2538	-	2746
shale	2746	-	3345
Gordon Stray	3345	-	3372
shale	3372	-	3381
Gordon	3381	-	3402
shale	3402	-	3414
sand	3414	-	3421
shale	3421	-	3611
TD	3611	-	
T.DLogger	3511	KB	
T.DDriller	3611	KB	