17-Mar-11 47-33-05516

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



Farm name:

ENGLAND, WAYNE & BEVERLY

Operator Well No.: B. H. BROWN 2332012

LOCATION:

Elevation:

1,184.00

Ouadrangle:

WOLF SUMMIDEPARTMENT OF

District:

TENMILE

County: HARRIS OF VITOR MENTAL Protection

Latitude:

39 Deg 17 Min

30 Sec.

Longitude:

4,510 Feet south of 5,610 Feet west of

80 Deg 27 Min

30 Sec.

Company

HG Energy, LLC

Company: HG Energy					
ll .	ox 5519 WV 26105	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Inspector: Tristan Jenkins		Size			
Date Permit Issued:	17-Mar-11	9 5/8"	323	323	199 SKS
Date Well Work Commenced:	16-Jun-11	9 3/8			
Date Well Work Completed:	8-Sep-11	7"	419	419	100 SKS
Verbal Plugging:		7 /			
Date Permission Granted On:					
Rotary X Cable	Rig				ŀ
Total vertical Depth (ft):	2810	7.	-		,
Total Measured Depth (ft):	2810				
Fresh Water Depth (ft):	none	4 1/2"	2732	2732	150 SKS
Salt Water Depth (ft):	none				
Is Coal being mined in ares (Y/N)	? no				
Coal Depths (ft): 293-3			İ		
Void(s) encountered (Y/N) depth(s):				
293-300					
			ļ		
		<u> </u>			

OPEN FLOW DATA

* Water Injection Well

Producing formation	Fifth Sand	Pay zone depth (f	t) 2638-2654
Gas: Initial open flow	* MCF/d O	il: Initial open flow	* Bbl/d
Final open flow	* MCF/d	Final open flow	* Bbl/d
Time of open flow betv	veen initial and final t	tests *	Hours
Static rock pressure	* psig (surfa	ice pressure) after	* Hours
	····	•	
Second producing formation		Pay zone depth (fi	
Gas: Initial open flow	MCF/d O	Pay zone depth (fi il: Initial open flow	t) <u>Bbl/d</u>
Gas: Initial open flow Final open flow	MCF/d	il: Initial open flow Final open flow	
Gas: Initial open flow	MCF/d	il: Initial open flow Final open flow	Bbl/d

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.

08/31/2012

Were core samples taixon.

Were

Y Electrical,

Mechanical,

N or Geophysical logs recorded on this well?

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.

<u>Treatment</u>: Perforated Fifth Sand from 2636' -2646' & 2648'-2653.5' (4 SPF). Treated w/ 300 gals 15% HCl, 181 bbl gelled water, and 2100 lbs 20/40 sand.

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

Shale w/ sand streaks	0	-	293	
Coal	293	-	305	
Shale	305	-	483	
Sand	483	-	496	
shale	496	-	600	
sand	600	-	620	
shale	620	-	832	
sand	832	-	870	
shale	870	-	1007	
sand	1007		1096	
shale	1096	-	1170	
sand	1170	-	1186	
shale	1186	-	1314	
sand	1314	-	1320	
shale	1320	-	1446	
sand	1446	-	1480	
shale	1480	-	1662	
Big Lime	1662	٠,	1727	
Big Linjun	1727		1807	
shale	1807	-	2230	
sand	2230	-	2234	
shale	2234	-	2330	
sand	2330	-	2347	
sand & shale	2347	-	2490	7
shale	2490	-	2678	١.
Fifth Sand	2678	-	2654	
shale	2654	-	2812	
TD Incom	2812	$\kappa \mathbf{r}$		